



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	\$240,862.14
Geochemical Sampling		

AUTHOR(S) _____ SIGNATURE(S) _____
 R. T. Henneberry, G.L. Wesa "signed and sealed"

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

STATEMENT OF WORK – CASH PAYMENT EVENT NUMBERS / DATE(S) 5189095

PROPERTY NAME Princeton Project

CLAIM NAME(S) (on which work was done) 577671, 577672, 600232, 577679, 706153, 712302
Placer Mountain 1, Placer Mountain 2, Placer Mountain 4, Placer Mountain 6, Placer Mountain A, Placer Creek 3

COMMODITIES SOUGHT Gold, porphyry copper

MINERAL INVENTORY MINFILE NUMBERS, IF KNOWN _____

MINING DIVISION Similkameen

NTS: 092H/01, 092H/02, 092H/08 TRIM 092H008, 092H018, 092H028, 092H029, 082H038, 092H039

LATITUDE _____ LONGITUDE _____ (at centre of work)
 NORTHING 5448230 EASTING 685400 UTM ZONE 10 MAP DATUM NAD 83

OWNER 1 Sydney Wilson OWNER 2 _____

MAILING ADDRESS _____
4766 West 4th Avenue _____
Vancouver, B.C. V6T 1C2 _____

OPERATORS (who paid for work) _____
Windfire Capital Corp. _____

MAILING ADDRESS _____
Suite 2000 – 1177 West Hastings Street _____
Vancouver, B.C. V6E 2K3 _____

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size, attitude)
The claims are largely underlain by Eocene Princeton Group volcanics masking suspected Triassic Nicola Group volcanics and Cretaceous intrusives. A 100m by 25m followed by a targeted 25m by 25m soil grids were established over previous 21 gpt Au area. Several linear Au-in-soil anomalies were detected. Rock sampling located two cluster of quartz float trains. 11 of 36 rock grab samples returned values in excess of 10 gpt Au to a maximum of 66.2 gpt Au. Trenching recommended

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS
30652, 30654, 30363, 31320, 31491, 31762, 31933, 31962

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	3650	Placer Mountain 1,2,4,A
Silt		
Rock	128	Placer Mountain 1,2,4,6, A Placer Creek 3
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 **\$240,862.14**

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**BC Geological Survey
Assessment Report
32838**

2011 GEOCHEMICAL REPORT

PRINCETON PROJECT

Located in the Princeton Area, British Columbia
Similkameen Mining Division
TRIM Sheets 092H008, 092H018, 092H028, 092H029, 092H038, 092H039
UTM (NAD 83) ZONE 10 688000E 5453000N

FOR

Windfire Capital Corp.
Suite 2000 - 1177 West Hastings Street
Vancouver, BC V6E 2K3

By: R. Tim Henneberry, P.Geo.
Gary L. Wesa, F.G.A.C.
February 2, 2012

SUMMARY

The Princeton Property is being explored for auriferous, quartz vein-hosted, polymetallic, and porphyry copper-molybdenum mineralization. The 12,620 hectare property is road accessible and located approximately 25 kilometres south of Princeton, British Columbia. Windfire Capital Corp. is earning a 100% interest, subject to a 3% Net Smelter Return (NSR) royalty by paying \$90,000 in cash, issuing 1,050,000 shares and completing \$1,025,000 in exploration expenditures over the next 3 years.

The Princeton Project lies within an area of high geological potential in the Princeton area. While most of the focus has been on porphyry copper, prior exploration conducted by the property vendor and current exploration conducted by Windfire Capital Corp., suggests that the Princeton Project and surrounding area have excellent potential to host vein hosted gold mineralization.

The 2011 geochemical survey on the Princeton Property consisted of road side and grid soil sampling and rock sampling. A total of 128 road soil samples, 1972 Phase I grid soil samples, 1550 Phase II grid soil samples and 124 rock samples were collected.

Lithochemical analysis delineated an area, designated Area 2, where 13 of the 36 samples returned gold values in excess of 10,000 ppb gold, or 10 grams per tonne, to a maximum of 66,237 ppb or 66.2 grams per tonne gold. The samples were collected from three separate areas enclosing angular float or subcrop of rusty weathered, limonite stained quartz with trace to 5%, very fine grain disseminated pyrite. Several of the samples exhibit remnant vugs or cellular boxwork structure.

Two phases of grid soil sampling were completed, with the second phase following up on positive results from the first phase. The surveys suggest that Area 2 hosts multiple, linear, parallel gold-in-soil anomalies with the strongest anomaly striking a minimum of 500 metres to a maximum of 650 metres in a northwest direction. Soil and rock geochemical surveys identified several other areas that also require follow up.

The next phase of exploration for the Princeton Project should comprise two phases with the bulk of the program directed at the Area 2 gold-in-soil anomalies, while a secondary program of prospecting, hand trenching and local grid soil sampling is committed to other anomalies delineated by the 2011 soil and rock geochemical surveys. Also, completion of a preliminary geological map of the southern portion on the property is recommended.

Excavator trenching is recommended for the Area 2 showings. Depth to bedrock is unknown; however, some rock samples appear to be from subcrop, therefore bedrock depth is estimated to be relatively shallow. The estimated cost of this program is \$240,000.

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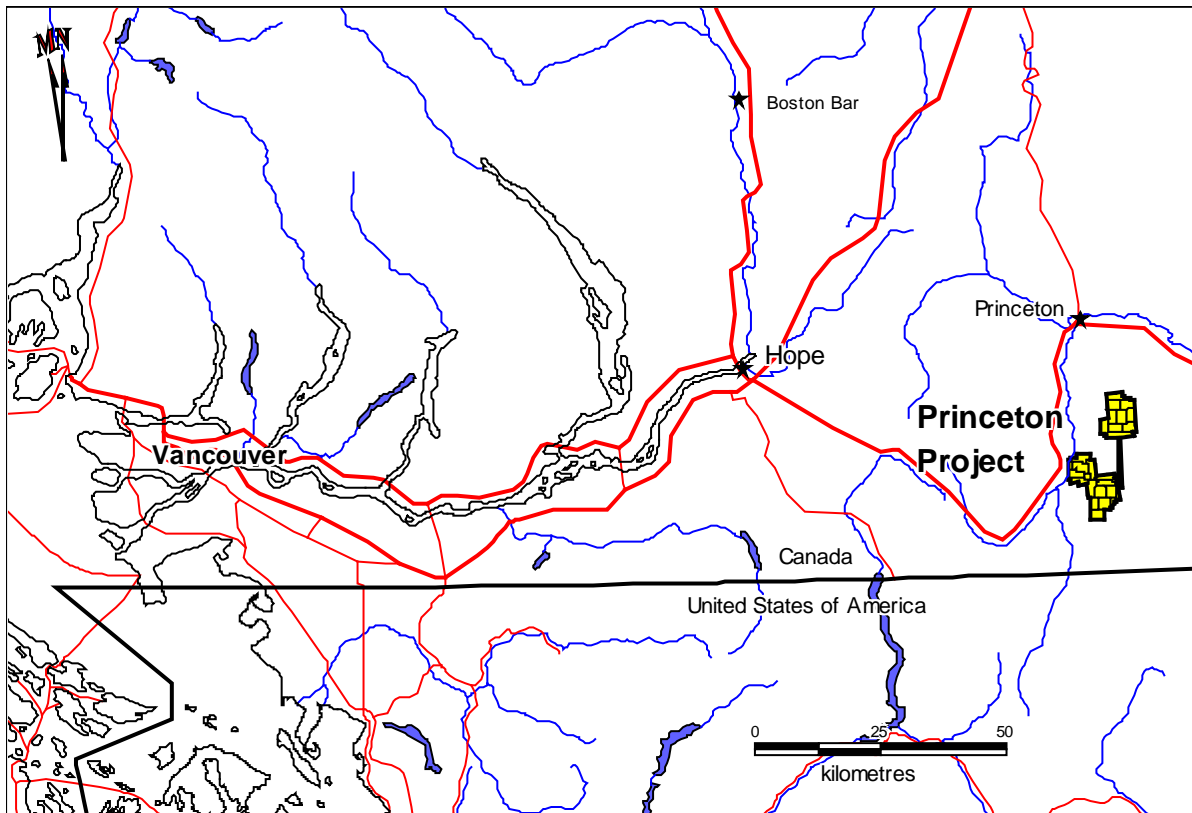
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INTRODUCTION

The purpose of this Technical Report is to compile the results from the 2011 exploration program for assessment credits and make recommendations for further exploration. This report was commissioned by Mr. Clive Massey, the CFO of Windfire Capital Corp.

The senior author's geological consulting company completed a program of rock sampling, road soil sampling and two phases of grid soil sampling during the summer and fall of 2011. The data presented in this report was collected during these programs.

The senior author, R. Tim Henneberry, P.Geo., who serves as the Qualified Person for this technical report, visited the property on August 12, 2011 to examine the showings. The junior author, Gary Wesa conducted exploration on the property from July 2 to July 22 and September 4 to September 12, 2011.



Projection NAD 83 Zone 10

Figure 1. Property Location

RELIANCE ON OTHER EXPERTS

The authors are not relying on a report or opinion of any experts. The ownership of the claims, comprising the property, and the ownership of 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 in accordance with the industry standards of the day. Lithochemical, soil and stream silt analyses were completed by reputable Canadian assay labs, in accordance with industry standards of the day.

Table 1. List of Tenures

Tenure Number	Claim Name	Owner	Map Number	Issue Date	Good To Date	Area (ha)
571245	WILLIS 1	129188 (100%)	092H	2007/dec/03	2014/may/01*	505.751
571246	WILLIS 2	129188 (100%)	092H	2007/dec/03	2014/may/01*	505.543
571248	WILLIS 3	129188 (100%)	092H	2007/dec/03	2014/may/01*	379.436
571249	WILLIS 4	129188 (100%)	092H	2007/dec/03	2014/may/01*	505.956
571250	WILLIS 5	129188 (100%)	092H	2007/dec/03	2014/may/01*	505.747
571251	WILLIS 6	129188 (100%)	092H	2007/dec/03	2014/may/01*	505.751
571252		129188 (100%)	092H	2007/dec/03	2014/may/01*	505.970
571253	WILLIS 7	129188 (100%)	092H	2007/dec/03	2014/may/01*	505.529
595948	WILLIS CREEK A	129188 (100%)	092H	2008/dec/12	2014/may/01*	526.455
595961	WILLIS CREEK C	129188 (100%)	092H	2008/dec/12	2014/may/01*	527.192
577664	PLACER CREEK 1	129188 (100%)	092H	2008/mar/01	2014/may/01*	527.911
577665	PLACER CREEK 2	129188 (100%)	092H	2008/mar/01	2014/may/01*	527.780
577668	PLACER CREEK 4	129188 (100%)	092H	2008/mar/01	2014/may/01*	527.795
577670	PLACER CREEK 5	129188 (100%)	092H	2008/mar/01	2014/may/01*	527.621
590051	PLACER CREEK WEST	129188 (100%)	092H	2008/aug/16	2014/may/01*	126.659
629212	PLACER CREEK EAST	129188 (100%)	092H	2009/sep/06	2014/may/01*	190.069
712302	PLACER CREEK 3	129188 (100%)	092H	2010/mar/03	2014/may/01*	422.449
577671	PLACER MOUNTAIN 1	129188 (100%)	092H	2008/mar/01	2014/may/01*	528.289
577672	PLACER MOUNTAIN 2	129188 (100%)	092H	2008/mar/01	2014/may/01*	528.289
577674	PLACER MOUNTAIN 3	129188 (100%)	092H	2008/mar/01	2014/may/01*	528.511
577679	PLACER MOUNTAIN 6	129188 (100%)	092H	2008/mar/01	2014/may/01*	528.118
600232	PLACER MOUNTAIN 4	129188 (100%)	092H	2009/mar/02	2014/may/01*	528.220
706153	PLACER MOUNTAIN A	129188 (100%)	092H	2010/feb/12	2014/may/01*	443.529
712262	PLACER LAKE	129188 (100%)	092H	2010/mar/03	2014/may/01*	507.562
712282	PLACER MOUNTAIN 5	129188 (100%)	092H	2010/mar/03	2014/may/01*	422.808
712322	PLACER MOUNTAIN 7	129188 (100%)	092H	2010/mar/03	2014/may/01*	317.044
826602	CONNECTOR	129188 (100%)	092H	2010/jul/25	2014/may/01*	464.402
	27 claims					12620.384

*pending approval of 2011 assessment credits

PROPERTY DESCRIPTION AND LOCATION

The Princeton Project is located south of Princeton, British Columbia (Figure 1) on TRIM claim sheets 092H008, 092H018, 092H028, 092H029, 092H038 and 092H039 in the Similkameen Mining Division. The property consists of 27 claims totaling 12,620 hectares. The geographic center of the property is approximately 688000E 5453000N (NAD 83) in UTM ZONE 10.

All claims are held 100% by Mr. Sydney Wilson of Vancouver, B.C. Details pertaining to the claims are summarized in Table 1 and shown in Figure 2. Mr. Sydney Wilson is at arm's length to Windfire Capital Corp.

Windfire is earning a 100% interest, subject to a 3% Net Smelter Return (NSR) royalty, in the Princeton project by making cash payments and share issuances and completing exploration expenditures under the terms outlined in Table 2:

Table 2. Windfire Capital Corp. Princeton Project Agreement Terms

Payments			Work Commitments	
Date	Cash	Shares	Expenditures of	Completed by
April 6, 2011 (TSX Venture Exchange acceptance date)	\$20,000	150,000		
May 6, 2012	\$25,000	250,000	\$225,000	06-April-2012
May 6, 2013	\$45,000	400,000	\$300,000	06-May-2013
May 6, 2014		250,000	\$500,000	06-May-2014
				06-May-2012
Totals	\$90,000	1,050,000	\$1,025,000	

Windfire has the option to purchase 2/3 of the NSR for \$1,000,000 per third, leaving Mr. Wilson with a 1% NSR.

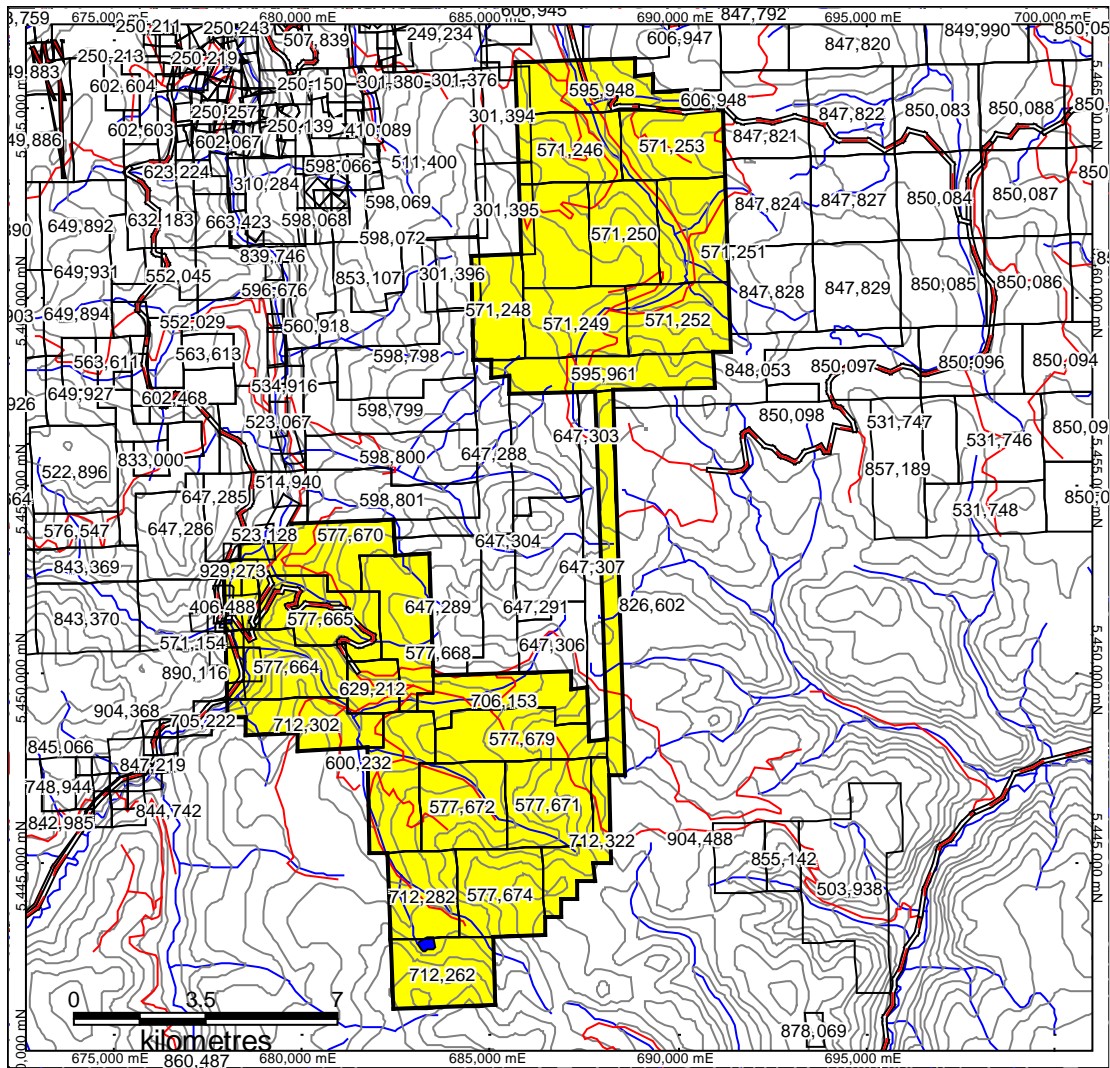
The authors are aware of any environmental liabilities associated with the Princeton property. The next phase of exploration for the Princeton property will be mechanical trenching followed by diamond drilling. These exploration activities require a permit obtained through the British Columbia Ministry of Energy and Mines Notice of Work process. The Notice of Work application was submitted in the fall of 2011 and is being processed through the agency.

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

ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

The Princeton Project is located approximately 25 kilometres south of Princeton, British Columbia. Road access to the northern portion of the property (Willis Creek Block) is via the Copper Mountain Road / Willis Creek Road systems, directly from Princeton, for a distance of approximately 20 kilometres. Road access to the southern portion of the property (Placer Creek and Placer Mountain Blocks) is via Highway 3 south from Princeton to the Placer Mountain Forest Service Road for a distance of approximately 37 kilometres, thence approximately 13 kilometres along the Placer Mountain Forest Service Road.

Topographical relief on the Princeton Project is gentle to steep with elevations ranging from 945 metres above sea level (ASL) at the Similkameen River in the southwest to 2100 metres ASL on the Willis Creek Block. Vegetation consists of thick jack pine and spruce on north slopes and significantly sparser vegetation on the remaining slopes. Jack pine stands are falling victim to the Mountain Pine Beetle infestation. Underbrush is limited but heavy deadfall is prevalent in many areas. Rock outcrops are rare except on ridges and deep cut valleys. Much of this region has been logged.



Projection NAD 83 Zone 10 **Figure 2: Claim Location (092H08,018,028,029,038,039)**

The climate of this part of the province is typical of the central interior of British Columbia. The summer field season is generally warm and dry and extends from mid-May through to mid-October. Winters are cold with significant snow accumulations and temperatures dipping to minus 20° Celsius for extended periods.

The logistics of working in this part of the province are excellent. Good gravel road access allows for the movement of supplies and equipment. Accommodations, heavy equipment, supplies and fuel are readily available in Princeton.

The Willis Creek Block is located in close proximity to the Copper Mountain property that is presently preparing to resume production. Should a deposit be found on Willis Creek property, it may be possible to ship mill feed to Copper Mountain facilities. There is no infrastructure present on the Placer Creek and Placer Mountain Blocks of the property.

HISTORY

According to the British Columbia Ministry of Energy, Mines and Petroleum Resources Assessment Report Database, the ground presently comprising the Princeton Project has no exploration history prior to the work programs completed since 2008 by Mr. Sydney Wilson, the property vendor.

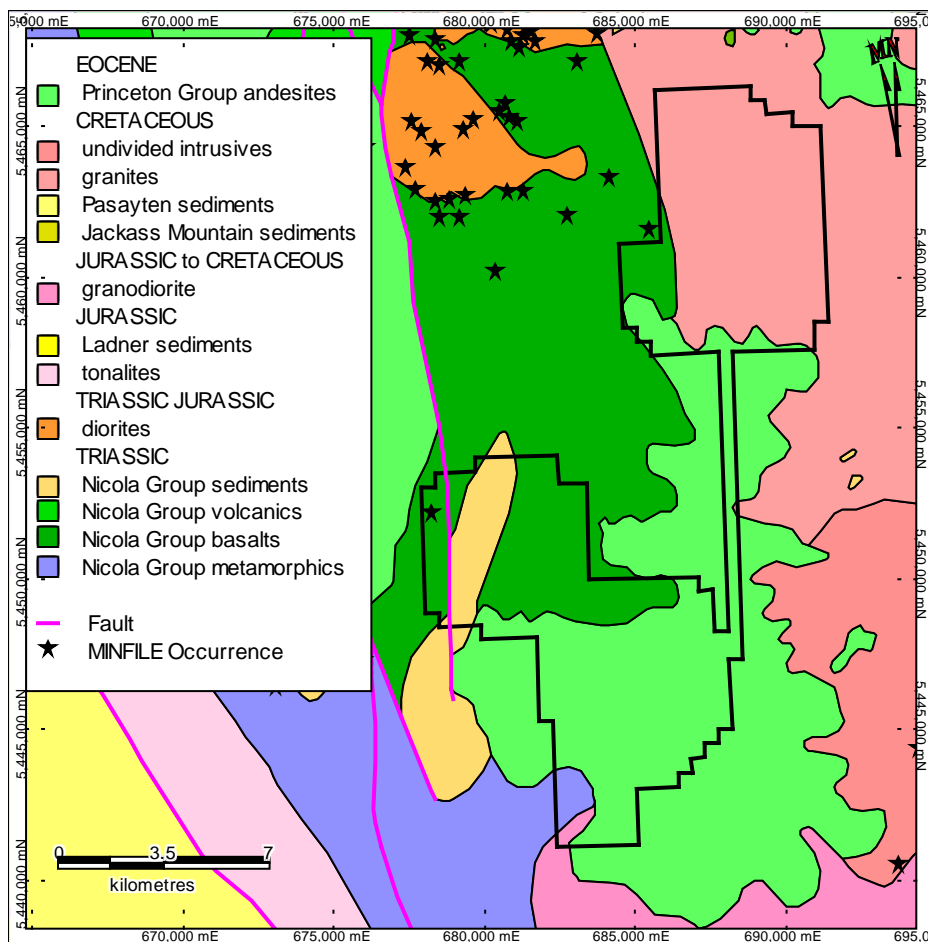
In the northern part of the Princeton property, known as the Willis Creek Block, a three year program of Mobile Metal Ion (MMI) soil geochemistry was completed. A total of 364 samples were collected over a grid measuring 4000 metres long by 2200 metres wide. The three year MMI soil sampling program successfully outlined an area 1800 metres long by 2200 metres wide that appears to be anomalous in copper, molybdenum, silver and gold. This area has been sampled at 100 to 150 metre sample spacings along 225 and 450 metre spaced lines (Henneberry, 2008a; Butrenchuk et al, 2009a; Henneberry and Wesa, 2010a).

In the western part of the Princeton property, known as the Placer Creek Block, a three year program of Mobile Metal Ion (MMI) soil sampling was completed. A total of 296 samples were obtained over a 1000 metre long by 1500 metre grid. The program was successful in locating an open 1300 metre long by 50 to 500 metre wide silver anomaly and a two line Au cluster anomaly 250 metres wide by 300 metres long (Henneberry, 2008b; Butrenchuk et al, 2009b; Henneberry and Wesa, 2010b).

In the southern part of the Princeton property, known as the Placer Mountain Block, a north-south and an east-west reconnaissance MMI soil line was completed resulting in the collection of 59 Mobile Metal Ion (MMI) soil samples. Several multi-element spot anomalies and small cluster anomalies were located (Henneberry, 2008c). A second phase of MMI soil sampling, consisting of four lines totaling 50 samples, was completed in the summer of 2010. This survey was followed by prospecting later in the fall resulting in discovery of angular quartz vein float that returned analytical values ranging from 10.3 ppb Au to 21 grams per tonne Au (Henneberry and Wesa, 2010c). The 2011 exploration program followed up this discovery.

GEOLOGICAL SETTING (Summarized from MINFILE 092HSE)

The Princeton Project is located at the southern end of the Intermontane Belt and the adjoining eastern margin of the Coast Belt. The southern Intermontane Belt is dominated by volcanic rocks and sediments of the Upper Triassic Nicola Group, comprising the Quesnel Terrane. These rocks are intruded by co-magmatic plutons of the Late Triassic and Early Jurassic Copper Mountain and Hedley intrusions, and comprise a west-facing magmatic arc. The island arc assemblage is cut by post-accretionary intrusions of the Late Jurassic and Cretaceous Eagle Plutonic Complex and Osprey Lake Batholith, and is unconformably overlain by volcanic rocks and clastic sediments of the Cretaceous and Tertiary Spences Bridge and Princeton groups. This post-accretionary volcanism and sedimentation is, in part, controlled by a system of northerly striking strike-slip faults.



UTM NAD 83 Zone 10

Geology from MapPlace, February 2012

Regional Geology
Figure 3

The Methow Terrane lies across the Pasayten fault to the west and occupies the eastern margin of the Coast Belt in the Princeton map area. This terrane comprises a wedge of clastic sediments derived in part from Quesnellia rocks to the east. The sequence consists of fine grained sediments and mafic volcanics of the Lower to Middle Jurassic Ladner Group, overlain by a thin section of sandstone and conglomerate of the Upper Jurassic "Thunder Lake Sequence", which is, in turn, followed by a thick section of coarse clastics of the partly coeval Cretaceous Jackass Mountain and Pasayten Groups.

The oldest rocks in the Placer Mountain area belong to the Triassic Nicola Group. They consist of basaltic and undivided volcanics and overlying clastic sediments which are metamorphosed to amphibolite grade in the central portion of the map area.

The Nicola Group rocks have been intruded by early Jurassic granites and undivided intrusives, Jurassic tonalites and Jurassic to Cretaceous granodiorites. The youngest units are Eocene andesites of the Princeton Group.

The southwestern corner of the map area is transected the Pasayten Fault and is underlain by clastic sediments of the Jurassic Ladner and Jackass Mountain Groups and the Cretaceous Pasayten Group.

Princeton Project Geology

With the exception of government geological surveys there has been no mapping on the Princeton property, except for some limited mapping on the Willis Creek and Placer Creek Blocks by company geologists. The following unit descriptions are taken from the British Columbia Ministry of Energy, Mines and Petroleum Resources MapPlace website.

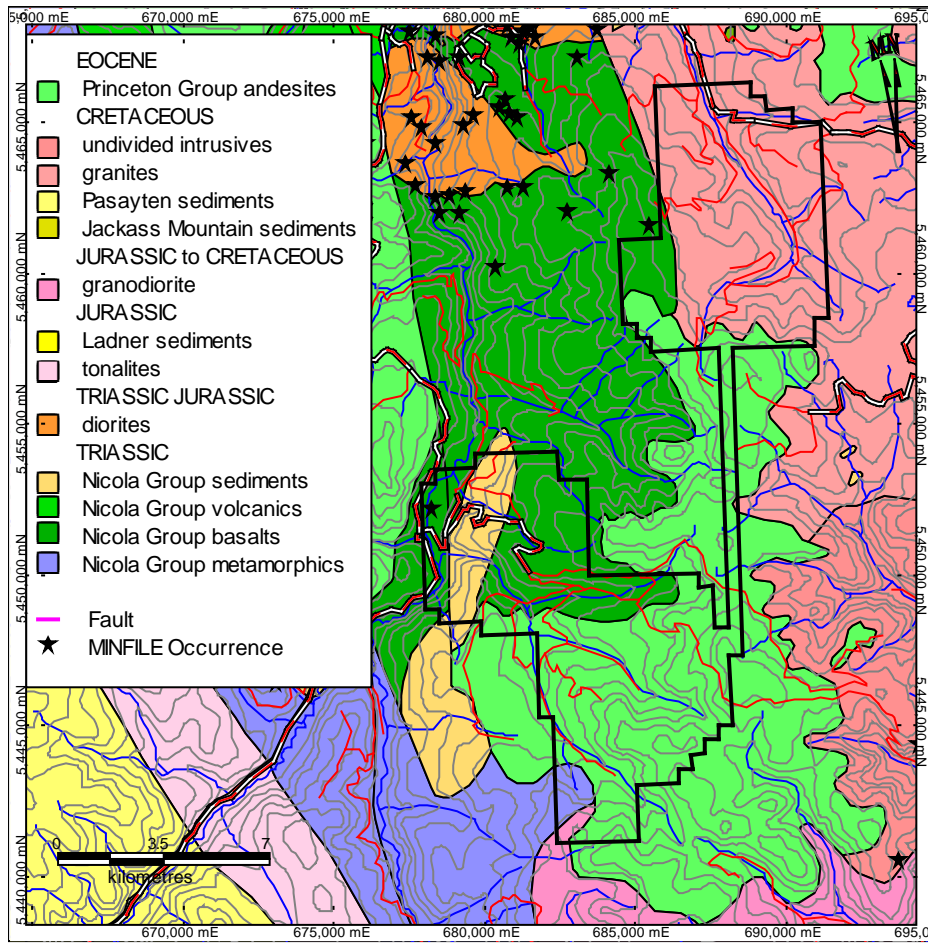
The oldest rocks are the Triassic Nicola Group which consists of three main units: a sedimentary unit comprised of shale, argillite, siltstone, sandstone, phyllite, tuff, local polymict conglomerate, limestone, greenstone and chloritic phyllite; the Eastern Volcanic Facies comprised of basaltic mafic breccia and tuff with augite and hornblende-phyric clasts; and local intercalated argillite and amphibolite, foliated diorite, mylonite and chlorite schist derived from Nicola Group.

The Nicola Group rocks have been intruded by Jurassic to Cretaceous and Cretaceous intrusives. The Jurassic to Cretaceous intrusions consist of granodioritic rocks, and the Cretaceous intrusions comprise granite and alkali feldspar granite rocks.

The youngest rocks on the property are the Eocene Princeton Group, consisting of intermediate, locally mafic and felsic, flows and volcanoclastic rocks.

Limited mapping in the Willis Creek Block (Butrenchuk et al, 2009a) confirms the property to be underlain by Cretaceous granite and granodiorite intruding Nicola Group basaltic volcanics on the western boundary. Small outliers of Princeton Group andesitic volcanics appear to outcrop along the southern boundary and in the northeastern corner.

Na-metasomatism in the form of albitization has affected much of the intrusive rocks in the vicinity of the MMI grids. Where albitization is most intense, this lithology exhibits a bleached white appearance. Locally, t very minor potassic alteration is also evident. Intrusive rocks are weakly to moderately fractured and display coincident, minor jointing. Quartz content is variable ranging from less than 1% to almost 20% .with some quartz appearing as secondary in the form of quartz eyes.



UTM NAD 83 Zone 10

Geology from MapPlace, February 2012

Property Geology

Figure 4

Reconnaissance mapping (Butrenchuk et al, 2009b) indicates that the Placer Creek Block is underlain largely by Nicola basalts, andesite, pyroclastic volcanics and clastic sediments. Andesites of the Eocene Princeton Group crop out along the southern boundary of the claim group.

The geological map of the area from the British Columbia Ministry of Energy and Mines MapPlace website (Figure 4) shows that the Placer Mountain Block is underlain largely by Eocene Princeton Group andesites.

Mineralization

The Princeton Project was originally explored for both auriferous, vein-hosted polymetallic mineralization and porphyry copper - molybdenum mineralization, however, recent exploration has focused on auriferous quartz vein mineralization. Grid soil sampling and lithochemical sampling was successful in locating three areas of anomalous gold mineralization.

Table 3. 2011 Rock Sampling Highlights

Sample	Area	Description	ppb Au	Sample	Area	Description	ppb Au
PM11-EBR02	1	angular quartz boulder float	396.6	14806	2	0.5 m wide quartz vein	476.4
PM11-EBR03	1	angular quartz boulder float	272.2	PM11-EBR14	2	angular quartz vein float	1644.8
PM11-EBR04	1	quartz vein in outcrop	102.3	PM11-EBR15	2	angular quartz vein float	115.2
PM11-EBR07	1	sub-angular quartz boulder float	332.5	PM11-EBR16	2	sub angular quartz vein float	12545.7
PM11-EBR09	1	quartz vein in altered granodiorite	163.4	PM11-EBR17	2	sub angular quartz vein float	3500.4
PM11-GWR01	2	0.65 m wide quartz vein	14937.1	PM11-EBR18	2	sub angular quartz vein float	1549.7
PM11-GWR02	2	0.5 m wide quartz vein	23149.2	PM11-EBR19	2	angular quartz vein float	1971.4
PM11-GWR03	2	0.55 m wide quartz vein	315.4	PM11-EBR20	2	angular quartz vein float	3395.1
PM11-GWR04	2	0.55 m wide quartz vein	4477.5	PM11-EBR22	2	angular quartz vein float	5028.4
PM11-GWR05	2	quartz vein grab	10074.9	PM11-EBR25	2	angular quartz vein float	30547.4
PM11-GWR06	2	1.0 m wide quartz vein	2606.7	PM11-EBR26	2	angular quartz vein float	19002.1
PM11-GWR07	2	quartz vein grab	9769.4	PM11-GWR01A	2	angular quartz vein float	5128.5
PM11-GWR08	2	2.5 m wide quartz vein	13831	PM11-GWR02A	2	quartz vein grab	8569
PM11-GWR09	2	0.5 m wide quartz vein	782	PM11-GWR02B	2	0.19 m brecciated andesite	600.5
PM11-GWR24	2	sub angular quartz vein float	1123.1	PM11-GWR02C	2	0.31 wide quartz vein	43799.2
PM11GWR65	2	angular quartz vein float	5535.7	PM11-GWR02D	2	0.18 m altered andesite	322.8
PM11GWR66	2	angular quartz vein float	25653.3	PM11-GWR02E	2	0.20 m altered argillite	166.5
PM11GWR67	2	angular quartz vein float	60707.5	PM11-GWR02F	2	0.48 m wide quartz vein	66236.9
PM11GWR68	2	angular quartz vein float	65938.5	PM11-EBR28	3	angular argillite float with quartz	934.5
PM11GWR69	2	angular quartz vein float	47900.1	PM11GWR70	4	sub angular quartz vein float	176.2
				PM11GWR71	4	sub angular quartz vein float	106

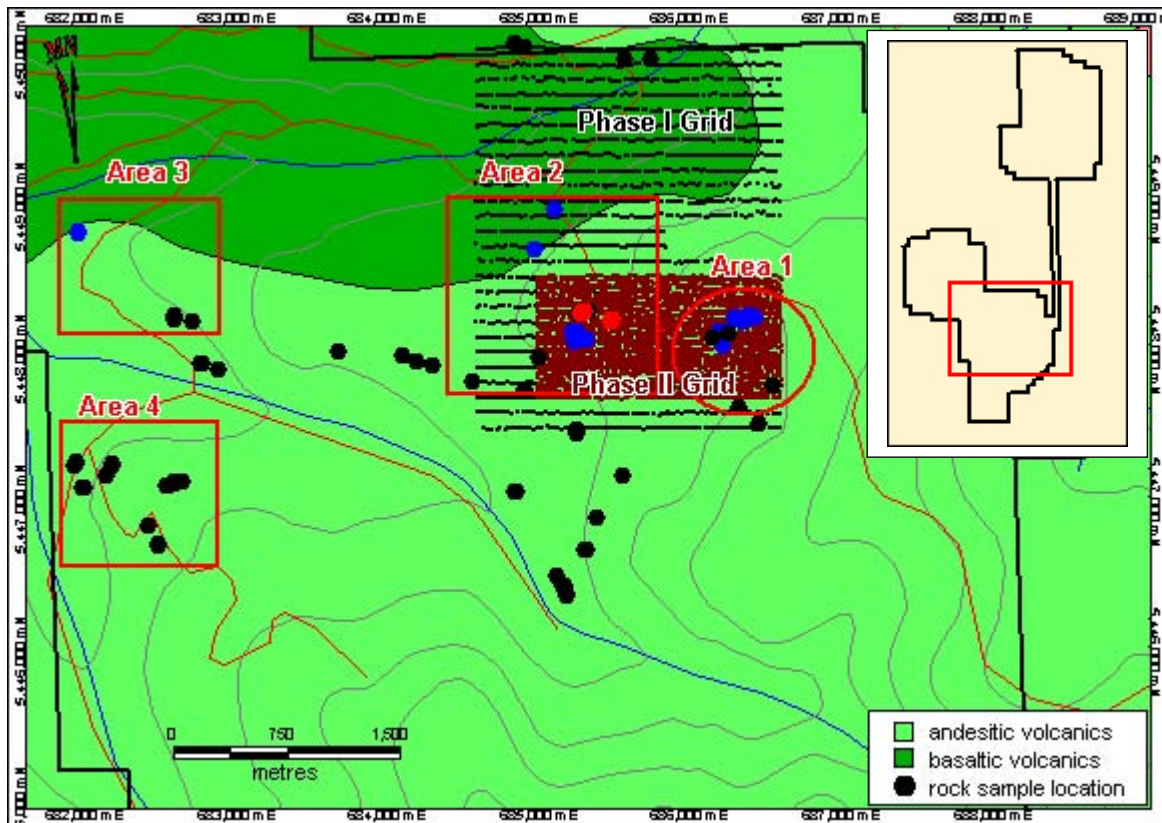
Table 3 and Figure 5 present lithochemical analytical results and sample locations within the claim block. Area 2 represents the dominant area on the property where 13 samples, collected from subcrop and sub angular to angular quartz float boulders, returned gold values in excess of 10 grams per tonne. Prospecting outlined three distinct areas of quartz float and subcrop composed of rusty weathered, limonite stained quartz with trace to 5%, very fine grain, disseminated pyrite. Quartz vein material locally exhibits remnant vugs and cellular boxwork texture.

Soil geochemistry conducted over Area 1 was successful in highlighting multiple, linear, parallel gold-in-soil anomalies with the largest being 500 to 650 metres in length.

The Princeton Project is being explored for polymetallic quartz veins and porphyry Cu – Mo deposits. The following description of polymetallic quartz veins is condensed from British Columbia Ore Deposit Models (Lefebvre and Church, 1996) and the following description of porphyry Cu – Mo deposits is condensed from the British Columbia Ore Deposit Models (Panteleyev, 1995).

Polymetallic Quartz Veins

Polymetallic veins occur in virtually all tectonic settings except oceanic, including continental margins, island arcs, continental volcanics and cratonic sequences. They are usually divided into metasediment hosted veins and igneous hosted veins. The polymetallic veins at Maroon would be classified as metasediment hosted. Metasediment hosted veins are emplaced along faults and fractures in sedimentary basins dominated by clastic rocks that have been deformed, metamorphosed and intruded by igneous rocks. Veins postdate deformation and metamorphism. Many veins are associated with dikes following the same structures. The age of these veins is Proterozoic or younger; though mainly Cretaceous to Tertiary in British Columbia.



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Figure 5. Mineralized Areas

Polymetallic veins are typically steeply dipping, narrow, tabular or splayed. They commonly occur as sets of parallel and offset veins. Individual veins vary from centimetres up to more than 3 metres wide and can be followed from a few hundred to more than 1000 metres in length and depth. Veins may widen to tens of metres in stockwork zones. Compound veins with a complex paragenetic sequence are common. The veins display a wide variety of textures, including cockade texture, colloform banding and crustifications and locally drusy. Veins may grade into broad zones of stockwork or breccia. Coarse grain sulphides occur as patches and pods, and fine grain disseminations are confined to veins.

Regional faults, fault sets and fractures are an important ore control, however, veins are typically associated with second order structures. Significant polymetallic veins are often restricted to competent lithologies. Dikes are often emplaced along the same faults and in some camps are believed to be roughly contemporaneous with mineralization. Some polymetallic veins are found surrounding intrusions with porphyry deposits or prospects.

Metasediment hosted polymetallic veins are generally comprised of carbonates (most commonly siderite with minor dolomite, ankerite and calcite) and/or quartz, with lesser barite, fluorite, magnetite and bitumen.

Mineralization within the veins consists of: galena, sphalerite, tetrahedrite-tennantite, with lesser sulphosalts including pyrargyrite, stephanite, bournonite and acanthite, native silver, chalcopyrite, pyrite, arsenopyrite and stibnite. Silver minerals often occur as inclusions in galena. Some deposits include native gold and electrum. Rhythmic compositional banding is sometimes present in sphalerite. Some veins contain more chalcopyrite and gold at depth and Au grades are normally low for the amount of sulphides present.

Wall rock alteration is typically limited in extent (measured in metres or less). Metasediments typically display sericitization, silicification and pyritization. Thin veining of siderite or ankerite may be locally developed adjacent to veins.

Black manganese oxide stains are common weathering products and can be used as guide for prospecting. Polymetallic veins are generally strongly structurally controlled and commonly occur in clusters, therefore, the best place to explore for new veins is in the area of known veins. Geochemically, there are generally elevated levels of Zn, Pb, Ag, Mn, Cu, Ba and As associated with the veins. Geophysically, polymetallic veins may have elongate zones of low magnetic response and/or electromagnetic, self potential or induced polarization anomalies related to ore zones.

Individual vein systems range from several hundred to several million tonnes grading from 5 to 1500 g/t Ag, 0.5 to 20% Pb and 0.5 to 8% Zn. Average grades are strongly influenced by the minimum size of deposit included in the population. For B.C. deposits larger than 20,000 t the average size is 161,000 t with grades of 304 g/t Ag, 3.47 % Pb and 2.66 % Zn. Copper and gold are reported in less than half the occurrences, with average grades of 0.09 % Cu and 4 g/t Au.

Polymetallic veins usually support small to medium-size underground mines. The mineralization may contain arsenic which typically reduces smelting credits.

British Columbia examples of metasediment hosted polymetallic vein deposits include: the Slocan-New Denver-Ainsworth district, the Trout Lake Camp and St. Eugene Mine. Other examples are the Mayo District in the Yukon and the Couer d'Alene District in Idaho.

Porphyry Cu - Mo Deposits

Porphyry Cu±Mo deposits consist of stockworks of quartz veinlets, quartz veins, closely spaced fractures and breccias containing pyrite and chalcopyrite with lesser molybdenite, bornite and magnetite occurring in large zones of economically bulk-mineable mineralization in or adjoining porphyritic intrusions and related breccia bodies. Disseminated sulphide minerals are present, generally in subordinate amounts. Mineralization is spatially, temporally and genetically associated with hydrothermal alteration of the host rock intrusions and wallrocks. In British Columbia, porphyry deposits are either Triassic-Jurassic or Cretaceous-Tertiary in age.

Porphyry Cu-Mo deposits are typically hosted in orogenic belts at convergent plate boundaries, commonly linked to subduction-related magmatism or in association with the emplacement of high-level stocks during extensional tectonism related to strike-slip faulting and back-arc spreading following continent margin accretion. They are associated with high-level (epizonal) stocks within volcano-plutonic arcs. Virtually any type of country rock can be mineralized, but commonly the high-level stocks and related dikes intrude their coeval and cogenetic volcanic pile. These intrusions range from coarse grain, phaneritic to porphyritic stocks, batholiths and dike swarms. Compositions range from calcalkaline quartz diorite to granodiorite and quartz monzonite. Commonly there is multiple emplacement of successive intrusive phases and a wide variety of breccias.

Porphyry Cu-Mo deposits consist of large zones of hydrothermally altered rock containing quartz veins and stockworks, sulphide-bearing veinlets, fractures and lesser disseminations in areas up to 10 km² in size, commonly coincident wholly or in part with hydrothermal or intrusion breccias and dike swarms. Deposit boundaries are determined by economic factors that outline ore zones within larger areas of low-grade, concentrically zoned mineralization. Ore grade mineralization is often controlled by igneous contacts. Breccias, mainly early formed intrusive and hydrothermal types, also commonly host ore-grade mineralization. Zones of intensely developed fracturing give rise to ore-grade vein stockworks, notably where there are coincident or intersecting multiple mineralized fracture sets.

Alteration mineralogy consists of quartz, sericite, biotite, K-feldspar, albite, anhydrite /gypsum, magnetite, actinolite, chlorite, epidote, calcite, clay minerals and tourmaline. Early formed alteration can be overprinted by younger assemblages. Central and early formed potassic zones (K-feldspar and biotite) commonly coincide with ore. This alteration can be flanked in volcanic host rocks by biotite rich rocks that grade outward into propylitic rocks. The biotite is a fine grain, 'shreddy' looking secondary mineral that is commonly referred to as an early developed biotite (EDB) or a 'biotite hornfels'. These older alteration assemblages in cupriferous zones can be partially to completely overprinted by later biotite and K-feldspar and then phyllic (quartz-sericite-pyrite) alteration, less commonly argillic, and rarely, in the uppermost parts of some ore deposits, advanced argillic alteration (kaolinite-pyrophyllite).

Local swarms of dikes, many with associated breccias, and fault zones are sites of mineralization. Orebodies around silicified alteration zones tend to occur as diffuse vein stockworks carrying chalcopyrite, bornite and minor pyrite in intensely fractured rocks but, overall, sulphide minerals are sparse. Much of the early potassic and phyllic alteration in central parts of orebodies is restricted to the margins of mineralized fractures as selvages. Later phyllic-argillic alteration forms envelopes on the veins and fractures and is more pervasive and widespread. Propylitic alteration is widespread but unobtrusive and is indicated by the presence of rare pyrite with chloritized mafic minerals, saussuritized plagioclase and small amounts of epidote.

Pyrite is the predominant sulphide mineral; in some deposits the Fe oxide minerals magnetite, and rarely hematite, are abundant. Ore minerals are chalcopyrite, molybdenite, lesser bornite and rare (primary) chalcocite. Subordinate minerals are tetrahedrite/tennantite, enargite and minor gold, electrum and arsenopyrite. In many deposits late veins commonly contain galena and sphalerite in a gangue of quartz, calcite and barite. Gangue minerals in mineralized veins are mainly quartz with lesser biotite, sericite, K-feldspar, magnetite, chlorite, calcite, epidote, anhydrite and tourmaline. Many of these minerals are also pervasive alteration products of primary igneous mineral grains.

Geochemically, calcalkalic systems can be zoned with a Cu+Mo ore zone having a 'barren', low-grade pyritic core and surrounded by a pyritic halo with peripheral base and precious metal-bearing veins. Central zones with Cu commonly have coincident Mo, Au and Ag with possibly Bi, W, B and Sr. Peripheral enrichment in Pb, Zn, Mn, V, Sb, As, Se, Te, Co, Ba, Rb and possibly Hg is documented. Overall, the deposits are large-scale repositories of sulphur, mainly in the form of metal sulphides, chiefly pyrite. Geophysically, ore zones, particularly those with higher Au content, can be associated with magnetite rich rocks and are indicated by magnetic surveys. Alternatively, the more intensely hydrothermally altered rocks, particularly those with quartz-pyrite-sericite (phyllic) alteration produce magnetic and resistivity lows. Pyritic haloes surrounding cupriferous rocks respond well to induced polarization (I.P.) surveys but in sulphide-poor systems the ore itself provides the only significant IP response.

Mine production in British Columbia is from primary (hypogene) ores. Rare exceptions are the Afton mine where native copper was recovered from an oxide zone, and the Gibraltar and Bell mines where incipient supergene enrichment has provided some economic benefits.

Porphyry deposits contain the largest reserves of Cu, significant Mo resources and close to 50% of Au reserves in British Columbia.

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EXPLORATION

The 2011 exploration program on the Princeton Project consisted of roadside and grid soil sampling and rock sampling. A total of 128 road soil samples, 1972 Phase I grid soil samples, 1550 Phase II grid soil samples and 124 rock samples were collected.

Windfire Capital Corp. conducted two phases of soil sampling. Phase I involved road soil sampling along accessible roads in selected parts of the claim block. Samples were obtained from cut banks above the road at 50 metre intervals. Phase I grid soil samples were collected at 25 metre intervals along 100 metre spaced lines on a grid consisting of 26 east-west lines measuring 2000 metres. The southern portion of the grid was filled in with 25 metre sample intervals along 25 metre line spacings, covering an area 800 metres long by 1550 metres wide. Sampling procedure was synonymous for road soil and grid soil sampling. Soil lines and sample sites were flagged with fluorescent ribbon, and sample stations marked at 25 or 50 metre intervals utilizing hip chains. A 500 to 1000 gram sample was collected from the "B" horizon and placed in pre-numbered soil bags. Each sample location was recorded as a waypoint in a GPS unit in the map datum NAD 83.

Table 4. Area 1 Rock Samples

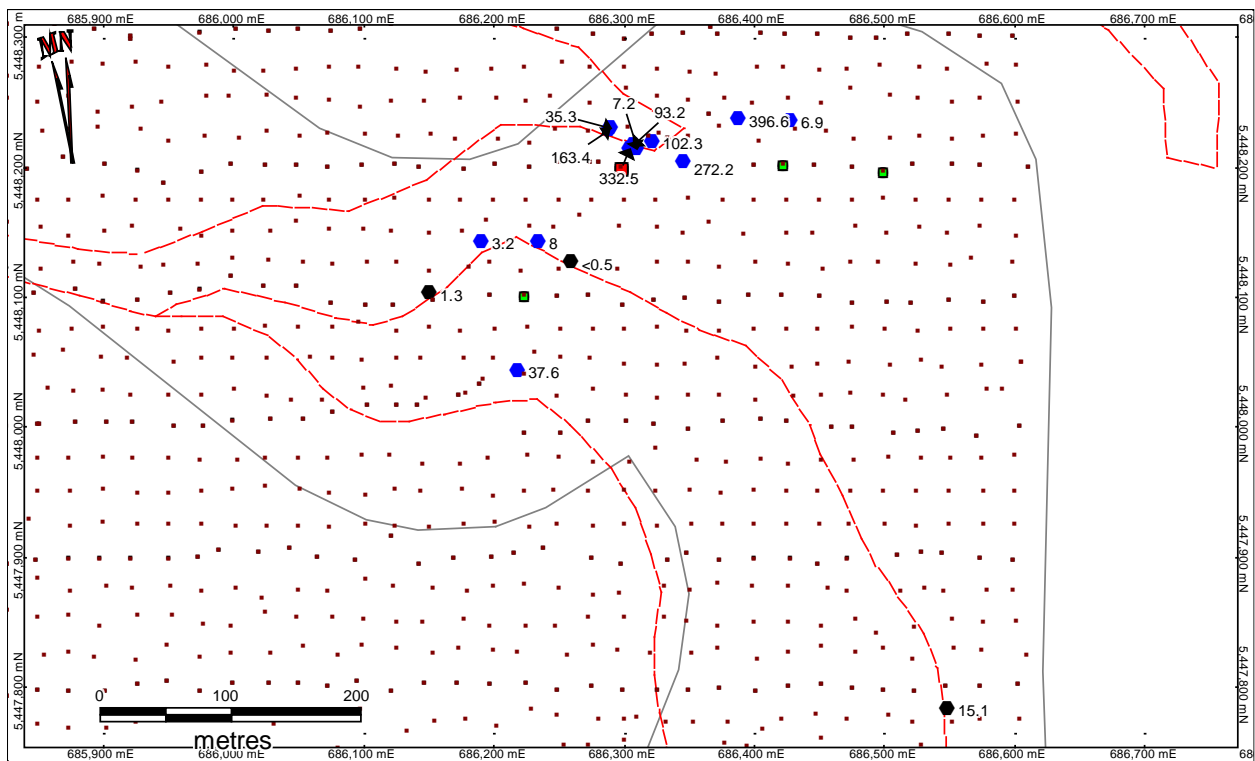
Sample	83Z10E	83Z10N	Description	Type	ppb Au
PM11-EBR01	686428	5448236	qtz-flooded, sericit'zd granodiorite with Mn-ox and lesser Fe-ox	Float	6.9
PM11-EBR02	686388	5448237	angular qtz bldr with sericite and limonitic alt'n; minor lim vugs	Float	396.6
PM11-EBR03	686345	5448203	angular qtz bldr with py cavities, minor cell bxwrk; strly gossanous	Float	272.2
PM11-EBR04	686322	5448220	qtz vn in o/c; intensely broken, frac'd, minor, crse py grns	Chip	102.3
PM11-EBR05	686310	5448214	ang qtz bldrs with lim fracs, cell bxwrk after py; crse vugs; rust stn	Float	7.2
PM11-EBR06	686307	5448217	qtz vn bldrs with abund cell bxwrk, py cavities/vugs; perv lim fracs	Float	93.2
PM11-EBR07	686305	5448214	subang > subrnd qtz bldr with patchy, crse ser on surf; Mn-ox fracs	Float	332.5
PM11-EBR08	686290	5448230	ang qtz vn bldrs with boxwork structure after py; gossanous float	Float	35.3
PM11-EBR09	686289	5448229	qtz vn in altr'd granodiorite; same as EBR08	Chip	163.4
PM11-EBR10	686190	5448143	andes dike; str goss, rusty, decomposed with clay composition	Grab	3.2
PM11-EBR11	686234	5448143	ang, tabular qtz bldrs with minor patchy ser/ ser partings; wkly lim	Float	8
PM11-EBR12	686218	5448043	ang qtz vn bldrs with dk rusty stn; 1.5-2.0mm moly bleb on qz chip	Float	37.6
PM11GWR79	686150	5448103	ang to subang qtz bldrs up to 12x10x10cm	Float	1.3
PM11GWR80	686259	5448127	ang qtz bldrs up to 20x15x15cm	Float	<0.5
PM11GWR81	686549	5447783	ang qtz bldrs up to 12x10x9cm	Float	15.1

Lithochemical samples, ranging in weight from 1-3 kilograms, were collected from outcrop or surface float. Float samples comprised fragments from individual boulders, or a composite of chips from two or more cobble- to boulder-size pieces within an area of several square metres. Samples were placed in numbered plastic bags along with a similarly numbered blue plastic ribbon or Tyvek tag. Sample sites were marked with a fluorescent pink ribbon and a correspondingly coded Tyvek tag. Sample site UTM coordinates, in NAD 83 datum, were recorded in a hand-held GPS instrument. Samples were shipped or delivered to ACME Analytical Laboratories in Vancouver for analysis.

The authors are not aware of any sampling or recovery factors that could materially impact the accuracy and reliability of the assay results. The authors believe the samples taken by Windfire Capital Corp. personnel to be representative and does not feel there are any factors that would cause in sample bias.

Four areas of lithochemical sampling are designated: Areas 1 and 2 on the soil grid, Area 3 near the west-central boundary of the property and Area 4 at the southwestern boundary of the property. The complete plot of all rock sample analytical values, in ppb Au, is shown on Figure 7.

Area 1 rock samples are concentrated in the eastern part of the Phase II grid. A total of 15 samples were collected as shown in Figure 7a. Five of these samples returned values in excess of 100 ppb Au to a maximum of 396.6 ppb Au and are recorded from angular quartz vein float with limonite ± sericite, or from similar quartz in outcrop.



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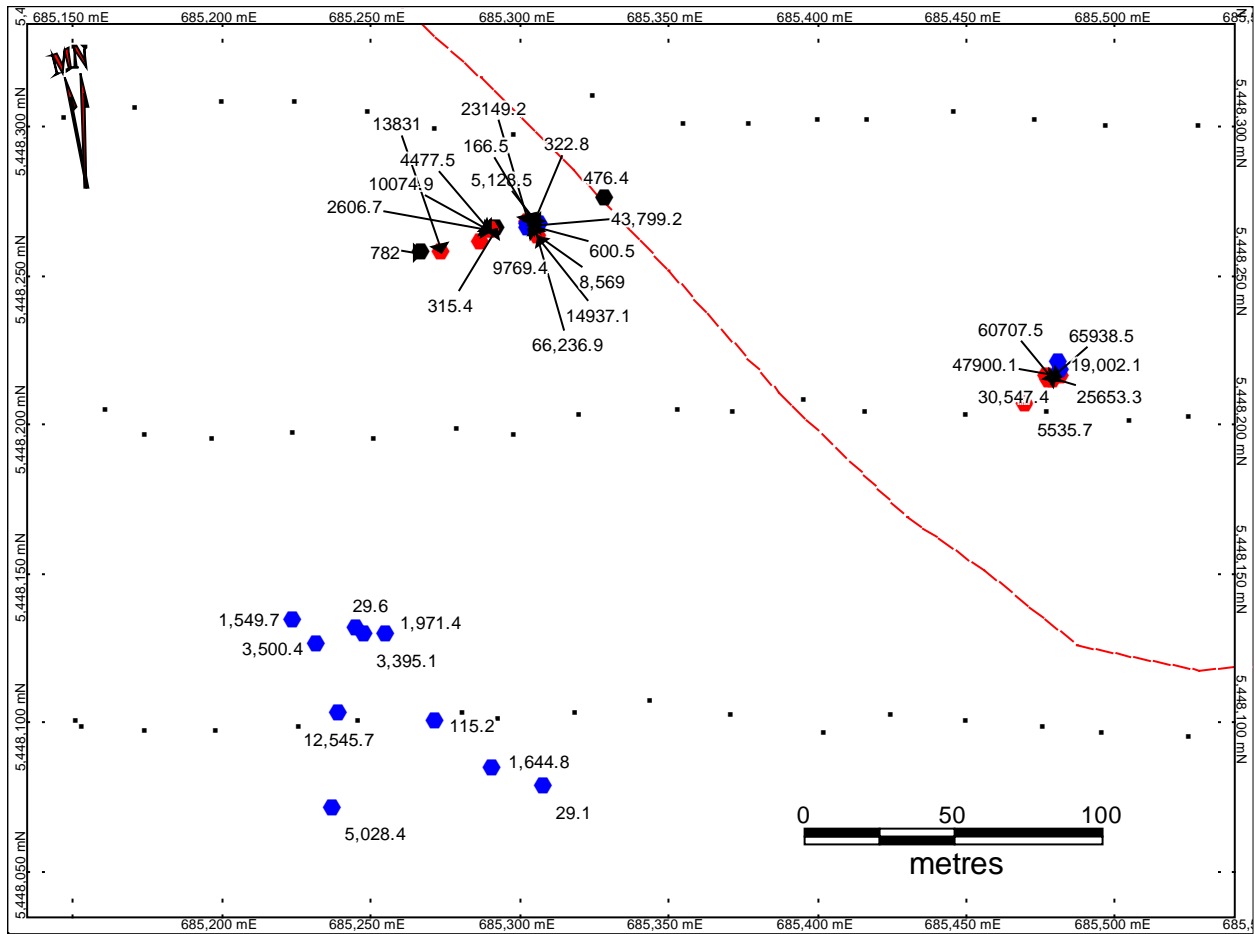
Figure 7a. Area 1 Rock Samples in ppb Au

Area 2 rock samples are concentrated 900 metres west of Area 1. A total of 36 samples returned encouraging results with 13 of the 36 samples documenting gold values in excess of 10,000 ppb, or 10 grams per tonne, to a maximum of 66,237 ppb, or 66.2 grams per tonne. These samples come from three separate concentrations of float boulders and outcrop comprising rusty weathered, limonite stained quartz with trace to 5%, very fine grain, disseminated pyrite. Several of the samples exhibit vuggy texture or cellular boxwork structure after pyrite.

Table 5. Area 2 Rock Samples

Sample	83Z10E	83Z10N	Description	Type	ppb Au
PM11-GWR01	685306	5448263	0.65m wd, massive qtz vn; frac'd w/ <1% diss to f.g. py	0.65 m	14937.1
PM11-GWR02	685303	5448268	0.5m wd qtz vn with trace v.f. diss py; similar to GWR01	0.50 m	23149.2
PM11-GWR03	685292	5448266	0.55m wd qtz vn with Fe and Mn-ox stain; sim to GWR01	0.55 m	315.4
PM11-GWR04	685290	5448265	sim to GWR03 with trace f. diss. Py	chip	4477.5
PM11-GWR05	685290	5448265	qtz vn with 1-5% v.f. diss to cubic to smoky, patchy py	chip	10074.9
PM11-GWR06	685290	5448265	1.0m wd qtz vn; wkly brx'd w/ tr. sulfides, boxwork text.	1.00 m	2606.7
PM11-GWR07	685287	5448261	qtz vn with tr. diss to cubic py; sim to GWR06	chip	9769.4
PM11-GWR08	685274	5448258	2.5m qtz vn with tr. f. diss to cubic py; cellular bxwrk struct.	2.5 m	13831
PM11-GWR09	685267	5448258	same as GWR08; 0.5m chip sample	0.5 m	782
PM11-GWR22	684561	5447805	rusty wth'd lapilli tuff; grabs from ~10m outcrop width	grab	0.6
PM11-GWR23	684901	5447756	subrnd'd qtz bldrs up to 12x12x9cm; wkly limonitic	float	<0.5
PM11-GWR24	685370	5447795	subrnd to subang, hem-stn qtz bldrs up to 10x7x6cm	float	1123.1
PM11GWR65	685470	5448207	ang qtz bldrs up to 35x20x20cm w/ 1% f. diss py	float	5535.7
PM11GWR66	685477	5448216	qtz bldrs with tr v.f. diss to cubic py; vuggy; sucrosic	float	25653.3
PM11GWR67	685479	5448215	same as -66 with v. f. diss to cubic py	float	60707.5
PM11GWR68	685478	5448215	bldr inten brx'd qtz with ang qz frags in qz matrix; rusty stained	float	65938.5
PM11GWR69	685482	5448216	1.0x0.9m qtz brx bldr; same as -68	1.0 m	47900.1
14806	685329	5448276	0.5 m chip across qtz. Vn	0.5 m	476.4
PM11-EBR13	685308	5448078	ang-subang qtz vn bldrs with lim, Mn, sparse cavities	float	29.1
PM11-EBR14	685291	5448084	ang qtz vn bldrs with rusty frags lim hem, boxworl texture	float	1644.8
PM11-EBR15	685272	5448100	ang qtz vn bldrs with tr-<1%, 3-4mm py cubes; 7-7.5mm py clots	float	115.2
PM11-EBR16	685239	5448103	ang > subang qtz vn bldr with tr-<1% dissem-irreg py grns, blebs	float	12545.7
PM11-EBR17	685232	5448126	ang-subang qtz vn bldrs with tr-1% py blebs, dissem, cubes to 5mm	float	3500.4
PM11-EBR18	685224	5448134	ang>subang qtz vn bldrs with tr py blebs, cubes to 4mm, cell bxwrk	float	1549.7
PM11-EBR19	685255	5448129	ang qtz bldrs with up to 5%, 9-10mm cubes, dissem, aggregate py	float	1971.4
PM11-EBR20	685248	5448129	ang qtz vn bldrs with ox'zd, 2-3mm py cubes; lim frags, Mn-ox stn'd	float	3395.1
PM11-EBR21	685245	5448131	inten silic'fd andes with f. sugary, layered texture; rusty frags	float	29.6
PM11-EBR22	685237	5448071	ang qtz bldrs with rare cubic cavities after py; minor hem surf stn	float	5028.4
PM11-EBR25	685482	5448218	qtz vn bldr; inten frac'd, in part brx'd; clast-sup'd matrix	chip	30547.4
PM11-EBR26	685481	5448221	qtz float; same as EBR25 w/ 10-15mm py inclusions, grns	chip	19002.1
PM11-GWR01A	685307	5448267	qtz vn bldr; 0.75x0.60x0.62m; frac'd, lim stn'd	chip	5128.5
PM11-GWR02A	685303	5448266	42cm chip, frac'd to brx'd in situ qtz vn	0.42 m	8569
PM11-GWR02B	685303	5448267	19cm chip; fragmt'd brx'd andes w/ lim cement	0.19 m	600.5
PM11-GWR02C	685304	5448267	31cm chip; brx'd, fragmt'd qtz vn w/ lim & Mn-ox cement	0.31 m	43799.2
PM11-GWR02D	685304	5448267	18cm chip; Fe-&Mn-ox altr'd andes w/ musc-rich matrix	0.18 m	322.8
PM11-GWR02E	685305	5448268	20cm chip; blk, silic'fd argillaceous wallrock	0.20 m	166.5
PM11-GWR02F	685305	5448267	48cm chip; qtz vn; competent to chippy, fragmt'd, in situ qz	0.48 m	66236.9

The most significant discovery in Area 2 is a 0.5 to 2.5 metre wide, discontinuous, white bull quartz vein traced at surface for approximately 75 metres in a roughly east-west direction (~070°-080° azimuth). This vein was partially hand trenched in September 2011, and two points measured along this vein, showing the vein and wallrock contacts, confirm the strike of this feature.



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Figure 7b. Area 2 Rock Samples in ppb Au

Area 3 occurs off the grid to the west near the western claim boundary and is represented by two float samples which are characterized by a stockwork of fine quartz-carbonate-ankerite veinlets.

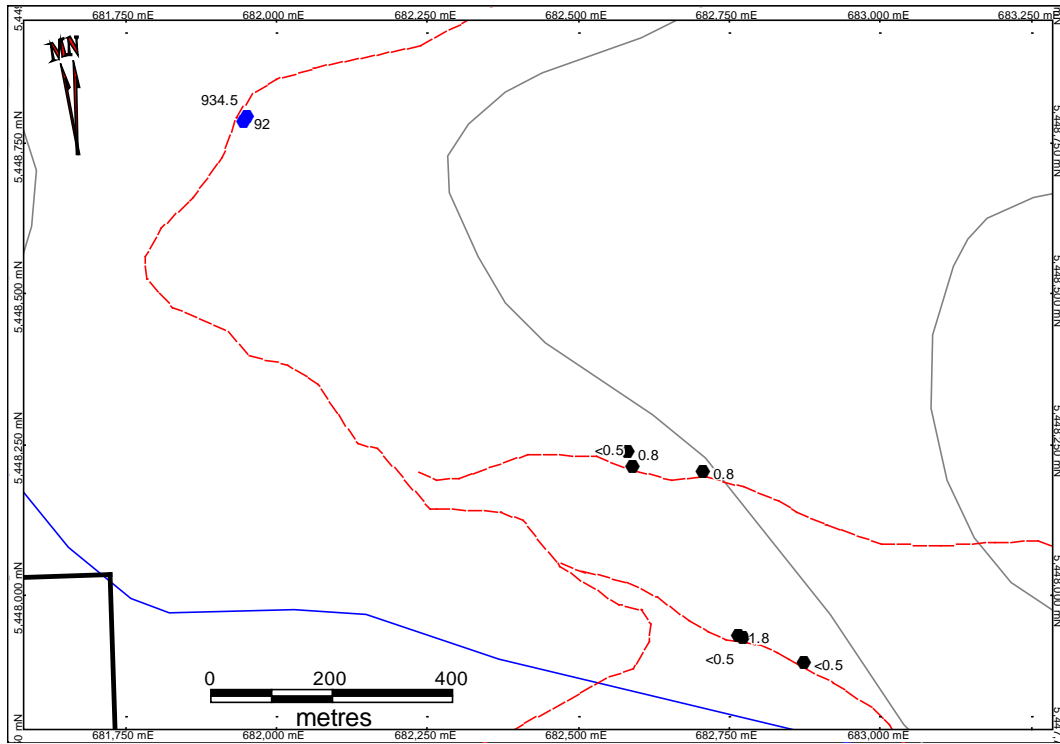
Table 6. Area 3 Rock Samples

Sample	83Z10E	83Z10N	Description	Type	ppb Au
PM11-EBR27	681947	5448785	ang talus; rusty wth'd lithic tuff with 8mm qz-cc vns w/ cell bxwrk	float	92
PM11-EBR28	681951	5448793	ang argillite bldrs with multiple qz-cc-ankerite vns up to 3mm	float	934.5

Table 7. Area 4 Rock Samples

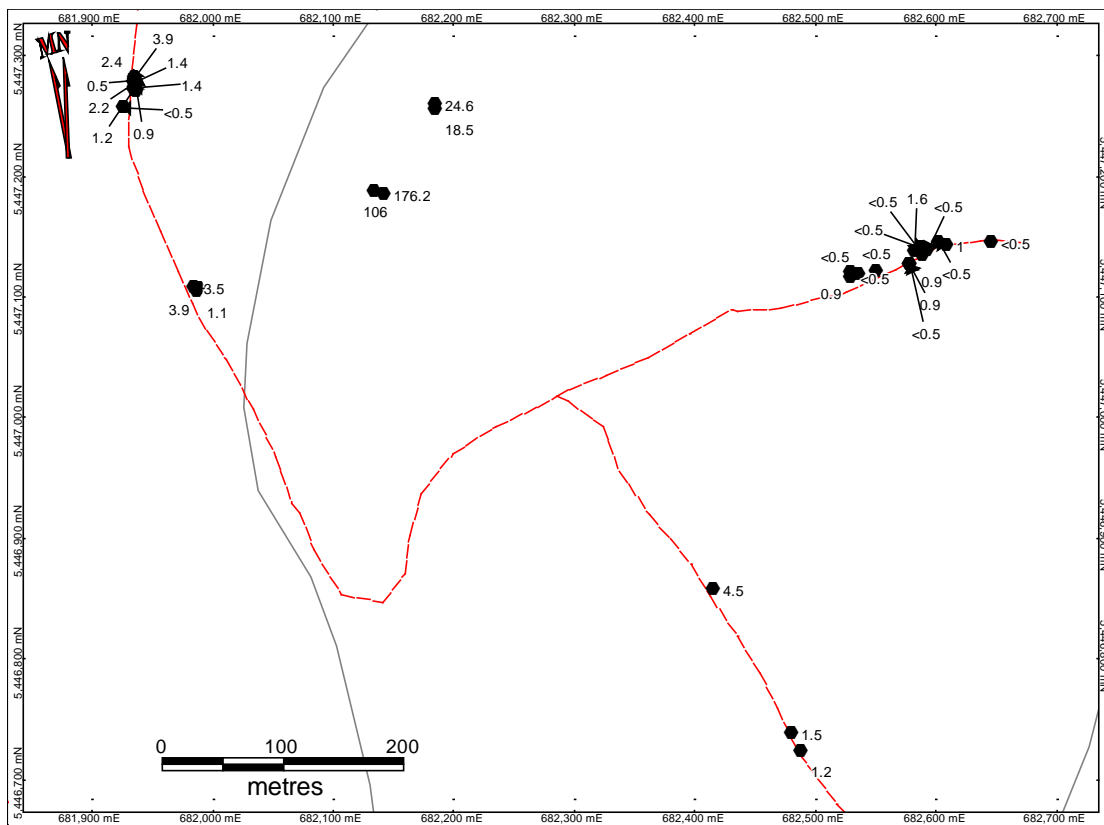
Sample	83Z10E	83Z10N	Description	Type	ppb Au
PM11-GWR25	681936	5447281	hand trench; narrow qtz vns in limonitic, altr'd argillite	chip	3.9
PM11-GWR26	681936	5447280	hand trench; narrow qtz vns in limonitic, altr'd argillite	chip	2.4
PM11-GWR27	681936	5447279	hand trench; 0.5m qtz vn in limonitic, altr'd argillite	0.50 m	0.5
PM11-GWR28	681936	5447278	hand trench; multiple qtz vns in limonitic, altr'd argillite	chip	1.4
PM11-GWR29	681936	5447277	hand trench; 25cm qtz vn in sheared, dk grey argillite	0.25 m	2.2
PM11-GWR30	681936	5447276	hand trench; 40cm qtz vn in sheared, dk grey argillite	0.40 m	0.9
PM11-GWR31	681936	5447274	hand trench; 50cm limonitic qtz vn in sheared argillite	0.50 m	1.4
PM11-GWR32	681936	5447273	hand trench; 50cm limonitic qtz vn in sheared argillite	0.50 m	1.2
PM11-GWR33	681936	5447271	hand trench; 30cm limonitic qtz vn in sheared blk argillite	0.30 m	1.4
PM11-GWR34	681937	5447269	qtz bldrs up to 16x15x12cm excavated from trench	chip	0.8
PM11-GWR35	681985	5447108	sevrl qtz bldrs up 15x12x12cm with hairline hem fracs	float	3.5
PM11-GWR36	681989	5447106	vuggy, frac'd qtz bldrs up to 18x17x15cm; sim to -35	float	3.9
PM11-GWR37	681988	5447104	same as GWR35,36; bldrs up to 17x14x14cm	float	1.1
PM11-GWR38	682530	5447116	sevrl ang to subang qtz bldrs with limonitic fracs	float	<0.5
PM11-GWR39	682530	5447120	same as GWR38; angular qtz bldrs; variably limonitic	float	0.9
PM11-GWR40	682536	5447118	same as previous; minor interstitial pale calcite	float	<0.5
PM11-GWR41	682551	5447121	sevrl ang to subang qtz bldrs; variably rusty-brn wth'd	float	<0.5
PM11GWR42	682578	5447127	sevrl ang to subang qtz bldrs; variably rusty-brn wth'd	float	<0.5
PM11GWR43	682583	5447137	sevrl ang to subang qtz bldrs; variably rusty-brn wth'd	float	1.6
PM11GWR44	682589	5447134	bldrs wte qtz with patchy sericite & interstitial calcite	float	<0.5
PM11GWR45	682588	5447141	bldrs wte qtz with patchy sericite & interstitial calcite	float	<0.5
PM11GWR46	682593	5447138	ang to subang qtz bldrs up to 25x24x20cm	float	<0.5
PM11GWR47	682603	5447145	ang to subang qtz bldrs up to 25x24x20cm	float	<0.5
PM11GWR48	682609	5447143	ang to subang qtz bldrs up to 25x24x20cm	float	1
PM11GWR49	682646	5447145	ang to subang qtz bldrs w/ lim on fracs, brkn surfaces	float	<0.5
PM11GWR50	682415	5446858	4 pcs qtz bldrs up to 9x8x6cm; subang to rnd'd	float	4.5
PM11GWR51	682480	5446738	single subang qtz bldr; 28x27x12cm	float	1.5
PM11GWR52	682488	5446724	subrnd'd qtz cobble 7x7x6cm	float	1.2
PM11GWR70	682142	5447185	subang to subrnd qtz bldrs up to 12x10x9cm	float	176.2
PM11GWR71	682135	5447187	subrnd pcs wte bull qtz up to 15x12x12cm	float	106
PM11GWR72	682185	5447259	4m wd spray opaque wte to pale smoky-gry qtz cobbles	chip	24.6
PM11GWR73	682185	5447255	4m wd spray opaque wte to pale smoky-gry qtz cobbles	chip	18.5
14808	682578	5447127	composite grab of qtz vn material	grab	0.9
14809	682578	5447127	composite grab of qtz vn material	grab	0.9
14810	681927	5447256	chip along qtz vn	1.00 m	<0.5
14811	681927	5447256	composite grab of qtz vn material	chip	<0.5

Area 4 also occurs off the grids, near the western claim boundary and is marked by two sample concentrations (Figure 7d). The northwestern concentration represents one metre continuous chip samples from a nine metre wide zone of quartz veins and stringers in limonitic altered argillite, however, analytical values are low for elements tested. The northeastern site represents samples of angular to sub-angular quartz float, however, these samples returned low values for elements tested. In the central area between the two sites described above, two sets of two samples of sub-angular to sub-rounded quartz boulders returned values ranging from 18.5 to 117.6 ppb Au.



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Figure 7c. Area 3 Rock Samples in ppb Au



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Figure 7d. Area 4 Rock Samples in ppb Au

Additional lithogeochemical sampling was completed in the general area, and these values are plotted on Figure 6 (in pocket) and analytical values and sample descriptions are recorded in Table 5. One sample from sub-angular to sub-rounded quartz boulders returned a value of 107 ppb Au.

Table 8. Other Rock Samples

Sample	83Z10E	83Z10N	Description	Type	ppb Au
PM11-GWR10	684838	5450038	1-4cm, rnd'd to subrnd'd cobbles on deactivated skidder rd	float	28.8
PM11-GWR11	684907	5450019	15x12x10cm semi-ang qtz bldr with tr. v.f. diss to cubic py	float	27
PM11-GWR12	685740	5449933	12x10x7cm qtz bldr with tr. f.g. py; surface lim. Stain	float	2
PM11-GWR13	685569	5449942	sevrl ang to subang qtz bldrs up to 15x12x12cm w/ tr v.f. diss py	float	107
PM11-GWR14	684999	5447960	sevrl pebble to cobble size qtz float; no vis sulfides	float	<0.5
PM11-GWR15	682582	5448237	16x15x10cm, ang to subang qtz bldr with Mn-ox on frags and surf	float	0.8
PM11-GWR16	682591	5448213	pebble to bldr size, subrnd to ang qtz float; glassy, vitreous	float	<0.5
PM11-GWR17	682707	5448203	subrnd to subang qtz bldrs up to 10x10x9cm	float	0.8
PM11-GWR18	683679	5448007	sim to GWR17; pcs up 8x6x5cm	float	<0.5
PM11-GWR19	684092	5447975	sim to GWR17; pcs up to 12x10x9cm	float	1.7
PM11-GWR20	684188	5447936	subrnd to subang qtz bldrs up to 15x14x12cm	float	<0.5
PM11-GWR21	684295	5447910	pale grey-wte to greenish-wte, layered calc-silicate	float	0.6
PM11GWR53	682766	5447930	banded, rusty qtz-carb(ank) bldrs; ang to subang	float	1.8
PM11GWR54	682773	5447928	same as -53; pale greenish-grey calc-silicate	float	<0.5
PM11GWR55	682874	5447887	pale gnish-grey to wte, angular, banded, layered calc-sil	float	<0.5
PM11GWR56	685553	5447191	qtz bldrs up to 23x15x15cm; rnd'd to subrnd'd	float	<0.5
PM11GWR57	685312	5446701	2.5m silcf'd, qtz flooded volc(?) w/ mm to cm scale qz vns	2.5	2.8
PM11GWR58	685307	5446700	bldrs crse qtz-plag feld-musc up to 20x20x15cm	float	<0.5
PM11GWR59	685307	5446690	sim to -57; cm scale qtz vns & clots in ang bldrs	float	1
PM11GWR60	685163	5446456	rusty qtz bldrs up to 30x30x25cm; ang to subang	float	<0.5
PM11GWR61	685122	5446520	subrnd'd qtz bldrs up to 9x8x6cm	float	0.8
PM11GWR62	684849	5447083	ang qtz bldr 60x32x25cm with 2-3% v.f.g. to smoky-gry, banded py	float	3.6
PM11GWR63	684850	5447083	same bldr as GWR62	select	3.5
PM11GWR64	684839	5447083	rusty, subang-subrnd qtz bldrs up to 12x10x9cm	float	<0.5
PM11GWR74	685175	5446406	broken pcs rusty, brx'd qtz vn from impure slst o/c	float	0.7
PM11GWR75	685184	5446397	in situ qtz vn float derived from impure slst oc	float	<0.5
PM11GWR76	685242	5447462	rusty, silcf'd volc(?) with vfg diss to f. stringer py	float	<0.5
PM11GWR77	685247	5447484	subrnd bldrs wte bull qtz with tr. cubic py, lim frags	float	<0.5
PM11GWR78	685382	5446905	lg bldr 30x30x20cm, silcf'd, colour banded volc w/ 1% vfg diss py	float	0.9
PM11GWR82	686454	5447535	subang qtz bldrs up to 23x16x10cm in rd bank	float	<0.5
PM11GWR83	686322	5447632	ang to subrnd'd qtz cobbles up to 5x4x4cm	float	<0.5
14807	685153	5446458	grab sample of qtz vn float	grab	1.9
PM11-EBR23	684975	5448673	rusty wth'd, silicf'd volc with sheeted qtz strgrs; cell bxwrk structure	float	17.3
PM11-EBR24	685103	5448944	subang>subrnd qtz bldrs with minor hem and Mn-ox stain	float	7.3

Two phases of grid soil sampling were completed with the second phase following up on the positive results from the initial phase. The initial soil grid was designed to cover a broad area of abundant quartz vein float, assaying up to 21 gpt Au, discovered in the fall of 2010 (Henneberry and Wesa, 2010c). Analytical results from Phase 1 grid soil survey (Figure 8) identified two areas of anomalous gold-in-soil geochemistry in the bottom portion of the grid. These two anomalous soil areas correspond with the quartz vein showings represented by Areas 1 and 2 (Figure 6, Figure 7a, Figure 7b). A grouping of gold-in-soil anomalies in the northern portion of the grid was not investigated, and a 95.4 ppb Au gold-in-soil value in the east-central part of the grid was not followed up.

A detailed, Phase 2 soil grid, with sample stations located on 25 metre centres, was completed over the southern portion of the Phase 1 grid with the objective of better defining gold-in-soil anomalies (Figure 9). The resultant soil geochemistry correlates well with the Area 2 showings and suggests a northwest-southeast trending, multiple vein structure. The strongest linear anomaly is a minimum of 500 metres long and may extend a further 150 metres to the edge of the grid in a northwest direction. The gold-in-soil geochemistry also provides indications of the presence of northeast-southwest trending structures.

Road soil sampling concentrated on three areas to the south and west of the soil grids (Figure 10). Sampling along the central, northwest-southeast road system in a valley bottom, near a tributary drainage, resulted in four consecutive anomalous gold-in-soil values of 60.3, 0.7, 11.7, and 4.2 ppb Au. Soil sampling along a switchback road south of the soil grids defined a near continuous sequence of weakly to moderately anomalous values with elevated values up to 5.4, 3.5, 9.3, 6.7 and 4.4 ppb Au. This area may represent the strike projection of soil anomalies found on the grids. A near continuous sequence of weakly anomalous gold values are documented along a westernmost, northerly to southwesterly trending road.

DRILLING

There is no record of diamond drilling on the Princeton Project.

SAMPLE PREPARATION, ANALYSIS AND SECURITY

Samples were returned to Princeton on a daily basis where they were bagged and secured in the motel room of the project geologist, where they remained under strict control and not accessible to unapproved persons, until a pallet load of samples was accumulated for shipment to the laboratory. Soil samples were collected in the field in numbered, large gusseted kraft paper soil bags. Upon returning to town daily, soil samples were laid out in numbered sequence, to confirm complete sample succession, and placed in large plastic sample bags in groups of 12 to 15 per bag. Three plastic bags were then placed in a fibre sack which was secured with a plastic ladder lock strap. A total of 14-15 fibre bags constituted a pallet load which was shipped from Princeton direct to ACME Analytical Laboratories in Vancouver, B.C. via Clarke Freightways Ltd., or delivered by Mammoth Geological personnel at the completion of the program.

Table 9. CDN Standard Performance

Range	GSP 2		Range	CGS 27	
	ppb Au	ppm Cu		ppb Au	ppm Cu
	194-234			386-478	3640-3940
PMS01	198	56	PMS-119	412	3322
PMS03	218	63	PMS02	452	3492
PMS05	222	60	PMS04	472	3870
PMS07	224	67	PMS06	447	3608
PMS09	226	66	PMS08	452	3688
PMS11	191	61	PMS10	443	3858
PMS13	215	60	PMS-105	473	3654
PMS15	191	56	PMS-105	473	3538
PMS17	192	54	PMS-107	425	3221
PMS-19	212	61	PMS12	433	3689
PMS-21	218	62	PMS14	461	4130
PMS-23	202	57	PMS16	448	2990
PMS-25	216	68	PMS18	479	4055
PMS-27	224	68	PMS-22	454	3979
PMS-29	198	60	PMS-24	464	4146
PMS-31	206	61	PMS-26	470	3252
PMS-33	234	70	PMS-28	483	3884
PMS-35	234	66	PMS-30	471	4214
PMS-37	198	53	PMS-32	432	3629
PMS-39	233	63	PMS-34	456	3647
PMS-82	220	63	PMS-36	464	3718
PMS-86	204	61	PMS-38	446	3634
PMS-88	219	66	PMS-40	428	3209
PMS-90	197	54	PMS-89	439	3572
PMS-92	206	64	PMS-91	483	3580
PMS-96	222	60			
PMS-102	187	61			
PMS-104	201	63			
PMS-106	209	60			
PMS-106	213	59			
PMS-108	203	60			
PMS-110	213	62			
PMS-112	210	59			
PMS-116	215	62			
PMS-118	206	64			
PMS-120	206	63			
			CGS 15		
			ppb Au	ppm Cu	
			510-630	4310-4710	
			PMS-81	507	3957
			PMS-101	542	3925
			PMS-103	592	3955
			PMS-109	538	3596
			PMS-113	532	3803
			PMS-117	514	4023
			PMS-20	525	4188
			PMS-87	509	4272

Quality control procedures included the utilization of certified Standards check samples prepared by CDN Resources Laboratories of Langley, B.C. Two types of Standards, containing known values of certain elements, were employed in this program. These Standards were weight-measured into sealed, heavy duty Ziplock bags and inserted into the sample stream, in alternating sequence, at a rate of one Standard per 50 soil samples.

Lithochemical samples were similarly prepared with 8-10 rock samples placed in a fibre sack and secured with a ladder lock strap. Correspondingly, quality control protocol included the insertion of one Standard sample per 50 rock samples. No sample splitting or reduction was required since this program represented a preliminary survey

All samples were analyzed at ACME Analytical Laboratories Ltd. in Vancouver, which is certified compliant with the International Standards Organization (ISO) 9001:2000 Model for Quality Assurance.

Silt and soil samples are first dried at 60°C and sieved at -80 mesh to obtain a 100 gram pulp. Contingent 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 analysis utilizing 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 analysis utilizing 36 element ICP-MS.

The exploration program completed by Windfire Capital Corp. were preliminary surveys. Quality control procedures employed included Standards supplied by CDN Resources Laboratories Ltd. which were inserted at regular intervals throughout the sample stream.

The CDN standards performed relatively well, with most gold analyses lying within the range limits as shown in Table 6. Copper analyses for the two copper-gold standards did not perform well, which may reflect incomplete digestion in the analyses.

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

DATA VERIFICATION

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

The authors are 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 Princeton Project.

MINERAL RESOURCES AND MINERAL RESERVE ESTIMATES

There are presently no mineral reserves or mineral resources on the Princeton Project.

ADJACENT PROPERTIES

This report is not relying on information from adjacent properties.

OTHER RELEVANT DATA AND INFORMATION

There is no additional relevant data or information known that is not disclosed on the Princeton Project.

INTERPRETATION AND CONCLUSIONS

Grid controlled soil sampling, prospecting and lithochemical sampling and hand trenching were the focus of exploration activity on the 2011 Princeton Project. Regional mapping by the British Columbia Geological Survey suggests that the property area is underlain by Eocene Princeton Group andesitic volcanics. These lithologies are not known to host gold mineralization, thus suggesting that previous mapping may be incorrect. Auriferous quartz veins examined on the property may actually be hosted in Tertiary age Nicola Group volcanics which are, in turn, locally overlain by small patches and erosional remnants of younger Princeton Group volcanics. Quartz veins examined on the property also appear to be spatially associated with younger andesitic dikes of unknown age as observed in road cuts in several locations.

An evaluation of accumulated data suggests that Princeton Project lies within a mineralogically prospective area where previous exploration has focused on the porphyry copper potential of the area. Exploration activity conducted from 2008 to present by the property vendor and Windfire Capital Corp. has shown that the Princeton Project, in particular, and surrounding area have excellent potential for quartz vein hosted gold mineralization.

A total of 3650 soil samples and 124 lithogeochemical samples were collected with the objective of evaluating the properties economic potential plus following up anomalous areas delineated by the 2010 program. A total of 1972 grid soil samples were collected from Phase 1 grid measuring 2500x2000 metres, and 1550 soil samples were collected, at 25 metre centres, from Phase 2 grid, measuring 800x1550 metres which was included in the initial grid. An additional 128 road soil samples were collected along selected portions of logging access roads within the property. Phase 1 grid was established to cover a broad area over float showings identified in the latter 2010 field season. Phase 2 grid was subsequently established within the southern half of Phase 1 grid to provide close spaced soil sampling and increase sample density over quartz veins and quartz float, and gold-in-soil targets delineated in the Phase 1 soil survey. Results from the grid soil geochemistry survey suggest an alignment of gold-in-soil anomalies in excess of 650 metres in length.

Anomalous areas within the Phase 1 and 2 grids, returning weakly to significantly anomalous gold-in-soil values, are designated as Area 1 and 2; anomalous Areas 3 and 4 occur off the grids to west near the western property boundary. In addition, four anomalous lithogeochemical areas, designated Areas 1-4 Rock Samples, are identified within the Phase 1 and 2 grids and to the southwest of the grids near the western claim boundaries.

An evaluation of 2010 and 2011 data suggests that quartz vein-hosted gold-sulphide mineralization may be associated with intermediate dikes and, also, may be structurally controlled, thus representing the surface expression of a larger, deeper gold bearing system. The presence of numerous surface gold-in-soil anomalies may be indicative of the potential for more substantial mineralization.

RECOMMENDATIONS

Evaluation of 2011 field data, which resulted in the discovery of significant quartz vein hosted gold-sulfide mineralization, indicates that the Princeton Project warrants further exploration to fully evaluate the property's economic potential, particularly on the Area 2 showings, plus Areas 1 and 3 and in the vicinity of a soil geochemical anomaly in the northern portion of Phase 1 grid. This program is described as follows:

- 1) The next phase of exploration should include preliminary mapping to prepare a geological map and to establish the host lithology enclosing the quartz veins discovered during the 2011 field program. Careful geological mapping should be performed over the established grids, focusing particular attention to shear zones and determining the presence and direction of structural features and intermediate dikes which may be associated with quartz vein systems. Included in this mapping survey should be a determination of the direction of glacial movement to assess the direction and degree of transport of boulder material.
- 2) Excavator trenching to bedrock is recommended in the vicinity of Area 2 quartz veins and quartz float boulders, and possibly over other zones of elevated gold-in-soil values within the grid area.

- 3) Exposed favourable bedrock, and quartz veins, should be chip sampled across appropriate intervals.
- 4) Areas 1 and 3, and a gold-in-soil anomaly in the northern portion of Phase 1 grid should be carefully prospected. Close spaced (5 metre intervals) gridded soil sampling should be performed in the vicinity of these and other elevated gold-in-soil anomalies on the property.
- 5) Gridded Induced Polarization (IP) survey over the entire Phase 1 grid to detect buried structural features.
- 6) A diamond drilling program should be considered, contingent upon receipt of favourable results from the trenching/chip sampling program.

Table 10. Breakdown of Budget

Princeton Project Budget						
Allow for 20 days of excavator trenching						
Allow for 500 rock samples						
Preliminary map of the property						
Prospect and sample all other anomalies						
Allow 100 rock samples and 400 soil samples						
Project Manager	20	days	@	\$ 750	/day	\$ 15,000
Contract geologist	40	days	@	\$ 650	/day	\$ 26,000
Contract geologist	16	days	@	\$ 650	/day	\$ 10,400
Assistant geologist	40	days	@	\$ 550	/day	\$ 22,000
Sampler	40	days	@	\$ 400	/day	\$ 16,000
Sampler	16	days	@	\$ 400	/day	\$ 6,400
Room & Board	172	days	@	\$ 100	/day	\$ 17,200
Vehicle + Fuel	76	days	@	\$ 200	/day	\$ 15,200
Trenching Mob / Demob						\$ 2,500
Excavator (all in)	200	hours	@	\$ 200	/hour	\$ 40,000
Analysis - rock	600	sample	@	\$ 35	/sample	\$ 21,000
Analysis - soil	400	sample	@	\$ 35	/sample	\$ 14,000
Data verification	30	sample	@	\$ 30	/sample	\$ 900
Permitting						\$ 10,000
Sundries						\$ 7,500
Documentation						\$ 9,000
Contingency						\$ 6,900
Total Princeton Project Budget						\$ 240,000

REFERENCES

www.em.gov.bc.ca/Mining/Geolsurv/Minfile/default.htm. The British Columbia Ministry of Energy and Mines Minfile website provided a geological summary on the 092HSE map sheet.

www.em.gov.bc.ca/Mining/Geolsurv/MapPlace/default.htm. The British Columbia Ministry of Energy and Mines MapPlace website provided the regional geological map and legend.

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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:

Windfire Capital Corp.

2000 - 1177 West Hastings Street
Vancouver, B.C. V6E 2K3

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 Princeton Project" and dated February 2, 2012 relating to the Princeton Project. I visited the Princeton Project on August 12, 2011 for one day.

I have reviewed the data and written the assessment reports for the various claims of the Princeton Project since 2008, so I have had prior involvement with the property that is the subject of the Technical Report.

As of February 2, 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, I do directly hold 15,000 shares of the issuer through Mammoth Geological Ltd.

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 2, 2012.

"signed and sealed"

R. Tim Henneberry, P. Geo

STATEMENT OF QUALIFICATIONS FOR GARY L. WESA

I, Gary L. Wesa ,B.Sc.. of 309 – 6669 Telford Street, Burnaby, British Columbia, V5H 4A1 do hereby certify that:

I hold a Bachelor of Science degree in Geology from the University of Saskatchewan, awarded in 1974.

I am registered as a Fellow of the Geological Association of Canada and work professionally as a Geologist.

I have worked in the mineral exploration and mining industry for over 40 years in Canada, parts of the western United States, Brazil and British Guyana. Duties and responsibilities have included direct involvement in all phases of regional mineral exploration, base metal and precious metal property examinations and evaluations, regional and property scale mapping, and supervision of regional and property scale exploration programs and diamond drilling programs.

I supervised and completed the 2011 exploration program on the Princeton Project Property with the between July 2 and July 22, 2011 and between September 4 and September 12, 2011.

I have no interest, direct, indirect or contingent in the Princeton Property claims nor do I expect to acquire any such interest in the future.

I am co-author in the preparation of this report titled “2011 Geochemical Report, Princeton Project” dated February 2, 2012.

Dated this February 2, 2012.

“signed and sealed”

Gary L. Wesa, B.SC., F.G.A.C.

2011 STATEMENT OF COSTS
Princeton Project

	Dates Worked
Steve Butrenchuk	July 2,3,4,5,6,7,8,9,10,11
Gary Wesa	July 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Gary Wesa - logistics	Sep 1,2
Gary Wesa - field	Sep 4,5,6,7,8,9,10,11,12
Ed Balon	Sep 4,5,6,7,8,9,10,11,12
Mazdak Salehi	July 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Mike Pym	July 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Mike Pym	Sep 17,18,19,20,21,22,23,24,25,26,27,28,29,30; Oct 1
John Taylor	July 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
John Taylor	Sep 17,18,19,20,21,22,23,24,25,26,27,28,29,30; Oct 1
Riley Pym	July 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22
Riley Pym	Sep 17,18,19,20,21,22,23,24,25,26,27,28,29,30; Oct 1
Jodi Fung	July 2,3,4,5,6,7,8,9,10,11,12,13
Jon Cossey	July 10,11,12,13,14,15,16,17,18,19,20,21,22
Dallas Hendrick	Sep 17,18,19,20,21,22,23,24,25,26,27,28,29,30; Oct 1

Field Crew

Steve Butrenchuk	9 days	@ \$ 750 /day	\$ 6,750.00
Gary Wesa	32 days	@ \$ 650 /day	\$ 20,800.00
Ed Balon	9 days	@ \$ 650 /day	\$ 5,850.00
Mazdak Salehi	21 days	@ \$ 550 /day	\$ 11,550.00
Mike Pym	35 days	@ \$ 450 /day	\$ 15,750.00
John Taylor	35 days	@ \$ 450 /day	\$ 15,750.00
Riley Pym	35 days	@ \$ 400 /day	\$ 14,000.00
Jodi Fung	11 days	@ \$ 400 /day	\$ 4,400.00
Jon Cossey	13 days	@ \$ 400 /day	\$ 5,200.00
Dallas Hendrick	14 days	@ \$ 400 /day	\$ 5,600.00

Vehicle Rentals

Steve Butrenchuk	2385 km	@ \$ 0.75 /km	\$ 1,788.75
Mammoth Geological	9 days	@ \$ 100 /day	\$ 900.00
Mike Pym	35 days	@ \$ 60 /day	\$ 2,100.00
Riley Pym	35 days	@ \$ 60 /day	\$ 2,100.00

Supervision

Tim Henneberry	80 hours	@ \$ 125 /hour	\$ 10,000.00
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Documentation

Tim Henneberry	80 hours	@ \$ 125 /hour	\$ 10,000.00
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Total Services

\$ 132,538.75

Expenses

Travel	\$ 86.20
Lodging	\$ 8,444.08

Meals	\$ 7,872.72		
Fuel	\$ 2,311.39		
Field Supplies	\$ 3,197.37		
Freight	\$ 648.61		
Total Expenses			\$ 22,560.37

Analysis

Certificate	Invoice	Net	HST	Total	
VAN11003006	VANI088407	\$4,192.14	\$ 503.06	\$ 4,695.20	
VAN11003007	VANI088408	\$ 368.58	\$ 44.23	\$ 412.81	
VAN11003145	VANI090040	\$3,677.65	\$ 441.32	\$ 4,118.97	
VAN11003146	VANI090882	\$3,795.91	\$ 455.51	\$ 4,251.42	
VAN11003147	VANI089010	\$ 885.00	\$ 106.20	\$ 991.20	
VAN11003257	VANI090100	\$3,642.29	\$ 437.07	\$ 4,079.36	
VAN11003258	VANI090171	\$4,824.02	\$ 578.88	\$ 5,402.90	
VAN11003259	VANI089377	\$ 466.18	\$ 55.94	\$ 522.12	
VAN11003327	VANI090097	\$3,561.42	\$ 427.37	\$ 3,988.79	
VAN11003328	VANI090765	\$3,699.39	\$ 443.93	\$ 4,143.32	
VAN11003329	VANI088817	\$ 224.70	\$ 26.96	\$ 251.66	
VAN11003341	VANI090766	\$3,421.42	\$ 410.57	\$ 3,831.99	
VAN11003343	VANI088876	\$ 59.13	\$ 7.10	\$ 66.23	
VAN11003406	VANI091355	\$4,629.53	\$ 555.54	\$ 5,185.07	
VAN11003407	VANI091590	\$2,834.18	\$ 340.10	\$ 3,174.28	
VAN11003408	VANI091103	\$4,446.92	\$ 533.63	\$ 4,980.55	
VAN11003409	VANI090767	\$ 245.68	\$ 29.48	\$ 275.16	
VAN11004663	VANI100560	\$1,323.87	\$ 158.86	\$ 1,482.73	
VAN11004664	VANI098137	\$ 646.37	\$ 77.56	\$ 723.93	
VAN11005008	VANI107018	\$5,390.39	\$ 646.85	\$ 6,037.24	
VAN11005203	VANI101073	\$5,331.26	\$ 639.75	\$ 5,971.01	
VAN11005204	VANI100712	\$4,172.43	\$ 500.69	\$ 4,673.12	
VAN11005253	VANI106506	\$5,410.10	\$ 649.21	\$ 6,059.31	
VAN11005273	VANI099396	\$1,432.74	\$ 171.93	\$ 1,604.67	
VAN11005421	VANI106241	\$4,485.76	\$ 538.29	\$ 5,024.05	
VAN11005422	VANI101091	\$4,801.12	\$ 576.13	\$ 5,377.25	
Service (10%)		\$7,796.82	\$ 935.62	\$ 8,732.44	
Total Analysis					\$ 85,765.00

HST on Services GST No. 133959049	#####		
HST on Expenses	\$ 1,335.83		
HST on Analysis	#####		
Total HST			\$ 27,532.25 \$ 27,532.25

Total Cost of 2011 Exploration Program \$ 268,396.37

Total Cost Less HST \$240,864.12
Total Assessment Filed \$240,864.12

Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au
PM11JC01	684695	5448998	<0.5	PM11JC151	685649	5448705	<0.5	PM11JC205	686127	5448602	
PM11JC02	684678	5448998	<0.5	PM11JC152	685623	5448702	<0.5	PM11JC206	686149	5448608	<0.5
PM11JC03	684643	5448998	<0.5	PM11JC153	685598	5448702	1.2	PM11JC207	686149	5448608	<0.5
PM11JC04	684615	5449001	2.8	PM11JC154	685573	5448699	6.5	PM11JC208	686175	5448605	<0.5
PM11JC05	684590	5448997	16.6	PM11JC155	685548	5448697	0.5	PM11JC209	686200	5448602	<0.5
PM11JC06	684725	5448996	0.9	PM11JC156	685524	5448700	<0.5	PM11JC210	686200	5448495	<0.5
PM11JC07	684760	5448996	<0.5	PM11JC157	685501	5448701	4.8	PM11JC211	686599	5448500	<0.5
PM11JC08	684780	5448992	0.9	PM11JC158	685474	5448701	<0.5	PM11JC212	686572	5448502	<0.5
PM11JC09	684803	5448997	1.1	PM11JC159	685448	5448701	<0.5	PM11JC213	686550	5448502	<0.5
PM11JC10	684825	5449006	0.5	PM11JC160	685423	5448701	1.5	no sample	686527	5448499	
PM11JC11	684850	5448990	1.4	PM11JC161	685400	5448701	1.2	no sample	686500	5448482	
PM11JC12	684880	5449005	1.4	PM11JC162	685374	5448702	<0.5	no sample	686475	5448472	
PM11JC13	684901	5448996	<0.5	PM11JC163	685351	5448702	1	no sample	686450	5448483	
PM11JC14	684927	5449002	<0.5	PM11JC164	685323	5448700	<0.5	PM11JC214	686424	5448499	<0.5
PM11JC15	684952	5449002	<0.5	PM11JC165	685300	5448704	<0.5	PM11JC215	686402	5448497	<0.5
PM11JC16	684991	5449011	1	PM11JC166	685272	5448700	<0.5	no sample	686374	5448491	
PM11JC17	685028	5449003	1.7	PM11JC167	685250	5448701	<0.5	no sample	686348	5448490	
PM11JC18	685051	5448986	<0.5	PM11JC168	685223	5448699	<0.5	no sample	686325	5448501	
PM11JC115	685173	5448801	<0.5	PM11JC169	685198	5448700	1.1	PM11JC216	686299	5448498	<0.5
PM11JC116	685201	5448801	<0.5	PM11JC170	685224	5448599	<0.5	PM11JC217	686276	5448500	<0.5
PM11JC117	685225	5448801	<0.5	PM11JC171	685248	5448597	0.7	PM11JC218	686247	5448501	<0.5
PM11JC118	685253	5448801	<0.5	PM11JC172	685274	5448600	<0.5	PM11JC219	686222	5448502	1.4
PM11JC119	685276	5448800	<0.5	PM11JC173	685297	5448600	<0.5	PM11JC220	686175	5448500	<0.5
PM11JC120	685299	5448802	0.7	PM11JC174	685326	5448598	<0.5	PM11JC221	686151	5448501	<0.5
PM11JC121	685325	5448800	<0.5	PM11JC175	685352	5448601	1.1	PM11JC222	686124	5448500	<0.5
PM11JC122	685349	5448802	0.7	PM11JC176	685376	5448600	<0.5	PM11JC223	686099	5448499	<0.5
PM11JC123	685375	5448803	<0.5	PM11JC177	685399	5448600	<0.5	PM11JC224	686075	5448502	<0.5
PM11JC124	685401	5448799	0.9	PM11JC178	685426	5448602	<0.5	PM11JC225	686050	5448499	<0.5
PM11JC125	685426	5448800	0.9	PM11JC179	685449	5448598	<0.5	PM11JC226	686025	5448502	<0.5
PM11JC126	685451	5448800	<0.5	PM11JC180	685475	5448601	<0.5	PM11JC227	686000	5448499	<0.5
PM11JC127	685475	5448798	<0.5	PM11JC181	685498	5448602	<0.5	PM11JC228	685975	5448500	<0.5
PM11JC128	685501	5448800	<0.5	PM11JC182	685525	5448600	<0.5	PM11JC229	685950	5448499	<0.5
PM11JC129	685525	5448799	0.6	PM11JC183	685550	5448597	<0.5	PM11JC230	685925	5448500	<0.5
PM11JC130	685551	5448800	0.6	PM11JC184	685574	5448597	<0.5	PM11JC231	685900	5448502	<0.5
PM11JC131	685573	5448800	<0.5	PM11JC185	685597	5448598	0.7	PM11JC232	685875	5448501	<0.5
PM11JC132	685599	5448801	0.7	PM11JC186	685626	5448602	<0.5	PM11JC233	685848	5448500	<0.5
PM11JC133	685625	5448800	0.5	PM11JC187	685651	5448600	<0.5	PM11JC234	685826	5448497	<0.5
PM11JC134	685649	5448798	<0.5	PM11JC188	685676	5448597	<0.5	PM11JC235	685798	5448504	4.5
PM11JC135	685672	5448799		PM11JC189	685702	5448599	<0.5	PM11JC236	685776	5448501	<0.5
PM11JC136	685700	5448799	0.6	PM11JC190	685726	5448602	<0.5	PM11JC237	685750	5448502	<0.5
PM11JC137	685728	5448801	<0.5	PM11JC191	685746	5448598	0.5	PM11JC238	685724	5448505	<0.5
PM11JC138	685750	5448798	<0.5	PM11JC192	685782	5448599	<0.5	PM11JC239	685700	5448500	0.7
PM11JC139	685751	5448796	0.9	PM11JC193	685801	5448604	<0.5	PM11JC240	685676	5448499	<0.5
PM11JC140	685777	5448797	<0.5	PM11JC194	685822	5448603	<0.5	PM11JC241	685644	5448502	<0.5
PM11JC141	685800	5448802	2.8	PM11JC195	685849	5448603	0.7	PM11JC242	685628	5448501	1.7
PM11JC142	685827	5448799	0.5	PM11JC196	685873	5448595	<0.5	PM11JC243	685602	5448501	<0.5
PM11JC143	685849	5448696	0.5	PM11JC197	685903	5448592	<0.5	PM11JC244	685574	5448497	<0.5
PM11JC144	685825	5448702	<0.5	PM11JC198	685932	5448596	<0.5	PM11JC245	685550	5448498	<0.5
PM11JC145	685799	5448701	0.8	PM11JC199	685953	5448590	<0.5	PM11JC246	685522	5448503	0.6
PM11JC146	685775	5448701	0.7	PM11JC200	685974	5448598	<0.5	PM11JC247	685499	5448501	<0.5
PM11JC147	685752	5448703	<0.5	PM11JC201	686000	5448596	<0.5	PM11JC248	685477	5448500	<0.5
PM11JC148	685724	5448700	<0.5	PM11JC202	686024	5448594	<0.5	PM11JC249	685452	5448500	1.7
PM11JC149	685700	5448701	0.8	PM11JC203	686051	5448600	<0.5	PM11JC250	685424	5448501	<0.5
PM11JC150	685672	5448703	0.9	PM11JC204	686103	5448598	<0.5	PM11JC251	685401	5448501	<0.5

Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au
PM11JC252	685374	5448501	<0.5	PM11JC306	686452	5447802	<0.5	PM11JC354	684976	5447797	<0.5
PM11JC253	685349	5448502	0.6	PM11JC307	686426	5447801	1.1	PM11JC355	684952	5447802	<0.5
PM11JC254	685326	5448501	<0.5	PM11JC308	686401	5447796	6.4	PM11JC356	684926	5447801	<0.5
PM11JC255	685301	5448500	1	PM11JC309	686374	5447799	0.9	PM11JC357	684899	5447799	<0.5
PM11JC256	685273	5448497	0.7	PM11JC310	686350	5447798	0.6	PM11JC358	684873	5447797	<0.5
PM11JC257	685247	5448500	0.5	PM11JC311	686326	5447798	<0.5	PM11JC359	684851	5447797	1.6
PM11JC258	685225	5448500	<0.5	PM11JC312	686299	5447798	3	PM11JC360	684825	5447799	<0.5
PM11JC259	685201	5448497	<0.5	PM11JC313	686275	5447801	1.1	PM11JC361	684801	5447800	<0.5
PM11JC260	685174	5448497	1.1	PM11JC314	686249	5447798	4.2	PM11JC362	684776	5447799	<0.5
PM11JC261	685152	5448499	<0.5	PM11JC315	686225	5447803	0.6	PM11JC363	684751	5447798	1
PM11JC262	685122	5448499	<0.5	PM11JC316	686197	5447802	<0.5	PM11JC364	684727	5447799	<0.5
PM11JC263	685100	5448502	<0.5	PM11JC317	686172	5447803	1	PM11JC365	684699	5447802	1
PM11JC264	685074	5448501	<0.5	PM11JC318	686147	5447803	<0.5	PM11JC366	684675	5447799	<0.5
PM11JC265	685049	5448497	0.9	PM11JC319	686121	5447797	<0.5	PM11JC367	684648	5447802	0.7
PM11JC266	685025	5448497	1.6	PM11JC320	686095	5447804	<0.5	PM11JC368	684626	5447801	<0.5
PM11JC267	685002	5448499	0.8	PM11JC321	686073	5447801	3.1	PM11JC369	684598	5447801	0.5
PM11JC268	684974	5448497	1	PM11JC322	686050	5447803	<0.5	PM11JC370	686602	5447597	0.9
PM11JC269	685347	5448400	5.2	PM11JC323	686027	5447803	0.9	PM11JC371	686579	5447597	<0.5
PM11JC270	685326	5448398	<0.5	PM11JC324	686000	5447803	1.2	PM11JC372	686553	5447601	<0.5
PM11JC271	685300	5448397	0.9	PM11JC325	685974	5447796	<0.5	PM11JC373	686523	5447599	0.6
PM11JC272	685275	5448399	1.1	PM11JC326	685949	5447804	0.8	PM11JC374	686500	5447603	<0.5
PM11JC273	685249	5448396	1.4	PM11JC327	685926	5447802	0.7	PM11JC375	686473	5447600	<0.5
PM11JC274	685226	5448398	18.4	PM11JC328	685901	5447797	<0.5	PM11JC376	686450	5447602	<0.5
PM11JC275	685200	5448399	2.5	PM11JC329	685874	5447796	<0.5	PM11JC377	686427	5447601	1.3
PM11JC276	685177	5448397	3	PM11JC330	685849	5447798	<0.5	PM11JC378	686403	5447602	1.8
PM11JC277	685150	5448401	2.1	no sample	685828	5447793		PM11JC379	686374	5447602	<0.5
PM11JC278	685121	5448395	1	PM11JC332	685798	5447800	<0.5	PM11JC380	686351	5447601	1.1
PM11JC279	685102	5448402	1.1	PM11JC333	685771	5447796	1.1	PM11JC381	686328	5447603	2.1
PM11JC280	685075	5448401	0.7	PM11JC334	685754	5447796	0.7	PM11JC382	686300	5447603	0.7
PM11JC281	685053	5448395	0.6	PM11JC335	685725	5447799	<0.5	PM11JC383	686277	5447604	1.6
PM11JC282	685023	5448399	2.1	PM11JC336	685696	5447802	2.1	PM11JC384	686254	5447603	2.2
PM11JC283	685003	5448393	<0.5	PM11JC337	685675	5447801	<0.5	PM11JC385	686224	5447601	0.6
PM11JC284	684978	5448397	0.8	PM11JC338	685650	5447803	1.5	PM11JC386	686199	5447603	<0.5
PM11JC285	684951	5448394	1.6	PM11JC339	685627	5447805	2.2	PM11JC387	686177	5447601	<0.5
PM11JC286	684924	5448401	1	PM11JC340	685602	5447803	2.7	PM11JC388	686148	5447600	0.6
PM11JC287	684900	5448397	<0.5	PM11JC341	685573	5447802	2.1	PM11JC389	686124	5447602	<0.5
PM11JC288	684877	5448396	1.3	PM11JC342	685548	5447804	1.8	PM11JC390	686102	5447601	<0.5
PM11JC289	684851	5448403	0.8	PM11JC343	685524	5447805	<0.5	PM11JC391	686075	5447604	<0.5
PM11JC290	684820	5448400	<0.5	no sample	685501	5447797		PM11JC392	686050	5447601	1.8
PM11JC291	684795	5448403	0.6	no sample	685476	5447799		PM11JC393	686026	5447602	4
PM11JC292	684774	5448400	<0.5	no sample	685450	5447798		PM11JC394	686001	5447603	<0.5
PM11JC293	684747	5448397	<0.5	no sample	685427	5447795		PM11JC395	685978	5447603	0.9
PM11JC294	684726	5448496	<0.5	PM11JC344	685404	5447801	1.1	PM11JC396	685949	5447600	<0.5
PM11JC295	684695	5448503	<0.5	PM11JC345	685376	5447798	2.8	PM11JC397	685921	5447610	0.7
PM11JC296	684675	5448501	<0.5	PM11JC346	685352	5447803	2.1	PM11JC398	685900	5447599	<0.5
PM11JC297	684650	5448495	<0.5	PM11JC347	685326	5447802	<0.5	PM11JC399	685876	5447601	0.8
PM11JC298	684625	5448504	0.9	no sample	685303	5447798		PM11JC400	685860	5447603	<0.5
PM11JC299	684598	5448504	<0.5	no sample	685276	5447795		PM11JC401	685843	5447596	0.7
PM11JC300	686603	5447802	<0.5	PM11JC348	685251	5447797	1.1	PM11JC402	685822	5447595	<0.5
PM11JC301	686574	5447800		PM11JC349	685228	5447797	1.8	PM11JC403	685804	5447586	<0.5
PM11JC302	686547	5447801	9.1	PM11JC350	685074	5447802	1.5	no sample	685770	5447596	
PM11JC303	686523	5447796	1.2	PM11JC351	685056	5447802	1.4	no sample	685722	5447598	
PM11JC304	686500	5447798	<0.5	PM11JC352	685026	5447799	<0.5	no sample	685697	5447595	
PM11JC305	686476	5447799	0.5	PM11JC353	685001	5447797	<0.5	PM11JC405	685672	5447598	<0.5

Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au
PM11JC406	685647	5447600	<0.5	PM11JF32	685821	5449901	<0.5	PM11JF86	686499	5449799	<0.5
PM11JC407	685629	5447596	<0.5	PM11JF33	685799	5449901	<0.5	PM11JF87	686476	5449799	<0.5
PM11JC408	685598	5447597	<0.5	PM11JF34	685771	5449902	0.6	PM11JF88	686450	5449797	0.7
PM11JC409	685571	5447597	<0.5	PM11JF35	685749	5449901	<0.5	PM11JF89	686430	5449800	<0.5
PM11JC410	685552	5447600	<0.5	PM11JF36	685730	5449904	15.3	PM11JF90	686398	5449802	<0.5
PM11JC411	685525	5447598	0.6	PM11JF37	685706	5449908	2.2	PM11JF91	686372	5449807	1
PM11JC412	685501	5447599	<0.5	PM11JF38	685670	5449909	1.8	PM11JF92	686363	5449805	<0.5
PM11JC413	685472	5447599	<0.5	PM11JF39	685645	5449906	4.6	PM11JF93	686334	5449804	0.7
PM11JC414	685446	5447599	<0.5	PM11JF40	685621	5449895	2.4	PM11JF94	686302	5449807	1.1
PM11JC415	685425	5447601	<0.5	PM11JF41	685593	5449894	5.3	PM11JF95	686276	5449810	2.2
no sample	685399	5447599		PM11JF42	685557	5449889	<0.5	PM11JF96	686260	5449808	2.2
PM11JC416	685377	5447598	2.8	PM11JF43	685540	5449888	<0.5	PM11JF97	686220	5449805	2.2
no sample	685356	5447602		PM11JF44	685526	5449882	<0.5	PM11JF98	686199	5449809	7.7
no sample	685322	5447600		PM11JF45	685504	5449895	<0.5	PM11JF99	686173	5449805	0.7
PM11JC417	685300	5447603	<0.5	PM11JF46	685474	5449900	<0.5	PM11JF100	686148	5449815	<0.5
PM11JC418	685271	5447600	0.7	PM11JF47	685453	5449893	6.1	PM11JF101	686122	5449829	1.1
PM11JC419	685247	5447597	<0.5	PM11JF48	685428	5449892	<0.5	PM11JF102	686089	5449811	2
PM11JC420	685226	5447599	0.9	PM11JF49	685406	5449887	0.5	PM11JF103	686055	5449806	1.2
PM11JC421	685200	5447599	12.1	PM11JF50	685378	5449898	<0.5	PM11JF104	686029	5449803	3.4
PM11JC422	685173	5447596	<0.5	PM11JF51	685347	5449898	0.8	PM11JF105	685993	5449803	1.5
PM11JC423	685151	5447600	<0.5	PM11JF52	685327	5449895	<0.5	PM11JF106	685969	5449800	1.5
PM11JC424	685126	5447602	<0.5	PM11JF53	685302	5449894	<0.5	PM11JF107	685945	5449805	1.6
PM11JC425	678844	5451499		PM11JF54	685276	5449895	<0.5	PM11JF108	685924	5449789	1.9
PM11JF01	686597	5449902	1.3	PM11JF55	685257	5449894	<0.5	PM11JF109	685898	5449796	1.3
PM11JF02	686571	5449902	3.5	PM11JF56	685227	5449896	<0.5	PM11JF110	685873	5449797	1.3
PM11JF03	686548	5449904	7.2	PM11JF57	685202	5449902	<0.5	PM11JF111	685846	5449797	0.6
PM11JF04	686515	5449906	4.5	PM11JF58	685190	5449901	<0.5	PM11JF112	685824	5449801	4
PM11JF05	686494	5449901	5	PM11JF59	685157	5449891	<0.5	PM11JF113	685790	5449799	1.6
PM11JF06	686474	5449900	0.9	PM11JF60	685141	5449895	19.1	PM11JF114	685768	5449800	0.8
PM11JF07	686447	5449898	1.8	PM11JF61	685105	5449900	35.6	PM11JF115	685748	5449797	1.3
PM11JF08	686420	5449904	0.7	PM11JF62	685076	5449901	<0.5	PM11JF116	685724	5449798	2
PM11JF09	686393	5449903	0.6	PM11JF63	685052	5449904	0.8	PM11JF117	685697	5449799	1.1
PM11JF10	686367	5449904	4.8	PM11JF64	685023	5449901	<0.5	PM11JF118	685674	5449799	0.7
PM11JF11	686349	5449900	1.1	PM11JF65	685006	5449901	<0.5	PM11JF119	685650	5449801	1.5
PM11JF12	686320	5449897	1.2	PM11JF66	684979	5449900	<0.5	PM11JF120	685614	5449803	1.5
PM11JF13	686294	5449894	1.7	PM11JF67	684946	5449899	<0.5	PM11JF121	685600	5449799	1.9
PM11JF14	686272	5449903	0.7	PM11JF68	684926	5449897	0.7	PM11JF122	685575	5449798	1.3
PM11JF15	686247	5449914	2.7	PM11JF69	684903	5449905	<0.5	PM11JF123	685541	5449796	1.5
PM11JF16	686223	5449907	2.5	PM11JF70	684886	5449902	1.1	PM11JF124	685511	5449797	0.7
PM11JF17	686201	5449901	1.4	PM11JF71	684858	5449905	<0.5	PM11JF125	685486	5449793	1.1
PM11JF18	686177	5449904	1.4	PM11JF72	684838	5449898	<0.5	PM11JF126	685471	5449802	1.8
PM11JF19	686147	5449903	1.4	PM11JF73	684800	5449889	<0.5	PM11JF127	685435	5449803	1.5
PM11JF20	686126	5449899	0.7	PM11JF74	684774	5449888	<0.5	PM11JF128	685411	5449802	5
PM11JF21	686102	5449900	3.8	PM11JF75	684741	5449886	<0.5	PM11JF129	685385	5449801	4.6
PM11JF22	686071	5449895	2.2	PM11JF76	684712	5449901	1.2	PM11JF130	685356	5449797	3.9
PM11JF23	686044	5449896	1.3	PM11JF77	684693	5449902	1.2	PM11JF131	685321	5449797	3.5
PM11JF24	686021	5449896	1.5	PM11JF78	684665	5449904	<0.5	PM11JF132	685281	5449799	5.1
PM11JF25	685992	5449897	<0.5	PM11JF79	684647	5449907	1.2	PM11JF133	685261	5449803	3.1
PM11JF26	685971	5449895	0.9	PM11JF80	684625	5449906	3.8	PM11JF134	685238	5449807	6.3
PM11JF27	685944	5449897	1.7	PM11JF81	684601	5449903	<0.5	PM11JF135	685207	5449801	51.9
PM11JF28	685917	5449899	<0.5	PM11JF82	686600	5449800	1.4	PM11JF136	685174	5449793	1.1
PM11JF29	685896	5449901	10.6	PM11JF83	686579	5449802	1.1	PM11JF137	685154	5449805	<0.5
PM11JF30	685866	5449903	1.6	PM11JF84	686550	5449799	<0.5	PM11JF138	685126	5449804	<0.5
PM11JF31	685847	5449899	<0.5	PM11JF85	686523	5449802	1.5	PM11JF139	685099	5449812	2.2

Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au
PM11JF140	685074	5449813	1	PM11JF190	685644	5449705	<0.5	PM11JF240	686349	5449301	0.9
PM11JF141	685045	5449820	0.6	PM11JF191	685644	5449705	<0.5	PM11JF241	686325	5449300	1.5
PM11JF142	684596	5449795	1.1	PM11JF192	685622	5449703	1.7	PM11JF242	686299	5449300	0.5
PM11JF143	684620	5449801	2.1	PM11JF193	685600	5449701	1.5	PM11JF243	686275	5449300	<0.5
PM11JF144	684642	5449806	1	PM11JF194	685574	5449705	0.8	PM11JF244	686249	5449300	<0.5
PM11JF145	684678	5449799	<0.5	PM11JF195	685546	5449703	0.9	PM11JF245	686225	5449299	1.2
PM11JF146	684703	5449799	1.5	PM11JF196	685516	5449705	1.2	PM11JF246	686202	5449300	1.2
PM11JF147	684735	5449800	0.8	PM11JF197	685499	5449702	1.3	PM11JF247	686174	5449301	2
PM11JF148	684784	5449802	<0.5	PM11JF198	685474	5449699	1.6	PM11JF248	686147	5449297	<0.5
PM11JF149	684819	5449804	<0.5	PM11JF199	685447	5449701	<0.5	PM11JF249	686127	5449301	0.9
PM11JF150	684835	5449808	1.8	PM11JF200	685423	5449699	<0.5	PM11JF250	686102	5449302	0.7
PM11JF151	684852	5449811	0.6	PM11JF201	685400	5449700	<0.5	PM11JF251	686083	5449305	0.6
PM11JF152	684902	5449811	1.4	PM11JF202	685375	5449700	0.7	PM11JF252	686051	5449303	2.2
no sample	684926	5449798		no sample	685350	5449698		PM11JF253	686026	5449300	<0.5
no sample	684970	5449823		PM11JF203	685322	5449700	2.5	PM11JF254	686000	5449298	95.4
PM11JF153	684990	5449794	1.5	PM11JF204	685296	5449701	<0.5	PM11JF255	685978	5449301	1.2
PM11JF154	685029	5449795	43.9	PM11JF205	685274	5449698	1	PM11JF256	685953	5449301	1.3
PM11JF155	685047	5449807	1.9	PM11JF206	685249	5449700	1	PM11JF257	685918	5449302	1
PM11JF156	686600	5449700	<0.5	PM11JF207	685225	5449699	1.3	PM11JF258	685899	5449300	1.3
PM11JF157	686571	5449701	1.7	no sample	685202	5449699		PM11JF259	685879	5449300	1
PM11JF158	686547	5449701	0.6	PM11JF208	685178	5449702	2.8	PM11JF260	685851	5449306	1.9
PM11JF159	686523	5449699	<0.5	PM11JF209	685150	5449701	1.8	PM11JF261	685823	5449311	1.5
PM11JF160	686500	5449699	2.7	PM11JF210	685125	5449703	3.4	PM11JF262	685796	5449310	<0.5
PM11JF161	686475	5449700	1.7	PM11JF211	685102	5449707	3.4	PM11JF263	685770	5449306	<0.5
PM11JF162	686446	5449706	11.6	PM11JF212	685070	5449701	1.6	PM11JF264	685748	5449304	<0.5
PM11JF163	686424	5449704	2.2	no sample	685051	5449706		PM11JF265	685720	5449301	0.6
no sample	686402	5449700		PM11JF213	685026	5449700	2.6	PM11JF266	685696	5449296	<0.5
no sample	686374	5449705		PM11JF214	685001	5449696	1.7	PM11JF267	685675	5449297	15
PM11JF164	686359	5449697	0.6	PM11JF215	684974	5449703	<0.5	PM11JF268	685650	5449301	<0.5
PM11JF165	686333	5449696	2.5	PM11JF216	684948	5449702	1.3	PM11JF269	685625	5449305	<0.5
PM11JF166	686307	5449697	0.7	PM11JF217	684923	5449704	0.9	PM11JF270	685598	5449305	0.9
PM11JF167	686288	5449699	1.3	PM11JF218	684900	5449706	0.6	PM11JF271	685572	5449301	0.6
PM11JF168	686253	5449701	<0.5	PM11JF219	684879	5449709	<0.5	PM11JF272	685545	5449293	0.6
PM11JF169	686225	5449702	0.7	PM11JF220	684848	5449698	1.1	PM11JF273	685523	5449294	0.6
PM11JF170	686207	5449702	<0.5	PM11JF221	684824	5449699	0.8	PM11JF274	685497	5449299	<0.5
PM11JF171	686178	5449707	<0.5	PM11JF222	684799	5449701	<0.5	PM11JF275	685474	5449312	1.1
PM11JF172	686160	5449706	0.7	PM11JF223	684774	5449702	1	PM11JF276	685444	5449308	<0.5
PM11JF173	686129	5449693	0.7	PM11JF224	684750	5449697	<0.5	PM11JF277	685426	5449306	<0.5
PM11JF174	686096	5449700	<0.5	PM11JF225	684726	5449702	<0.5	PM11JF278	685396	5449304	<0.5
PM11JF175	686049	5449697	1	PM11JF226	684698	5449701	0.6	PM11JF279	685373	5449302	<0.5
PM11JF176	686028	5449698	2.9	PM11JF227	684673	5449700	0.9	PM11JF280	685344	5449305	12.6
PM11JF177	686006	5449695	<0.5	PM11JF228	684647	5449703	<0.5	PM11JF281	685323	5449309	0.6
PM11JF178	685972	5449703	0.7	PM11JF229	684628	5449703	1.3	PM11JF282	685296	5449314	<0.5
PM11JF179	685949	5449692	0.8	PM11JF230	684597	5449699	<0.5	PM11JF283	685274	5449314	1
PM11JF180	685923	5449697	0.6	PM11JF231	686600	5449303	<0.5	PM11JF284	685246	5449316	0.6
PM11JF181	685899	5449698	<0.5	PM11JF232	686568	5449299	<0.5	PM11JF285	685225	5449303	<0.5
PM11JF182	685872	5449702	2.8	PM11JF233	686544	5449300	<0.5	PM11JF286	685204	5449301	<0.5
PM11JF183	685844	5449701	4.2	PM11JF234	686524	5449304	<0.5	PM11JF287	685168	5449303	<0.5
PM11JF184	685820	5449699	2	PM11JF235	686498	5449302	2	PM11JF288	685149	5449309	<0.5
PM11JF185	685797	5449697	2.8	PM11JF236	686475	5449308	1.1	PM11JF289	685124	5449306	<0.5
PM11JF186	685773	5449700	0.8	PM11JF237	686446	5449307	1.1	PM11JF290	685099	5449303	<0.5
PM11JF187	685745	5449700	1.4	no sample	686415	5449300		PM11JF291	685073	5449306	0.8
PM11JF188	685721	5449703	<0.5	PM11JF238	686396	5449299	<0.5	PM11JF292	685050	5449310	<0.5
PM11JF189	685699	5449704	0.7	PM11JF239	686376	5449301	<0.5	PM11JF293	685024	5449301	0.7

Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au
PM11JF294	684999	5449301	<0.5	PM11JF348	685671	5449193	0.9	PM11JF402	686026	5448987	0.8
PM11JF295	684974	5449297	<0.5	PM11JF349	685649	5449199	0.8	PM11JF403	685998	5448990	0.6
PM11JF296	684951	5449301	2	PM11JF350	685624	5449200	1.2	no sample	685949	5448997	
PM11JF297	684927	5449302	0.6	PM11JF351	685596	5449197	0.9	no sample	685924	5448994	
PM11JF298	684900	5449300	<0.5	PM11JF352	685572	5449197	1.8	no sample	685902	5448992	
PM11JF299	684875	5449297	<0.5	PM11JF353	685554	5449194	0.5	no sample	685874	5448997	
PM11JF300	684850	5449299	<0.5	PM11JF354	685523	5449195	2.3	PM11JF406	685873	5448997	0.8
PM11JF301	684819	5449299	<0.5	PM11JF355	685497	5449198	<0.5	PM11JF407	685851	5449001	1.6
PM11JF302	684798	5449294	<0.5	PM11JF356	685472	5449199	<0.5	PM11JF408	685823	5448996	1.4
PM11JF303	684777	5449301	<0.5	PM11JF357	685450	5449198	<0.5	PM11JF409	685799	5449000	<0.5
PM11JF304	684750	5449304	<0.5	PM11JF358	685425	5449199	0.6	PM11JF410	685775	5449006	<0.5
PM11JF305	684726	5449302	<0.5	PM11JF359	685403	5449198	1.3	PM11JF411	685746	5449008	1.3
PM11JF306	684698	5449294	<0.5	PM11JF360	685373	5449196	0.9	PM11JF412	685725	5449000	1.8
PM11JF307	684673	5449301	<0.5	PM11JF361	685352	5449201	<0.5	PM11JF413	685702	5448999	1.7
PM11JF308	684650	5449298	2	PM11JF362	685324	5449199	1.7	PM11JF414	685675	5449001	1.4
PM11JF309	684624	5449305	2.7	PM11JF363	685299	5449199	1.7	PM11JF415	685652	5449002	2
PM11JF310	684597	5449316	1.9	PM11JF364	685277	5449197	<0.5	PM11JF416	685625	5449000	2.1
PM11JF311	686577	5449200	<0.5	PM11JF365	685250	5449199	1.1	PM11JF417	685600	5448999	2.5
PM11JF312	686547	5449196	1.5	PM11JF366	685225	5449200	1.1	PM11JF418	685575	5448994	8.1
PM11JF313	686524	5449200	1.1	PM11JF367	685198	5449199	0.7	PM11JF419	685551	5449001	0.6
PM11JF314	686524	5449200	0.7	PM11JF368	685172	5449199	1.5	PM11JF420	685530	5448998	<0.5
PM11JF315	686496	5449205	<0.5	PM11JF369	685150	5449198	1.2	PM11JF421	685503	5449002	1.4
PM11JF316	686473	5449206	1.1	PM11JF370	685124	5449202	1.1	PM11JF422	685473	5449000	1.1
PM11JF317	686446	5449200	0.7	PM11JF371	685099	5449200	<0.5	PM11JF423	685451	5448993	1.2
PM11JF318	686427	5449199	<0.5	PM11JF372	685073	5449193	2.2	PM11JF424	685428	5448997	0.9
PM11JF319	686398	5449201	1	PM11JF373	685044	5449197	<0.5	PM11JF425	685398	5449001	<0.5
PM11JF320	686371	5449197	<0.5	PM11JF374	685026	5449195	<0.5	PM11JF426	685374	5449002	<0.5
PM11JF321	686345	5449199	<0.5	PM11JF375	685004	5449198	<0.5	PM11JF427	685348	5448999	<0.5
PM11JF322	686324	5449197	0.9	PM11JF376	684973	5449203	1.4	PM11JF428	685322	5448998	0.6
PM11JF323	686298	5449195	<0.5	PM11JF377	684949	5449198	1.4	PM11JF429	685301	5449000	<0.5
PM11JF324	686275	5449195	<0.5	PM11JF378	684916	5449198	<0.5	PM11JF430	685275	5449000	0.5
PM11JF325	686250	5449195	1.4	PM11JF379	686599	5449002	1.1	PM11JF431	685251	5449000	1.1
PM11JF326	686221	5449196	1.2	PM11JF380	686574	5449005	2.9	PM11JF432	685221	5449000	1.6
PM11JF327	686196	5449200	1.4	PM11JF381	686551	5448999	1.3	PM11JF433	685202	5449002	1.2
PM11JF328	686173	5449201	<0.5	PM11JF382	686521	5448997	0.8	PM11JF434	685174	5449002	0.8
PM11JF329	686149	5449198	<0.5	PM11JF383	686496	5448994	2.5	PM11JF435	685151	5448998	<0.5
PM11JF330	686123	5449200	<0.5	PM11JF384	686477	5449001	1.5	PM11JF436	685124	5448999	<0.5
PM11JF331	686097	5449203	<0.5	PM11JF385	686450	5449006	1	PM11JF437	685102	5448998	<0.5
PM11JF332	686075	5449202	<0.5	PM11JF386	686421	5449004	2.2	PM11JF438	685077	5449001	<0.5
PM11JF333	686050	5449203	<0.5	PM11JF387	686398	5449002	<0.5	PM11JF439	685051	5449002	<0.5
PM11JF334	686023	5449204	0.6	PM11JF388	686372	5449002	<0.5	PM11JF440	684928	5449202	<0.5
PM11JF335	685994	5449200	0.6	PM11JF389	686353	5449003	0.9	PM11JF441	684903	5449203	0.5
PM11JF336	685970	5449204	<0.5	PM11JF390	686326	5449005	0.7	PM11JF442	684877	5449203	<0.5
PM11JF337	685950	5449203	<0.5	PM11JF391	686298	5449005	1.7	PM11JF443	684850	5449204	<0.5
PM11JF338	685922	5449198	<0.5	PM11JF392	686273	5449002	0.8	PM11JF444	684822	5449200	<0.5
PM11JF339	685900	5449201	<0.5	PM11JF393	686251	5449006	0.8	PM11JF445	684797	5449200	<0.5
PM11JF340	685871	5449205	0.9	PM11JF394	686225	5448998	<0.5	PM11JF446	684775	5449204	1
PM11JF341	685845	5449214	<0.5	PM11JF395	686199	5448998	<0.5	PM11JF447	684749	5449198	<0.5
PM11JF342	685827	5449206	<0.5	PM11JF396	686171	5448998	<0.5	PM11JF448	684726	5449198	0.7
PM11JF343	685793	5449197	<0.5	PM11JF397	686148	5449001	<0.5	PM11JF449	684702	5449199	0.6
PM11JF344	685772	5449195	<0.5	PM11JF398	686126	5448994	<0.5	PM11JF450	684671	5449197	<0.5
PM11JF345	685746	5449195	0.9	PM11JF399	686100	5448987	<0.5	PM11JF451	684650	5449199	<0.5
PM11JF346	685722	5449193	1.8	PM11JF400	686071	5448985	2.2	PM11JF452	684624	5449199	<0.5
PM11JF347	685706	5449194	0.8	PM11JF401	686048	5448989	<0.5	no sample	684599	5449195	

Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au
PM11JF454	686602	5447701	2.3	PM11JF496	685253	5447699	<0.5	PM11JF550	685974	5447504	7.3
PM11JF455	686574	5447698	0.6	PM11JF497	685225	5447701	<0.5	PM11JF551	685949	5447501	<0.5
PM11JF456	686558	5447703	1	PM11JF498	685201	5447705	<0.5	PM11JF552	685923	5447501	18.2
PM11JF457	686522	5447703	<0.5	PM11JF499	685175	5447695	<0.5	PM11JF553	685901	5447503	<0.5
PM11JF458	686499	5447704	<0.5	PM11JF500	685154	5447700	<0.5	PM11JF554	685878	5447502	<0.5
PM11JF459	686475	5447702	<0.5	PM11JF501	685125	5447699	0.7	PM11JF555	685851	5447501	0.9
PM11JF460	686449	5447695	<0.5	PM11JF502	685100	5447698	<0.5	PM11JF556	685825	5447503	1
PM11JF461	686422	5447698	<0.5	PM11JF503	685076	5447700	1.9	PM11JF557	685798	5447497	<0.5
PM11JF462	686400	5447699	<0.5	PM11JF504	685051	5447700	<0.5	PM11JF558	685775	5447500	2.5
PM11JF463	686374	5447701	<0.5	PM11JF505	685023	5447698	3.2	PM11JF559	685749	5447501	<0.5
PM11JF464	686350	5447700	<0.5	PM11JF506	685000	5447700	4	PM11JF560	685726	5447500	<0.5
PM11JF465	686325	5447701	<0.5	PM11JF507	684974	5447700	<0.5	PM11JF561	685700	5447495	<0.5
PM11JF466	686300	5447704	29	PM11JF508	684948	5447701	2.1	PM11JF562	685677	5447500	0.6
PM11JF467	686274	5447701	4.8	PM11JF509	684926	5447703	<0.5	PM11JF563	685652	5447501	0.5
PM11JF468	686249	5447700	4.9	PM11JF510	684898	5447701	1.8	PM11JF564	685627	5447501	<0.5
PM11JF469	686223	5447704	I.S.	PM11JF511	684874	5447700	<0.5	PM11JF565	685600	5447500	0.7
PM11JF470	686201	5447700	<0.5	PM11JF512	684849	5447700	<0.5	PM11JF566	685575	5447500	<0.5
PM11JF471	686173	5447698	<0.5	PM11JF513	684827	5447700	26	PM11JF567	685551	5447503	1.9
PM11JF472	686151	5447700	<0.5	PM11JF514	684801	5447700	<0.5	PM11JF568	685526	5447501	<0.5
PM11JF473	686127	5447700	<0.5	PM11JF515	684776	5447701	<0.5	PM11JF569	685501	5447499	0.8
PM11JF474	686101	5447699	0.8	PM11JF516	684750	5447701	<0.5	PM11JF570	685475	5447501	0.6
PM11JF475	686076	5447695	<0.5	PM11JF517	684726	5447702	<0.5	PM11JF571	685450	5447500	<0.5
PM11JF476	686051	5447702	<0.5	PM11JF518	684700	5447702	<0.5	PM11JF572	685425	5447498	<0.5
PM11JF477	686025	5447700	<0.5	PM11JF519	684675	5447701	<0.5	PM11JF573	685398	5447499	<0.5
PM11JF478	685999	5447698	<0.5	PM11JF520	684648	5447700	<0.5	PM11JF574	685376	5447499	0.5
PM11JF479	685974	5447698	0.5	PM11JF521	684625	5447700	2.4	PM11JF575	685349	5447498	1.4
PM11JF480	685949	5447702	<0.5	PM11JF522	684599	5447700	<0.5	PM11JF576	685325	5447501	3.2
PM11JF481	685925	5447703	<0.5	PM11JF523	683948	5448022		PM11JF577	685301	5447501	1.6
PM11JF482	685902	5447697	0.9	PM11JF524	686599	5447502	<0.5	PM11JF578	685274	5447497	1.4
PM11JF483	685877	5447697	<0.5	PM11JF525	686574	5447496	<0.5	PM11JF579	685248	5447501	1.6
PM11JF484	685852	5447701	<0.5	PM11JF526	686544	5447504	<0.5	PM11JF580	685224	5447500	<0.5
PM11JF485	685824	5447704	<0.5	PM11JF527	686527	5447500	<0.5	PM11JF581	685199	5447496	<0.5
PM11JF486	685803	5447702	<0.5	PM11JF528	686497	5447499	<0.5	PM11JF582	685175	5447498	3
PM11JF487	685773	5447699	<0.5	PM11JF529	686473	5447500	<0.5	PM11JF583	685149	5447491	<0.5
PM11JF488	685753	5447701	<0.5	PM11JF530	686449	5447496	<0.5	PM11JF584	685129	5447497	1.2
no sample	685723	5447702		PM11JF531	686429	5447495	<0.5	PM11JF585	685104	5447504	1.7
no sample	685701	5447703		PM11JF532	686402	5447500	<0.5	no sample			
no sample	685675	5447700		PM11JF533	686375	5447498	<0.5	no sample			
no sample	685654	5447697		PM11JF534	686351	5447500	<0.5	PM11MP01	686611	5448199	<0.5
no sample	685619	5447715		PM11JF535	686324	5447499	<0.5	PM11MP02	686573	5448201	4
PM11JF489	685597	5447700	1.9	PM11JF536	686299	5447500	2.1	PM11MP03	686552	5448202	2.4
PM11JF490	685577	5447696	1.8	PM11JF537	686275	5447498	<0.5	PM11MP04	686522	5448202	<0.5
PM11JF491	685551	5447689	<0.5	PM11JF538	686247	5447496	0.5	PM11MP05	686499	5448197	10.4
PM11JF492	685530	5447697	0.7	PM11JF539	686224	5447497	<0.5	PM11MP06	686475	5448200	<0.5
PM11JF493	685503	5447703	0.8	PM11JF540	686201	5447499	<0.5	PM11MP07	686446	5448201	<0.5
PM11JF494	685478	5447697	<0.5	PM11JF541	686199	5447499	<0.5	PM11MP08	686422	5448202	15.3
no sample	685447	5447700		PM11JF542	686174	5447502	0.6	PM11MP09	686400	5448201	2.9
no sample	685421	5447688		PM11JF543	686151	5447500	2	PM11MP10	686365	5448241	5.4
no sample	685401	5447698		PM11JF544	686125	5447500	0.5	PM11MP11	686334	5448222	1.7
no sample	685375	5447707		PM11JF545	686101	5447500	<0.5	PM11MP12	686319	5448224	<0.5
no sample	685343	5447702		PM11JF546	686068	5447501	<0.5	PM11MP13	686298	5448200	263.9
no sample	685325	5447696		PM11JF547	686045	5447504	<0.5	PM11MP14	686280	5448204	3.5
no sample	685304	5447701		PM11JF548	686025	5447498	<0.5	PM11MP15	686274	5448203	0.6
PM11JF495	685272	5447700	2.6	PM11JF549	686001	5447500	<0.5	PM11MP16	686250	5448203	0.7

Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au
PM11MP17	686227	5448200	<0.5	PM11JC44	685851	5448903	<0.5	PM11JC98	685075	5448803	<0.5
PM11MP18	686201	5448202	3.5	PM11JC45	685821	5448915	3.3	PM11JC99	685049	5448799	<0.5
PM11MP19	686177	5448198	<0.5	PM11JC46	685804	5448922	<0.5	PM11JC100	685024	5448799	<0.5
PM11MP20	686143	5448199	<0.5	PM11JC47	685775	5448900	<0.5	PM11JC101	685000	5448800	<0.5
PM11MP21	686124	5448202	<0.5	PM11JC48	685751	5448895	2	PM11JC102	684975	5448800	12.6
PM11MP22	686099	5448201	<0.5	PM11JC49	685723	5448897	<0.5	PM11JC103	684949	5448799	<0.5
PM11MP23	686073	5448199	<0.5	PM11JC50	685696	5448890	1.4	PM11JC104	684925	5448799	<0.5
PM11MP24	686049	5448201	<0.5	PM11JC51	685674	5448894	2.1	PM11JC105	684901	5448799	3.9
PM11MP25	686024	5448201	0.7	PM11JC52	685644	5448893	<0.5	PM11JC106	684876	5448798	<0.5
PM11MP26	685998	5448202	<0.5	PM11JC53	685624	5448902	1.1	PM11JC107	684854	5448799	0.6
PM11MP27	685976	5448196	<0.5	PM11JC54	685598	5448892	0.7	PM11JC108	684825	5448801	<0.5
PM11MP28	685946	5448187	<0.5	PM11JC55	685574	5448891	<0.5	PM11JC109	684804	5448800	<0.5
PM11MP29	685926	5448197	<0.5	PM11JC56	685550	5448889	1.9	PM11JC110	684775	5448802	7.9
PM11MP30	685901	5448202	<0.5	PM11JC57	685523	5448899	<0.5	PM11JC111	684752	5448800	1.5
PM11MP31	685869	5448207	<0.5	PM11JC58	685499	5448901	<0.5	PM11JC112	684725	5448803	3.4
PM11MP32	685842	5448198	<0.5	PM11JC59	685449	5448900	11.5	PM11JC113	684697	5448801	0.6
PM11MP33	685819	5448198	<0.5	PM11JC60	685451	5448904	0.7	PM11JC114	684669	5448802	1.5
PM11MP34	685792	5448203	<0.5	PM11JC61	685424	5448900	0.5	PM11MP41	686599	5448300	<0.5
PM11MP35	685776	5448206	<0.5	PM11JC62	685405	5448899	0.8	PM11MP42	686573	5448300	<0.5
PM11MP36	685751	5448209	<0.5	PM11JC63	685375	5448901	0.9	PM11MP43	686550	5448302	<0.5
PM11MP37	685721	5448209	<0.5	PM11JC64	685347	5448901	0.6	PM11MP44	686518	5448302	<0.5
PM11MP38	685698	5448203	0.6	PM11JC65	685320	5448902	<0.5	PM11MP45	686494	5448299	<0.5
PM11MP39	685672	5448203	<0.5	PM11JC66	685297	5448902	2.2	PM11MP47	686449	5448302	<0.5
PM11MP40	685656	5448202	<0.5	PM11JC67	685274	5448898	1.4	PM11MP46	686474	5448299	0.9
PM11JC19	686598	5448904	6.1	PM11JC68	685251	5448901	0.8	PM11MP48	686424	5448302	2.7
PM11JC20	686560	5448902	0.7	PM11JC69	685227	5448899	<0.5	PM11MP49	686405	5448303	1.3
PM11JC21	686549	5448902	3.4	PM11JC70	685186	5448900	<0.5	PM11MP50	686372	5448302	0.7
PM11JC22	686519	5448904	<0.5	PM11JC71	685160	5448899	<0.5	PM11MP51	686367	5448307	1.5
PM11JC23	686493	5448928	<0.5	PM11JC72	685160	5448899	<0.5	PM11MP52	686345	5448303	1
PM11JC24	686475	5448923	<0.5	PM11JC73	685125	5448897	<0.5	PM11MP53	686322	5448301	3.3
PM11JC25	686448	5448927	2.4	PM11JC74	685100	5448896	<0.5	PM11MP54	686301	5448298	2.8
PM11JC26	686418	5448903	<0.5	PM11JC75	685073	5448897	<0.5	PM11MP55	686277	5448302	3.5
PM11JC27	686398	5448904	<0.5	PM11JC76	685050	5448901	1.2	PM11MP56	686249	5448305	1.7
PM11JC28	686367	5448895	0.7	PM11JC77	685022	5448899	0.8	PM11MP57	686223	5448312	0.8
PM11JC29	686344	5448902	0.9	PM11JC78	684998	5448902	<0.5	PM11MP58	686203	5448311	1
PM11JC30	686312	5448913	<0.5	PM11JC79	684979	5448899	1.1	PM11MP59	686182	5448323	<0.5
PM11JC31	686308	5448907	0.5	PM11JC80	684953	5448893	1.6	PM11MP60	686158	5448313	<0.5
PM11JC32	686263	5448906	1.7	PM11JC81	684921	5448898	0.7	PM11MP61	686122	5448309	1
PM11JC33	686249	5448908	<0.5	PM11JC82	684896	5448897	0.6	PM11MP62	686098	5448306	1.5
no sample	686225	5448898		PM11JC83	684873	5448899	1.8	PM11MP63	686075	5448304	0.6
no sample	686199	5448906		PM11JC84	684850	5448899	<0.5	PM11MP64	686050	5448306	1.3
no sample	686175	5448907		PM11JC85	684826	5448899	<0.5	PM11MP65	686027	5448304	0.6
no sample	686152	5448898		PM11JC86	684796	5448899	1	PM11MP66	686002	5448306	2
no sample	686124	5448897		PM11JC87	684777	5448898	2.4	PM11MP67	685974	5448303	0.6
PM11JC34	686101	5448885	<0.5	PM11JC88	684747	5448907	<0.5	PM11MP68	685921	5448300	1.2
PM11JC35	686066	5448898	<0.5	PM11JC89	684718	5448910	1.1	PM11MP69	685921	5448298	0.6
PM11JC36	686048	5448905	6.1	PM11JC90	684693	5448910	0.6	PM11MP70	685894	5448306	<0.5
PM11JC37	686021	5448910	0.9	PM11JC91	684666	5448913	<0.5	PM11MP71	685863	5448310	0.7
PM11JC38	685994	5448906	<0.5	PM11JC92	684640	5448901	1.1	PM11MP72	685846	5448312	0.5
PM11JC39	685975	5448908	<0.5	PM11JC93	684624	5448901	<0.5	PM11MP73	685828	5448309	0.7
PM11JC40	685953	5448894	1.3	PM11JC94	684598	5448897	<0.5	PM11MP74	685803	5448296	<0.5
PM11JC41	685926	5448901	3.3	PM11JC95	685153	5448791	<0.5	PM11MP75	685781	5448292	<0.5
PM11JC42	685889	5448903	2.3	PM11JC96	685128	5448800	0.6	PM11MP76	685748	5448315	<0.5
PM11JC43	685873	5448903	1.2	PM11JC97	685098	5448802	<0.5	PM11MP77	685723	5448303	0.8

Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au
PM11MP78	685697	5448294	1.7	PM11MP132	686525	5448397	<0.5	PM11MP185	685049	5448596	<0.5
PM11MP79	685674	5448289	<0.5	PM11MP133	686500	5448402	<0.5	PM11MP186	685018	5448599	<0.5
PM11MP80	685648	5448284	0.6	PM11MP134	686476	5448404	<0.5	PM11MP187	684995	5448600	<0.5
PM11MP81	685623	5448294	<0.5	PM11MP135	686426	5448406	<0.5	PM11MP188	684968	5448604	1.3
PM11MP82	685603	5448297	2.6	PM11MP136	686405	5448406	<0.5	PM11MP189	684925	5448599	<0.5
PM11MP83	685574	5448297	<0.5	PM11MP137	686378	5448403	<0.5	PM11MP190	684907	5448599	<0.5
PM11MP84	685549	5448294	0.6	PM11MP138	686349	5448407	<0.5	PM11MP191	684868	5448604	3.4
PM11MP85	685528	5448300	<0.5	PM11MP139	686323	5448409	<0.5	PM11MP192	684868	5448604	2.1
PM11MP86	685497	5448300	52.5	PM11MP140	686323	5448409	<0.5	PM11MP193	684852	5448605	<0.5
PM11MP87	685473	5448302	<0.5	PM11MP141	686304	5448405	<0.5	PM11MP194	684826	5448610	1
PM11MP88	685446	5448305	3.8	PM11MP142	686277	5448401	<0.5	PM11MP195	684793	5448601	0.8
PM11MP89	685417	5448302	4.4	PM11MP143	686247	5448401	<0.5	PM11MP196	684778	5448608	<0.5
PM11MP90	685400	5448302	0.6	PM11MP144	686220	5448399	<0.5	PM11MP197	684752	5448607	<0.5
PM11MP91	685377	5448301	<0.5	PM11MP145	686196	5448401	<0.5	PM11MP198	684729	5448618	<0.5
PM11MP92	685355	5448301	0.7	PM11MP146	686171	5448398	<0.5	PM11MP199	684691	5448603	0.5
PM11MP93	685325	5448310	0.6	PM11MP147	686150	5448396	<0.5	PM11MP200	684644	5448603	3.2
PM11MP94	685298	5448297	2.3	PM11MP148	686122	5448392	0.6	PM11MP201	684636	5448602	<0.5
PM11MP95	685272	5448299	2.2	PM11MP149	686098	5448398	<0.5	PM11MP202	684625	5448606	<0.5
PM11MP96	685249	5448305	92.5	PM11MP150	686076	5448400	<0.5	PM11MP203	684609	5448608	<0.5
PM11MP97	685225	5448308	<0.5	PM11MP151	686046	5448406	<0.5	PM11MP204	684590	5448713	<0.5
PM11MP98	685200	5448308	1	PM11MP152	686026	5448404	<0.5	PM11MP205	684637	5448699	<0.5
PM11MP99	685171	5448306	<0.5	PM11MP153	685994	5448400	<0.5	PM11MP206	684655	5448696	<0.5
PM11MP100	685147	5448303	1.8	PM11MP154	685975	5448400	<0.5	PM11MP207	684683	5448694	<0.5
PM11MP101	685121	5448301	<0.5	PM11MP155	685934	5448395	<0.5	PM11MP208	684711	5448696	<0.5
PM11MP102	685098	5448303	0.7	PM11MP156	685921	5448391	<0.5	PM11MP227	685174	5448702	1.5
PM11MP103	685074	5448312	<0.5	PM11MP157	685893	5448387	6.2	PM11MP226	685142	5448703	<0.5
PM11MP104	685046	5448305	<0.5	PM11MP158	685861	5448399	<0.5	PM11MP225	685124	5448703	0.6
PM11MP105	685018	5448304	<0.5	PM11MP159	685844	5448398	<0.5	PM11MP224	685101	5448708	<0.5
PM11MP106	684992	5448302	<0.5	PM11MP160	685828	5448402	<0.5	PM11MP223	685074	5448708	<0.5
PM11MP107	684977	5448303	<0.5	PM11MP161	685805	5448410	0.6	PM11MP222	685052	5448700	1.1
PM11MP108	684946	5448303	<0.5	PM11MP162	685777	5448402	0.7	PM11MP221	685021	5448703	0.6
PM11MP109	684918	5448300	<0.5	PM11MP163	685749	5448399	<0.5	PM11MP220	685004	5448703	1.2
PM11MP110	684888	5448301	<0.5	PM11MP164	685726	5448397	<0.5	PM11MP219	684975	5448701	0.6
PM11MP111	684870	5448301	0.9	PM11MP165	685706	5448399	<0.5	PM11MP218	684946	5448700	<0.5
PM11MP112	684846	5448301	<0.5	PM11MP166	685683	5448402	1.9	PM11MP217	684932	5448697	0.7
PM11MP113	684816	5448304	<0.5	PM11MP167	685661	5448403	<0.5	PM11MP216	684905	5448692	1.5
PM11MP114	684772	5448309	<0.5	PM11MP168	685636	5448407	<0.5	PM11MP215	684875	5448693	<0.5
PM11MP115	684749	5448306	1.8	PM11MP169	685600	5448408	<0.5	PM11MP214	684851	5448700	<0.5
PM11MP116	684749	5448306	1.4	PM11MP170	685577	5448401	<0.5	PM11MP213	684822	5448709	<0.5
PM11MP117	684723	5448302	0.9	PM11MP171	685550	5448400	<0.5	PM11MP212	684790	5448705	<0.5
PM11MP118	684703	5448300	2.1	PM11MP172	685528	5448395	0.5	PM11MP211	684767	5448697	<0.5
PM11MP119	684687	5448296	<0.5	PM11MP173	685498	5448395	0.7	PM11MP210	684753	5448698	<0.5
PM11MP120	684649	5448306	<0.5	PM11MP174	685469	5448391	<0.5	PM11MP209	684730	5448700	<0.5
PM11MP121	684619	5448312	1.1	PM11MP175	685443	5448397	<0.5	PM11MP228	684601	5448800	0.5
PM11MP122	684600	5448301	<0.5	PM11MP176	685420	5448400	<0.5	PM11MP229	684625	5448797	0.7
PM11MP123	684597	5448403	<0.5	PM11MP177	685396	5448392	1.3	PM11MP230	684650	5448797	0.8
PM11MP124	684631	5448401	<0.5	PM11MP178	685371	5448398	0.9	PM11MP231	684749	5448502	0.7
PM11MP125	684659	5448399	3.2	no sample	685225	5448598		PM11MP232	684750	5448502	0.6
PM11MP126	684672	5448390	3.4	PM11MP179	685209	5448601	<0.5	PM11MP233	684772	5448500	<0.5
PM11MP127	684693	5448403	1.2	PM11MP180	685193	5448604	<0.5	PM11MP234	684812	5448499	<0.5
PM11MP128	684732	5448393	<0.5	PM11MP181	685178	5448601	<0.5	PM11MP235	684823	5448496	0.6
PM11MP129	686605	5448401	0.6	PM11MP182	685138	5448596	<0.5	PM11MP236	684860	5448493	1.7
PM11MP130	686577	5448406	<0.5	PM11MP183	685106	5448597	<0.5	PM11MP237	684875	5448493	<0.5
PM11MP131	686545	5448407	<0.5	PM11MP184	685073	5448591	<0.5	PM11MP238	684900	5448492	<0.5

Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au
PM11MP185	685049	5448596	<0.5	PM11MP239	684925	5448493	1.2	PM11MP294	685351	5449111	7.5
PM11MP186	685018	5448599	<0.5	PM11MP240	684954	5448487	0.7	PM11MP295	685330	5449104	0.8
PM11MP187	684995	5448600	<0.5	PM11MP241	684975	5448486	1.9	PM11MP296	685307	5449107	<0.5
PM11MP188	684968	5448604	1.3	PM11MP243	686600	5449105	1.5	PM11MP297	685282	5449109	<0.5
PM11MP189	684925	5448599	<0.5	PM11MP244	686580	5449096	<0.5	PM11MP298	685251	5449108	0.9
PM11MP190	684907	5448599	<0.5	PM11MP245	686553	5449093	0.6	PM11MP299	685214	5449106	<0.5
PM11MP191	684868	5448604	3.4	PM11MP246	686541	5449117	<0.5	PM11MP300	685172	5449116	2.3
PM11MP192	684868	5448604	2.1	PM11MP247	686506	5449104	<0.5	PM11MP301	685147	5449137	<0.5
PM11MP193	684852	5448605	<0.5	PM11MP248	686447	5449112	0.7	PM11MP302	685147	5449137	0.9
PM11MP194	684826	5448610	1	PM11MP249	686446	5449113	0.5	PM11MP303	685124	5449144	0.7
PM11MP195	684793	5448601	0.8	PM11MP250	686405	5449111	<0.5	PM11MP304	685106	5449140	<0.5
PM11MP196	684778	5448608	<0.5	PM11MP251	686405	5449111	<0.5	PM11MP305	685069	5449148	<0.5
PM11MP197	684752	5448607	<0.5	PM11MP252	686376	5449101	<0.5	PM11MP306	685042	5449147	<0.5
PM11MP198	684729	5448618	<0.5	PM11MP253	686302	5449105	2.3	PM11MP307	685023	5449149	<0.5
PM11MP199	684691	5448603	0.5	PM11MP254	686297	5449105	0.6	PM11MP308	684999	5449146	<0.5
PM11MP200	684644	5448603	3.2	PM11MP255	686295	5449105	1.4	PM11MP309	684964	5449142	<0.5
PM11MP201	684636	5448602	<0.5	PM11MP256	686280	5449116	0.9	PM11MP310	684949	5449131	0.6
PM11MP202	684625	5448606	<0.5	PM11MP257	686245	5449111	<0.5	PM11MP311	684925	5449107	<0.5
PM11MP203	684609	5448608	<0.5	PM11MP258	686201	5449101	<0.5	PM11MP312	684887	5449118	4.7
PM11MP204	684590	5448713	<0.5	PM11MP259	686166	5449103	0.8	PM11MP313	684858	5449118	2
PM11MP205	684637	5448699	<0.5	PM11MP260	686165	5449102	<0.5	PM11MP314	684838	5449108	<0.5
PM11MP206	684655	5448696	<0.5	PM11MP261	686145	5449102	<0.5	PM11MP315	684821	5449106	<0.5
PM11MP207	684683	5448694	<0.5	PM11MP262	686119	5449104	0.6	PM11MP316	684804	5449101	<0.5
PM11MP208	684711	5448696	<0.5	PM11MP263	686071	5449117	<0.5	PM11MP317	684783	5449101	<0.5
PM11MP227	685174	5448702	1.5	PM11MP264	686071	5449116	<0.5	PM11MP318	684750	5449111	0.7
PM11MP226	685142	5448703	<0.5	PM11MP265	686050	5449107	1	PM11MP319	684727	5449112	<0.5
PM11MP225	685124	5448703	0.6	PM11MP266	686030	5449112	<0.5	PM11MP320	684709	5449110	0.6
PM11MP224	685101	5448708	<0.5	PM11MP267	686002	5449113	1.4	PM11MP321	684677	5449107	0.6
PM11MP223	685074	5448708	<0.5	PM11MP268	685973	5449104	1.5	PM11MP322	684657	5449102	0.8
PM11MP222	685052	5448700	1.1	PM11MP269	685947	5449119	<0.5	PM11MP323	684630	5449114	<0.5
PM11MP221	685021	5448703	0.6	PM11MP270	685930	5449111	0.9	PM11MP324	684592	5449112	1.9
PM11MP220	685004	5448703	1.2	PM11MP271	685899	5449101	<0.5	PM11MP325	685093	5447505	<0.5
PM11MP219	684975	5448701	0.6	PM11MP272	685882	5449101	1	PM11MP326	685077	5447508	<0.5
PM11MP218	684946	5448700	<0.5	PM11MP273	685818	5449108	<0.5	PM11MP327	685069	5447511	<0.5
PM11MP217	684932	5448697	0.7	PM11MP274	685818	5449109	0.6	PM11MP328	685023	5447501	<0.5
PM11MP216	684905	5448692	1.5	PM11MP275	685803	5449111	<0.5	PM11MP329	684994	5447496	2.9
PM11MP215	684875	5448693	<0.5	PM11MP276	685776	5449112	<0.5	PM11MP330	684970	5447494	<0.5
PM11MP214	684851	5448700	<0.5	PM11MP277	685741	5449109	<0.5	PM11MP331	684947	5447504	<0.5
PM11MP213	684822	5448709	<0.5	PM11MP278	685725	5449107	0.7	PM11MP332	684921	5447501	<0.5
PM11MP212	684790	5448705	<0.5	PM11MP279	685698	5449114	<0.5	PM11MP333	684900	5447505	<0.5
PM11MP211	684767	5448697	<0.5	PM11MP280	685682	5449094	<0.5	PM11MP334	684875	5447503	<0.5
PM11MP210	684753	5448698	<0.5	PM11MP281	685653	5449091	<0.5	PM11MP335	684852	5447500	<0.5
PM11MP209	684730	5448700	<0.5	PM11MP282	685635	5449091	<0.5	PM11MP336	684825	5447497	<0.5
PM11MP228	684601	5448800	0.5	PM11MP283	685614	5449104	<0.5	PM11MP337	684797	5447496	<0.5
PM11MP229	684625	5448797	0.7	PM11MP284	685582	5449101	<0.5	PM11MP338	684779	5447492	<0.5
PM11MP230	684650	5448797	0.8	PM11MP285	685558	5449094	<0.5	PM11MP339	684749	5447496	0.6
PM11MP231	684749	5448502	0.7	PM11MP286	685516	5449102	<0.5	PM11MP340	684726	5447494	0.5
PM11MP232	684750	5448502	0.6	PM11MP287	685497	5449106	1.1	PM11MP341	684697	5447490	1.6
PM11MP233	684772	5448500	<0.5	PM11MP288	685471	5449107	<0.5	PM11MP342	684668	5447492	<0.5
PM11MP234	684812	5448499	<0.5	PM11MP289	685459	5449109	<0.5	PM11MP343	684642	5447499	0.7
PM11MP235	684823	5448496	0.6	PM11MP290	685447	5449092	0.5	PM11RP01	684602	5449998	1.1
PM11MP236	684860	5448493	1.7	PM11MP291	685434	5449097	<0.5	PM11RP02	684625	5449998	1.4
PM11MP237	684875	5448493	<0.5	PM11MP292	685389	5449099	<0.5	PM11RP03	684648	5450006	0.7
PM11MP238	684900	5448492	<0.5	PM11MP293	685376	5449104	<0.5	PM11RP04	684673	5450004	2.2

Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au
PM11RP05	684700	5450005	0.5	PM11RP53	685925	5450001	<0.5	PM11RP105	685967	5449593	<0.5
PM11RP06	684729	5450010	0.9	PM11RP54	685951	5449999	2.5	PM11RP106	685938	5449590	0.6
PM11RP07	684757	5450012	0.6	PM11RP55	686002	5450002	1.4	PM11RP107	685911	5449595	<0.5
PM11RP08	684783	5450012	0.7	PM11RP56	686027	5449999	1.1	PM11RP108	685879	5449598	1.2
PM11RP09	684803	5450014	1.1	PM11RP57	686054	5450000	1.9	PM11RP109	685846	5449598	0.9
PM11RP10	684833	5450012	1.3	PM11RP58	686076	5449999	6.9	PM11RP110	685809	5449602	1.3
PM11RP11	684851	5450012	0.6	PM11RP59	686102	5450001	3.1	PM11RP111	685825	5449594	1
PM11RP12	684876	5450013	1.7	PM11RP60	686122	5450000	1.5	PM11RP112	685800	5449596	3.1
PM11RP13	684914	5450017	1.3	PM11RP61	686149	5449997	<0.5	PM11RP113	685774	5449596	<0.5
PM11RP14	684925	5450017	1.6	PM11RP62	686173	5449999	13	PM11RP114	685751	5449598	0.6
PM11RP15	684964	5450011	29.4	PM11RP63	686203	5449998	1.4	PM11RP115	685712	5449600	<0.5
PM11RP16	684986	5450013	1.5	PM11RP64	686230	5450000	1.1	PM11RP116	685696	5449601	<0.5
PM11RP17	685009	5450017	1.3	PM11RP65	686255	5449998	2.4	PM11RP117	685656	5449600	<0.5
PM11RP18	685041	5450020	10.9	PM11RP66	686277	5449995	2.1	PM11RP118	685643	5449604	<0.5
PM11RP19	685054	5450002	<0.5	PM11RP67	686307	5449996	1.7	PM11RP119	685616	5449608	<0.5
PM11RP20	685074	5450000	0.7	PM11RP68	686336	5449997	0.9	PM11RP120	685591	5449611	<0.5
PM11RP21	685100	5450004	1.6	PM11RP69	686355	5449998	0.7	PM11RP121	685575	5449612	1.4
PM11RP22	685125	5450000	4.8	PM11RP70	686379	5449998	1	PM11RP122	685542	5449615	1.3
PM11RP23	685161	5450003	6	PM11RP71	686403	5449995	2.7	PM11RP123	685518	5449617	1.2
PM11RP24	685174	5450015	1	PM11RP72	686428	5449994	1.7	PM11RP124	685497	5449613	<0.5
PM11RP25	685200	5450017	1.8	PM11RP73	686452	5449992	3.5	PM11RP125	685474	5449595	<0.5
PM11RP26	685226	5450021	1.3	PM11RP74	686507	5449997	0.7	PM11RP126	685448	5449600	1.1
PM11RP27	685252	5450000	<0.5	PM11RP75	686507	5449997	2.3	PM11RP127	685421	5449606	<0.5
PM11RP28	685278	5450002	1.2	PM11RP76	686531	5450002	1.4	PM11RP128	685393	5449605	0.6
PM11RP29	685302	5450001	5.8	PM11RP77	686558	5449998	0.9	PM11RP129	685366	5449612	<0.5
PM11RP30	685329	5450001	4.7	PM11RP78	686578	5449998	4.1	PM11RP130	685344	5449619	<0.5
PM11RP31	685358	5450001	8.9	PM11RP79	686605	5449998	4.3	PM11RP131	685320	5449612	<0.5
PM11RP32	685380	5449996	0.8	PM11RP80	686479	5449601	1.4	PM11RP132	685299	5449607	<0.5
PM11RP33	685404	5449998	0.6	PM11RP81	686503	5449600	0.6	PM11RP133	685277	5449607	<0.5
PM11RP34	685423	5449999	<0.5	PM11RP82	686531	5449607	1.7	PM11RP134	685254	5449608	<0.5
PM11RP35	685453	5449999	2.4	PM11RP83	686557	5449604	2.1	PM11RP135	685226	5449608	0.6
PM11RP36	685476	5450001	0.6	PM11RP84	686578	5449602	1.7	PM11RP136	685201	5449606	<0.5
PM11RP37	685501	5449999	0.9	PM11RP85	686610	5449602	0.8	PM11RP137	685172	5449601	<0.5
PM11RP38	685529	5449999	1.5	PM11RP86	686452	5449601	1.8	PM11RP138	685150	5449602	2
PM11RP39	685552	5450000	1.1	PM11RP87	686426	5449605	3.7	PM11RP139	685123	5449608	1.3
PM11RP40	685577	5449999	0.6	no sample	686548	5449713		PM11RP140	685106	5449609	0.9
PM11RP41	685602	5450001	0.6	no sample	686526	5449764		PM11RP141	685079	5449609	4.4
PM11RP42	685627	5450002	0.9	PM11RP88	686401	5449599	2.1	PM11RP142	685052	5449607	1.6
PM11RP43	685652	5450001	1	PM11RP89	686369	5449598	2.5	PM11RP143	685026	5449606	4.7
PM11RP44	685674	5450001	2.7	PM11RP90	686347	5449600	2	PM11RP144	685000	5449606	2.3
PM11RP45	685703	5449999	0.9	PM11RP91	686323	5449602	1.6	PM11RP145	684977	5449596	<0.5
PM11RP46	685703	5449999	7.6	PM11RP92	686298	5449604	7.1	PM11RP146	684947	5449601	8.7
PM11RP47	685730	5449999	3.7	PM11RP93	686276	5449602	1.6	PM11RP147	684927	5449599	3.8
PM11RP48	685750	5449994	1.3	PM11RP94	686247	5449601	1.2	PM11RP148	684900	5449603	2
no sample	685776	5449999		PM11RP95	686224	5449599	1.6	PM11RP149	684871	5449601	1.2
PM11RP49	685803	5450001	1.2	PM11RP96	686201	5449605	1	PM11RP150	684848	5449599	3.5
PM11RP50	685826	5450004	0.8	PM11RP97	686175	5449598	2	PM11RP151	684812	5449618	1.3
no sample	685862	5449997		PM11RP98	686141	5449599	2	PM11RP152	684803	5449623	2.5
no sample	685877	5449997		PM11RP99	686124	5449600	1.1	PM11RP153	684780	5449616	1.1
no sample	685891	5449996		PM11RP100	686085	5449598	1.6	PM11RP154	684754	5449624	5.5
PM11RP52	685906	5450004	1.5	PM11RP101	686059	5449593	4	PM11RP155	684725	5449625	1.2
no sample	685878	5449996		PM11RP102	686041	5449597	1.9	PM11RP156	684699	5449621	2.3
PM11RP51	685864	5449993		PM11RP103	686009	5449593	0.8	PM11RP157	684671	5449624	1.6
no sample	685905	5450006	2.6	PM11RP104	685981	5449592	<0.5	PM11RP158	684648	5449625	0.9

Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au
PM11RP429	686029	5448006	<0.5	PM11RP481	685951	5447898	<0.5	PM11RP534	684776	5447608	0.9
PM11RP430	686000	5448005	0.9	PM11RP482	685921	5447898	0.8	PM11RP535	684746	5447604	2.9
PM11RP431	685977	5448001	<0.5	PM11RP483	685897	5447898	0.8	PM11RP536	684722	5447607	2.9
PM11RP432	685954	5448000	0.6	PM11RP484	685874	5447899	1.3	PM11RP537	684696	5447606	2.9
PM11RP433	685922	5448003	0.8	PM11RP485	685848	5447897	<0.5	PM11RP538	684674	5447603	1.9
PM11RP434	685902	5448003	<0.5	PM11RP486	685827	5447895	<0.5	PM11RP539	684650	5447602	<0.5
PM11RP435	685879	5448003	<0.5	PM11RP487	685800	5447895	<0.5	PM11RP540	684625	5447602	0.9
no sample	685851	5448002		PM11RP488	685774	5447897	<0.5	PM11RP541	684601	5447602	<0.5
PM11RP436	685850	5448002	2.1	PM11RP489	685745	5447900	8.7	PM11GW01	685701	5448000	2.2
PM11RP437	685830	5448000	1.2	PM11RP490	685723	5447897	<0.5	PM11GW02	685674	5448000	<0.5
PM11RP438	685805	5447995	<0.5	PM11RP491	685256	5449400	<0.5	PM11GW03	685650	5448000	7.8
PM11RP439	685775	5448001	<0.5	PM11RP492	685278	5449399	<0.5	PM11GW04	685625	5448000	1.1
PM11RP440	685750	5447999	<0.5	PM11RP493	685301	5449400	<0.5	PM11GW05	685600	5448000	1
PM11RP441	685725	5447996	<0.5	PM11RP494	685329	5449400	<0.5	PM11GW06	685575	5448000	10.1
PM11RP442	685246	5448100	1.6	PM11RP495	685353	5449404	<0.5	PM11GW07	685550	5448000	<0.5
no sample	685226	5448098		PM11RP496	685373	5449403	<0.5	PM11GW08	685525	5448000	<0.5
PM11RP444	685198	5448097	<0.5	PM11RP497	685404	5449402	1	PM11GW09	685500	5448000	2.3
PM11RP443	685151	5448100	<0.5	PM11RP498	685428	5449402	2.2	PM11GW10	685475	5448000	34.7
PM11RP447	685127	5448099	3.7	PM11RP499	685453	5449406	1	PM11GW11	685450	5448000	28.3
PM11RP446	685153	5448098	4.8	PM11RP500	685480	5449402	<0.5	PM11GW12	685425	5448000	8.8
PM11RP445	685174	5448097	8.2	PM11RP501	685509	5449407	1.6	PM11GW13	685400	5448000	2.2
PM11RP448	685104	5448101	<0.5	PM11RP502	685531	5449408	<0.5	PM11GW14	685375	5448000	4.2
PM11RP449	685080	5448101	0.7	PM11RP503	685561	5449406	<0.5	PM11GW15	685350	5448000	<0.5
PM11RP450	685101	5447801	<0.5	PM11RP504	685578	5449404	1.1	PM11GW16	685324	5448000	1.5
PM11RP451	685125	5447803	1.1	PM11RP505	685604	5449399	<0.5	PM11GW17	685299	5448000	1
PM11RP452	685147	5447805	<0.5	PM11RP506	685635	5449399	4	PM11GW18	685274	5448000	5
PM11RP453	685174	5447808	<0.5	PM11RP507	685658	5449401	<0.5	PM11GW19	685249	5448000	0.7
PM11RP454	685199	5447797	2	PM11RP508	685683	5449401	<0.5	PM11GW20	685224	5448000	0.8
PM11RP455	686599	5447897	<0.5	PM11RP509	685703	5449401	<0.5	PM11GW21	685200	5448000	1.8
PM11RP456	686574	5447898	<0.5	PM11RP510	685730	5449397	<0.5	PM11GW22	685175	5448000	62.5
PM11RP457	686545	5447903	<0.5	PM11RP511	685750	5449391	0.7	PM11GW23	685150	5448000	2.7
PM11RP458	686528	5447904	<0.5	PM11RP512	685781	5449402	<0.5	PM11GW24	685125	5448000	1
PM11RP459	686510	5447901	<0.5	PM11RP513	685799	5449404	<0.5	PM11GW25	685100	5448000	<0.5
PM11RP460	686471	5447899	<0.5	PM11RP514	685832	5449403	<0.5	PM11GW26	685075	5448000	<0.5
PM11RP461	686449	5447894	1	PM11RP515	685855	5449407	<0.5	PM11GW27	685051	5448000	<0.5
PM11RP462	686428	5447898	<0.5	PM11RP516	685882	5449404	<0.5	PM11GW28	685025	5448000	0.6
PM11RP463	686400	5447898	<0.5	PM11RP517	685901	5449405	<0.5	PM11GW29	685000	5448000	<0.5
PM11RP464	686374	5447897	0.8	PM11RP518	685927	5449404	0.6	PM11GW30	684974	5448000	<0.5
PM11RP465	686348	5447903	<0.5	PM11RP519	685957	5449403	<0.5	PM11GW31	684949	5448000	<0.5
PM11RP466	686333	5447897	<0.5	PM11RP520	685976	5449410	1.2	PM11GW32	684924	5448000	<0.5
PM11RP467	686298	5447895	<0.5	PM11RP521	685229	5449402	<0.5	PM11GW33	684900	5448000	<0.5
PM11RP468	686275	5447899	2.7	PM11RP522	685096	5447598	9.9	PM11GW34	684875	5448000	<0.5
PM11RP469	686238	5447906	0.7	no sample	685076	5447593		PM11GW35	684849	5448000	<0.5
PM11RP470	686215	5447902	<0.5	PM11RP523	685043	5447604	<0.5	PM11GW36	684825	5448000	0.5
PM11RP471	686199	5447900	<0.5	PM11RP524	685025	5447601	<0.5	PM11GW37	684800	5448000	<0.5
PM11RP472	686169	5447898	<0.5	PM11RP525	685000	5447599	<0.5	PM11GW38	684775	5448000	1.1
PM11RP473	686142	5447895	1.3	PM11RP526	684976	5447603	<0.5	PM11GW39	684750	5448000	0.5
PM11RP474	686122	5447916	1.2	PM11RP527	684950	5447602	3.4	PM11GW40	684725	5448000	2.7
PM11RP475	686093	5447897	<0.5	PM11RP528	684926	5447603	9.2	PM11-GW41	684701	5448000	3.8
PM11RP476	686064	5447900	<0.5	PM11RP529	684901	5447603	1	PM11-GW42	684675	5448000	1.2
PM11RP477	686043	5447907	<0.5	PM11RP530	684864	5447604	2	PM11-GW43	684650	5448000	1.3
PM11RP478	686019	5447904	1.3	PM11RP531	684825	5447601	2.4	PM11-GW44	684624	5448000	1
PM11RP479	685989	5447905	<0.5	PM11RP532	684799	5447606	3.7	PM11-GW45	684600	5448000	1.6
PM11RP480	685973	5447900	<0.5	PM11RP533	684774	5447606	2.5	PM11-GW46	685700	5447900	1.2

Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au	Sample	84Z10_E	84Z10_N	ppb Au
PM11-GW47	685674	5447900	1.6								
PM11-GW48	685650	5447900	1								
PM11-GW49	685625	5447900	0.8								
PM11-GW50	685600	5447900	1.1								
PM11-GW51	685575	5447900	1.1								
PM11-GW52	685550	5447900	0.6								
PM11-GW53	685525	5447900	<0.5								
PM11-GW54	685501	5447900	<0.5								
PM11-GW55	685475	5447900	1.2								
PM11-GW56	685450	5447900	0.9								
PM11-GW57	685425	5447900	1.2								
PM11-GW58	685400	5447900	1.1								
PM11-GW59	685375	5447900	4.3								
PM11-GW60	685350	5447900	1.7								
PM11-GW61	685325	5447900	4.7								
PM11-GW62	685300	5447900	5.3								
PM11-GW63	685275	5447900	4.4								
PM11-GW64	685250	5447900	1.6								
PM11-GW65	685225	5447900	5.5								
PM11-GW66	685200	5447900	15.6								
PM11-GW67	685175	5447900	5.9								
PM11-GW68	685151	5447900	1.9								
PM11-GW69	685125	5447900	1.1								
PM11-GW70	685099	5447900	1.3								
PM11-GW71	685074	5447900	1								
PM11-GW72	685050	5447900	0.8								
PM11-GW73	685025	5447900	0.7								
PM11-GW74	685000	5447900	1.7								
PM11-GW75	684975	5447900	3.7								
PM11-GW76	684950	5447900	7.3								
PM11-GW77	684925	5447900	2.1								
PM11-GW78	684900	5447900	1.8								
PM11-GW79	684875	5447900	<0.5								
PM11-GW80	684850	5447899	2.9								
PM11-GW81	684825	5447900	2.7								
PM11-GW82	684799	5447900	5.2								
PM11-GW83	684774	5447900	0.9								
PM11-GW84	684749	5447900	<0.5								
PM11-GW85	684724	5447900	<0.5								
PM11-GW86	684700	5447900	2.2								
PM11-GW87	684675	5447900	1.3								
PM11-GW88	684650	5447900	3.8								
PM11-GW89	684625	5447900	<0.5								
PM11-GW90	684600	5447900	11.3								

Sample	83Z10E	83Z10N	ppb Au	Sample	83Z10E	83Z10N	ppb Au	Sample	83Z10E	83Z10N	ppb Au
PP11JMT001	686601	5448448	<0.5	PP11JMT055	685252	5448450	<0.5	PP11JMT109	685520	5448350	<0.5
PP11JMT002	686578	5448451	<0.5	PP11JMT056	685228	5448445	<0.5	PP11JMT110	685502	5448355	<0.5
PP11JMT003	686549	5448449	0.6	PP11JMT057	685198	5448451	<0.5	PP11JMT111	685477	5448349	<0.5
PP11JMT004	686525	5448449	2.4	PP11JMT058	685177	5448447	0.9	PP11JMT112	685445	5448350	<0.5
PP11JMT005	686500	5448450	<0.5	PP11JMT059	685150	5448448	1.8	PP11JMT113	685425	5448348	0.8
PP11JMT006	686476	5448449	1.3	PP11JMT060	685124	5448453	0.7	PP11JMT114	685407	5448354	2.3
PP11JMT007	686449	5448448	0.8	PP11JMT061	685101	5448448	0.8	PP11JMT115	685377	5448354	1.1
PP11JMT008	686427	5448452	<0.5	PP11JMT062	685072	5448448	<0.5	PP11JMT116	685350	5448353	0.7
PP11JMT009	686401	5448447	3.6	PP11JMT063	685053	5448452	<0.5	PP11JMT117	685326	5448353	1.3
PP11JMT010	686376	5448447	<0.5	PP11JMT064	685029	5448451	27.1	PP11JMT118	685302	5448352	1.7
PP11JMT011	686356	5448451	<0.5	PP11JMT065	684996	5448460	1.1	PP11JMT119	685276	5448356	71.8
PP11JMT012	686325	5448449	<0.5	PP11JMT066	686597	5448354	<0.5	PP11JMT120	685256	5448361	0.9
PP11JMT013	686300	5448449	<0.5	PP11JMT067	686571	5448347	2	PP11JMT121	685218	5448350	2.4
PP11JMT014	686276	5448453	5.6	PP11JMT068	686551	5448347	<0.5	PP11JMT122	685200	5448349	2.1
PP11JMT015	686249	5448447	<0.5	PP11JMT069	686524	5448350	0.5	PP11JMT123	685171	5448352	72.9
PP11JMT016	686226	5448453	<0.5	PP11JMT070	686499	5448348	<0.5	PP11JMT124	685146	5448351	6.1
PP11JMT017	686199	5448450	0.8	PP11JMT071	686474	5448351	0.9	PP11JMT125	685126	5448348	1.9
PP11JMT018	686170	5448450	0.8	PP11JMT072	686452	5448345	1.1	PP11JMT126	685104	5448347	1.4
PP11JMT019	686149	5448450	0.5	PP11JMT073	686425	5448345	<0.5	PP11JMT127	685073	5448349	0.7
PP11JMT020	686123	5448450	<0.5	PP11JMT074	686400	5448345	0.6	PP11JMT128	685047	5448349	1
PP11JMT021	686095	5448450	<0.5	PP11JMT075	686372	5448354	21.9	PP11JMT129	685026	5448350	<0.5
PP11JMT022	686075	5448448	2.3	PP11JMT076	686350	5448342	25.6	PP11JMT130	685002	5448360	3.5
PP11JMT023	686048	5448451	<0.5	PP11JMT077	686323	5448351	<0.5	PP11JMT131	686603	5448250	<0.5
PP11JMT024	686023	5448449	1.4	PP11JMT078	686297	5448346	<0.5	PP11JMT132	686574	5448253	<0.5
PP11JMT025	685999	5448452	<0.5	PP11JMT079	686277	5448348	1.7	PP11JMT133	686552	5448250	1
PP11JMT026	685972	5448447	<0.5	PP11JMT080	686257	5448353	0.9	PP11JMT134	686526	5448252	<0.5
PP11JMT027	685946	5448448	2	PP11JMT081	686227	5448353	<0.5	PP11JMT135	686505	5448255	0.5
PP11JMT028	685928	5448455	0.6	PP11JMT082	686200	5448346	<0.5	PP11JMT136	686474	5448261	<0.5
PP11JMT029	685891	5448461	<0.5	PP11JMT083	686175	5448347	<0.5	PP11JMT137	686452	5448248	<0.5
PP11JMT030	685872	5448446	<0.5	PP11JMT084	686151	5448341	1.8	PP11JMT138	686426	5448252	4.5
PP11JMT031	685850	5448449	<0.5	PP11JMT085	686125	5448357	0.5	PP11JMT139	686398	5448248	0.7
PP11JMT032	685825	5448450	<0.5	PP11JMT086	686100	5448357	<0.5	PP11JMT140	686377	5448253	0.7
PP11JMT033	685799	5448452	<0.5	PP11JMT087	686072	5448348	<0.5	PP11JMT141	686350	5448251	<0.5
PP11JMT034	685778	5448457	<0.5	PP11JMT088	686049	5448351	0.6	PP11JMT142	686326	5448254	0.6
PP11JMT035	685758	5448450	<0.5	PP11JMT089	686021	5448351	<0.5	PP11JMT143	686302	5448260	1.6
PP11JMT036	685728	5448453	<0.5	PP11JMT090	686002	5448352	<0.5	PP11JMT144	686274	5448249	0.7
PP11JMT037	685699	5448448	<0.5	PP11JMT091	685979	5448350	<0.5	PP11JMT145	686244	5448254	2.8
PP11JMT038	685678	5448453	<0.5	PP11JMT092	685949	5448350	1.7	PP11JMT146	686225	5448250	<0.5
PP11JMT039	685645	5448455	<0.5	PP11JMT093	685926	5448351	<0.5	PP11JMT147	686202	5448252	<0.5
PP11JMT040	685630	5448454	<0.5	PP11JMT094	685902	5448349	<0.5	PP11JMT148	686174	5448252	1.5
PP11JMT041	685600	5448456	1.5	PP11JMT095	685873	5448354	1.2	PP11JMT149	686147	5448250	1.4
PP11JMT042	685577	5448453	<0.5	PP11JMT096	685847	5448352	0.6	PP11JMT150	686122	5448250	<0.5
PP11JMT043	685553	5448450	<0.5	PP11JMT097	685825	5448357	<0.5	PP11JMT151	686097	5448246	2
PP11JMT044	685522	5448452	<0.5	PP11JMT098	685804	5448347	<0.5	PP11JMT152	686074	5448251	1.4
PP11JMT045	685506	5448446	<0.5	PP11JMT099	685779	5448351	<0.5	PP11JMT153	686048	5448253	0.5
PP11JMT046	685475	5448445	11.1	PP11JMT100	685752	5448352	<0.5	PP11JMT154	686026	5448255	1.1
PP11JMT047	685452	5448449	5.8	PP11JMT101	685722	5448349	0.6	PP11JMT155	685997	5448254	2.3
PP11JMT048	685424	5448450	<0.5	PP11JMT102	685699	5448356	0.8	PP11JMT156	685980	5448254	0.9
PP11JMT049	685404	5448453	0.5	PP11JMT103	685674	5448357	<0.5	PP11JMT157	685945	5448250	0.6
PP11JMT050	685374	5448446	<0.5	PP11JMT104	685650	5448347	0.9	PP11JMT158	685922	5448246	1.5
PP11JMT051	685352	5448448	0.8	PP11JMT105	685627	5448345	<0.5	PP11JMT159	685896	5448242	<0.5
PP11JMT052	685325	5448454	<0.5	PP11JMT106	685607	5448347	1	PP11JMT160	685873	5448254	0.7
PP11JMT053	685301	5448449	<0.5	PP11JMT107	685575	5448351	<0.5	PP11JMT161	685850	5448250	<0.5
PP11JMT054	685278	5448445	<0.5	PP11JMT108	685550	5448349	0.5	PP11JMT162	685803	5448130	0.9

Sample	83Z10E	83Z10N	ppb Au	Sample	83Z10E	83Z10N	ppb Au	Sample	83Z10E	83Z10N	ppb Au
PP11JMT163	685771	5448124	<0.5	PP11JMT217	685955	5448050	0.6	PP11JMT271	686552	5447773	<0.5
PP11JMT164	685748	5448127	<0.5	PP11JMT218	685919	5448052	0.7	PP11JMT272	686522	5447773	<0.5
PP11JMT165	685728	5448123	1.2	PP11JMT219	685899	5448054	<0.5	PP11JMT273	686503	5447778	0.7
PP11JMT166	685701	5448125	2.5	PP11JMT220	685869	5448059	<0.5	PP11JMT274	686471	5447775	<0.5
PP11JMT167	685675	5448124	<0.5	PP11JMT221	685847	5448055	<0.5	PP11JMT275	686448	5447779	1
PP11JMT168	685648	5448126	<0.5	PP11JMT222	685825	5448051	1	PP11JMT276	686421	5447775	1.2
PP11JMT169	685626	5448126	1.2	PP11JMT223	685806	5448054	<0.5	PP11JMT277	686406	5447767	8
PP11JMT170	685601	5448125	0.8	PP11JMT224	685778	5448054	1.9	PP11JMT278	686380	5447772	1.9
PP11JMT171	685578	5448122	3.2	PP11JMT225	685744	5448051	<0.5	PP11JMT279	686353	5447773	<0.5
PP11JMT172	685544	5448130	2.8	PP11JMT226	685725	5448049	3.2	PP11JMT280	686332	5447773	<0.5
PP11JMT173	685525	5448127	1.3	PP11JMT227	685702	5448050	5.8	no sample	686300	5447775	
PP11JMT174	685502	5448134	1.5	PP11JMT228	685671	5448049	<0.5	PP11JMT282	686277	5447832	0.9
PP11JMT175	685468	5448123	7.8	PP11JMT229	685653	5448056	3.8	PP11JMT283	686257	5447824	1.2
PP11JMT176	685445	5448124	2.1	PP11JMT230	685627	5448045	<0.5	PP11JMT284	686218	5447827	1
PP11JMT177	685425	5448126	1.3	PP11JMT231	685607	5448045	<0.5	PP11JMT285	686200	5447828	0.9
PP11JMT178	685400	5448125	28.3	PP11JMT232	685577	5448043	1.6	PP11JMT286	686173	5447830	<0.5
PP11JMT179	685376	5448125	1.6	PP11JMT233	685545	5448049	<0.5	PP11JMT287	686153	5447826	<0.5
PP11JMT180	685350	5448129	<0.5	PP11JMT234	685523	5448047	0.6	PP11JMT288	686125	5447830	<0.5
PP11JMT181	685324	5448128	2	PP11JMT235	685502	5448048	3.4	PP11JMT289	686099	5447832	0.7
PP11JMT182	685295	5448122	12.8	PP11JMT236	685475	5448051	<0.5	PP11JMT290	686080	5447824	1.1
PP11JMT183	685277	5448127	6.4	PP11JMT237	685452	5448050	37.4	PP11JMT291	686054	5447831	0.6
PP11JMT184	685247	5448122	22.8	PP11JMT238	685422	5448058	26.3	PP11JMT292	686029	5447826	<0.5
PP11JMT185	685229	5448131	3.4	PP11JMT239	685400	5448054	9.2	PP11JMT293	685998	5447826	1.1
PP11JMT186	685198	5448120	2.3	PP11JMT240	685372	5448046	18.3	PP11JMT294	685974	5447823	1.2
PP11JMT187	685172	5448127	2	PP11JMT241	685341	5448044	5.2	PP11JMT295	685949	5447832	3.5
PP11JMT188	685150	5448120	0.6	PP11JMT242	685324	5448048	1.4	PP11JMT296	685925	5447820	1.9
PP11JMT189	685126	5448123	0.8	PP11JMT243	685299	5448049	3.3	PP11JMT297	685893	5447823	2.2
PP11JMT190	686605	5448050	0.6	PP11JMT244	685272	5448050	1.4	PP11JMT298	685902	5447768	0.5
PP11JMT191	686605	5448050	<0.5	PP11JMT245	685250	5448053	9.3	PP11JMT299	685925	5447772	0.7
PP11JMT192	686575	5448047	0.7	PP11JMT246	685224	5448051	2.3	PP11JMT300	685955	5447779	1.4
PP11JMT193	686545	5448046	<0.5	PP11JMT247	685200	5448051	<0.5	PP11JMT301	685975	5447761	1.4
PP11JMT194	686528	5448051	<0.5	PP11JMT248	685178	5448054	2.6	PP11JMT302	686004	5447775	0.8
PP11JMT195	686504	5448047	0.6	PP11JMT249	685149	5448050	2	PP11JMT303	686031	5447771	0.9
PP11JMT196	686473	5448050	<0.5	PP11JMT250	685131	5448055	2.3	PP11JMT304	686068	5447777	<0.5
PP11JMT197	686449	5448048	1.1	PP11JMT251	685100	5448050	3.9	PP11JMT305	686084	5447781	<0.5
PP11JMT198	686429	5448046	<0.5	PP11JMT252	685070	5448058	3.2	PP11JMT306	686097	5447783	<0.5
PP11JMT199	686401	5448046	1.8	PP11JMT253	685047	5448051	<0.5	PP11JMT307	686133	5447766	0.8
PP11JMT200	686372	5448053	<0.5	PP11JMT254	685025	5448052	<0.5	PP11JMT308	686155	5447774	0.7
PP11JMT201	686347	5448048	<0.5	PP11JMT255	685002	5448055	1.8	PP11JMT309	686178	5447775	1.2
PP11JMT202	686325	5448047	<0.5	PP11JMT256	686295	5447828	1.4	PP11JMT310	686202	5447770	0.5
PP11JMT203	686300	5448048	<0.5	PP11JMT257	686321	5447825	2.3	PP11JMT311	686229	5447783	1.8
PP11JMT204	686274	5448053	1.5	PP11JMT258	686352	5447825	0.6	PP11JMT312	686249	5447778	1.5
PP11JMT205	686251	5448054	<0.5	PP11JMT259	686372	5447829	<0.5	PP11JMT313	686280	5447775	<0.5
PP11JMT206	686232	5448058	0.6	PP11JMT260	686403	5447822	<0.5	no sample	686310	5447777	
PP11JMT207	686200	5448053	0.8	PP11JMT261	686427	5447827	2.9	PP11JMT315	685873	5447768	2.8
PP11JMT208	686177	5448053	1	PP11JMT262	686452	5447831	<0.5	PP11JMT316	685849	5447771	0.6
PP11JMT209	686144	5448052	1.3	PP11JMT263	686478	5447827	<0.5	PP11JMT317	685819	5447770	1.4
PP11JMT210	686125	5448053	0.6	PP11JMT264	686500	5447830	0.8	PP11JMT318	685798	5447770	1.7
PP11JMT211	686099	5448051	1.7	PP11JMT265	686522	5447822	0.7	PP11JMT319	685773	5447772	<0.5
PP11JMT212	686076	5448053	<0.5	PP11JMT266	686554	5447830	<0.5	PP11JMT320	685753	5447771	1.4
PP11JMT213	686059	5448054	<0.5	PP11JMT267	686575	5447828	<0.5	PP11JMT321	685734	5447777	1.1
PP11JMT214	686026	5448053	0.7	PP11JMT268	686609	5447824	<0.5	PP11JMT322	685708	5447776	<0.5
PP11JMT215	685999	5448053	<0.5	PP11JMT269	686604	5447775	1.7	PP11JMT323	685674	5447788	1.3
PP11JMT216	685975	5448053	0.9	PP11JMT270	686573	5447775	0.5	PP11JMT324	685650	5447771	<0.5

Sample	83Z10E	83Z10N	ppb Au	Sample	83Z10E	83Z10N	ppb Au	Sample	83Z10E	83Z10N	ppb Au
PP11JMT325	685624	5447783	1	PP11JMT379	685973	5448125	<0.5	PP11RP047	685426	5448473	0.8
PP11JMT326	685598	5447774	0.6	PP11JMT380	685947	5448124	<0.5	PP11RP048	685406	5448474	<0.5
PP11JMT327	685574	5447778	<0.5	PP11JMT381	685929	5448123	0.9	PP11RP049	685374	5448475	2.2
PP11JMT328	685548	5447779	1	PP11JMT382	685897	5448125	<0.5	PP11RP050	685351	5448475	<0.5
PP11JMT329	685519	5447775	1.4	PP11JMT383	685877	5448126	<0.5	PP11RP051	685324	5448471	<0.5
PP11JMT330	685504	5447783	0.9	PP11JMT384	685852	5448121	<0.5	PP11RP052	685304	5448473	1.2
no sample	685525	5447783		PP11JMT385	685825	5448128	<0.5	PP11RP053	685272	5448471	<0.5
PP11JMT332	685449	5447783	1	PP11JMT386	685806	5448128	<0.5	PP11RP054	685245	5448475	<0.5
PP11JMT333	685425	5447777	1	PP11RP001	686605	5448475	<0.5	PP11RP055	685225	5448475	<0.5
PP11JMT334	685398	5447780	2.6	PP11RP002	686574	5448474	1.1	PP11RP056	685201	5448469	<0.5
PP11JMT335	685380	5447776	1.1	PP11RP003	686548	5448470	20.8	PP11RP057	685175	5448476	1.2
PP11JMT336	685350	5447780	0.9	PP11RP004	686522	5448469	1.2	PP11RP058	685149	5448474	0.9
PP11JMT337	685323	5447779	11.2	PP11RP005	686502	5448470	13.3	PP11RP059	685120	5448471	2
PP11JMT338	685295	5447770	<0.5	PP11RP006	686474	5448473	2.6	PP11RP060	685101	5448475	<0.5
PP11JMT339	685272	5447776	0.7	PP11RP007	686447	5448472	2	PP11RP061	685075	5448484	<0.5
PP11JMT340	685245	5447782	1.7	PP11RP008	686420	5448471	0.6	PP11RP062	685054	5448481	0.8
PP11JMT341	685217	5447776	<0.5	PP11RP009	686400	5448472	<0.5	PP11RP063	685023	5448473	2.7
PP11JMT342	685873	5447855	1	PP11RP010	686375	5448472	1.8	PP11RP064	685001	5448472	<0.5
PP11JMT343	685849	5447854	0.6	PP11RP011	686347	5448475	0.9	PP11RP065	686601	5448278	1
PP11JMT344	685827	5447859	<0.5	PP11RP012	686325	5448475	<0.5	PP11RP066	686579	5448279	<0.5
PP11JMT345	685801	5447856	0.5	PP11RP013	686304	5448477	1.1	no sample	686548	5448275	
PP11JMT346	685774	5447860	<0.5	PP11RP014	686276	5448478	0.5	PP11RP068	686527	5448276	<0.5
PP11JMT347	685746	5447855	<0.5	PP11RP015	686250	5448476	<0.5	PP11RP069	686497	5448278	<0.5
PP11JMT348	685725	5447857	<0.5	PP11RP016	686227	5448476	<0.5	PP11RP070	686471	5448275	1.3
PP11JMT349	685697	5447870	0.6	PP11RP017	686199	5448474	0.7	PP11RP071	686450	5448274	1.9
PP11JMT350	685677	5447858	<0.5	PP11RP018	686172	5448474	0.5	PP11RP072	686423	5448276	<0.5
PP11JMT351	685644	5447848	1.4	PP11RP019	686147	5448475	0.8	PP11RP073	686403	5448277	<0.5
PP11JMT352	685623	5447851	1.5	PP11RP020	686122	5448476	<0.5	PP11RP074	686371	5448271	1.7
PP11JMT353	685604	5447855	<0.5	PP11RP021	686095	5448480	<0.5	PP11RP075	686351	5448272	<0.5
PP11JMT354	685580	5447853	5.3	PP11RP022	686074	5448477	<0.5	PP11RP076	686326	5448275	<0.5
PP11JMT355	685547	5447853	0.9	PP11RP023	686053	5448474	<0.5	PP11RP077	686300	5448276	<0.5
PP11JMT356	685524	5447851	<0.5	PP11RP024	686024	5448475	0.6	PP11RP078	686274	5448277	1.5
PP11JMT357	685502	5447853	<0.5	PP11RP025	686001	5448475	1	PP11RP079	686253	5448281	<0.5
PP11JMT358	685473	5447849	0.9	PP11RP026	685975	5448476	<0.5	PP11RP080	686224	5448276	<0.5
PP11JMT359	685452	5447850	<0.5	PP11RP027	685950	5448479	0.5	PP11RP081	686198	5448275	<0.5
PP11JMT360	685428	5447848	1	PP11RP028	685925	5448477	0.6	PP11RP082	686172	5448274	6.6
PP11JMT361	685399	5447848	0.8	PP11RP029	685894	5448482	<0.5	PP11RP083	686148	5448273	<0.5
PP11JMT362	685372	5447847	2.2	PP11RP030	685869	5448475	<0.5	PP11RP084	686125	5448275	<0.5
PP11JMT363	685349	5447844	1.6	PP11RP031	685847	5448473	<0.5	PP11RP085	686096	5448276	<0.5
PP11JMT364	685322	5447846	<0.5	PP11RP032	685825	5448473	<0.5	PP11RP086	686074	5448277	<0.5
PP11JMT365	685295	5447846	2.2	PP11RP033	685802	5448479	1.3	PP11RP087	686049	5448275	<0.5
PP11JMT366	685272	5447849	1.1	PP11RP034	685755	5448472	<0.5	PP11RP088	686023	5448274	<0.5
PP11JMT367	685248	5447849	11.4	PP11RP035	685728	5448476	<0.5	PP11RP089	686001	5448274	<0.5
PP11JMT368	685225	5447854	1.1	PP11RP036	685704	5448472	<0.5	PP11RP090	685979	5448278	0.6
PP11JMT369	685197	5447848	3.2	PP11RP037	685674	5448474	<0.5	PP11RP091	685951	5448276	<0.5
PP11JMT370	685171	5447854	1.3	PP11RP038	685651	5448475	<0.5	PP11RP092	685925	5448280	0.9
PP11JMT371	685150	5447846	2.5	PP11RP039	685625	5448474	<0.5	PP11RP093	685900	5448279	<0.5
PP11JMT372	685127	5447849	<0.5	PP11RP040	685601	5448477	0.6	PP11RP094	685876	5448281	1.1
PP11JMT373	685100	5447848	4.7	PP11RP041	685572	5448476	<0.5	PP11RP095	685851	5448277	1.4
PP11JMT374	685076	5447849	1.2	PP11RP042	685550	5448474	<0.5	PP11RP096	685827	5448270	0.8
PP11JMT375	685049	5447852	0.8	PP11RP043	685525	5448477	<0.5	PP11RP097	685806	5448278	<0.5
PP11JMT376	685020	5447856	1.3	PP11RP044	685502	5448476	0.7	PP11RP098	685773	5448277	<0.5
PP11JMT377	684995	5447858	<0.5	PP11RP045	685474	5448475	1.4	PP11RP099	685750	5448283	<0.5
PP11JMT378	686000	5448129	0.7	PP11RP046	685450	5448479	0.7	PP11RP100	685727	5448274	<0.5

Sample	83Z10E	83Z10N	ppb Au	Sample	83Z10E	83Z10N	ppb Au	Sample	83Z10E	83Z10N	ppb Au
PP11RP101	685702	5448271	<0.5	no sample	685978	5448224		PP11RP206	686305	5447973	0.7
PP11RP102	685675	5448275	<0.5	no sample	685950	5448220		PP11RP207	686276	5447973	1.2
PP11RP103	685652	5448275	<0.5	PP11RP154	685929	5448229	<0.5	PP11RP208	686250	5447977	1
PP11RP104	685619	5448276	<0.5	PP11RP155	685896	5448230	<0.5	PP11RP209	686226	5447978	1.9
PP11RP105	685600	5448276	<0.5	PP11RP156	685873	5448229	<0.5	PP11RP210	686196	5447976	0.6
PP11RP106	685575	5448274	<0.5	PP11RP157	685853	5448227	<0.5	PP11RP211	686174	5447972	0.8
PP11RP107	685550	5448275	<0.5	PP11RP158	685829	5448252	<0.5	PP11RP212	686145	5447971	<0.5
PP11RP108	685525	5448276	<0.5	PP11RP159	685802	5448256	<0.5	PP11RP213	686120	5447978	<0.5
PP11RP109	685500	5448276	1	PP11RP160	685825	5448226	<0.5	PP11RP214	686099	5447978	<0.5
PP11RP110	685475	5448274	0.5	PP11RP161	685799	5448227	<0.5	PP11RP215	686072	5447976	<0.5
PP11RP111	685451	5448273	2.6	PP11RP162	685772	5448226	<0.5	PP11RP216	686050	5447975	<0.5
PP11RP112	685425	5448275	<0.5	PP11RP163	685750	5448227	0.8	PP11RP217	686024	5447976	<0.5
PP11RP113	685402	5448275	<0.5	PP11RP164	685726	5448225	<0.5	PP11RP218	686004	5447974	<0.5
PP11RP114	685375	5448276	1.1	PP11RP165	685701	5448226	<0.5	PP11RP219	685974	5447974	<0.5
PP11RP115	685352	5448277	5.6	PP11RP166	685677	5448227	2.2	PP11RP220	685951	5447976	3.2
PP11RP116	685323	5448274	3.7	PP11RP167	685650	5448227	<0.5	PP11RP221	685923	5447976	0.6
PP11RP117	685304	5448274	1.1	PP11RP168	685624	5448229	<0.5	PP11RP222	685900	5447977	0.5
PP11RP118	685277	5448272	2.5	PP11RP169	685598	5448225	<0.5	PP11RP223	685874	5447975	<0.5
PP11RP119	685250	5448275	5.7	PP11RP170	685576	5448225	<0.5	PP11RP224	685850	5447976	1
PP11RP120	685226	5448274	1.4	PP11RP171	685552	5448228	<0.5	PP11RP225	685824	5447973	<0.5
PP11RP121	685198	5448276	0.6	PP11RP172	685525	5448229	<0.5	PP11RP226	685798	5447976	<0.5
PP11RP122	685176	5448275	<0.5	PP11RP173	685500	5448227	4.8	PP11RP227	685773	5447973	1.2
PP11RP123	685151	5448276	<0.5	PP11RP174	685473	5448225	182.8	PP11RP228	685753	5447974	1
PP11RP124	685123	5448276	1.2	PP11RP175	685449	5448224	99.5	PP11RP229	685720	5447975	<0.5
PP11RP125	685103	5448275	31.8	PP11RP176	685428	5448220	<0.5	PP11RP230	685700	5447973	1.4
PP11RP126	685074	5448274	<0.5	PP11RP177	685399	5448224	1	PP11RP231	685675	5447973	<0.5
PP11RP127	685050	5448273	<0.5	PP11RP178	685372	5448225	1.4	PP11RP232	685655	5447973	7.7
PP11RP128	685026	5448274	1.9	PP11RP179	685350	5448224	4.6	PP11RP233	685627	5447970	0.7
no sample	684998	5448274		PP11RP180	685326	5448225	1.5	PP11RP234	685600	5447976	1.7
PP11RP129	686602	5448225	0.6	PP11RP181	685298	5448225	8.3	PP11RP235	685569	5447974	<0.5
PP11RP130	686576	5448224	<0.5	PP11RP182	685270	5448225	0.5	PP11RP236	685547	5447976	<0.5
PP11RP131	686552	5448221	<0.5	PP11RP183	685248	5448226	<0.5	PP11RP237	685522	5447972	<0.5
PP11RP132	686527	5448224	<0.5	PP11RP184	685228	5448228	8.7	PP11RP238	685501	5447972	0.6
PP11RP133	686504	5448222	<0.5	PP11RP185	685202	5448227	<0.5	PP11RP239	685472	5447973	2
PP11RP134	686477	5448221	<0.5	PP11RP186	685172	5448225	<0.5	PP11RP240	685451	5447973	1.5
PP11RP135	686456	5448227	0.5	PP11RP187	685149	5448221	0.7	PP11RP241	685424	5447976	1.3
PP11RP136	686432	5448229	<0.5	PP11RP188	685120	5448223	<0.5	PP11RP242	685400	5447974	16.3
PP11RP137	686404	5448219	<0.5	PP11RP189	685091	5448219	<0.5	PP11RP243	685370	5447975	1.2
PP11RP138	686373	5448232	9.4	PP11RP190	685072	5448225	1.3	PP11RP244	685347	5447973	3
PP11RP139	686349	5448224	5.8	PP11RP191	685049	5448224	0.7	PP11RP245	685324	5447971	19.6
PP11RP140	686327	5448226	<0.5	PP11RP192	685027	5448224	<0.5	PP11RP246	685301	5447974	4.1
PP11RP141	686303	5448230	1	PP11RP193	685001	5448226	15.7	PP11RP247	685275	5447976	1.8
PP11RP142	686272	5448227	4.9	PP11RP194	686600	5447978	0.5	PP11RP248	685250	5447972	4.6
PP11RP143	686248	5448229	2.6	PP11RP195	686575	5447975	0.6	PP11RP249	685228	5447975	3.9
PP11RP144	686228	5448218	<0.5	PP11RP196	686551	5447975	1.2	PP11RP250	685203	5447975	0.9
PP11RP145	686204	5448221	<0.5	PP11RP197	686529	5447976	1.3	PP11RP251	685174	5447974	2.8
PP11RP146	686171	5448221	<0.5	PP11RP198	686503	5447977	<0.5	PP11RP252	685150	5447974	0.6
PP11RP147	686152	5448225	<0.5	PP11RP199	686477	5447974	0.8	PP11RP253	685127	5447976	<0.5
PP11RP148	686127	5448223	<0.5	PP11RP200	686451	5447974	1.5	PP11RP254	685100	5447973	0.7
PP11RP149	686102	5448225	<0.5	PP11RP201	686426	5447972	<0.5	PP11RP255	685069	5447978	<0.5
PP11RP150	686073	5448226	<0.5	PP11RP202	686405	5447975	<0.5	PP11RP256	685049	5447977	0.8
PP11RP151	686051	5448224	0.7	PP11RP203	686379	5447973	<0.5	PP11RP257	685021	5447973	1.5
PP11RP152	686026	5448228	<0.5	PP11RP204	686356	5447974	0.6	PP11RP258	684998	5447975	1.4
PP11RP153	686005	5448222	<0.5	PP11RP205	686324	5447983	1.2	PP11RP259	686276	5447871	1.5

Sample	83Z10E	83Z10N	ppb Au	Sample	83Z10E	83Z10N	ppb Au	Sample	83Z10E	83Z10N	ppb Au
PP11RP260	686296	5447872	1.1	PP11RP314	686197	5447847	<0.5	PP11RP368	685749	5447925	2.5
PP11RP261	686331	5447877	1.8	PP11RP315	686225	5447847	<0.5	PP11RP369	685723	5447924	3
PP11RP262	686351	5447875	1	PP11RP316	686248	5447847	<0.5	PP11RP370	685702	5447927	1.5
PP11RP263	686372	5447880	0.6	PP11RP317	686273	5447854	<0.5	PP11RP371	685676	5447923	<0.5
PP11RP264	686398	5447878	<0.5	PP11RP318	685874	5447827	0.6	PP11RP372	685651	5447923	<0.5
PP11RP265	686427	5447878	1.5	PP11RP319	685855	5447824	<0.5	PP11RP373	685625	5447930	0.9
PP11RP266	686457	5447876	0.6	PP11RP320	685824	5447827	<0.5	PP11RP374	685601	5447925	1.5
PP11RP267	686472	5447874	1.1	PP11RP321	685798	5447828	<0.5	PP11RP375	685576	5447922	0.9
PP11RP268	686512	5447873	1.6	PP11RP322	685778	5447820	1.1	PP11RP376	685551	5447925	2
PP11RP269	686531	5447876	0.8	PP11RP323	685751	5447824	<0.5	PP11RP377	685528	5447923	<0.5
PP11RP270	686546	5447874	<0.5	PP11RP324	685730	5447823	<0.5	PP11RP378	685499	5447924	1.3
PP11RP271	686579	5447875	0.5	PP11RP325	685699	5447824	<0.5	PP11RP379	685472	5447922	0.9
PP11RP272	686599	5447875	<0.5	PP11RP326	685676	5447820	1.1	PP11RP380	685454	5447926	20.1
PP11RP273	686601	5447851	<0.5	PP11RP327	685647	5447824	0.9	PP11RP381	685419	5447921	2
PP11RP274	686576	5447849	<0.5	PP11RP328	685625	5447829	5.8	PP11RP382	685400	5447923	15.2
PP11RP275	686552	5447852	0.5	PP11RP329	685601	5447824	0.5	PP11RP383	685374	5447930	2.5
PP11RP276	686523	5447845	1.2	PP11RP330	685575	5447825	0.6	PP11RP384	685350	5447922	1.5
PP11RP277	686494	5447841	<0.5	PP11RP331	685545	5447828	<0.5	PP11RP385	685322	5447930	6.7
PP11RP278	686478	5447852	<0.5	PP11RP332	685525	5447829	0.6	PP11RP386	685301	5447925	9
PP11RP279	686451	5447847	<0.5	PP11RP333	685505	5447828	<0.5	PP11RP387	685271	5447925	2.8
PP11RP280	686426	5447850	<0.5	PP11RP334	685476	5447830	0.8	PP11RP388	685248	5447923	<0.5
PP11RP281	686400	5447850	0.7	PP11RP335	685451	5447823	<0.5	PP11RP389	685226	5447924	3.3
PP11RP282	686372	5447847	<0.5	PP11RP336	685421	5447830	1.4	PP11RP390	685196	5447927	15.2
PP11RP283	686348	5447851	<0.5	PP11RP337	685401	5447821	2.1	PP11RP391	685174	5447926	<0.5
PP11RP284	686331	5447854	0.8	PP11RP338	685377	5447827	2.2	PP11RP392	685149	5447923	<0.5
PP11RP285	686301	5447854	0.5	PP11RP339	685353	5447824	<0.5	PP11RP393	685126	5447925	1.8
PP11RP286	686250	5447876	0.8	PP11RP340	685322	5447820	<0.5	PP11RP394	685099	5447923	<0.5
PP11RP287	686223	5447879	<0.5	PP11RP341	685304	5447826	0.9	PP11RP395	685074	5447925	0.5
PP11RP288	686200	5447877	<0.5	PP11RP342	685277	5447826	2.2	PP11RP396	685049	5447918	<0.5
PP11RP289	686180	5447873	<0.5	PP11RP343	685254	5447827	<0.5	PP11RP397	685021	5447920	<0.5
PP11RP290	686153	5447876	<0.5	PP11RP344	685224	5447825	2.9	PP11RP398	685002	5447925	<0.5
PP11RP291	686123	5447878	<0.5	PP11RP345	685206	5447828	1	PP11RP399	686599	5448126	<0.5
PP11RP292	686101	5447882	<0.5	PP11RP346	685174	5447824	4.1	PP11RP400	686567	5448129	<0.5
PP11RP293	686073	5447874	0.9	PP11RP347	685152	5447825	<0.5	PP11RP401	686551	5448124	<0.5
PP11RP294	686050	5447875	<0.5	PP11RP348	685125	5447827	0.7	PP11RP402	686525	5448125	<0.5
PP11RP295	686022	5447868	<0.5	PP11RP349	685098	5447826	<0.5	PP11RP403	686496	5448126	<0.5
PP11RP296	686002	5447876	<0.5	PP11RP350	685075	5447822	<0.5	PP11RP404	686474	5448126	0.9
PP11RP297	685975	5447874	1.5	PP11RP351	685048	5447825	<0.5	PP11RP405	686453	5448121	1.9
PP11RP298	685952	5447878	<0.5	PP11RP352	685023	5447826	<0.5	PP11RP406	686427	5448125	<0.5
PP11RP299	685922	5447876	4.3	PP11RP353	684998	5447828	<0.5	PP11RP407	686401	5448127	<0.5
PP11RP300	685902	5447877	<0.5	PP11RP354	684993	5447775	<0.5	PP11RP408	686373	5448123	<0.5
PP11RP301	685875	5447873	1.3	PP11RP355	685026	5447774	0.8	PP11RP409	686350	5448126	<0.5
PP11RP302	685897	5447847	<0.5	PP11RP356	685051	5447775	1.4	PP11RP410	686326	5448127	5.9
PP11RP303	685927	5447855	2.4	PP11RP357	685075	5447775	<0.5	PP11RP411	686295	5448121	6.1
PP11RP304	685953	5447855	<0.5	PP11RP358	685100	5447775	<0.5	PP11RP412	686271	5448123	<0.5
PP11RP305	685977	5447848	<0.5	PP11RP359	685124	5447775	0.6	PP11DH001	686599	5448418	0.8
PP11RP306	685998	5447847	<0.5	PP11RP360	685151	5447775	2.6	PP11DH002	686576	5448426	1.1
PP11RP307	686025	5447858	<0.5	PP11RP361	685175	5447775	<0.5	PP11DH003	686552	5448424	2.1
PP11RP308	686049	5447853	<0.5	PP11RP362	685198	5447775	<0.5	PP11DH004	686526	5448428	3.4
PP11RP309	686077	5447854	<0.5	PP11RP363	685875	5447924	<0.5	PP11DH005	686499	5448427	0.6
PP11RP310	686100	5447852	<0.5	PP11RP364	685843	5447929	0.6	PP11DH006	686474	5448421	1.2
PP11RP311	686126	5447849	<0.5	PP11RP365	685823	5447925	<0.5	PP11DH007	686453	5448422	0.7
PP11RP312	686145	5447849	<0.5	PP11RP366	685805	5447921	<0.5	PP11DH008	686424	5448411	0.9
PP11RP313	686177	5447852	<0.5	PP11RP367	685774	5447927	0.6	PP11DH009	686400	5448417	0.8

Sample	83Z10E	83Z10N	ppb Au	Sample	83Z10E	83Z10N	ppb Au	Sample	83Z10E	83Z10N	ppb Au
PP11DH010	686375	5448415	0.7	PP11DH064	684999	5448425	2.1	PP11DH118	685275	5448325	1.9
PP11DH011	686350	5448420	0.9	PP11DH065	686600	5448325	1.5	PP11DH119	685250	5448325	1
PP11DH012	686326	5448419	0.8	PP11DH066	686573	5448324	4.6	PP11DH120	685225	5448325	1.2
PP11DH013	686298	5448423	0.5	PP11DH067	686550	5448325	1.8	PP11DH121	685200	5448325	3.7
PP11DH014	686274	5448426	1	PP11DH068	686525	5448324	1.2	PP11DH122	685175	5448325	1.3
PP11DH015	686248	5448428	1.6	PP11DH069	686500	5448325	1.1	PP11DH123	685150	5448325	6.4
PP11DH016	686226	5448427	1.4	PP11DH070	686474	5448326	5.2	PP11DH124	685125	5448325	1.2
PP11DH017	686200	5448420	0.7	PP11DH071	686451	5448325	2	PP11DH125	685101	5448326	0.9
PP11DH018	686171	5448414	<0.5	PP11DH072	686426	5448325	3	PP11DH126	685073	5448323	<0.5
PP11DH019	686148	5448414	<0.5	PP11DH073	686399	5448324	0.7	PP11DH127	685048	5448326	<0.5
PP11DH020	686125	5448414	<0.5	PP11DH074	686375	5448325	<0.5	PP11DH128	685026	5448326	<0.5
PP11DH021	686100	5448413	1.4	PP11DH075	686350	5448324	1.5	PP11DH129	685000	5448325	3.7
PP11DH022	686074	5448410	0.8	PP11DH076	686322	5448320	<0.5	PP11DH130	686600	5448175	<0.5
PP11DH023	686051	5448426	0.6	PP11DH077	686299	5448324	<0.5	PP11DH131	686575	5448174	0.7
PP11DH024	686024	5448425	0.6	PP11DH078	686275	5448325	<0.5	PP11DH132	686550	5448175	<0.5
PP11DH025	685997	5448422	0.6	PP11DH079	686250	5448325	<0.5	PP11DH133	686525	5448174	<0.5
PP11DH026	685973	5448424	1.4	PP11DH080	686225	5448324	0.7	PP11DH134	686500	5448176	2.5
PP11DH027	685950	5448424	9	PP11DH081	686200	5448327	<0.5	PP11DH135	686475	5448175	<0.5
PP11DH028	685925	5448424	<0.5	PP11DH082	686174	5448325	2.5	PP11DH136	686450	5448175	3.9
PP11DH029	685875	5448417	0.7	PP11DH083	686151	5448325	0.5	PP11DH137	686425	5448175	2.7
PP11DH030	685850	5448425	<0.5	PP11DH084	686125	5448325	0.9	PP11DH138	686400	5448174	1.4
PP11DH031	685824	5448423	0.6	PP11DH085	686100	5448324	<0.5	PP11DH139	686376	5448175	<0.5
PP11DH032	685800	5448423	0.6	PP11DH086	686075	5448325	<0.5	PP11DH140	686349	5448176	1
PP11DH033	685775	5448421	0.9	PP11DH087	686051	5448325	<0.5	PP11DH141	686324	5448175	<0.5
PP11DH034	685749	5448422	0.6	PP11DH088	686025	5448325	<0.5	PP11DH142	686301	5448175	10.5
PP11DH035	685723	5448423	0.6	PP11DH089	686000	5448325	0.8	PP11DH143	686275	5448175	<0.5
PP11DH036	685700	5448425	0.6	PP11DH090	685976	5448324	<0.5	PP11DH144	686250	5448175	<0.5
PP11DH037	685677	5448420	2.2	PP11DH091	685949	5448325	<0.5	PP11DH145	686225	5448175	<0.5
PP11DH038	685648	5448422	3.9	PP11DH092	685925	5448325	<0.5	PP11DH146	686200	5448174	<0.5
PP11DH039	685626	5448424	1.5	PP11DH093	685900	5448325	5.3	PP11DH147	686175	5448175	<0.5
PP11DH040	685602	5448424	3.8	PP11DH094	685875	5448325	6.4	PP11DH148	686150	5448174	<0.5
PP11DH041	685576	5448424	3.2	PP11DH095	685850	5448325	0.9	PP11DH149	686124	5448176	<0.5
PP11DH042	685550	5448425	2.7	PP11DH096	685824	5448325	<0.5	PP11DH150	686101	5448175	7.5
PP11DH043	685524	5448426	3.5	PP11DH097	685807	5448315	<0.5	PP11DH151	686074	5448175	1.6
PP11DH044	685500	5448425	3	PP11DH098	685775	5448324	0.6	PP11DH152	686051	5448177	1
PP11DH045	685473	5448426	3.3	PP11DH099	685751	5448326	<0.5	PP11DH153	686023	5448175	1.7
PP11DH046	685450	5448426	2.3	PP11DH100	685725	5448326	<0.5	PP11DH154	685999	5448175	0.7
PP11DH047	685425	5448424	0.7	PP11DH101	685699	5448324	<0.5	PP11DH155	685975	5448174	<0.5
PP11DH048	685400	5448425	2.1	PP11DH102	685674	5448327	0.7	PP11DH156	685950	5448174	1.6
PP11DH049	685375	5448424	1	PP11DH103	685649	5448325	<0.5	PP11DH157	685925	5448174	1.9
PP11DH050	685351	5448424	4.1	PP11DH104	685625	5448325	<0.5	PP11DH158	685900	5448177	0.8
PP11DH051	685326	5448426	2.7	PP11DH105	685600	5448325	<0.5	PP11DH159	685874	5448174	0.9
PP11DH052	685302	5448425	3.4	PP11DH106	685574	5448326	<0.5	PP11DH160	685850	5448175	<0.5
PP11DH053	685275	5448425	3.9	PP11DH107	685550	5448325	1.3	PP11DH161	685825	5448174	1.1
PP11DH054	685251	5448425	3.4	PP11DH108	685525	5448324	<0.5	PP11DH162	685801	5448175	<0.5
PP11DH055	685224	5448424	4.9	PP11DH109	685500	5448325	3.2	PP11DH163	685775	5448175	<0.5
PP11DH056	685200	5448425	5.4	PP11DH110	685475	5448325	2.3	PP11DH164	685750	5448175	<0.5
PP11DH057	685171	5448421	3.3	PP11DH111	685450	5448325	1.3	PP11DH165	685726	5448175	<0.5
PP11DH058	685151	5448424	1.1	PP11DH112	685425	5448325	14.3	PP11DH166	685701	5448176	1.1
PP11DH059	685125	5448424	1.4	PP11DH113	685401	5448325	2.1	PP11DH167	685675	5448175	1
PP11DH060	685100	5448424	1.9	PP11DH114	685375	5448325	1.4	PP11DH168	685649	5448176	2.3
PP11DH061	685075	5448424	1.3	PP11DH115	685350	5448326	1	PP11DH169	685625	5448174	5.8
PP11DH062	685051	5448425	2.9	PP11DH116	685325	5448325	1.7	PP11DH170	685600	5448175	3.9
PP11DH063	685024	5448425	1.2	PP11DH117	685301	5448325	0.8	PP11DH171	685575	5448175	6.6

Sample	83Z10E	83Z10N	ppb Au	Sample	83Z10E	83Z10N	ppb Au	Sample	83Z10E	83Z10N	ppb Au
PP11DH172	685550	5448175	1.4	PP11DH226	685826	5448075	2	PP11DH280	686425	5447925	0.6
PP11DH173	685525	5448174	1.7	PP11DH227	685799	5448075	1.8	PP11DH281	686400	5447925	3.6
PP11DH174	685501	5448175	7.3	PP11DH228	685776	5448075	2.6	PP11DH282	686376	5447925	1.2
PP11DH175	685476	5448175	1.7	PP11DH229	685749	5448075	<0.5	PP11DH283	686352	5447925	<0.5
PP11DH176	685454	5448176	1.6	PP11DH230	685724	5448076	<0.5	PP11DH284	686325	5447924	1.2
PP11DH177	685425	5448175	6	PP11DH231	685699	5448075	3.5	PP11DH285	686301	5447925	0.9
PP11DH178	685401	5448175	1.8	PP11DH232	685675	5448075	0.9	PP11DH286	686273	5447950	0.8
PP11DH179	685375	5448175	31.8	PP11DH233	685651	5448075	2.7	PP11DH287	686246	5447952	1.8
PP11DH180	685350	5448175	1	PP11DH234	685625	5448075	<0.5	PP11DH288	686224	5447950	1.9
PP11DH181	685325	5448176	1.8	PP11DH235	685600	5448075	1.2	PP11DH289	686200	5447946	0.7
PP11DH182	685300	5448175	48.5	PP11DH236	685574	5448074	52.2	PP11DH290	686176	5447951	0.7
PP11DH183	685274	5448176	5.4	PP11DH237	685551	5448075	2.5	PP11DH291	686144	5447950	<0.5
PP11DH184	685250	5448174	0.7	PP11DH238	685526	5448075	<0.5	PP11DH292	686124	5447951	<0.5
PP11DH185	685225	5448175	0.7	PP11DH239	685500	5448075	2	PP11DH293	686101	5447948	1.2
PP11DH186	685200	5448175	1.2	PP11DH240	685475	5448075	3.6	PP11DH294	686074	5447949	0.7
PP11DH187	685176	5448176	<0.5	PP11DH241	685450	5448076	18.4	PP11DH295	686051	5447951	<0.5
PP11DH188	685151	5448176	<0.5	PP11DH242	685424	5448075	2.2	PP11DH296	686025	5447954	<0.5
PP11DH189	685125	5448176	1.3	PP11DH243	685399	5448075	9.3	PP11DH297	686000	5447951	<0.5
PP11DH190	685102	5448177	<0.5	PP11DH244	685375	5448075	1.1	PP11DH298	685976	5447950	15.6
PP11DH191	685073	5448176	0.5	PP11DH245	685350	5448075	7.7	PP11DH299	685951	5447949	1.5
PP11DH192	685051	5448176	1.5	PP11DH246	685324	5448075	3.5	PP11DH300	685926	5447949	<0.5
PP11DH193	685024	5448176	0.6	PP11DH247	685301	5448075	5.7	PP11DH301	685900	5447951	<0.5
PP11DH194	685000	5448175	0.7	PP11DH248	685274	5448075	3.8	PP11DH302	685900	5447926	<0.5
PP11DH195	686601	5448075	<0.5	PP11DH249	685250	5448075	4.4	PP11DH303	685926	5447925	6
PP11DH196	686576	5448075	2.4	PP11DH250	685225	5448074	11.3	PP11DH304	685950	5447925	1.1
PP11DH197	686551	5448075	0.7	PP11DH251	685201	5448075	59.3	PP11DH305	685976	5447925	<0.5
PP11DH198	686526	5448074	1.5	PP11DH252	685175	5448076	0.8	PP11DH306	686002	5447924	2.1
PP11DH199	686501	5448075	1.6	PP11DH253	685150	5448075	10	PP11DH307	686026	5447924	0.6
PP11DH200	686475	5448076	1.1	PP11DH254	685124	5448076	4	PP11DH308	686050	5447924	0.5
PP11DH201	686449	5448075	3.2	PP11DH255	685100	5448075	1	PP11DH309	686074	5447923	1
PP11DH202	686425	5448075	0.9	PP11DH256	685075	5448074	2	PP11DH310	686101	5447925	0.8
PP11DH203	686400	5448075	0.8	PP11DH257	685050	5448075	<0.5	PP11DH311	686124	5447924	1.1
PP11DH204	686374	5448074	1.9	PP11DH258	685025	5448075	<0.5	PP11DH312	686150	5447923	0.9
PP11DH205	686348	5448074	2.1	PP11DH259	685000	5448075	0.9	PP11DH313	686177	5447925	4.2
PP11DH206	686325	5448076	0.6	PP11DH260	686301	5447951	2.6	PP11DH314	686201	5447926	0.6
PP11DH207	686300	5448075	<0.5	PP11DH261	686324	5447950	3.4	PP11DH315	686227	5447923	0.9
PP11DH208	686276	5448075	1.5	PP11DH262	686351	5447951	5.6	PP11DH316	686249	5447925	<0.5
PP11DH209	686251	5448075	0.7	PP11DH263	686375	5447949	2.6	PP11DH317	686277	5447924	0.7
PP11DH210	686226	5448076	1	PP11DH264	686400	5447951	6	PP11DH318	685877	5447725	0.5
PP11DH211	686201	5448075	0.9	PP11DH265	686425	5447950	5.2	PP11DH319	685850	5447725	0.5
PP11DH212	686175	5448074	3.1	PP11DH266	686449	5447950	2.5	PP11DH320	685826	5447729	1.1
PP11DH213	686150	5448076	0.7	PP11DH267	686474	5447950	7.1	PP11DH321	685802	5447726	1
PP11DH214	686125	5448074	8.4	PP11DH268	686499	5447950	2.8	PP11DH322	685773	5447725	<0.5
PP11DH215	686096	5448080	3.3	PP11DH269	686525	5447950	2.2	PP11DH323	685749	5447724	1
PP11DH216	686076	5448076	37.8	PP11DH270	686550	5447950	2.7	PP11DH324	685725	5447727	<0.5
PP11DH217	686050	5448076	1.2	PP11DH271	686576	5447950	<0.5	PP11DH325	685701	5447726	0.9
PP11DH218	686025	5448077	0.7	PP11DH272	686600	5447950	<0.5	PP11DH326	685675	5447725	0.6
PP11DH219	686001	5448075	3.2	PP11DH273	686600	5447925	<0.5	PP11DH327	685648	5447725	2
PP11DH220	685975	5448075	1.3	PP11DH274	686576	5447925	0.8	PP11DH328	685626	5447724	2.2
PP11DH221	685950	5448074	1.1	PP11DH275	686550	5447925	<0.5	PP11DH329	685601	5447725	0.9
PP11DH222	685926	5448075	0.6	PP11DH276	686524	5447924	<0.5	PP11DH330	685575	5447726	1.8
PP11DH223	685900	5448076	2.2	PP11DH277	686501	5447925	0.5	PP11DH331	685551	5447725	1.2
PP11DH224	685876	5448075	<0.5	PP11DH278	686473	5447925	1.6	PP11DH332	685521	5447720	I.S.
PP11DH225	685851	5448074	2	PP11DH279	686450	5447925	1.5	PP11DH333	685496	5447718	I.S.

Sample	83Z10E	83Z10N	ppb Au	Sample	83Z10E	83Z10N	ppb Au	Sample	83Z10E	83Z10N	ppb Au
PP11DH334	685475	5447718	2.3	PP11DH388	685025	5447950	2.4	PP11MP053	686119	5448375	2.6
PP11DH335	685452	5447726	4.6	PP11DH389	685000	5447950	2.9	PP11MP054	686095	5448379	0.9
PP11DH336	685424	5447724	0.9	PP11MP001	685801	5448374	0.5	PP11MP055	686072	5448376	<0.5
PP11DH337	685402	5447725	I.S.	PP11MP002	685779	5448374	<0.5	PP11MP056	686052	5448375	<0.5
PP11DH338	685374	5447723	2.4	PP11MP003	685761	5448366	<0.5	PP11MP057	686022	5448374	<0.5
PP11DH339	685350	5447724	1	PP11MP004	685718	5448372	<0.5	PP11MP058	685997	5448373	<0.5
PP11DH340	685325	5447721	4.2	PP11MP005	685697	5448376	2.2	PP11MP059	685971	5448374	0.9
PP11DH341	685299	5447725	2.1	PP11MP006	685680	5448396	<0.5	PP11MP060	685947	5448370	<0.5
PP11DH342	685276	5447725	5.3	PP11MP007	685651	5448374	<0.5	PP11MP061	685926	5448371	4
PP11DH343	685251	5447725	1.7	PP11MP008	685625	5448383	<0.5	PP11MP062	685890	5448371	<0.5
PP11DH344	685226	5447725	3.1	PP11MP009	685600	5448371	1.1	PP11MP063	685866	5448375	4.7
PP11DH345	685199	5447725	1.6	PP11MP010	685576	5448377	<0.5	PP11MP064	685846	5448377	<0.5
PP11DH346	685176	5447725	4.9	PP11MP011	685547	5448376	<0.5	PP11MP065	685822	5448382	<0.5
PP11DH347	685149	5447725	<0.5	PP11MP012	685526	5448376	0.7	PP11MP066	685773	5448251	<0.5
PP11DH348	685125	5447726	1.1	PP11MP013	685498	5448375	0.5	PP11MP067	685747	5448249	<0.5
PP11DH349	685102	5447725	<0.5	PP11MP014	685476	5448376	<0.5	PP11MP068	685727	5448252	<0.5
PP11DH350	685076	5447725	1.9	PP11MP015	685446	5448373	1.7	PP11MP069	685713	5448249	0.5
PP11DH351	685050	5447724	2.1	PP11MP016	685419	5448376	0.5	PP11MP070	685674	5448252	1.2
PP11DH352	685027	5447725	3.3	PP11MP017	685399	5448375	<0.5	PP11MP071	685652	5448253	<0.5
PP11DH353	684999	5447725	8.6	PP11MP018	685381	5448375	0.6	PP11MP072	685627	5448249	3.2
PP11DH354	685875	5447950	1.1	PP11MP019	685339	5448371	0.6	PP11MP073	685599	5448253	2.2
PP11DH355	685850	5447950	1.1	PP11MP020	685315	5448375	<0.5	PP11MP074	685569	5448249	0.7
PP11DH356	685824	5447949	<0.5	PP11MP021	685297	5448373	0.9	PP11MP075	685548	5448250	1.1
PP11DH357	685801	5447950	1.1	PP11MP022	685276	5448374	27.5	PP11MP076	685519	5448250	7.6
PP11DH358	685775	5447951	0.5	PP11MP023	685249	5448377	1.1	PP11MP077	685496	5448249	1.4
PP11DH359	685750	5447951	1.3	PP11MP024	685228	5448374	0.6	PP11MP078	685475	5448250	2.8
PP11DH360	685725	5447950	22.3	PP11MP025	685203	5448371	1.7	PP11MP079	685458	5448250	4.9
PP11DH361	685701	5447950	2.2	PP11MP026	685170	5448376	3.7	PP11MP080	685415	5448253	19.7
PP11DH362	685674	5447950	4.5	PP11MP027	685147	5448375	<0.5	PP11MP081	685400	5448251	6.3
PP11DH363	685649	5447951	3.3	PP11MP028	685119	5448384	0.5	PP11MP082	685372	5448239	20.1
PP11DH364	685626	5447950	11.1	PP11MP029	685099	5448372	0.7	PP11MP083	685345	5448250	101.4
PP11DH365	685599	5447951	<0.5	PP11MP030	685067	5448374	<0.5	PP11MP084	685321	5448254	<0.5
PP11DH366	685575	5447949	3.3	PP11MP031	685043	5448379	<0.5	PP11MP085	685298	5448251	3.1
PP11DH367	685550	5447950	3.5	PP11MP032	685017	5448375	0.6	PP11MP086	685275	5448254	360.5
PP11DH368	685525	5447951	3.9	PP11MP033	684991	5448372	0.7	PP11MP087	685253	5448249	5.5
PP11DH369	685500	5447949	<0.5	PP11MP034	686602	5448376	0.5	PP11MP088	685223	5448248	8.7
PP11DH370	685474	5447951	1.7	PP11MP035	686575	5448373	1	PP11MP089	685201	5448250	1.1
PP11DH371	685450	5447950	2.4	PP11MP036	686551	5448380	<0.5	PP11MP090	685172	5448251	3.6
PP11DH372	685424	5447951	5.5	PP11MP037	686521	5448372	<0.5	PP11MP091	685150	5448252	1.7
PP11DH373	685400	5447950	2.9	PP11MP038	686502	5448382	0.9	PP11MP092	685123	5448247	0.5
PP11DH374	685375	5447951	1.8	PP11MP039	686471	5448376	<0.5	PP11MP093	685100	5448248	1.1
PP11DH375	685352	5447950	2	PP11MP040	686444	5448368	<0.5	PP11MP094	685076	5448252	<0.5
PP11DH376	685325	5447950	8.1	PP11MP041	686428	5448374	<0.5	PP11MP095	685049	5448250	<0.5
PP11DH377	685302	5447950	65.8	PP11MP042	686396	5448371	<0.5	PP11MP096	685029	5448248	2.3
PP11DH378	685275	5447950	1.7	PP11MP043	686369	5448369	<0.5	PP11MP097	685006	5448244	1.4
PP11DH379	685251	5447950	4.2	PP11MP044	686350	5448368	0.5	PP11MP098	686602	5448146	1
PP11DH380	685224	5447951	10.2	PP11MP045	686319	5448368	<0.5	PP11MP099	686573	5448154	<0.5
PP11DH381	685201	5447950	5.4	PP11MP046	686291	5448374	<0.5	PP11MP100	686549	5448149	<0.5
PP11DH382	685174	5447950	3.5	PP11MP047	686281	5448374	<0.5	PP11MP101	686527	5448153	1.6
PP11DH383	685150	5447951	2.8	PP11MP048	686253	5448379	<0.5	PP11MP102	686502	5448149	<0.5
PP11DH384	685124	5447950	1.9	PP11MP049	686218	5448374	1.2	PP11MP103	686478	5448155	2.2
PP11DH385	685101	5447950	1.7	PP11MP050	686197	5448376	<0.5	PP11MP104	686445	5448149	3.5
PP11DH386	685075	5447950	2.7	PP11MP051	686173	5448371	<0.5	PP11MP105	686425	5448149	2.3
PP11DH387	685050	5447951	2	PP11MP052	686150	5448369	1.6	PP11MP106	686392	5448148	0.6

Sample	83Z10E	83Z10N	ppb Au	Sample	83Z10E	83Z10N	ppb Au	Sample	83Z10E	83Z10N	ppb Au
PP11MP107	686365	5448157	<0.5	PP11MP161	685022	5448158	<0.5	PP11MP215	685388	5448022	1.1
PP11MP108	686346	5448149	<0.5	PP11MP162	685006	5448157	<0.5	PP11MP216	685359	5448020	0.9
PP11MP109	686326	5448153	1.1	PP11MP163	685000	5448122	<0.5	PP11MP217	685341	5448025	1.9
PP11MP110	686297	5448154	2.1	PP11MP164	685027	5448132	<0.5	PP11MP218	685323	5448023	1.1
PP11MP111	686266	5448163	1.3	PP11MP165	685050	5448124	<0.5	PP11MP219	685299	5448020	1.7
PP11MP112	686246	5448153	1.2	PP11MP166	685072	5448130	<0.5	PP11MP220	685273	5448024	0.7
PP11MP113	686228	5448155	<0.5	PP11MP167	686591	5448029	<0.5	PP11MP221	685246	5448027	11.8
PP11MP114	686195	5448158	0.7	PP11MP168	686579	5448028	1.1	PP11MP222	685221	5448022	1.1
PP11MP115	686176	5448151	0.9	PP11MP169	686548	5448025	<0.5	PP11MP223	685198	5448027	2.8
PP11MP116	686151	5448149	<0.5	PP11MP170	686517	5448021	<0.5	PP11MP224	685172	5448024	2.7
PP11MP117	686122	5448150	<0.5	PP11MP171	686500	5448024	<0.5	PP11MP225	685145	5448020	1.1
PP11MP118	686100	5448152	0.8	PP11MP172	686474	5448026	<0.5	PP11MP226	685122	5448028	5.3
PP11MP119	686074	5448152	0.8	PP11MP173	686451	5448024	<0.5	PP11MP227	685100	5448025	1.6
PP11MP120	686049	5448159	<0.5	PP11MP174	686430	5448023	1.3	PP11MP228	685070	5448024	<0.5
PP11MP121	686028	5448150	2.7	PP11MP175	686401	5448020	<0.5	PP11MP229	685045	5448026	<0.5
PP11MP122	685999	5448150	0.7	PP11MP176	686374	5448024	<0.5	PP11MP230	685018	5448023	3.4
PP11MP123	685975	5448146	1.9	PP11MP177	686349	5448024	<0.5	PP11MP231	685000	5448026	<0.5
PP11MP124	685960	5448152	1	PP11MP178	686326	5448022	0.8	PP11MP232	686336	5447749	0.7
PP11MP125	685923	5448155	<0.5	PP11MP179	686302	5448025	<0.5	PP11MP233	686336	5447752	<0.5
PP11MP126	685901	5448150	0.6	PP11MP180	686276	5448028	<0.5	PP11MP234	686378	5447757	<0.5
PP11MP127	685874	5448146	<0.5	PP11MP181	686249	5448023	<0.5	PP11MP235	686395	5447754	<0.5
PP11MP128	685852	5448153	<0.5	PP11MP182	686223	5448041	4.8	PP11MP236	686418	5447750	<0.5
PP11MP129	685829	5448157	<0.5	PP11MP183	686192	5448037	4.7	PP11MP237	686452	5447761	<0.5
PP11MP130	685802	5448159	<0.5	PP11MP184	686179	5448026	1.5	PP11MP238	686475	5447752	<0.5
PP11MP131	685775	5448152	<0.5	PP11MP185	686148	5448022	<0.5	PP11MP239	686498	5447750	<0.5
PP11MP132	685754	5448152	<0.5	PP11MP186	686121	5448031	<0.5	PP11MP240	686529	5447755	<0.5
PP11MP133	685728	5448150	<0.5	PP11MP187	686100	5448030	<0.5	PP11MP241	686554	5447751	<0.5
PP11MP134	658703	5448158	<0.5	PP11MP188	686069	5448020	0.8	PP11MP242	686577	5447751	<0.5
PP11MP135	685674	5448147	<0.5	PP11MP189	686044	5448021	<0.5	PP11MP243	686595	5447743	<0.5
PP11MP136	685647	5448142	0.9	PP11MP190	686026	5448023	<0.5	PP11MP244	686598	5447725	<0.5
PP11MP137	685620	5448143	0.6	PP11MP191	686001	5448029	<0.5	PP11MP245	686563	5447723	1.4
PP11MP138	685595	5448154	2	PP11MP192	685975	5448025	1.3	PP11MP246	686551	5447728	<0.5
PP11MP139	685575	5448149	1.9	PP11MP193	685950	5448025	0.9	PP11MP247	686519	5447722	<0.5
PP11MP140	685546	5448151	1.3	PP11MP194	685921	5448024	1.6	PP11MP248	686491	5447722	<0.5
PP11MP141	685523	5448154	<0.5	PP11MP195	685900	5448028	1.3	PP11MP249	686471	5447722	<0.5
PP11MP142	685506	5448152	1.6	PP11MP196	685877	5448027	0.6	PP11MP250	686443	5447729	<0.5
PP11MP143	685481	5448154	<0.5	PP11MP197	685858	5448030	<0.5	PP11MP251	686409	5447726	1.1
PP11MP144	685449	5448149	1.8	PP11MP198	685826	5448026	<0.5	PP11MP252	686396	5447733	1.2
PP11MP145	685427	5448152	1.9	PP11MP199	685797	5448026	<0.5	PP11MP253	686377	5447728	<0.5
PP11MP146	685403	5448150	18.1	PP11MP200	685769	5448022	<0.5	PP11MP254	686355	5447735	<0.5
PP11MP147	685370	5448148	0.8	PP11MP201	685748	5448024	<0.5	PP11MP255	686328	5447724	<0.5
PP11MP148	685345	5448148	<0.5	PP11MP202	685724	5448022	<0.5	PP11MP256	686296	5447722	0.5
PP11MP149	685327	5448152	<0.5	PP11MP203	685697	5448024	0.6	PP11MP257	686271	5447720	<0.5
PP11MP150	685300	5448158	4.9	PP11MP204	685673	5448026	1.3	PP11MP258	686235	5447727	<0.5
PP11MP151	685273	5448150	9.8	PP11MP205	685651	5448028	1	PP11MP259	686217	5447726	<0.5
PP11MP152	685248	5448152	0.8	PP11MP206	685626	5448023	0.6	PP11MP260	686187	5447730	1.4
PP11MP153	685223	5448147	2.2	PP11MP207	685595	5448025	1.4	PP11MP261	686168	5447723	<0.5
PP11MP154	685197	5448150	1	PP11MP208	685572	5448026	1.2	PP11MP262	686145	5447718	<0.5
PP11MP155	685171	5448149	<0.5	PP11MP209	685544	5448021	0.9	PP11MP263	686125	5447724	<0.5
PP11MP156	685151	5448145	<0.5	PP11MP210	685525	5448024	4.7	PP11MP264	686110	5447725	1.9
PP11MP157	685131	5448147	<0.5	PP11MP211	685502	5448021	1.4	PP11MP265	686070	5447717	0.9
PP11MP158	685099	5448150	<0.5	PP11MP212	685474	5448031	0.5	PP11MP266	686045	5447735	<0.5
PP11MP159	685070	5448150	<0.5	PP11MP213	685452	5448025	6.7	PP11MP267	686024	5447711	<0.5
PP11MP160	685051	5448154	<0.5	PP11MP214	685423	5448018	16.3	PP11MP268	686002	5447726	<0.5

Sample	83Z10E	83Z10N	ppb Au	Sample	83Z10E	83Z10N	ppb Au	Sample	83Z10E	83Z10N	ppb Au
PP11MP269	685972	5447711	<0.5	PP11MP319	685054	5447753	0.6				
PP11MP270	685950	5447727	<0.5	PP11MP320	685027	5447752	5				
PP11MP271	685925	5447722	<0.5	PP11MP321	684995	5447754	3.7				
PP11MP272	685900	5447714	<0.5	PP11MP322	685849	5447884	<0.5				
PP11MP273	685899	5447752	0.8	PP11MP323	685819	5447876	0.9				
PP11MP274	685935	5447751	1	PP11MP324	685798	5447883	<0.5				
PP11MP275	685955	5447748	<0.5	PP11MP325	685772	5447876	<0.5				
PP11MP276	685978	5447749	<0.5	PP11MP326	685747	5447872	<0.5				
PP11MP277	686012	5447754	0.8	PP11MP327	685719	5447873	1.2				
PP11MP278	686038	5447747	<0.5	PP11MP328	685695	5447874	<0.5				
PP11MP279	686054	5447748	0.8	PP11MP329	685671	5447876	<0.5				
PP11MP280	686080	5447753	5.1	PP11MP330	685652	5447877	1				
PP11MP281	686100	5447752	<0.5	PP11MP331	685625	5447876	<0.5				
PP11MP282	686137	5447752	<0.5	PP11MP332	685598	5447876	<0.5				
no sample	686191	5447745		PP11MP333	685577	5447875	0.6				
no sample	686203	5447742		PP11MP334	685548	5447875	2.2				
no sample	686203	5447742		PP11MP335	685518	5447875	<0.5				
no sample	686225	5447737		PP11MP336	685497	5447873	<0.5				
PP11MP283	686254	5447755	1.7	PP11MP337	685465	5447874	0.9				
PP11MP284	686273	5447755	2	PP11MP338	685454	5447863	<0.5				
PP11MP285	686300	5447759	0.7	PP11MP339	685423	5447872	<0.5				
PP11MP286	685874	5447747	0.9	PP11MP340	685392	5447862	87.5				
PP11MP287	685848	5447745	<0.5	PP11MP341	685373	5447872	4.6				
PP11MP288	685817	5447736	<0.5	PP11MP342	685347	5447878	1.6				
PP11MP289	685800	5447746	0.7	PP11MP343	685319	5447873	1.3				
PP11MP290	685766	5447749	<0.5	PP11MP344	685291	5447878	6.9				
PP11MP291	685748	5447747	<0.5	PP11MP345	685268	5447874	1				
PP11MP292	685712	5447743	1.6	PP11MP346	685246	5447876	4.7				
PP11MP293	685695	5447749	2.1	PP11MP347	685217	5447876	8.9				
PP11MP294	685670	5447748	1.9	PP11MP348	685194	5447873	<0.5				
PP11MP295	685652	5447748	0.8	PP11MP349	685172	5447871	4				
PP11MP296	685621	5447757	2.7	PP11MP350	685148	5447879	1.1				
PP11MP297	685595	5447751	<0.5	PP11MP351	685125	5447872	1.3				
PP11MP298	685568	5447748	<0.5	PP11MP352	685103	5447874	2.5				
PP11MP299	685543	5447751	<0.5	PP11MP353	685075	5447880	<0.5				
PP11MP300	685525	5447752	<0.5	PP11MP354	685051	5447877	<0.5				
PP11MP301	685507	5447752	<0.5	PP11MP355	685023	5447880	<0.5				
PP11MP302	685472	5447750	<0.5	PP11MP356	685004	5447871	7.8				
PP11MP303	685450	5447750	<0.5	PP11MP357	686250	5448121	<0.5				
PP11MP304	685424	5447744	8.7	PP11MP358	686221	5448120	<0.5				
PP11MP305	685403	5447741	0.6	PP11MP359	686197	5448127	<0.5				
PP11MP306	685369	5447749	0.5	PP11MP360	686181	5448123	2.1				
PP11MP307	685346	5447751	0.6	PP11MP361	686150	5448120	<0.5				
PP11MP308	685326	5447752	1.7	PP11MP362	686125	5448126	<0.5				
PP11MP309	685298	5447747	1.2	PP11MP363	686103	5448126	<0.5				
PP11MP310	685272	5447747	<0.5	PP11MP364	686076	5448125	<0.5				
PP11MP311	685238	5447741	<0.5	PP11MP365	686054	5448126	<0.5				
PP11MP312	685223	5447752	0.7	PP11MP366	686027	5448128	<0.5				
PP11MP313	685201	5447755	1.5								
PP11MP314	685178	5447749	1.8								
PP11MP315	685148	5447746	1.1								
PP11MP316	685121	5447747	<0.5								
PP11MP317	685099	5447748	0.6								
PP11MP318	685076	5447748	<0.5								

Sample	83Z10_E	83Z10_N	ppb Au	Sample	83Z10_E	83Z10_N	ppb Au	Sample	83Z10_E	83Z10_N	ppb Au
PM11-GW91	682020	5447634	<0.5	PM11-GW145	682989	5447820	0.8	PM11-GW199	685386	5446487	1.1
PM11-GW92	681996	5447594	<0.5	PM11-GW146	683029	5447773	60.3	PM11-GW200	685366	5446531	<0.5
PM11-GW93	681973	5447550	0.8	PM11-GW147	683056	5447749	0.7	PM11-GW201	685366	5446581	4.4
PM11-GW94	681964	5447501	1.7	PM11-GW148	683101	5447716	11.7	PM11-GW202	685331	5446615	6.7
PM11-GW95	681944	5447456	1	PM11-GW149	683146	5447693	4.2	PM11-GW203	685315	5446663	9.3
PM11-GW96	681946	5447403	<0.5	PM11-GW150	683192	5447676	0.8	PM11-GW204	685298	5446710	3.5
PM11-GW97	681943	5447351	2.1	PM11-GW151	683239	5447660	<0.5	PM11-GW205	685289	5446759	5.4
PM11-GW98	681938	5447304	<0.5	PM11-GW152	683283	5447641	0.8	PM11-GW206	685277	5446806	1.9
PM11-GW99	681939	5447293	<0.5	PM11-GW153	683334	5447634	<0.5	PM11-GW207	685283	5446852	<0.5
PM11-GW100	681937	5447283	4.6	PM11-GW154	683382	5447630	0.9	PM11-GW208	685322	5446881	5.9
PM11-GW101	681938	5447273	<0.5	PM11-GW155	683428	5447625	<0.5	PM11-GW209	685369	5446894	1.4
PM11-GW102	681937	5447263	3.3	PM11-GW156	683480	5447624	1.2	PM11-GW210	685417	5446903	8.5
PM11-GW103	681933	5447246	0.7	PM11-GW157	683527	5447630	<0.5	PM11-GW211	685468	5446907	1.8
PM11-GW104	681946	5447205	0.7	PM11-GW158	683580	5447636	1.5	PM11-GW212	685514	5446918	0.9
PM11-GW105	681962	5447157	<0.5	PM11-GW159	683627	5447636	<0.5	PM11-GW213	685551	5446956	<0.5
PM11-GW106	681972	5447135	<0.5	PM11-GW160	683678	5447634	<0.5	PM11-GW214	685566	5447003	0.9
PM11-GW107	681978	5447123	6.9	PM11-GW161	684784	5447396	<0.5	PM11-GW215	685565	5447053	4.8
PM11-GW108	681981	5447117	32.1	PM11-GW162	684749	5447281	1.5	PM11-GW216	685577	5447102	<0.5
PM11-GW109	681986	5447110	2.5	PM11-GW163	684739	5447228	2.7	PM11-GW217	685567	5447150	<0.5
PM11-GW110	681991	5447099	1.3	PM11-GW164	684759	5447182	1.4	PM11-GW218	685546	5447192	1.9
PM11-GW111	681995	5447087	<0.5	PM11-GW165	684793	5447148	<0.5				
PM11-GW112	682001	5447080	0.8	PM11-GW166	684832	5447111	0.6				
PM11-GW113	682004	5447077	0.9	PM11-GW167	684864	5447070	1.4				
PM11-GW114	682032	5447026	4.5	PM11-GW168	684892	5447036	2.1				
PM11-GW115	682053	5446979	2.4	PM11-GW169	684926	5447002	<0.5				
PM11-GW116	682073	5446935	2.3	PM11-GW170	684953	5446955	1.6				
PM11-GW117	682101	5446890	<0.5	PM11-GW171	684973	5446910	2.2				
PM11-GW118	682130	5446853	0.8	PM11-GW172	684981	5446858	1.8				
PM11-GW119	682168	5446879	2.2	PM11-GW173	684994	5446815	2				
PM11-GW120	682175	5446932	1.2	PM11-GW174	685018	5446754	2.3				
PM11-GW121	682205	5446974	0.8	PM11-GW175	685032	5446715	1.9				
PM11-GW122	682251	5446987	1.3	PM11-GW176	685054	5446673	3.5				
PM11-GW123	682300	5447014	0.9	PM11-GW177	685073	5446617	<0.5				
PM11-GW124	682333	5446980	1.5	PM11-GW178	685086	5446572	1.7				
PM11-GW125	682353	5446934	1.6	PM11-GW179	685105	5446526	1.3				
PM11-GW126	682390	5446898	1.1	PM11-GW180	685136	5446488	1.6				
PM11-GW127	682418	5446855	1.4	PM11-GW181	685160	5446446	<0.5				
PM11-GW128	682441	5446812	1.5	PM11-GW182	685186	5446399	<0.5				
PM11-GW129	682469	5446769	1.7	PM11-GW183	685223	5446370	1.3				
PM11-GW130	682479	5446743	1.2	PM11-GW184	685254	5446331	0.8				
PM11-GW131	682494	5446722	1.5	PM11-GW185	685303	5446295	<0.5				
PM11-GW132	682525	5446680	2.5	PM11-GW186	685347	5446267	<0.5				
PM11-GW133	682561	5446646	0.7	PM11-GW187	685381	5446255	1.3				
PM11-GW134	682608	5446626	<0.5	PM11-GW188	685428	5446259	0.9				
PM11-GW135	682651	5446651	1.6	PM11-GW189	685482	5446262	<0.5				
PM11-GW136	682701	5446658	0.6	PM11-GW190	685543	5446241	0.6				
PM11-GW137	682749	5446639	<0.5	PM11-GW191	685576	5446227	1				
PM11-GW138	682669	5447978	<0.5	PM11-GW192	685621	5446235	11.2				
PM11-GW139	682711	5447948	1	PM11-GW193	685587	5446266	0.7				
PM11-GW140	682760	5447930	<0.5	PM11-GW194	685553	5446305	12				
PM11-GW141	682810	5447918	<0.5	PM11-GW195	685522	5446343	2.4				
PM11-GW142	682857	5447896	<0.5	PM11-GW196	685486	5446380	<0.5				
PM11-GW143	682902	5447869	<0.5	PM11-GW197	685458	5446419	1.5				
PM11-GW144	682948	5447842	1.6	PM11-GW198	685416	5446450	0.7				

SAMPLE NO.	83Z10E	83Z10N	ALTITUDE	DESCRIPTION	ppb Au
PM11-GWR01	685306	5448263	1662 m	Contin Chip: 0.65m wd, massive qz vn; frac'd w/ <1% diss to f.g. py	14937.1
PM11-GWR02	685303	5448268	1663 m	Random Chip: 0.5m wd qz vn w/ trace v.f. diss py; similar to GWR01	23149.2
PM11-GWR03	685292	5448266	1661 m	Random Chip: 0.55m wd qz vn w/ Fe and Mn-ox stain; sim to GWR01	315.4
PM11-GWR04	685290	5448265	1662 m	Random Chip: sim to GWR03 w/ trace f. diss. Py	4477.5
PM11-GWR05	685290	5448265	1662 m	Chip Sample: qz vn w/ 1-5% v.f. diss to cubic to smoky, patchy py	10074.9
PM11-GWR06	685290	5448265	1662 m	Random chips: 1.0m wd qz vn; wkly brx'd w/ tr. sulfides, boxwork text.	2606.7
PM11-GWR07	685287	5448261	1657 m	Random chips: qz vn with tr. diss to cubic py; sim to GWR06	9769.4
PM11-GWR08	685274	5448258	1654 m	Contin Chip: 2.5m qz vn w/ tr. f. diss to cubic py; cellular bxwrk struct.	13831
PM11-GWR09	685267	5448258	1656 m	Random Chip; same as GWR08; 0.5m chip sample	782
PM11-GWR10	684838	5450038	1542 m	Float: 1-4cm, rnd'd to subrnd'd cobbles on deactivated skidder rd	28.8
PM11-GWR11	684907	5450019	1529 m	Float: 15x12x10cm semi-ang qz bldr w/ tr. v.f. diss to cubic py	27
PM11-GWR12	685740	5449933	1512 m	Float: 12x10x7cm qz bldr w/ tr f.g. py; surface lim. Stain	2
PM11-GWR13	685569	5449942	1503 m	Float: sevrl ang to subang qz bldrs up to 15x12x12cm w/ tr v.f. diss py	107
PM11-GWR14	684999	5447960	1625 m	Float: sevrl pebble to cobble size qz float; no vis sulfides	<0.5
PM11-GWR15	682582	5448237	1384 m	Float: 16x15x10cm, ang to subang qz bldr w/ Mn-ox on frags and surf	0.8
PM11-GWR16	682591	5448213	1387 m	Float: pebble to bldr size, subrnd to ang qz float; glassy, vitreous	<0.5
PM11-GWR17	682707	5448203	1404 m	Float(Composite): subrnd to subang qz bldrs up to 10x10x9cm	0.8
PM11-GWR18	683679	5448007	1493 m	Float(Composite): sim to GWR17; pcs up 8x6x5cm	<0.5
PM11-GWR19	684092	5447975	1527 m	Float(Composite): sim to GWR17; pcs up to 12x10x9cm	1.7
PM11-GWR20	684188	5447936	1539 m	Float(Composite): subrnd to subang qz bldrs up to 15x14x12cm	<0.5
PM11-GWR21	684295	5447910	1533 m	Float(Composite): pale grey-wte to greenish-wte, layered calc-silicate	0.6
PM11-GWR22	684561	5447805	1554 m	Random Grab: rusty wth'd lapilli tuff; grabs from ~10m outcrop width	0.6
PM11-GWR23	684901	5447756	1571 m	Float(Composite): subrnd'd qz bldrs up to 12x12x9cm; wkly limonitic	<0.5
PM11-GWR24	685370	5447795	1571 m	Float(Composite): subrnd to subang, hem-stn qz bldrs up to 10x7x6cm	1123.1
PM11-GWR25	681936	5447281	1402 m	Contin Chip: hand trench; narrow qz vns in limonitic, altr'd argillite	3.9
PM11-GWR26	681936	5447280	1402 m	Contin Chip: hand trench; narrow qz vns in limonitic, altr'd argillite	2.4
PM11-GWR27	681936	5447279	1402 m	Contin Chip: hand trench; 0.5m qz vn in limonitic, altr'd argillite	0.5
PM11-GWR28	681936	5447278	1402 m	Contin Chip: hand trench; multiple qz vns in limonitic, altr'd argillite	1.4
PM11-GWR29	681936	5447277	1402 m	Contin Chip: hand trench; 25cm qz vn in sheared, dk grey argillite	2.2
PM11-GWR30	681936	5447276	1402 m	Contin Chip: hand trench; 40cm qz vn in sheared, dk grey argillite	0.9
PM11-GWR31	681936	5447274	1402 m	Contin Chip: hand trench; 50cm limonitic qz vn in sheared argillite	1.4
PM11-GWR32	681936	5447273	1402 m	Contin Chip: hand trench; 50cm limonitic qz vn in sheared argillite	1.2
PM11-GWR33	681936	5447271	1402 m	Contin Chip: hand trench; 30cm limonitic qz vn in sheared blk argillite	1.4

SAMPLE NO.	83Z10E	83Z10N	ALTITUDE	DESCRIPTION	ppb Au
PM11-GWR34	681937	5447269	1402 m	Chip(Composite): qz bldrs up to 16x15x12cm excavated from trench	0.8
PM11-GWR35	681985	5447108	1426 m	Float(Composite): sevrl qz bldrs up 15x12x12cm w/ hairline hem frags	3.5
PM11-GWR36	681989	5447106	1427 m	Float(Composite): vuggy, frac'd qz bldrs up to 18x17x15cm; sim to -35	3.9
PM11-GWR37	681988	5447104	1426 m	Float(Composite): same as GWR35,36; bldrs up to 17x14x14cm	1.1
PM11-GWR38	682530	5447116	1505 m	Float(Composite): sevrl ang to subang qz bldrs w/ limonitic frags	<0.5
PM11-GWR39	682530	5447120	1505 m	Float(Composite): same as GWR38; angular qz bldrs; variably limonitic	0.9
PM11-GWR40	682536	5447118	1505 m	Float(Composite): same as previous; minor interstitial pale calcite	<0.5
PM11-GWR41	682551	5447121	1507 m	Float(Composite): sevrl ang to subang qz bldrs; variably rusty-brn wth'd	<0.5
PM11GWR42	682578	5447127	1508 m	Float(Composite): sevrl ang to subang qz bldrs; variably rusty-brn wth'd	<0.5
PM11GWR43	682583	5447137	1507 m	Float(Composite): sevrl ang to subang qz bldrs; variably rusty-brn wth'd	1.6
PM11GWR44	682589	5447134	1503 m	Float(Composite): bldrs wte qz with patchy sericite & interstitial calcite	<0.5
PM11GWR45	682588	5447141	1502 m	Float(Composite): bldrs wte qz with patchy sericite & interstitial calcite	<0.5
PM11GWR46	682593	5447138	1502 m	Float(Composite): ang to subang qz bldrs up to 25x24x20cm	<0.5
PM11GWR47	682603	5447145	1505 m	Float(Composite): ang to subang qz bldrs up to 25x24x20cm	<0.5
PM11GWR48	682609	5447143	1501 m	Float(Composite): ang to subang qz bldrs up to 25x24x20cm	1
PM11GWR49	682646	5447145	1503 m	Float(Composite): ang to subang qz bldrs w/ lim on frags, brkn surfaces	<0.5
PM11GWR50	682415	5446858	1486 m	Float(Composite): 4 pcs qz bldrs up to 9x8x6cm; subang to rnd'd	4.5
PM11GWR51	682480	5446738	1490 m	Float: single subang qz bldr; 28x27x12cm	1.5
PM11GWR52	682488	5446724	1491 m	Float: subrnd'd qz cobble 7x7x6cm	1.2
PM11GWR53	682766	5447930	1370 m	Float(Composite): banded, rusty qz-carb(ank) bldrs; ang to subang	1.8
PM11GWR54	682773	5447928	1369 m	Float(Composite): same as -53; pale greenish-grey calc-silicate	<0.5
PM11GWR55	682874	5447887	1368 m	Float: pale grnsh-grey to wte, angular, banded, layered calc-sil	<0.5
PM11GWR56	685553	5447191	1678 m	Float(Composite): qz bldrs up to 23x15x15cm; rnd'd to subrnd'd	<0.5
PM11GWR57	685312	5446701	1634 m	Select Chip: 2.5m silcf'd, qz flooded volc(?) w/ mm to cm scale qz vns	2.8
PM11GWR58	685307	5446700	1634 m	Float(Composite): bldrs crse qz-plag feld-musc up to 20x20x15cm	<0.5
PM11GWR59	685307	5446690	1632 m	Float(Composite): sim to -57; cm scale qz vns & clots in ang bldrs	1
PM11GWR60	685163	5446456	1557 m	Float(Composite): rusty qz bldrs up to 30x30x25cm; ang to subang	<0.5
PM11GWR61	685122	5446520	1545 m	Float(Composite): subrnd'd qz bldrs up to 9x8x6cm	0.8
PM11GWR62	684849	5447083	1489 m	Float: ang qz bldr 60x32x25cm w/ 2-3% v.f.g. to smoky-gry, banded py	3.6
PM11GWR63	684850	5447083	1494 m	Select Chip: same bldr as GWR62	3.5
PM11GWR64	684839	5447083	1493 m	Float(Composite): rusty, subang-subrnd qz bldrs up to 12x10x9cm	<0.5
PM11GWR65	685470	5448207	1684 m	Float(Composite): ang qz bldrs up to 35x20x20cm w/ 1% f. diss py	5535.7
PM11GWR66	685477	5448216	1684 m	Float(Composite): qz bldrs w/ tr v.f. diss to cubic py; vuggy; sucrosic	25653.3

SAMPLE NO.	83Z10E	83Z10N	ALTITUDE	DESCRIPTION	ppb Au
PM11GWR67	685479	5448215	1684 m	Float(Composite): same as -66 w/ v. f. diss to cubic py	60707.5
PM11GWR68	685478	5448215	1684 m	Float: bldr inten brx'd qz w/ ang qz frags in qz matrix; rusty stained	65938.5
PM11GWR69	685482	5448216	1687 m	Panel Chip: 1.0x0.9m qz brx bldr; same as -68	47900.1
PM11GWR70	682142	5447185	1464 m	Float(Composite): subang to subrnd qz bldrs up to 12x10x9cm	176.2
PM11GWR71	682135	5447187	1466 m	Float(Composite): subrnd pcs wte bull qz up to 15x12x12cm	106
PM11GWR72	682185	5447259	1462 m	Random Chip: 4m wd spray opaque wte to pale smoky-gry qz cobbles	24.6
PM11GWR73	682185	5447255	1462 m	Random Chip: 4m wd spray opaque wte to pale smoky-gry qz cobbles	18.5
PM11GWR74	685175	5446406	1549 m	Float(Composite): broken pcs rusty, brx'd qz vn from impure slst o/c	0.7
PM11GWR75	685184	5446397	1547 m	Float(Composite): in situ qz vn float derived from impure slst oc	<0.5
PM11GWR76	685242	5447462	1548 m	Float(Composite): rusty, silcf'd volc(?) w/ vfg diss to f. stringer py	<0.5
PM11GWR77	685247	5447484	1548 m	Float(Composite): subrnd bldrs wte bull qz with tr. cubic py, lim frags	<0.5
PM11GWR78	685382	5446905	1646 m	Float: lg bldr 30x30x20cm, silcf'd, colour banded volc w/ 1% vfg diss py	0.9
PM11GWR79	686150	5448103	1702 m	Float(Composite): ang to subang qz bldrs up to 12x10x10cm	1.3
PM11GWR80	686259	5448127	1703 m	Float(Composite): ang qz bldrs up to 20x15x15cm	<0.5
PM11GWR81	686549	5447783	1712 m	Float(Composite): ang qz bldrs up to 12x10x9cm	15.1
PM11GWR82	686454	5447535	1722 m	Float(Composite): subang qz bldrs up to 23x16x10cm in rd bank	<0.5
PM11GWR83	686322	5447632	1692 m	Float(Composite): ang to subrnd'd qz cobbles up to 5x4x4cm	<0.5
14806	685329	5448276		0.5 m chip across qtz. Vn	476.4
14807	685153	5446458		grab sample of qtz vn float	1.9
14808	682578	5447127		composite grab of qtz vn material	0.9
14809	682578	5447127		composite grab of qtz vn material	0.9
14810	681927	5447256		1.0 m chip along qtz vn	<0.5
14811	681927	5447256		composite grab of qtz vn material	<0.5
PM11-EBR01	686428	5448236	1758 m	Float: qz-flooded, sericit'zd granodiorite w/ Mn-ox and lesser Fe-ox	6.9
PM11-EBR02	686388	5448237	1760 m	Float: angular qz bldr w/ sericite and limonitic alt'n; minor lim vugs	396.6
PM11-EBR03	686345	5448203	1763 m	Float: angular qz bldr w/ py cavities, minor cell bxwrk; strly gossanous	272.2
PM11-EBR04	686322	5448220	1755 m	Contin Chip: qz vn in o/c; intensely broken, frac'd, minor, crse py grns	102.3
PM11-EBR05	686310	5448214	1758 m	Float: ang qz bldrs w/ lim frags, cell bxwrk after py; crse vugs; rust stn	7.2
PM11-EBR06	686307	5448217	1752 m	Float: qz vn bldrs w/ abund cell bxwrk, py cavities/vugs; perv lim frags	93.2
PM11-EBR07	686305	5448214	1750 m	Float: subang>subrnd qz bldr w/ patchy, crse ser on surf; Mn-ox frags	332.5
PM11-EBR08	686290	5448230	1751 m	Float: ang qz vn bldrs w/ boxwork structure after py; gossanous float	35.3
PM11-EBR09	686289	5448229	1752 m	Contin Chip: qz vn in altr'd granodiorite; same as EBR08	163.4
PM11-EBR10	686190	5448143	1707 m	Grab: andes dike; str goss, rusty, decomposed with clay composition	3.2

SAMPLE NO.	83Z10E	83Z10N	ALTITUDE	DESCRIPTION	ppb Au
PM11-EBR11	686234	5448143	1708 m	Float: ang, tabular qz bldrs w/ minor patchy ser/ ser partings; wkly lim	8
PM11-EBR12	686218	5448043	1674 m	Float: ang qz vn bldrs w/ dk rusty stn; 1.5-2.0mm moly bleb on qz chip	37.6
PM11-EBR13	685308	5448078	1631 m	Float ang-subang qtz vn bldrs with lim, Mn, sparse cavities	29.1
PM11-EBR14	685291	5448084	1632 m	Float: ang qtz vn bldrs with rusty frags lim hem, boxworl texture	1644.8
PM11-EBR15	685272	5448100	1631 m	Float: ang qz vn bldrs w/ tr-<1%, 3-4mm py cubes; 7-7.5mm py clots	115.2
PM11-EBR16	685239	5448103	1638 m	Float: ang>subang qz vn bldr w/ tr-<1% dissem-irreg py grns, blebs	12545.7
PM11-EBR17	685232	5448126	1641 m	Float:ang-subang qz vn bldrs w/ tr-1% py blebs, dissem, cubes to 5mm	3500.4
PM11-EBR18	685224	5448134	1640 m	Float: ang>subang qz vn bldrs w/ tr py blebs, cubes to 4mm, cell bxwrk	1549.7
PM11-EBR19	685255	5448129	1646 m	Float: ang qz bldrs w/ up to 5%, 9-10mm cubes, dissem, aggregate py	1971.4
PM11-EBR20	685248	5448129	1649 m	Float: ang qz vn bldrs w/ ox'zd, 2-3mm py cubes; lim frags, Mn-ox stn'd	3395.1
PM11-EBR21	685245	5448131	1647 m	Float: inten silic'fd andes w/ f. sugary, layered texture; rusty frags	29.6
PM11-EBR22	685237	5448071	1644 m	Float: ang qz bldrs w/ rare cubic cavities after py; minor hem surf stn	5028.4
PM11-EBR23	684975	5448673	1616 m	Float: rusty wth'd, silic'fd volc w/ sheeted qz strgrs; cell bxwrk structure	17.3
PM11-EBR24	685103	5448944	1632 m	Float: subang>subrnd qz bldrs w/ minor hem and Mn-ox stain	7.3
PM11-EBR25	685482	5448218	1685 m	Contin Chip: qz vn bldr; inten frac'd, in part brx'd; clast-sup'd matrix	30547.4
PM11-EBR26	685481	5448221	1688 m	Contin Chip: qz float; same as EBR25 w/ 10-15mm py inclusions, grns	19002.1
PM11-EBR27	681947	5448785	1394 m	Float: ang talus; rusty wth'd lithic tuff w/ 8mm qz-cc vns w/ cell bxwrk	92
PM11-EBR28	681951	5448793	1392 m	Float: ang argillite bldrs w/ multiple qz-cc-ankerite vns up to 3mm	934.5
PM11-GWR01A	685307	5448267	1662 m	Contin Chip: qz vn bldr; 0.75x0.60x0.62m; frac'd, lim stn'd	5128.5
PM11-GWR02A	685303	5448266	1663 m	Contin Chip: 42cm chip, frac'd to brx'd in situ qz vn	8569
PM11-GWR02B	685303	5448267	1662 m	Contin Chip: 19cm chip; fragmt'd brx'd andes w/ lim cement	600.5
PM11-GWR02C	685304	5448267	1662 m	Contin Chip: 31cm chip; brx'd, fragmt'd qz vn w/ lim & Mn-ox cement	43799.2
PM11-GWR02D	685304	5448267	1662 m	Contin Chip: 18cm chip; Fe-&Mn-ox altr'd andes w/ musc-rich matrix	322.8
PM11-GWR02E	685305	5448268	1663 m	Contin Chip: 20cm chip; blk, silic'fd argillaceous wallrock	166.5
PM11-GWR02F	685305	5448267	1662 m	Contin Chip: 48cm chip; qz vn; competent to chippy, fragmt'd, in situ qz	66236.9



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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: July 07, 2011
Report Date: July 23, 2011
Page: 1 of 9

CERTIFICATE OF ANALYSIS

VAN11003006.1

CLIENT JOB INFORMATION

Project: PLACER MTN.
Shipment ID: Shipment #1
P.O. Number
Number of Samples: 213

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
Bill 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	210	Dry at 60C			VAN
SS80	210	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	213	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: PLACER MTN.
 Report Date: July 23, 2011

Page: 2 of 9 Part 1

CERTIFICATE OF ANALYSIS

VAN11003006.1

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
PM11-RP01	Soil			0.5	13.8	4.3	29	0.2	22.5	4.0	271	1.14	2.6	1.1	1.0	23	0.2	0.1	0.1	29	0.46	0.027	10
PM11-RP02	Soil			0.6	18.8	5.0	40	0.2	21.2	6.5	417	1.70	2.9	1.4	1.3	22	0.1	0.1	0.1	49	0.30	0.014	9
PM11-RP03	Soil			0.4	15.6	4.3	43	0.2	17.5	7.2	206	1.88	2.1	0.7	0.9	18	<0.1	<0.1	<0.1	45	0.24	0.028	4
PM11-RP04	Soil			1.1	80.9	3.2	57	0.2	27.1	14.5	390	3.56	5.8	2.2	1.5	23	<0.1	0.2	<0.1	110	0.37	0.038	6
PM11-RP05	Soil			0.5	22.3	3.5	46	0.3	15.8	8.3	376	1.97	2.3	0.5	1.0	17	<0.1	0.1	<0.1	57	0.28	0.031	4
PM11-RP06	Soil			0.3	14.3	3.7	34	0.2	15.6	5.0	115	1.31	1.9	0.9	0.6	22	<0.1	0.1	<0.1	38	0.19	0.027	4
PM11-RP07	Soil			0.5	18.8	3.7	56	0.1	22.5	5.9	388	1.61	2.6	0.6	1.1	40	<0.1	0.2	<0.1	47	0.25	0.047	8
PM11-RP08	Soil			0.8	15.4	4.9	70	0.1	28.9	6.8	257	1.59	2.7	0.7	1.2	29	<0.1	0.1	<0.1	43	0.15	0.085	5
PM11-RP09	Soil			0.9	15.4	4.4	64	0.2	26.1	7.5	307	1.78	2.9	1.1	1.1	26	<0.1	0.1	<0.1	44	0.18	0.093	5
PM11-RP10	Soil			0.9	18.0	4.6	83	0.2	27.1	7.4	291	1.88	3.3	1.3	1.3	24	0.1	0.1	<0.1	48	0.17	0.107	5
PM11-RP11	Soil			0.4	17.1	4.4	78	0.2	33.1	6.2	200	1.44	2.2	0.6	1.7	24	<0.1	<0.1	<0.1	38	0.17	0.133	5
PM11-RP12	Soil			0.6	13.1	4.2	79	0.2	22.1	5.2	407	1.30	2.0	1.7	1.3	24	0.2	<0.1	<0.1	36	0.16	0.123	5
PM11-RP13	Soil			0.5	14.6	4.0	51	<0.1	24.7	6.7	171	1.63	2.1	1.3	1.1	26	0.1	0.1	<0.1	47	0.17	0.093	4
PM11-RP14	Soil			0.6	12.3	3.5	51	<0.1	20.5	6.1	228	1.50	2.3	1.6	1.1	25	<0.1	0.1	<0.1	45	0.18	0.102	4
PM11-RP15	Soil			0.5	19.4	3.6	42	0.1	19.5	9.2	226	1.93	2.9	29.4	1.1	45	<0.1	0.1	<0.1	59	0.37	0.062	7
PM11-RP16	Soil			0.3	15.3	3.6	41	<0.1	17.9	5.5	151	1.64	1.8	1.5	1.0	34	<0.1	0.1	<0.1	50	0.25	0.026	5
PM11-RP17	Soil			0.4	19.3	6.0	36	<0.1	19.1	7.7	585	1.47	3.0	1.3	0.9	36	<0.1	<0.1	<0.1	45	0.32	0.035	7
PM11-RP18	Soil			0.5	17.7	3.5	36	<0.1	25.6	8.0	178	1.78	2.4	10.9	1.2	20	<0.1	<0.1	<0.1	49	0.16	0.057	3
PM11-RP19	Soil			0.7	13.1	4.0	39	0.1	22.1	8.4	366	1.43	2.3	<0.5	0.6	15	0.1	<0.1	<0.1	41	0.15	0.054	2
PM11-RP20	Soil			0.5	17.7	4.2	42	<0.1	29.3	10.0	276	1.54	3.6	0.7	0.7	12	0.1	<0.1	<0.1	41	0.13	0.051	2
PM11-RP21	Soil			0.3	11.9	3.4	36	0.1	18.0	6.1	160	1.41	1.8	1.6	0.5	16	<0.1	<0.1	<0.1	40	0.14	0.034	3
PM11-RP22	Soil			0.4	14.8	3.3	43	<0.1	22.7	7.2	507	1.40	1.5	4.8	0.8	21	<0.1	<0.1	<0.1	40	0.21	0.071	3
PM11-RP23	Soil			0.7	42.8	4.1	47	<0.1	37.9	13.9	450	2.54	8.3	6.0	1.4	36	<0.1	0.3	<0.1	76	0.41	0.052	8
PM11-RP24	Soil			0.5	40.8	4.4	41	<0.1	43.6	14.7	555	2.58	5.4	1.0	1.8	33	<0.1	0.2	<0.1	74	0.36	0.022	12
PM11-RP25	Soil			0.5	37.8	3.9	48	<0.1	45.5	14.0	489	2.65	3.8	1.8	1.6	41	0.1	0.1	<0.1	76	0.39	0.027	18
PM11-RP26	Soil			0.5	20.0	3.6	48	0.1	27.0	7.6	348	1.73	3.2	1.3	1.2	27	<0.1	0.1	<0.1	49	0.26	0.084	4
PM11-RP27	Soil			0.5	14.9	3.8	49	<0.1	23.2	6.5	361	1.32	3.0	<0.5	0.9	28	<0.1	<0.1	<0.1	37	0.27	0.110	3
PM11-RP28	Soil			0.3	11.4	3.0	48	<0.1	20.4	6.8	323	1.39	1.2	1.2	0.8	15	<0.1	<0.1	<0.1	39	0.14	0.037	2
PM11-RP29	Soil			0.2	12.7	2.9	35	<0.1	24.3	7.0	181	1.49	1.4	5.8	0.6	22	<0.1	<0.1	<0.1	42	0.21	0.029	2
PM11-RP30	Soil			0.3	9.7	4.9	36	<0.1	19.8	6.2	356	1.33	0.9	4.7	0.7	21	0.1	<0.1	<0.1	38	0.19	0.026	2

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Project: PLACER MTN.
 Report Date: July 23, 2011

Page: 2 of 9 Part 2

CERTIFICATE OF ANALYSIS

VAN11003006.1

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
PM11-RP01	Soil	13	0.14	116	0.069	2	1.67	0.032	0.06	<0.1	0.02	1.6	<0.1	<0.05	4	0.5	<0.2
PM11-RP02	Soil	27	0.35	166	0.084	2	1.85	0.028	0.14	<0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
PM11-RP03	Soil	29	0.37	134	0.073	2	1.69	0.020	0.19	<0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-RP04	Soil	45	0.74	176	0.082	2	2.01	0.013	0.32	<0.1	0.02	7.1	<0.1	<0.05	7	<0.5	<0.2
PM11-RP05	Soil	26	0.47	178	0.090	1	1.58	0.015	0.33	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
PM11-RP06	Soil	23	0.30	123	0.069	1	1.29	0.021	0.13	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PM11-RP07	Soil	31	0.38	173	0.085	1	1.49	0.020	0.17	<0.1	<0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
PM11-RP08	Soil	28	0.31	186	0.082	2	1.82	0.021	0.09	<0.1	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-RP09	Soil	30	0.37	160	0.086	1	1.79	0.019	0.08	<0.1	0.04	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-RP10	Soil	29	0.37	173	0.092	1	1.85	0.025	0.09	<0.1	0.03	2.4	<0.1	<0.05	6	<0.5	<0.2
PM11-RP11	Soil	27	0.30	214	0.091	2	2.04	0.026	0.12	<0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
PM11-RP12	Soil	23	0.26	170	0.078	1	1.62	0.020	0.09	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-RP13	Soil	30	0.33	148	0.084	2	1.73	0.022	0.09	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-RP14	Soil	30	0.29	138	0.074	3	1.50	0.021	0.11	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-RP15	Soil	40	0.49	137	0.081	1	1.40	0.037	0.07	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
PM11-RP16	Soil	38	0.44	138	0.099	<1	1.39	0.030	0.14	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
PM11-RP17	Soil	32	0.38	135	0.076	1	1.25	0.024	0.08	<0.1	0.04	2.8	<0.1	<0.05	4	<0.5	<0.2
PM11-RP18	Soil	40	0.40	115	0.087	2	1.69	0.025	0.07	<0.1	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
PM11-RP19	Soil	37	0.32	103	0.070	1	1.43	0.020	0.05	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-RP20	Soil	38	0.32	102	0.076	1	1.62	0.021	0.05	<0.1	0.03	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-RP21	Soil	31	0.31	100	0.077	<1	1.43	0.021	0.06	<0.1	0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-RP22	Soil	32	0.31	145	0.069	1	1.34	0.026	0.08	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-RP23	Soil	73	0.88	144	0.091	1	1.61	0.037	0.17	<0.1	0.01	5.1	0.1	<0.05	5	<0.5	<0.2
PM11-RP24	Soil	75	0.71	125	0.099	1	1.95	0.033	0.13	<0.1	0.02	7.2	<0.1	<0.05	6	<0.5	<0.2
PM11-RP25	Soil	85	0.78	171	0.098	2	2.11	0.032	0.14	<0.1	0.03	7.4	<0.1	<0.05	6	<0.5	<0.2
PM11-RP26	Soil	39	0.41	169	0.079	1	1.54	0.026	0.09	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
PM11-RP27	Soil	28	0.29	145	0.070	1	1.39	0.031	0.11	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-RP28	Soil	36	0.34	126	0.081	<1	1.40	0.025	0.08	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11-RP29	Soil	50	0.45	123	0.083	1	1.40	0.032	0.09	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-RP30	Soil	36	0.32	117	0.071	1	1.22	0.032	0.07	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

VAN11003006.1

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	
PM11-RP31	Soil		0.3	12.4	3.6	30	<0.1	23.6	7.3	163	1.39	1.9	8.9	0.8	25	0.2	<0.1	<0.1	39	0.30	0.085	3
PM11-RP32	Soil		0.3	7.7	3.6	39	0.1	14.8	4.7	217	1.17	2.4	0.8	0.9	20	0.1	<0.1	<0.1	30	0.19	0.185	3
PM11-RP33	Soil		0.5	18.8	3.6	50	0.1	26.1	8.7	366	1.90	2.1	0.6	1.2	28	<0.1	0.1	<0.1	49	0.24	0.055	4
PM11-RP34	Soil		0.5	9.1	4.4	35	0.1	17.7	5.7	276	1.16	1.9	<0.5	0.9	14	<0.1	<0.1	<0.1	30	0.15	0.178	2
PM11-RP35	Soil		0.4	8.9	3.1	33	<0.1	16.4	5.1	172	1.18	1.4	2.4	0.8	15	<0.1	<0.1	<0.1	31	0.13	0.109	3
PM11-RP36	Soil		0.3	10.5	3.5	38	0.2	14.9	5.0	387	1.22	1.3	0.6	0.9	23	<0.1	<0.1	0.2	27	0.19	0.195	3
PM11-RP37	Soil		0.4	7.8	4.4	21	<0.1	14.8	5.1	103	1.27	1.5	0.9	1.0	14	<0.1	<0.1	0.1	29	0.14	0.046	3
PM11-RP38	Soil		0.6	11.7	4.0	34	<0.1	16.3	5.6	243	1.34	1.7	1.5	0.9	20	<0.1	<0.1	0.1	32	0.20	0.110	3
PM11-RP39	Soil		0.6	18.5	4.1	30	<0.1	21.1	7.1	169	1.64	2.3	1.1	1.2	19	<0.1	0.1	0.1	43	0.17	0.058	5
PM11-RP40	Soil		0.5	9.9	4.4	27	<0.1	14.7	4.9	186	1.35	1.5	0.6	0.8	14	<0.1	<0.1	0.1	33	0.13	0.079	3
PM11-RP41	Soil		0.6	10.8	4.8	28	<0.1	14.5	5.3	202	1.44	2.2	0.6	1.2	16	<0.1	<0.1	0.1	33	0.18	0.109	4
PM11-RP42	Soil		0.7	11.2	4.1	27	<0.1	15.0	5.7	187	1.39	1.4	0.9	0.9	13	<0.1	<0.1	0.1	34	0.11	0.059	3
PM11-RP43	Soil		0.2	15.3	3.7	25	<0.1	17.4	6.4	128	1.58	2.0	1.0	0.9	24	<0.1	<0.1	<0.1	43	0.25	0.017	3
PM11-RP44	Soil		0.6	16.7	4.4	32	<0.1	19.7	7.2	164	1.78	2.4	2.7	1.2	19	<0.1	0.1	<0.1	47	0.21	0.060	5
PM11-RP45	Soil		0.3	12.4	4.6	25	<0.1	15.9	5.5	135	1.54	1.5	0.9	0.9	17	<0.1	<0.1	0.1	37	0.21	0.046	3
PM11-RP46	Soil		0.4	17.6	3.9	25	<0.1	17.6	7.6	198	2.06	2.3	7.6	0.9	28	<0.1	0.1	0.1	54	0.43	0.011	4
PM11-RP47	Soil		0.6	16.2	4.3	34	<0.1	17.4	7.1	117	1.86	2.1	3.7	1.1	13	<0.1	<0.1	0.1	44	0.13	0.144	4
PM11-RP48	Soil		0.3	13.3	3.8	28	<0.1	18.7	6.1	148	1.49	1.8	1.3	0.8	12	<0.1	<0.1	0.1	37	0.10	0.110	3
PM11-RP49	Soil		0.5	17.5	4.4	32	0.1	19.1	5.7	358	1.45	2.4	1.2	0.6	30	0.1	<0.1	0.1	40	0.54	0.027	7
PM11-RP50	Soil		1.1	16.0	4.6	23	<0.1	17.8	5.0	134	1.49	1.7	0.8	1.1	35	<0.1	<0.1	0.1	38	0.27	0.033	8
PMS03	Rock Pulp		16.1	63.2	19.2	18	0.2	15.8	2.3	109	3.58	451.5	217.5	0.8	30	0.3	25.4	0.2	9	0.95	0.005	2
PM11-RP51	Soil		4.5	25.3	5.6	26	<0.1	22.2	6.1	529	1.69	3.1	1.5	1.3	51	<0.1	<0.1	0.1	53	0.43	0.044	23
PM11-RP52	Soil		0.3	7.3	4.3	22	<0.1	8.0	2.9	64	1.20	1.2	2.6	1.0	41	<0.1	<0.1	<0.1	33	0.24	0.098	5
PM11-RP53	Soil		0.2	4.9	4.6	16	<0.1	3.8	1.5	36	0.69	<0.5	<0.5	0.2	16	<0.1	<0.1	<0.1	17	0.09	0.028	2
PM11-RP54	Soil		0.2	18.5	5.1	24	<0.1	14.7	6.1	243	1.80	1.7	2.5	1.4	64	<0.1	<0.1	0.1	57	0.37	0.038	11
PM11-RP55	Soil		1.7	21.2	6.6	34	0.1	21.4	8.4	404	1.66	3.3	1.4	1.8	45	<0.1	<0.1	0.1	51	0.35	0.032	12
PM11-RP56	Soil		0.2	15.4	4.8	31	<0.1	18.7	7.3	97	1.71	1.8	1.1	0.9	34	<0.1	<0.1	<0.1	43	0.19	0.064	4
PM11-RP57	Soil		0.4	16.6	4.0	30	<0.1	16.6	5.7	180	1.68	1.2	1.9	1.1	38	<0.1	<0.1	0.2	49	0.28	0.021	5
PM11-RP58	Soil		0.8	25.5	5.1	35	0.1	31.1	8.6	147	2.09	3.2	6.9	0.9	28	<0.1	0.1	0.1	59	0.23	0.043	5
PM11-RP59	Soil		0.8	70.4	7.4	43	0.5	49.6	11.4	128	2.33	5.4	3.1	1.7	27	<0.1	0.2	0.1	54	0.17	0.043	6

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: PLACER MTN.
Report Date: July 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11003006.1

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	
PM11-RP31	Soil	38	0.35	126	0.071	1	1.28	0.030	0.07	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PM11-RP32	Soil	17	0.16	132	0.067	1	1.32	0.022	0.04	<0.1	0.02	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11-RP33	Soil	43	0.50	142	0.089	1	1.73	0.022	0.12	<0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
PM11-RP34	Soil	22	0.21	123	0.068	1	1.32	0.021	0.05	<0.1	0.04	1.3	<0.1	<0.05	4	<0.5	<0.2
PM11-RP35	Soil	20	0.21	103	0.066	2	1.36	0.022	0.05	<0.1	0.02	1.3	<0.1	<0.05	4	<0.5	<0.2
PM11-RP36	Soil	18	0.20	200	0.069	1	1.35	0.021	0.05	<0.1	0.03	1.2	<0.1	<0.05	4	<0.5	<0.2
PM11-RP37	Soil	17	0.19	75	0.088	2	1.66	0.023	0.05	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
PM11-RP38	Soil	23	0.28	118	0.076	2	1.37	0.022	0.07	<0.1	0.03	1.2	<0.1	<0.05	4	<0.5	<0.2
PM11-RP39	Soil	31	0.38	124	0.089	1	1.67	0.021	0.06	<0.1	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
PM11-RP40	Soil	20	0.23	101	0.081	1	1.48	0.019	0.05	<0.1	0.02	1.1	<0.1	<0.05	5	<0.5	<0.2
PM11-RP41	Soil	18	0.23	98	0.094	2	1.90	0.021	0.05	<0.1	0.04	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11-RP42	Soil	24	0.28	97	0.086	1	1.59	0.019	0.06	<0.1	0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11-RP43	Soil	32	0.39	133	0.086	<1	1.36	0.025	0.07	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PM11-RP44	Soil	32	0.39	120	0.095	<1	1.62	0.021	0.08	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-RP45	Soil	20	0.27	119	0.089	<1	1.70	0.028	0.06	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11-RP46	Soil	41	0.51	83	0.098	2	1.32	0.027	0.09	<0.1	0.02	2.6	<0.1	<0.05	4	0.6	<0.2
PM11-RP47	Soil	26	0.31	94	0.094	2	1.92	0.021	0.04	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-RP48	Soil	27	0.26	91	0.090	1	1.67	0.019	0.04	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-RP49	Soil	23	0.25	151	0.070	1	1.59	0.031	0.05	<0.1	0.03	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11-RP50	Soil	20	0.28	157	0.086	<1	1.59	0.029	0.05	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
PMS03	Rock Pulp	21	0.02	902	0.009	2	0.15	0.006	0.06	2.6	2.91	0.5	10.3	0.12	<1	1.3	<0.2
PM11-RP51	Soil	23	0.31	162	0.096	<1	1.93	0.030	0.06	<0.1	0.03	3.3	<0.1	<0.05	6	<0.5	<0.2
PM11-RP52	Soil	13	0.15	87	0.083	1	1.51	0.020	0.05	<0.1	0.03	1.0	<0.1	<0.05	5	<0.5	<0.2
PM11-RP53	Soil	8	0.07	42	0.055	1	0.60	0.013	0.02	<0.1	0.02	0.5	<0.1	<0.05	5	<0.5	<0.2
PM11-RP54	Soil	34	0.42	144	0.094	<1	1.82	0.026	0.08	<0.1	<0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
PM11-RP55	Soil	33	0.40	238	0.116	<1	1.93	0.031	0.05	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
PM11-RP56	Soil	26	0.32	185	0.093	<1	1.90	0.027	0.04	<0.1	0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
PM11-RP57	Soil	31	0.51	158	0.110	<1	1.51	0.027	0.06	<0.1	0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
PM11-RP58	Soil	35	0.48	220	0.112	1	2.21	0.021	0.05	<0.1	0.02	2.0	<0.1	<0.05	7	<0.5	<0.2
PM11-RP59	Soil	34	0.41	184	0.114	<1	2.95	0.025	0.05	<0.1	0.02	3.2	<0.1	<0.05	8	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	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	
PM11-RP60	Soil		0.9	21.0	5.0	35	<0.1	23.1	8.0	142	1.94	3.1	1.5	1.2	17	<0.1	0.2	<0.1	51	0.13	0.099	4
PM11-RP61	Soil		0.5	10.3	5.1	28	<0.1	14.0	5.1	144	1.44	1.4	<0.5	0.9	19	<0.1	<0.1	0.1	35	0.13	0.112	3
PM11-RP62	Soil		0.3	12.1	4.0	32	<0.1	13.7	4.9	161	1.48	<0.5	13.0	0.9	36	<0.1	<0.1	<0.1	41	0.23	0.016	4
PM11-RP63	Soil		0.4	12.5	5.4	34	0.1	15.3	5.2	97	1.58	1.6	1.4	0.7	24	<0.1	<0.1	0.1	36	0.13	0.093	4
PM11-RP64	Soil		0.3	11.2	5.0	25	<0.1	13.4	5.5	95	1.55	2.0	1.1	1.3	18	<0.1	<0.1	<0.1	39	0.12	0.064	3
PM11-RP65	Soil		0.8	9.5	4.9	28	<0.1	11.4	5.1	104	1.65	1.4	2.4	1.4	19	<0.1	<0.1	<0.1	42	0.12	0.100	4
PM11-RP66	Soil		0.5	8.3	4.9	26	<0.1	10.3	4.4	90	1.53	0.8	2.1	1.2	12	<0.1	<0.1	<0.1	37	0.07	0.104	4
PM11-RP67	Soil		0.5	15.9	5.4	31	<0.1	17.6	6.7	135	1.94	1.5	1.7	1.9	29	<0.1	<0.1	0.1	47	0.13	0.107	5
PM11-RP68	Soil		0.7	12.6	5.3	33	<0.1	15.2	6.3	127	1.93	1.5	0.9	1.7	19	<0.1	<0.1	0.1	46	0.11	0.119	4
PM11-RP69	Soil		0.5	11.2	4.8	27	<0.1	9.4	4.9	93	1.57	0.9	0.7	1.5	10	<0.1	<0.1	0.1	37	0.07	0.107	5
PM11-RP70	Soil		0.5	9.3	4.3	24	<0.1	7.9	4.7	68	1.62	1.8	1.0	1.3	10	<0.1	<0.1	<0.1	45	0.06	0.120	3
PM11-RP71	Soil		0.6	8.0	4.5	27	<0.1	9.1	5.2	112	1.74	2.6	2.7	1.4	10	<0.1	<0.1	0.1	44	0.07	0.150	3
PM11-RP72	Soil		0.5	9.2	3.9	31	<0.1	9.4	4.8	126	1.66	2.0	1.7	1.4	11	<0.1	<0.1	0.1	50	0.08	0.132	3
PM11-RP73	Soil		0.7	11.2	4.7	31	<0.1	10.9	6.4	275	1.90	2.7	3.5	1.7	11	0.1	<0.1	0.1	50	0.09	0.136	3
PM11-RP74	Soil		0.8	12.9	4.3	34	<0.1	12.8	7.0	122	2.05	2.6	0.7	2.2	11	<0.1	<0.1	<0.1	53	0.09	0.088	3
PM11-RP75	Soil		0.8	8.9	4.0	41	<0.1	10.1	5.1	285	1.38	1.8	2.3	1.1	10	<0.1	<0.1	<0.1	38	0.07	0.101	3
PM11-RP76	Soil		0.5	9.6	3.9	31	<0.1	10.4	6.8	126	2.07	2.1	1.4	1.6	16	<0.1	<0.1	<0.1	56	0.16	0.095	4
PM11-RP77	Soil		0.5	13.7	4.7	34	<0.1	15.3	6.5	120	1.83	2.2	0.9	1.2	46	<0.1	<0.1	<0.1	47	0.25	0.096	7
PM11-RP78	Soil		0.9	12.5	4.6	40	<0.1	14.9	6.7	103	2.12	2.3	4.1	1.5	13	<0.1	0.1	<0.1	54	0.09	0.126	4
PM11-RP79	Soil		0.3	12.3	5.1	42	<0.1	12.7	6.3	108	2.02	1.8	4.3	1.8	23	<0.1	<0.1	0.1	48	0.15	0.172	5
PM11-RP80	Soil		0.2	11.9	4.8	20	<0.1	11.9	4.8	166	1.33	1.6	1.4	1.2	56	<0.1	<0.1	<0.1	38	0.37	0.029	8
PM11-JF01	Soil		0.7	14.9	5.4	38	<0.1	14.2	6.3	97	2.26	2.4	1.3	1.5	24	<0.1	0.1	0.1	52	0.14	0.137	4
PM11-JF02	Soil		0.4	11.2	5.0	42	<0.1	13.8	5.5	111	1.55	1.4	3.5	0.9	26	<0.1	<0.1	0.1	42	0.18	0.051	4
PM11-JF03	Soil		1.1	24.7	3.6	66	<0.1	16.6	14.1	771	3.61	3.8	7.2	3.8	49	<0.1	0.2	<0.1	95	0.63	0.115	13
PM11-JF04	Soil		1.3	22.6	3.7	49	<0.1	19.1	11.2	471	2.87	3.6	4.5	2.8	42	<0.1	0.2	<0.1	83	0.46	0.091	11
PM11-JF05	Soil		1.6	31.6	3.6	96	0.1	15.8	12.5	4019	2.73	6.6	5.0	2.4	400	<0.1	0.3	<0.1	100	6.09	0.401	12
PM11-JF06	Soil		0.4	6.5	4.1	22	<0.1	6.8	3.7	63	1.09	1.5	0.9	0.7	13	<0.1	<0.1	<0.1	28	0.11	0.063	3
PM11-JF07	Soil		0.6	17.1	4.4	36	<0.1	17.5	7.8	127	2.07	3.8	1.8	1.5	22	<0.1	0.1	<0.1	54	0.13	0.088	7
PM11-JF08	Soil		0.5	16.1	4.9	52	<0.1	17.9	6.1	138	1.94	2.3	0.7	0.9	27	<0.1	0.1	<0.1	52	0.18	0.046	4
PM11-JF09	Soil		0.6	15.4	6.2	35	<0.1	24.5	6.2	67	2.20	3.5	0.6	1.5	12	<0.1	<0.1	0.2	51	0.08	0.167	4

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Method Analyte	Unit	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
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	
PM11-RP60	Soil	27	0.33	104	0.097	<1	1.94	0.019	0.03	<0.1	0.04	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-RP61	Soil	16	0.17	86	0.083	<1	1.69	0.015	0.04	<0.1	0.04	1.2	<0.1	<0.05	5	<0.5	<0.2
PM11-RP62	Soil	25	0.46	98	0.102	<1	1.15	0.023	0.05	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-RP63	Soil	20	0.24	123	0.083	<1	1.73	0.016	0.05	<0.1	0.03	1.2	<0.1	<0.05	7	<0.5	<0.2
PM11-RP64	Soil	20	0.31	92	0.086	<1	1.73	0.020	0.04	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11-RP65	Soil	15	0.22	66	0.087	<1	1.66	0.015	0.04	<0.1	0.03	1.2	<0.1	<0.05	6	<0.5	<0.2
PM11-RP66	Soil	12	0.14	65	0.092	<1	1.94	0.017	0.03	<0.1	0.03	1.1	<0.1	<0.05	6	<0.5	<0.2
PM11-RP67	Soil	19	0.30	148	0.104	<1	2.38	0.019	0.05	<0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
PM11-RP68	Soil	18	0.27	98	0.102	<1	2.35	0.020	0.05	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
PM11-RP69	Soil	13	0.17	69	0.096	<1	1.97	0.022	0.03	<0.1	0.04	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-RP70	Soil	11	0.12	58	0.093	1	2.24	0.015	0.02	<0.1	0.04	1.2	<0.1	<0.05	6	<0.5	<0.2
PM11-RP71	Soil	13	0.14	52	0.089	<1	2.39	0.015	0.03	<0.1	0.04	1.1	<0.1	<0.05	7	<0.5	<0.2
PM11-RP72	Soil	13	0.16	49	0.076	<1	1.80	0.013	0.04	<0.1	0.04	1.2	<0.1	<0.05	5	<0.5	<0.2
PM11-RP73	Soil	15	0.19	85	0.092	<1	2.47	0.014	0.04	<0.1	0.05	1.4	<0.1	<0.05	7	<0.5	<0.2
PM11-RP74	Soil	18	0.28	74	0.094	<1	2.08	0.016	0.04	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-RP75	Soil	15	0.18	79	0.077	<1	1.52	0.017	0.03	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2
PM11-RP76	Soil	17	0.33	87	0.095	<1	1.73	0.017	0.05	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11-RP77	Soil	21	0.26	171	0.081	<1	2.35	0.021	0.05	<0.1	0.04	2.0	<0.1	<0.05	7	<0.5	<0.2
PM11-RP78	Soil	23	0.27	87	0.093	<1	2.48	0.015	0.04	<0.1	0.01	1.9	<0.1	<0.05	7	<0.5	<0.2
PM11-RP79	Soil	17	0.25	154	0.093	<1	2.22	0.017	0.05	<0.1	0.02	1.7	<0.1	<0.05	7	<0.5	<0.2
PM11-RP80	Soil	34	0.34	115	0.085	<1	1.53	0.028	0.06	<0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
PM11-JF01	Soil	20	0.27	105	0.096	<1	2.68	0.018	0.04	<0.1	0.04	1.9	<0.1	<0.05	8	<0.5	<0.2
PM11-JF02	Soil	21	0.34	110	0.098	<1	1.84	0.021	0.04	<0.1	<0.01	1.6	<0.1	<0.05	7	<0.5	<0.2
PM11-JF03	Soil	28	0.86	154	0.092	<1	1.73	0.028	0.18	<0.1	<0.01	4.9	0.1	<0.05	6	<0.5	<0.2
PM11-JF04	Soil	31	0.66	157	0.116	1	1.74	0.025	0.15	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
PM11-JF05	Soil	24	0.93	799	0.089	36	1.81	0.219	0.65	0.1	<0.01	4.6	<0.1	<0.05	7	<0.5	<0.2
PM11-JF06	Soil	9	0.12	75	0.074	<1	1.40	0.018	0.11	<0.1	0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
PM11-JF07	Soil	27	0.36	136	0.097	1	2.17	0.020	0.05	<0.1	0.03	2.2	<0.1	<0.05	6	<0.5	<0.2
PM11-JF08	Soil	32	0.46	123	0.095	<1	1.82	0.021	0.05	<0.1	0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11-JF09	Soil	21	0.18	113	0.107	<1	2.93	0.017	0.04	<0.1	0.04	1.8	<0.1	<0.05	9	<0.5	<0.2



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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	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	
PM11-JF10	Soil		0.6	20.5	4.4	45	<0.1	19.4	6.6	172	2.20	2.7	4.8	1.4	26	<0.1	0.2	<0.1	63	0.19	0.034	5
PM11-JF11	Soil		0.4	7.6	4.5	28	<0.1	12.0	4.0	204	1.02	1.3	1.1	0.4	31	<0.1	<0.1	<0.1	29	0.20	0.019	4
PM11-JF12	Soil		0.7	20.2	5.0	43	<0.1	18.2	8.6	137	2.22	2.7	1.2	1.6	16	<0.1	0.1	<0.1	55	0.11	0.094	4
PM11-JF13	Soil		0.3	8.8	6.1	35	<0.1	13.1	4.7	118	1.14	1.0	1.7	0.5	29	<0.1	<0.1	<0.1	32	0.20	0.036	4
PM11-JF14	Soil		0.3	5.0	7.3	24	<0.1	7.6	2.3	50	0.95	0.9	0.7	0.4	15	<0.1	<0.1	<0.1	24	0.11	0.037	2
PM11-JF15	Soil		0.7	15.7	5.6	37	<0.1	15.9	7.6	399	1.70	1.8	2.7	0.9	47	0.1	0.2	<0.1	52	0.34	0.029	6
PM11-JF16	Soil		0.3	17.0	6.4	36	<0.1	15.3	5.9	212	1.80	1.9	2.5	1.4	40	0.1	<0.1	<0.1	46	0.31	0.024	6
PM11-JF17	Soil		0.8	17.0	4.1	45	<0.1	22.6	7.9	237	1.92	2.8	1.4	1.1	18	<0.1	<0.1	<0.1	52	0.14	0.118	4
PM11-JF18	Soil		0.6	21.2	7.4	31	<0.1	29.0	7.8	110	1.71	3.0	1.4	0.9	26	0.1	<0.1	0.1	46	0.17	0.090	4
PM11-JF19	Soil		0.4	18.7	4.2	28	<0.1	17.8	7.5	202	1.55	1.6	1.4	1.0	34	<0.1	<0.1	<0.1	50	0.30	0.046	6
PM11-JF20	Soil		0.6	14.5	5.6	35	<0.1	18.6	6.4	287	1.40	1.8	0.7	0.7	32	<0.1	0.1	<0.1	42	0.31	0.071	4
PM11-JF21	Soil		0.7	32.4	5.1	31	0.1	26.9	8.6	448	2.01	2.5	3.8	2.0	54	0.1	0.1	<0.1	68	0.44	0.050	26
PM11-JF22	Soil		0.2	15.2	4.6	23	0.1	12.5	4.1	101	1.41	1.6	2.2	0.8	62	<0.1	<0.1	<0.1	38	0.41	0.088	6
PM11-JF23	Soil		0.5	10.5	4.5	31	<0.1	13.3	5.4	148	1.47	2.3	1.3	1.1	11	<0.1	<0.1	<0.1	41	0.09	0.142	3
PM11-JF24	Soil		0.4	15.3	4.0	28	<0.1	18.2	6.3	85	1.63	2.4	1.5	1.3	16	<0.1	<0.1	<0.1	46	0.11	0.132	4
PM11-JF25	Soil		0.4	21.6	3.6	26	<0.1	20.7	7.3	116	1.87	2.8	<0.5	1.2	25	<0.1	0.1	0.1	57	0.15	0.060	5
PM11-JF26	Soil		0.3	15.9	5.0	23	<0.1	23.2	5.3	74	1.59	2.6	0.9	0.6	27	<0.1	<0.1	0.1	41	0.14	0.071	5
PM11-JF27	Soil		0.2	9.6	4.4	25	<0.1	11.6	3.9	79	1.22	0.6	1.7	0.7	26	<0.1	<0.1	<0.1	31	0.13	0.029	3
PM11-JF28	Soil		0.4	5.6	4.5	23	<0.1	7.4	3.4	72	1.30	1.1	<0.5	0.9	16	<0.1	<0.1	0.1	34	0.09	0.112	4
PM11-JF29	Soil		0.4	12.0	4.1	24	<0.1	14.7	5.6	115	1.64	2.0	10.6	1.0	20	<0.1	<0.1	<0.1	47	0.13	0.088	4
PM11-JF30	Soil		0.4	11.6	4.1	25	<0.1	13.0	4.9	169	1.39	1.4	1.6	0.6	34	<0.1	<0.1	<0.1	38	0.23	0.027	5
PM11-JF31	Soil		0.4	11.8	4.7	24	<0.1	13.2	4.9	237	1.38	1.1	<0.5	0.6	35	<0.1	<0.1	<0.1	38	0.24	0.030	6
PM11-JF32	Soil		0.3	11.0	5.2	22	<0.1	14.1	4.0	106	1.32	0.9	<0.5	0.6	27	<0.1	<0.1	<0.1	30	0.22	0.025	6
PM11-JF33	Soil		0.4	13.3	4.0	24	<0.1	13.5	5.5	169	1.48	1.3	<0.5	0.9	30	<0.1	<0.1	<0.1	42	0.23	0.017	9
PM11-JF34	Soil		0.2	11.2	3.5	23	<0.1	12.2	4.5	207	1.45	0.5	0.6	0.9	37	<0.1	<0.1	<0.1	37	0.26	0.016	8
PM11-JF35	Soil		0.6	16.0	4.4	24	<0.1	14.6	4.3	164	1.41	1.0	<0.5	0.7	56	<0.1	<0.1	<0.1	35	0.45	0.036	14
PM11-JF36	Soil		1.0	27.6	6.5	33	0.3	27.1	6.8	191	2.46	3.1	15.3	1.8	65	0.3	<0.1	0.1	64	0.45	0.113	19
PM11-JF37	Soil		0.5	16.5	3.8	48	0.2	16.3	6.7	553	2.08	3.2	2.2	1.2	69	0.2	0.1	<0.1	57	0.54	0.075	13
PM11-JF38	Soil		1.9	46.7	6.8	70	<0.1	117.4	24.9	565	3.18	15.4	1.8	2.0	111	0.3	0.3	0.2	81	0.53	0.082	22
PM11-JF39	Soil		1.7	47.2	6.7	69	<0.1	115.8	25.3	565	3.23	14.7	4.6	2.0	104	0.2	0.3	0.1	83	0.53	0.077	20

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Method Analyte	Unit	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
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	
PM11-JF10	Soil	41	0.59	86	0.112	<1	1.77	0.021	0.05	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
PM11-JF11	Soil	15	0.22	76	0.070	<1	1.07	0.020	0.06	<0.1	0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
PM11-JF12	Soil	24	0.37	115	0.101	<1	2.51	0.017	0.05	<0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
PM11-JF13	Soil	16	0.25	96	0.082	<1	1.43	0.019	0.05	<0.1	0.03	1.0	<0.1	<0.05	5	<0.5	<0.2
PM11-JF14	Soil	12	0.13	55	0.074	<1	1.17	0.015	0.02	<0.1	0.01	0.8	<0.1	<0.05	6	<0.5	<0.2
PM11-JF15	Soil	31	0.47	116	0.095	<1	1.28	0.023	0.08	<0.1	0.03	2.0	<0.1	<0.05	4	<0.5	<0.2
PM11-JF16	Soil	34	0.54	116	0.111	<1	1.67	0.028	0.09	<0.1	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
PM11-JF17	Soil	29	0.32	131	0.087	<1	1.87	0.017	0.04	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-JF18	Soil	32	0.32	147	0.095	1	2.07	0.018	0.04	<0.1	0.04	1.9	<0.1	<0.05	7	<0.5	<0.2
PM11-JF19	Soil	28	0.45	143	0.093	<1	1.25	0.019	0.09	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JF20	Soil	24	0.30	126	0.075	<1	1.35	0.016	0.05	<0.1	0.06	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JF21	Soil	36	0.44	205	0.093	<1	2.23	0.021	0.07	<0.1	0.04	6.2	<0.1	<0.05	6	<0.5	<0.2
PM11-JF22	Soil	25	0.29	128	0.080	<1	1.72	0.020	0.06	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11-JF23	Soil	19	0.17	76	0.084	<1	2.11	0.017	0.03	<0.1	0.04	1.4	<0.1	<0.05	6	<0.5	<0.2
PM11-JF24	Soil	22	0.19	85	0.085	1	2.20	0.018	0.03	<0.1	0.04	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-JF25	Soil	34	0.38	117	0.096	<1	1.74	0.018	0.03	<0.1	<0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-JF26	Soil	18	0.19	101	0.088	<1	1.97	0.019	0.03	<0.1	0.02	1.2	<0.1	<0.05	7	<0.5	<0.2
PM11-JF27	Soil	17	0.26	94	0.081	<1	1.34	0.019	0.04	<0.1	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
PM11-JF28	Soil	10	0.09	53	0.076	<1	1.53	0.016	0.02	<0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
PM11-JF29	Soil	21	0.28	91	0.087	<1	1.54	0.018	0.04	<0.1	<0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JF30	Soil	23	0.36	95	0.079	<1	1.29	0.023	0.05	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11-JF31	Soil	19	0.25	96	0.078	<1	1.34	0.022	0.04	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11-JF32	Soil	15	0.21	136	0.073	<1	1.61	0.023	0.04	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JF33	Soil	21	0.33	110	0.081	<1	1.21	0.025	0.04	<0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
PM11-JF34	Soil	19	0.31	100	0.082	<1	1.15	0.027	0.05	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PM11-JF35	Soil	19	0.30	125	0.066	2	1.27	0.031	0.06	<0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
PM11-JF36	Soil	48	0.41	250	0.083	3	3.32	0.018	0.16	<0.1	0.01	5.3	<0.1	<0.05	8	<0.5	<0.2
PM11-JF37	Soil	28	0.41	152	0.065	1	1.49	0.019	0.08	<0.1	0.02	3.2	<0.1	<0.05	5	0.6	<0.2
PM11-JF38	Soil	54	0.53	190	0.072	2	1.39	0.034	0.13	<0.1	0.02	6.6	0.2	<0.05	4	0.7	<0.2
PM11-JF39	Soil	59	0.53	185	0.075	2	1.43	0.032	0.13	<0.1	0.02	7.0	0.2	<0.05	4	1.0	<0.2



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VAN11003006.1

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	
PM11-JF40	Soil		1.7	47.1	6.5	62	0.1	102.8	21.1	498	2.92	13.3	2.4	1.4	107	0.2	0.3	<0.1	74	0.52	0.080	20
PM11-JF41	Soil		0.9	22.3	4.6	29	0.2	22.2	7.3	503	1.81	2.5	5.3	0.7	54	0.2	0.1	<0.1	40	0.79	0.044	10
PM11-JF42	Soil		0.7	10.9	4.9	31	<0.1	13.4	4.8	99	1.45	1.0	<0.5	0.5	20	<0.1	<0.1	<0.1	35	0.15	0.034	3
PM11-JF43	Soil		0.6	7.7	4.6	24	<0.1	9.5	3.7	77	1.26	0.6	<0.5	0.4	18	<0.1	<0.1	<0.1	29	0.16	0.020	2
PM11-JF44	Soil		0.3	6.3	5.1	27	<0.1	10.1	4.1	298	1.34	1.5	<0.5	0.6	18	<0.1	<0.1	<0.1	33	0.19	0.014	3
PM11-JF45	Soil		0.1	7.0	2.9	16	0.2	10.8	2.2	66	0.89	1.7	<0.5	0.6	16	<0.1	<0.1	<0.1	21	0.24	0.021	5
PM11-JF46	Soil		0.3	14.3	4.2	20	0.1	20.6	4.6	377	1.28	3.7	<0.5	0.7	29	0.1	<0.1	<0.1	30	0.35	0.024	4
PM11-JF47	Soil		0.6	13.4	3.8	30	<0.1	16.1	6.1	211	1.46	1.5	6.1	0.8	14	<0.1	<0.1	<0.1	34	0.13	0.107	3
PM11-JF48	Soil		0.8	13.5	3.7	33	<0.1	17.6	6.3	256	1.44	1.6	<0.5	0.8	14	<0.1	<0.1	<0.1	36	0.13	0.112	3
PM11-JF49	Soil		0.5	35.0	3.1	31	0.1	32.3	10.0	209	2.30	5.5	0.5	1.3	23	<0.1	0.2	<0.1	66	0.28	0.018	5
PM11-JF50	Soil		0.3	13.9	4.2	33	<0.1	21.5	6.1	499	1.43	2.2	<0.5	0.7	23	<0.1	<0.1	<0.1	35	0.28	0.136	2
PMS01	Rock Pulp		15.0	56.2	16.2	16	0.2	15.1	2.4	107	3.52	433.1	198.3	0.7	28	0.3	23.7	0.1	9	0.92	0.005	1
PM11-JF51	Soil		0.5	8.7	3.9	34	<0.1	16.3	5.7	485	1.43	1.3	0.8	0.7	10	<0.1	<0.1	<0.1	30	0.09	0.150	2
PM11-JF52	Soil		0.4	9.3	3.2	27	<0.1	15.6	5.2	152	1.28	1.2	<0.5	0.8	14	<0.1	<0.1	<0.1	30	0.15	0.081	3
PM11-JF53	Soil		0.3	13.8	3.3	42	<0.1	21.5	6.8	194	1.65	1.2	<0.5	0.8	17	<0.1	<0.1	<0.1	42	0.13	0.064	2
PM11-JF54	Soil		0.5	20.6	3.3	39	0.1	27.4	9.2	174	1.96	2.8	<0.5	0.7	17	<0.1	<0.1	<0.1	53	0.16	0.054	2
PM11-JF55	Soil		0.4	12.5	3.0	31	<0.1	18.6	6.4	169	1.60	1.2	<0.5	0.5	16	<0.1	<0.1	0.1	42	0.17	0.033	2
PM11-JF56	Soil		0.8	18.7	4.7	44	0.2	21.6	7.2	410	1.72	2.6	<0.5	1.1	26	<0.1	0.1	<0.1	47	0.20	0.081	5
PM11-JF57	Soil		0.6	23.9	4.2	44	<0.1	23.8	7.3	275	1.79	2.5	<0.5	1.1	24	<0.1	0.2	<0.1	47	0.20	0.062	7
PM11-JF58	Soil		0.4	11.7	4.0	72	0.2	17.9	4.7	675	1.33	1.2	<0.5	0.6	20	<0.1	<0.1	<0.1	30	0.16	0.115	3
PM11-JF59	Soil		0.7	11.4	4.4	55	0.1	21.4	6.3	461	1.56	1.1	<0.5	0.8	20	<0.1	<0.1	<0.1	42	0.16	0.062	3
PM11-JF60	Soil		0.6	14.2	3.8	45	0.1	23.8	6.6	250	1.58	1.7	19.1	1.1	17	<0.1	<0.1	<0.1	33	0.15	0.080	3
PM11-JF61	Soil		0.4	11.3	3.4	35	<0.1	17.1	5.5	150	1.34	1.3	35.6	0.5	18	<0.1	<0.1	<0.1	31	0.17	0.033	2
PM11-JF62	Soil		0.4	11.3	3.5	30	0.1	15.9	5.1	95	1.33	2.0	<0.5	0.5	13	<0.1	<0.1	<0.1	28	0.13	0.029	2
PM11-JF63	Soil		0.9	39.7	5.7	44	0.1	29.4	9.7	219	1.89	5.7	0.8	1.0	22	<0.1	0.1	<0.1	47	0.26	0.018	6
PM11-JF64	Soil		0.9	18.0	5.9	47	<0.1	20.1	9.0	552	1.75	2.5	<0.5	0.8	24	0.2	<0.1	<0.1	36	0.34	0.051	3
PM11-JF65	Soil		0.4	18.2	5.1	37	<0.1	21.3	6.8	205	1.66	1.7	<0.5	1.0	18	<0.1	0.1	<0.1	35	0.24	0.025	5
PM11-JF66	Soil		0.3	14.7	3.8	27	0.1	17.0	5.5	111	1.57	1.6	<0.5	0.7	22	<0.1	<0.1	<0.1	33	0.23	0.019	4
PM11-JF67	Soil		0.5	17.9	4.6	48	0.2	21.9	6.5	243	1.53	1.7	<0.5	0.9	26	<0.1	<0.1	<0.1	28	0.22	0.095	4
PM11-JF68	Soil		0.3	22.2	4.2	50	0.2	19.9	6.8	234	1.75	1.7	0.7	1.2	44	0.2	<0.1	<0.1	42	0.41	0.120	6

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VAN11003006.1

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	
PM11-JF40	Soil	50	0.50	182	0.062	2	1.36	0.030	0.13	<0.1	0.03	5.6	0.2	<0.05	4	0.6	<0.2
PM11-JF41	Soil	33	0.44	170	0.066	2	1.61	0.030	0.08	0.2	0.04	2.5	<0.1	<0.05	4	0.6	<0.2
PM11-JF42	Soil	24	0.28	101	0.067	<1	1.24	0.019	0.03	<0.1	<0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PM11-JF43	Soil	20	0.25	75	0.066	1	1.09	0.019	0.04	<0.1	<0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
PM11-JF44	Soil	13	0.17	113	0.074	<1	1.66	0.028	0.03	<0.1	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
PM11-JF45	Soil	7	0.12	37	0.060	<1	1.06	0.038	0.02	<0.1	0.01	0.9	<0.1	<0.05	2	<0.5	<0.2
PM11-JF46	Soil	26	0.25	182	0.066	1	1.79	0.030	0.05	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11-JF47	Soil	25	0.27	115	0.070	1	1.33	0.019	0.03	<0.1	0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11-JF48	Soil	26	0.29	113	0.071	<1	1.38	0.019	0.04	<0.1	<0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11-JF49	Soil	62	0.65	119	0.092	<1	1.42	0.030	0.12	<0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PM11-JF50	Soil	30	0.32	127	0.078	1	1.51	0.021	0.06	<0.1	0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
PMS01	Rock Pulp	20	0.02	912	0.009	<1	0.16	0.007	0.06	2.2	2.83	0.5	10.5	0.09	<1	1.4	<0.2
PM11-JF51	Soil	21	0.26	127	0.072	<1	1.38	0.018	0.04	<0.1	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
PM11-JF52	Soil	22	0.23	107	0.067	<1	1.26	0.019	0.05	<0.1	0.03	1.3	<0.1	<0.05	4	<0.5	<0.2
PM11-JF53	Soil	39	0.41	148	0.078	<1	1.52	0.019	0.06	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JF54	Soil	49	0.53	126	0.091	<1	1.66	0.027	0.05	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-JF55	Soil	34	0.39	109	0.072	<1	1.31	0.018	0.06	<0.1	<0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PM11-JF56	Soil	33	0.37	165	0.080	<1	1.52	0.020	0.08	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PM11-JF57	Soil	34	0.47	149	0.081	1	1.48	0.024	0.11	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JF58	Soil	20	0.21	147	0.062	<1	1.37	0.019	0.05	<0.1	0.02	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11-JF59	Soil	28	0.30	139	0.078	4	1.29	0.014	0.06	<0.1	0.02	1.4	<0.1	0.05	5	<0.5	<0.2
PM11-JF60	Soil	31	0.32	129	0.075	5	1.42	0.016	0.05	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-JF61	Soil	27	0.28	85	0.070	3	1.00	0.017	0.06	<0.1	0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11-JF62	Soil	26	0.27	82	0.069	<1	1.08	0.017	0.04	<0.1	0.02	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11-JF63	Soil	46	0.47	114	0.095	5	1.69	0.018	0.05	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JF64	Soil	37	0.34	138	0.080	3	1.55	0.016	0.06	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11-JF65	Soil	36	0.37	132	0.096	4	1.64	0.019	0.09	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
PM11-JF66	Soil	28	0.34	111	0.082	5	1.35	0.022	0.07	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PM11-JF67	Soil	28	0.34	193	0.075	7	1.80	0.018	0.12	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
PM11-JF68	Soil	35	0.34	200	0.074	2	1.95	0.021	0.07	<0.1	<0.01	3.1	<0.1	<0.05	5	0.8	<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	
PM11-JF69	Soil		0.5	13.8	4.0	50	0.2	21.6	7.1	261	1.57	1.6	<0.5	1.0	23	<0.1	<0.1	<0.1	31	0.16	0.129	4
PM11-JF70	Soil		0.7	8.1	3.9	71	0.1	17.9	4.9	469	1.33	1.3	1.1	0.9	19	0.1	<0.1	<0.1	26	0.14	0.162	3
PM11-JF71	Soil		0.7	12.3	4.0	59	0.2	23.1	5.6	258	1.46	<0.5	<0.5	0.8	23	<0.1	<0.1	<0.1	31	0.18	0.057	3
PM11-JF72	Soil		0.5	11.9	4.7	58	0.2	26.2	5.8	230	1.56	0.6	<0.5	0.9	28	<0.1	0.1	<0.1	34	0.20	0.052	4
PM11-JF73	Soil		1.0	30.9	4.0	51	<0.1	27.9	7.6	175	2.51	3.3	<0.5	1.7	41	<0.1	0.2	<0.1	59	0.25	0.026	8
PM11-JF74	Soil		0.7	6.4	4.3	69	<0.1	20.2	4.1	473	1.09	<0.5	<0.5	0.5	30	<0.1	<0.1	<0.1	16	0.21	0.097	3
PM11-JF75	Soil		0.7	16.0	4.8	59	<0.1	29.6	7.0	376	1.62	1.2	<0.5	1.1	40	<0.1	0.1	<0.1	36	0.22	0.048	5
PM11-JF76	Soil		1.3	35.4	4.8	56	<0.1	55.8	9.1	158	3.07	5.4	1.2	2.0	84	<0.1	0.2	<0.1	60	0.30	0.046	13
PM11-JF77	Soil		1.4	36.8	3.6	60	<0.1	82.1	7.9	140	3.55	9.8	1.2	2.9	93	<0.1	0.2	0.1	59	0.33	0.060	17
PM11-JF78	Soil		0.6	12.5	4.8	62	<0.1	22.2	5.7	224	1.57	<0.5	<0.5	1.0	24	<0.1	<0.1	<0.1	24	0.19	0.071	3
PM11-JF79	Soil		0.7	9.7	4.3	53	<0.1	19.8	4.7	259	1.31	<0.5	1.2	0.6	22	<0.1	<0.1	<0.1	30	0.13	0.029	2
PM11-JF80	Soil		0.5	14.8	4.3	55	0.3	22.3	5.6	158	1.45	1.1	3.8	1.1	31	<0.1	<0.1	<0.1	27	0.26	0.181	5
PM11-JF81	Soil		0.7	23.8	5.0	43	<0.1	22.8	8.4	243	2.23	1.5	<0.5	1.8	31	0.1	0.1	<0.1	49	0.37	0.028	7
PM11-JF82	Soil		0.7	14.8	4.9	37	<0.1	14.3	6.7	123	1.98	0.9	1.4	1.2	12	<0.1	0.1	<0.1	40	0.09	0.070	3
PM11-JF83	Soil		0.6	13.9	5.5	37	<0.1	11.7	6.7	148	1.99	1.0	1.1	1.3	14	<0.1	<0.1	<0.1	41	0.11	0.088	4
PM11-JF84	Soil		0.7	11.1	4.9	36	<0.1	11.1	6.5	227	1.96	0.7	<0.5	1.3	15	<0.1	<0.1	<0.1	38	0.13	0.104	3
PM11-JF85	Soil		0.5	13.6	4.3	32	<0.1	9.3	7.0	138	2.31	<0.5	1.5	1.8	15	<0.1	0.1	<0.1	45	0.13	0.095	4
PM11-JF86	Soil		0.5	8.8	4.7	26	<0.1	8.2	4.6	84	1.63	<0.5	<0.5	1.2	8	<0.1	<0.1	<0.1	34	0.08	0.071	3
PM11-JF87	Soil		0.6	18.2	5.6	38	<0.1	16.9	7.8	127	1.99	<0.5	<0.5	1.5	15	<0.1	0.1	<0.1	41	0.11	0.084	4
PM11-JF88	Soil		0.8	23.7	4.6	45	<0.1	20.6	8.9	186	2.36	1.1	0.7	1.7	28	<0.1	0.2	<0.1	47	0.19	0.063	5
PM11-JF89	Soil		0.4	10.5	4.3	34	<0.1	10.2	4.8	150	1.57	<0.5	<0.5	1.4	13	<0.1	<0.1	<0.1	29	0.09	0.132	3
PM11-JF90	Soil		0.6	17.6	4.4	35	<0.1	13.7	7.3	155	2.27	<0.5	<0.5	1.6	23	<0.1	0.1	<0.1	46	0.17	0.102	5
PM11-JF91	Soil		0.5	14.4	5.5	27	<0.1	13.2	5.7	98	1.73	<0.5	1.0	1.6	27	<0.1	<0.1	<0.1	31	0.15	0.102	6
PM11-JF92	Soil		0.6	6.5	4.8	19	<0.1	6.2	3.6	59	1.43	<0.5	<0.5	1.1	18	<0.1	<0.1	<0.1	28	0.12	0.131	3
PM11-JF93	Soil		0.7	8.2	5.3	16	<0.1	9.9	4.6	69	1.42	<0.5	0.7	0.9	22	<0.1	<0.1	0.1	30	0.14	0.076	4
PM11-JF94	Soil		0.4	9.5	4.8	28	<0.1	8.9	4.0	81	1.48	0.8	1.1	0.7	12	<0.1	<0.1	0.1	33	0.10	0.028	4
PM11-JF95	Soil		0.6	9.4	4.2	34	<0.1	10.1	5.9	94	2.20	1.6	2.2	1.4	14	<0.1	<0.1	0.1	49	0.14	0.227	3
PM11-JF96	Soil		0.4	8.2	3.3	19	<0.1	7.4	4.1	63	1.64	1.7	2.2	1.5	18	<0.1	<0.1	0.1	43	0.15	0.164	4
PM11-JF97	Soil		0.5	19.7	3.7	35	<0.1	18.6	7.8	151	2.05	2.8	2.2	1.2	22	<0.1	0.1	0.1	54	0.19	0.086	4
PM11-JF98	Soil		0.6	22.6	3.7	38	<0.1	21.2	9.0	170	2.19	3.0	7.7	1.2	26	<0.1	0.2	0.1	59	0.24	0.076	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: PLACER MTN.
Report Date: July 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11003006.1

Method Analyte	Unit	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
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	
PM11-JF69	Soil	27	0.30	159	0.080	6	1.68	0.017	0.08	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-JF70	Soil	16	0.18	146	0.075	6	1.47	0.017	0.07	<0.1	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11-JF71	Soil	27	0.33	180	0.082	4	1.57	0.016	0.14	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PM11-JF72	Soil	27	0.34	183	0.088	8	1.76	0.017	0.16	<0.1	0.01	1.8	<0.1	<0.05	5	0.5	<0.2
PM11-JF73	Soil	48	0.60	170	0.117	2	1.61	0.021	0.26	<0.1	<0.01	4.5	0.1	<0.05	5	<0.5	<0.2
PM11-JF74	Soil	16	0.14	149	0.062	4	1.26	0.017	0.12	<0.1	0.02	1.0	<0.1	<0.05	4	<0.5	<0.2
PM11-JF75	Soil	30	0.28	151	0.082	9	1.48	0.017	0.17	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PM11-JF76	Soil	54	0.55	163	0.091	11	1.63	0.022	0.19	<0.1	<0.01	6.5	0.1	<0.05	5	0.8	<0.2
PM11-JF77	Soil	59	0.54	186	0.080	5	1.43	0.034	0.22	<0.1	0.02	7.7	0.1	<0.05	4	0.6	<0.2
PM11-JF78	Soil	23	0.27	108	0.088	6	1.80	0.015	0.15	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-JF79	Soil	20	0.21	92	0.083	3	1.43	0.015	0.07	<0.1	<0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JF80	Soil	24	0.25	200	0.068	9	1.62	0.014	0.09	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-JF81	Soil	41	0.49	128	0.105	1	1.53	0.029	0.20	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
PM11-JF82	Soil	22	0.29	71	0.097	4	2.18	0.016	0.04	<0.1	0.01	1.9	<0.1	<0.05	7	<0.5	<0.2
PM11-JF83	Soil	20	0.29	82	0.099	8	2.05	0.015	0.04	<0.1	0.03	1.8	<0.1	<0.05	7	<0.5	<0.2
PM11-JF84	Soil	17	0.25	59	0.089	9	1.91	0.014	0.05	<0.1	0.04	1.4	<0.1	<0.05	6	<0.5	<0.2
PM11-JF85	Soil	14	0.32	96	0.110	2	2.21	0.014	0.04	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
PM11-JF86	Soil	13	0.18	45	0.089	8	1.64	0.015	0.03	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
PM11-JF87	Soil	25	0.34	108	0.097	6	2.30	0.015	0.04	<0.1	0.03	1.8	<0.1	<0.05	7	<0.5	<0.2
PM11-JF88	Soil	33	0.54	135	0.107	5	2.04	0.016	0.08	<0.1	0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
PM11-JF89	Soil	13	0.15	99	0.087	4	1.96	0.014	0.03	<0.1	0.01	1.3	<0.1	<0.05	6	<0.5	<0.2
PM11-JF90	Soil	25	0.42	124	0.091	4	2.04	0.014	0.07	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-JF91	Soil	18	0.25	154	0.085	3	2.42	0.018	0.05	<0.1	0.01	1.7	<0.1	<0.05	8	<0.5	<0.2
PM11-JF92	Soil	11	0.14	58	0.082	6	1.59	0.017	0.03	<0.1	0.02	1.0	<0.1	<0.05	7	<0.5	<0.2
PM11-JF93	Soil	11	0.18	113	0.086	4	1.83	0.017	0.03	<0.1	0.02	1.0	<0.1	<0.05	7	<0.5	<0.2
PM11-JF94	Soil	14	0.21	101	0.082	2	1.64	0.019	0.04	<0.1	0.01	1.0	<0.1	0.07	5	<0.5	<0.2
PM11-JF95	Soil	19	0.25	104	0.101	1	1.86	0.016	0.03	<0.1	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2
PM11-JF96	Soil	16	0.15	60	0.072	1	1.85	0.015	0.03	<0.1	0.03	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JF97	Soil	33	0.41	120	0.098	2	1.99	0.025	0.04	<0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JF98	Soil	37	0.47	140	0.105	2	1.98	0.033	0.06	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

VAN11003006.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	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	
PM11-JF99	Soil			0.4	21.9	4.3	55	<0.1	19.4	8.8	153	2.57	2.6	0.7	0.8	36	<0.1	<0.1	0.1	64	0.33	0.104	5
PM11-JF100	Soil			0.3	13.7	4.6	40	<0.1	12.6	5.1	105	1.57	1.8	<0.5	0.5	21	0.1	<0.1	0.1	37	0.18	0.125	4
PMS02	Rock Pulp			119.4	3492	22.5	61	2.4	36.3	20.9	403	4.27	56.2	452.3	2.0	28	0.4	3.4	0.4	113	0.34	0.093	11
PM11-JF101	Soil			0.2	18.1	3.3	31	<0.1	16.3	5.6	134	1.34	1.3	1.1	0.6	23	<0.1	<0.1	<0.1	39	0.23	0.018	3
PM11-JF102	Soil			0.4	21.0	4.1	34	<0.1	17.5	6.3	191	1.61	1.6	2.0	0.7	31	<0.1	0.1	<0.1	39	0.25	0.034	5
PM11-JF103	Soil			0.3	24.6	2.8	29	<0.1	23.9	6.8	132	1.78	2.8	1.2	1.1	30	<0.1	<0.1	<0.1	52	0.27	0.044	4
PM11-JF104	Soil			0.4	14.5	5.2	20	<0.1	16.8	4.8	54	1.74	3.3	3.4	1.3	12	<0.1	<0.1	0.1	42	0.08	0.149	4
PM11-JF105	Soil			0.2	17.3	5.0	25	<0.1	22.3	6.3	68	1.62	2.0	1.5	0.8	24	<0.1	<0.1	0.1	38	0.16	0.062	2
PM11-JF106	Soil			0.2	15.0	4.1	22	<0.1	19.2	5.2	72	1.37	1.6	1.5	0.7	22	<0.1	<0.1	<0.1	36	0.17	0.040	2
PM11-JF107	Soil			0.4	19.6	4.6	27	<0.1	26.0	7.0	94	1.87	3.3	1.6	1.3	23	<0.1	<0.1	<0.1	46	0.18	0.176	4
PM11-JF108	Soil			0.3	31.5	7.5	26	0.1	37.9	7.8	49	2.31	5.8	1.9	1.7	28	<0.1	<0.1	0.2	45	0.15	0.167	5
PM11-JF109	Soil			0.3	22.7	5.1	26	<0.1	27.6	7.6	94	2.06	3.6	1.3	1.5	35	<0.1	<0.1	0.1	43	0.18	0.145	5
PM11-JF110	Soil			0.2	12.8	3.9	19	<0.1	14.9	4.1	102	1.23	1.3	1.3	0.7	27	<0.1	<0.1	<0.1	29	0.22	0.011	5
PM11-JF111	Soil			0.2	10.9	4.0	20	<0.1	11.8	4.3	89	1.18	0.5	0.6	0.5	27	<0.1	<0.1	<0.1	30	0.25	0.021	5
PM11-JF112	Soil			0.3	15.2	3.1	26	<0.1	18.7	6.5	118	1.72	1.4	4.0	1.0	24	<0.1	<0.1	<0.1	46	0.29	0.043	3
PM11-JF113	Soil			0.3	13.6	4.4	21	<0.1	14.9	5.2	129	1.55	0.9	1.6	1.2	28	<0.1	<0.1	<0.1	36	0.32	0.018	6
PM11-JF114	Soil			0.3	12.1	4.0	23	<0.1	14.3	5.5	158	1.40	0.8	0.8	1.0	32	<0.1	<0.1	<0.1	40	0.32	0.020	6
PM11-JF115	Soil			0.6	18.1	4.7	25	<0.1	17.1	6.5	395	1.54	1.3	1.3	1.1	39	<0.1	<0.1	<0.1	39	0.49	0.030	10
PM11-JF116	Soil			0.3	15.1	3.7	21	<0.1	14.3	5.1	137	1.52	0.8	2.0	1.4	36	<0.1	<0.1	<0.1	38	0.41	0.014	7
PM11-JF117	Soil			0.3	20.3	4.4	33	<0.1	17.9	6.0	126	1.67	1.2	1.1	1.3	34	<0.1	<0.1	<0.1	43	0.33	0.028	14
PM11-JF118	Soil			0.4	39.9	4.6	27	0.2	31.5	8.2	393	2.31	3.2	0.7	1.2	77	0.1	0.1	<0.1	54	0.79	0.045	23
PM11-JF119	Soil			0.5	25.0	3.6	32	<0.1	21.6	7.9	276	1.92	1.6	1.5	1.6	48	<0.1	<0.1	<0.1	48	0.43	0.046	9
PM11-JF120	Soil			1.7	29.5	4.0	28	<0.1	19.1	7.1	292	1.69	1.3	1.5	1.7	35	<0.1	<0.1	<0.1	47	0.37	0.026	12
PM11-JF121	Soil			1.5	52.4	5.2	35	0.1	27.0	9.1	376	2.47	3.0	1.9	1.9	41	<0.1	0.1	<0.1	61	0.52	0.038	16
PM11-JF122	Soil			0.6	46.5	5.9	38	0.1	34.6	9.2	327	2.71	5.0	1.3	1.8	39	<0.1	<0.1	0.1	50	0.54	0.025	10
PM11-JF123	Soil			0.3	27.4	4.5	29	<0.1	22.6	7.0	205	1.74	1.6	1.5	1.9	39	<0.1	0.1	<0.1	41	0.44	0.023	10
PM11-JF124	Soil			0.3	16.2	3.6	26	<0.1	15.3	5.1	144	1.52	1.3	0.7	1.1	31	<0.1	<0.1	<0.1	36	0.33	0.018	5
PM11-JF125	Soil			0.3	30.3	4.5	22	<0.1	18.5	5.3	192	1.66	1.4	1.1	1.8	40	<0.1	<0.1	<0.1	38	0.35	0.031	9
PM11-JF126	Soil			0.1	10.3	3.2	21	<0.1	11.6	4.2	102	1.18	<0.5	1.8	0.9	30	<0.1	<0.1	<0.1	28	0.25	0.014	4
PM11-JF127	Soil			0.3	14.6	3.0	31	<0.1	18.6	5.7	123	1.60	1.2	1.5	1.1	29	<0.1	<0.1	<0.1	45	0.26	0.036	4

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Project: PLACER MTN.
Report Date: July 23, 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	
	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		
PM11-JF99	Soil	24	0.57	141	0.127	1	2.09	0.022	0.04	<0.1	0.01	2.4	<0.1	<0.05	7	<0.5	<0.2
PM11-JF100	Soil	19	0.26	93	0.083	<1	1.74	0.024	0.03	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
PMS02	Rock Pulp	53	0.93	48	0.114	3	1.40	0.039	0.94	5.0	0.07	9.3	0.5	1.93	6	6.6	0.8
PM11-JF101	Soil	34	0.44	80	0.096	<1	1.36	0.027	0.03	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PM11-JF102	Soil	33	0.47	105	0.088	<1	1.59	0.023	0.05	<0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JF103	Soil	39	0.46	135	0.100	<1	1.42	0.025	0.06	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
PM11-JF104	Soil	18	0.14	81	0.103	<1	2.79	0.018	0.02	<0.1	0.04	1.9	<0.1	<0.05	8	<0.5	<0.2
PM11-JF105	Soil	24	0.25	103	0.106	<1	2.18	0.019	0.03	<0.1	0.01	1.5	<0.1	<0.05	7	<0.5	<0.2
PM11-JF106	Soil	30	0.27	93	0.099	<1	1.80	0.020	0.03	<0.1	<0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-JF107	Soil	29	0.27	94	0.088	<1	2.71	0.018	0.05	<0.1	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2
PM11-JF108	Soil	31	0.19	264	0.137	<1	4.68	0.020	0.05	0.1	0.04	2.0	<0.1	<0.05	12	<0.5	<0.2
PM11-JF109	Soil	29	0.23	199	0.106	<1	3.06	0.020	0.06	<0.1	0.03	1.9	<0.1	<0.05	8	<0.5	<0.2
PM11-JF110	Soil	24	0.31	95	0.087	<1	1.38	0.030	0.04	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JF111	Soil	19	0.23	85	0.067	<1	1.26	0.030	0.03	<0.1	0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PM11-JF112	Soil	33	0.39	120	0.093	<1	1.44	0.027	0.06	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-JF113	Soil	22	0.32	156	0.102	<1	1.77	0.050	0.06	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JF114	Soil	26	0.32	133	0.091	<1	1.49	0.035	0.05	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PM11-JF115	Soil	26	0.35	148	0.084	<1	1.56	0.029	0.06	<0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
PM11-JF116	Soil	31	0.38	108	0.101	<1	1.42	0.038	0.07	<0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
PM11-JF117	Soil	27	0.39	132	0.096	<1	1.85	0.038	0.06	<0.1	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
PM11-JF118	Soil	42	0.58	193	0.090	<1	2.37	0.028	0.10	<0.1	0.04	5.2	<0.1	<0.05	6	<0.5	<0.2
PM11-JF119	Soil	34	0.48	147	0.102	<1	1.52	0.032	0.09	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JF120	Soil	36	0.44	136	0.101	<1	1.52	0.038	0.07	<0.1	0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
PM11-JF121	Soil	44	0.50	181	0.118	<1	2.23	0.048	0.10	<0.1	0.02	5.1	<0.1	<0.05	7	<0.5	<0.2
PM11-JF122	Soil	56	0.55	186	0.101	<1	3.28	0.042	0.08	<0.1	0.03	6.0	<0.1	<0.05	8	<0.5	<0.2
PM11-JF123	Soil	45	0.55	171	0.115	<1	1.91	0.045	0.09	<0.1	0.01	4.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JF124	Soil	34	0.43	108	0.088	<1	1.54	0.038	0.06	<0.1	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PM11-JF125	Soil	33	0.35	148	0.091	<1	1.92	0.040	0.05	<0.1	0.01	3.8	<0.1	<0.05	6	<0.5	<0.2
PM11-JF126	Soil	29	0.37	103	0.090	<1	1.15	0.038	0.06	<0.1	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
PM11-JF127	Soil	37	0.47	129	0.096	<1	1.48	0.028	0.05	<0.1	<0.01	2.1	<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	
		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
PM11-JF128	Soil	0.2	10.8	2.6	21	<0.1	12.0	4.0	90	1.39	1.4	5.0	1.1	29	<0.1	<0.1	<0.1	37	0.27	0.023	4
PM11-JF129	Soil	0.5	13.0	2.9	27	<0.1	17.0	6.0	115	1.53	2.1	4.6	1.1	31	<0.1	<0.1	<0.1	48	0.31	0.053	6
PM11-JF130	Soil	0.5	38.0	5.3	44	0.2	23.6	6.6	281	2.39	3.1	3.9	1.7	54	0.2	<0.1	0.1	65	0.46	0.055	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
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
PM11-JF128	Soil	31	0.38	107	0.076	<1	1.10	0.026	0.05	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
PM11-JF129	Soil	35	0.43	120	0.075	<1	1.23	0.022	0.06	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PM11-JF130	Soil	43	0.53	179	0.092	<1	2.33	0.026	0.10	<0.1	0.02	4.7	<0.1	<0.05	7	<0.5	<0.2



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QUALITY CONTROL REPORT

VAN11003006.1

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																					
PM11-RP12	Soil	0.6	13.1	4.2	79	0.2	22.1	5.2	407	1.30	2.0	1.7	1.3	24	0.2	<0.1	<0.1	36	0.16	0.123	5
REP PM11-RP12	QC	0.8	13.5	4.3	81	0.2	23.9	5.4	410	1.32	1.9	<0.5	1.3	24	0.2	<0.1	<0.1	35	0.16	0.128	5
PM11-RP33	Soil	0.5	18.8	3.6	50	0.1	26.1	8.7	366	1.90	2.1	0.6	1.2	28	<0.1	0.1	<0.1	49	0.24	0.055	4
REP PM11-RP33	QC	0.5	18.7	3.9	51	0.1	26.6	8.7	373	1.86	2.0	1.7	0.9	27	<0.1	0.2	<0.1	50	0.24	0.055	4
PM11-RP47	Soil	0.6	16.2	4.3	34	<0.1	17.4	7.1	117	1.86	2.1	3.7	1.1	13	<0.1	<0.1	0.1	44	0.13	0.144	4
REP PM11-RP47	QC	0.6	16.9	4.2	34	<0.1	17.5	7.0	116	1.86	2.4	9.1	1.2	12	<0.1	0.1	0.2	45	0.13	0.147	4
PM11-RP63	Soil	0.4	12.5	5.4	34	0.1	15.3	5.2	97	1.58	1.6	1.4	0.7	24	<0.1	<0.1	0.1	36	0.13	0.093	4
REP PM11-RP63	QC	0.5	12.9	5.3	34	0.1	15.4	5.3	98	1.56	1.7	1.8	0.7	24	<0.1	<0.1	0.1	36	0.14	0.095	4
PM11-RP74	Soil	0.8	12.9	4.3	34	<0.1	12.8	7.0	122	2.05	2.6	0.7	2.2	11	<0.1	<0.1	<0.1	53	0.09	0.088	3
REP PM11-RP74	QC	0.6	12.7	4.3	33	<0.1	13.2	6.9	120	2.01	2.2	2.8	2.3	11	<0.1	0.1	<0.1	54	0.09	0.087	3
PM11-JF17	Soil	0.8	17.0	4.1	45	<0.1	22.6	7.9	237	1.92	2.8	1.4	1.1	18	<0.1	<0.1	<0.1	52	0.14	0.118	4
REP PM11-JF17	QC	0.8	15.9	4.9	44	<0.1	22.5	8.1	239	1.91	2.6	0.7	1.1	18	<0.1	<0.1	<0.1	53	0.14	0.110	4
PM11-JF36	Soil	1.0	27.6	6.5	33	0.3	27.1	6.8	191	2.46	3.1	15.3	1.8	65	0.3	<0.1	0.1	64	0.45	0.113	19
REP PM11-JF36	QC	1.1	27.7	6.1	32	0.3	27.3	7.5	186	2.59	3.3	1.3	1.8	63	0.4	0.1	0.1	60	0.44	0.108	20
PM11-JF53	Soil	0.3	13.8	3.3	42	<0.1	21.5	6.8	194	1.65	1.2	<0.5	0.8	17	<0.1	<0.1	<0.1	42	0.13	0.064	2
REP PM11-JF53	QC	0.3	13.7	3.2	40	<0.1	20.6	6.6	181	1.58	1.0	<0.5	0.7	16	<0.1	<0.1	<0.1	40	0.13	0.065	2
PM11-JF68	Soil	0.3	22.2	4.2	50	0.2	19.9	6.8	234	1.75	1.7	0.7	1.2	44	0.2	<0.1	<0.1	42	0.41	0.120	6
REP PM11-JF68	QC	0.3	21.1	4.4	49	0.2	18.1	6.5	221	1.68	1.2	0.7	1.1	43	0.1	<0.1	<0.1	33	0.41	0.117	6
PM11-JF85	Soil	0.5	13.6	4.3	32	<0.1	9.3	7.0	138	2.31	<0.5	1.5	1.8	15	<0.1	0.1	<0.1	45	0.13	0.095	4
REP PM11-JF85	QC	0.4	13.0	4.2	32	<0.1	9.3	6.8	133	2.21	<0.5	0.7	1.8	15	<0.1	<0.1	<0.1	43	0.12	0.096	4
PM11-JF107	Soil	0.4	19.6	4.6	27	<0.1	26.0	7.0	94	1.87	3.3	1.6	1.3	23	<0.1	<0.1	<0.1	46	0.18	0.176	4
REP PM11-JF107	QC	0.4	21.7	4.6	28	<0.1	26.8	7.5	94	1.90	3.3	1.7	1.5	22	<0.1	<0.1	<0.1	43	0.18	0.175	4
PM11-JF122	Soil	0.6	46.5	5.9	38	0.1	34.6	9.2	327	2.71	5.0	1.3	1.8	39	<0.1	<0.1	0.1	50	0.54	0.025	10
REP PM11-JF122	QC	0.6	46.6	6.0	34	0.1	36.6	9.5	323	2.70	4.8	1.2	1.9	41	<0.1	<0.1	0.1	50	0.54	0.026	10
Reference Materials																					
STD DS8	Standard	13.3	114.6	120.9	339	1.8	40.6	7.5	658	2.50	29.1	116.5	6.5	59	2.6	5.5	6.0	44	0.72	0.091	14
STD DS8	Standard	13.0	118.8	123.0	346	1.8	40.3	7.8	636	2.57	29.1	111.7	6.7	61	2.6	5.5	6.3	46	0.73	0.090	14
STD DS8	Standard	12.1	101.7	116.4	293	1.7	36.2	7.0	552	2.22	23.6	106.0	6.3	56	2.1	5.1	5.9	40	0.62	0.070	13

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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																	
PM11-RP12	Soil	23	0.26	170	0.078	1	1.62	0.020	0.09	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
REP PM11-RP12	QC	23	0.26	168	0.077	1	1.63	0.025	0.10	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-RP33	Soil	43	0.50	142	0.089	1	1.73	0.022	0.12	<0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
REP PM11-RP33	QC	44	0.51	146	0.092	<1	1.68	0.025	0.13	<0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
PM11-RP47	Soil	26	0.31	94	0.094	2	1.92	0.021	0.04	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
REP PM11-RP47	QC	26	0.32	97	0.092	<1	1.94	0.021	0.04	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11-RP63	Soil	20	0.24	123	0.083	<1	1.73	0.016	0.05	<0.1	0.03	1.2	<0.1	<0.05	7	<0.5	<0.2
REP PM11-RP63	QC	20	0.25	125	0.082	<1	1.74	0.020	0.04	<0.1	0.03	1.2	<0.1	<0.05	7	<0.5	<0.2
PM11-RP74	Soil	18	0.28	74	0.094	<1	2.08	0.016	0.04	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
REP PM11-RP74	QC	18	0.28	77	0.095	<1	2.08	0.015	0.04	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-JF17	Soil	29	0.32	131	0.087	<1	1.87	0.017	0.04	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
REP PM11-JF17	QC	30	0.32	133	0.088	<1	1.85	0.018	0.04	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
PM11-JF36	Soil	48	0.41	250	0.083	3	3.32	0.018	0.16	<0.1	0.01	5.3	<0.1	<0.05	8	<0.5	<0.2
REP PM11-JF36	QC	47	0.40	242	0.082	3	3.22	0.017	0.15	<0.1	0.03	4.8	<0.1	<0.05	9	0.6	<0.2
PM11-JF53	Soil	39	0.41	148	0.078	<1	1.52	0.019	0.06	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
REP PM11-JF53	QC	36	0.39	151	0.078	<1	1.40	0.019	0.06	<0.1	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PM11-JF68	Soil	35	0.34	200	0.074	2	1.95	0.021	0.07	<0.1	<0.01	3.1	<0.1	<0.05	5	0.8	<0.2
REP PM11-JF68	QC	34	0.33	191	0.068	12	1.86	0.020	0.07	<0.1	<0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
PM11-JF85	Soil	14	0.32	96	0.110	2	2.21	0.014	0.04	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
REP PM11-JF85	QC	14	0.28	98	0.101	8	2.15	0.015	0.04	<0.1	<0.01	1.9	<0.1	<0.05	7	<0.5	<0.2
PM11-JF107	Soil	29	0.27	94	0.088	<1	2.71	0.018	0.05	<0.1	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2
REP PM11-JF107	QC	27	0.26	96	0.088	<1	2.79	0.018	0.05	<0.1	0.04	2.1	<0.1	<0.05	6	<0.5	<0.2
PM11-JF122	Soil	56	0.55	186	0.101	<1	3.28	0.042	0.08	<0.1	0.03	6.0	<0.1	<0.05	8	<0.5	<0.2
REP PM11-JF122	QC	53	0.55	191	0.101	<1	3.13	0.041	0.09	<0.1	0.02	6.0	<0.1	<0.05	8	0.5	<0.2
Reference Materials																	
STD DS8	Standard	120	0.63	280	0.100	<1	0.94	0.085	0.44	3.0	0.19	2.3	5.1	0.17	5	4.9	5.4
STD DS8	Standard	119	0.67	297	0.101	3	0.95	0.087	0.45	3.4	0.22	2.2	5.4	0.17	5	5.9	5.4
STD DS8	Standard	112	0.56	255	0.106	2	0.82	0.078	0.37	2.8	0.18	1.9	5.1	0.14	4	5.5	4.4



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Project: PLACER MTN.
Report Date: July 23, 2011

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QUALITY CONTROL REPORT

VAN11003006.1

		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	12.7	106.3	116.1	301	1.8	37.0	7.2	574	2.30	24.4	106.9	6.3	59	2.0	5.0	6.1	41	0.64	0.073	14
STD DS8	Standard	12.0	99.3	129.8	290	1.7	35.2	7.2	584	2.31	25.5	106.6	6.4	63	2.3	5.5	6.2	40	0.62	0.071	13
STD DS8	Standard	14.8	96.8	128.5	294	1.7	35.8	7.1	602	2.29	24.6	101.6	6.2	60	2.0	4.8	6.2	37	0.64	0.079	13
STD DS8	Standard	13.1	104.9	125.4	298	1.8	36.5	7.6	604	2.42	27.1	106.9	6.6	63	2.4	5.5	6.2	43	0.67	0.075	14
STD DS8	Standard	12.3	98.3	118.7	279	1.7	34.6	6.5	566	2.25	25.1	100.6	6.5	59	2.1	4.7	5.9	41	0.66	0.073	13
STD DS8	Standard	12.9	108.4	123.8	302	1.8	37.6	7.6	600	2.46	26.9	101.1	6.6	62	2.4	5.1	6.3	43	0.68	0.078	13
STD DS8	Standard	13.4	107.2	124.8	303	1.8	37.2	7.6	595	2.45	27.0	110.1	6.7	61	2.3	5.0	6.2	42	0.67	0.079	14
STD DS8	Standard	12.6	110.8	124.9	306	1.8	37.4	7.6	600	2.41	26.4	114.5	6.4	69	2.3	5.6	6.5	40	0.65	0.079	13
STD DS8	Standard	12.5	105.6	124.4	305	1.7	36.2	7.3	578	2.32	26.1	116.0	6.8	70	2.3	5.7	6.5	39	0.63	0.076	14
STD DS8	Standard	12.7	99.1	124.7	294	1.8	36.1	7.2	559	2.39	26.8	109.8	6.3	63	2.3	5.1	6.3	36	0.71	0.077	13
STD DS8	Standard	13.5	100.6	124.3	293	1.8	35.8	7.4	602	2.32	26.7	100.0	6.7	64	2.5	5.3	6.6	37	0.71	0.082	14
STD DS8	Standard	11.6	104.2	119.1	290	1.7	36.4	7.0	587	2.36	24.2	114.2	6.4	60	2.1	5.0	6.1	34	0.65	0.078	12
STD DS8	Standard	11.1	98.6	121.0	277	1.6	33.8	6.7	545	2.25	21.0	93.7	6.1	57	2.1	4.8	5.9	30	0.63	0.079	12
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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Project: PLACER MTN.
 Report Date: July 23, 2011

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QUALITY CONTROL REPORT

VAN11003006.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	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	0.58	265	0.108	2	0.86	0.081	0.39	2.7	0.21	2.1	5.2	0.16	4	5.4	4.6
STD DS8	Standard	110	0.58	261	0.112	3	0.83	0.080	0.41	2.9	0.21	1.9	5.4	0.16	4	5.1	4.8
STD DS8	Standard	107	0.59	257	0.107	3	0.84	0.083	0.39	2.9	0.21	1.8	5.3	0.14	4	4.8	4.3
STD DS8	Standard	117	0.58	281	0.112	2	0.88	0.092	0.41	3.1	0.19	2.2	5.0	0.16	4	4.6	4.8
STD DS8	Standard	109	0.54	264	0.106	2	0.83	0.085	0.38	2.5	0.17	2.0	5.0	0.14	4	4.8	4.3
STD DS8	Standard	116	0.61	275	0.109	3	0.88	0.083	0.41	3.0	0.18	1.8	5.3	0.17	4	5.9	4.4
STD DS8	Standard	115	0.59	271	0.110	3	0.88	0.083	0.40	2.9	0.22	1.9	5.2	0.16	4	5.1	4.9
STD DS8	Standard	112	0.59	268	0.120	3	0.88	0.097	0.42	2.9	0.20	1.9	5.1	0.15	4	5.2	4.9
STD DS8	Standard	109	0.57	268	0.116	2	0.85	0.093	0.40	3.0	0.19	1.9	5.3	0.12	5	4.9	4.8
STD DS8	Standard	111	0.58	270	0.113	1	0.91	0.100	0.47	3.1	0.21	2.2	5.2	0.16	5	4.9	4.7
STD DS8	Standard	118	0.61	273	0.120	3	0.94	0.113	0.47	2.9	0.19	2.3	5.4	0.18	5	5.3	4.8
STD DS8	Standard	110	0.57	249	0.108	11	0.84	0.071	0.39	3.0	0.23	1.7	5.1	0.14	4	6.2	4.7
STD DS8	Standard	105	0.56	248	0.102	10	0.82	0.069	0.36	2.7	0.15	1.7	4.9	0.13	4	4.9	5.6
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
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: July 07, 2011

Report Date: July 24, 2011

Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN11003007.1

CLIENT JOB INFORMATION

Project: PLACER MTN.
Shipment ID: Shipment #1
P.O. Number
Number of Samples: 15

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	15	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX2	15	1:1:1 Aqua Regia digestion ICP-MS analysis	15	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
Bill 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: PLACER MTN.
 Report Date: July 24, 2011

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CERTIFICATE OF ANALYSIS

VAN11003007.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
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	
PM11-GWR01	Rock	1.24	10.0	69.1	131.5	28	48.3	8.8	8.3	1445	3.02	40.8	14937	0.7	14	0.4	18.5	1.1	20	0.01	0.027
PM11-GWR02	Rock	2.09	11.8	5.3	33.3	3	60.5	1.6	0.9	147	0.53	14.8	23149	<0.1	2	0.2	10.8	0.5	3	0.02	0.011
PM11-GWR03	Rock	2.00	0.8	9.7	2.7	3	5.6	1.6	0.5	53	0.58	3.5	315.4	<0.1	<1	<0.1	1.5	<0.1	3	<0.01	0.003
PM11-GWR04	Rock	1.76	0.8	18.3	4.2	2	65.7	1.4	1.0	55	0.76	6.9	4477	<0.1	1	<0.1	7.7	0.3	<2	<0.01	0.002
PM11-GWR05	Rock	2.36	0.6	6.2	4.0	2	46.0	1.2	1.2	40	0.85	10.2	10075	<0.1	4	<0.1	6.6	<0.1	2	<0.01	0.004
PM11-GWR06	Rock	1.93	4.2	13.1	11.7	4	14.0	3.0	1.4	74	0.59	7.2	2607	<0.1	1	<0.1	7.8	0.6	4	<0.01	0.003
PM11-GWR07	Rock	1.70	13.2	16.4	9.1	7	80.0	3.4	1.4	70	0.88	6.5	9769	<0.1	1	<0.1	22.5	0.6	8	<0.01	0.006
PM11-GWR08	Rock	1.92	1.0	13.9	191.7	13	27.0	1.5	1.2	177	0.67	5.8	13831	<0.1	1	0.1	15.6	0.3	6	<0.01	0.005
PM11-GWR09	Rock	1.87	0.9	27.1	186.4	23	22.2	1.5	0.5	59	0.56	8.0	782.0	<0.1	<1	0.3	21.8	0.2	7	<0.01	0.004
PM11-GWR10	Rock	0.18	0.3	2.4	2.6	2	0.4	2.0	0.6	69	0.54	<0.5	28.8	<0.1	<1	<0.1	0.3	<0.1	2	<0.01	0.002
PM11-GWR11	Rock	1.35	0.3	5.2	0.8	<1	0.7	1.3	0.5	34	0.42	3.1	27.0	<0.1	<1	<0.1	0.2	<0.1	<2	<0.01	<0.001
PM11-GWR12	Rock	1.12	0.2	2.9	0.6	4	<0.1	1.7	0.9	63	0.50	0.9	2.0	<0.1	<1	<0.1	<0.1	<0.1	5	0.02	0.001
PM11-GWR13	Rock	1.97	0.3	12.2	0.8	<1	1.7	1.2	0.4	36	0.48	2.9	107.0	<0.1	<1	<0.1	0.8	0.2	2	<0.01	<0.001
14806	Rock	0.74	1.2	11.5	1.8	2	7.0	2.7	1.1	165	0.61	4.1	476.4	<0.1	2	<0.1	1.7	0.1	3	<0.01	0.002
14807	Rock	2.86	0.4	2.0	0.3	<1	<0.1	1.1	0.3	26	0.31	1.3	1.9	<0.1	2	<0.1	<0.1	<0.1	<2	<0.01	0.001



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 Report Date: July 24, 2011

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CERTIFICATE OF ANALYSIS

VAN11003007.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2
PM11-GWR01	Rock	2	8	0.01	106	0.002	<1	0.12	0.005	0.05	<0.1	0.09	1.4	<0.1	<0.05	<1	<0.5	16.9
PM11-GWR02	Rock	<1	8	<0.01	17	0.002	<1	0.03	0.003	0.01	<0.1	0.15	0.2	<0.1	<0.05	<1	<0.5	11.8
PM11-GWR03	Rock	<1	10	<0.01	7	<0.001	<1	0.02	0.003	<0.01	<0.1	0.01	0.2	<0.1	<0.05	<1	<0.5	3.5
PM11-GWR04	Rock	<1	9	<0.01	7	<0.001	<1	0.01	0.002	<0.01	<0.1	0.05	0.2	<0.1	0.22	<1	<0.5	5.4
PM11-GWR05	Rock	<1	11	<0.01	15	<0.001	<1	0.01	0.003	0.02	<0.1	0.06	<0.1	<0.1	0.30	<1	<0.5	7.4
PM11-GWR06	Rock	<1	3	<0.01	8	<0.001	<1	0.04	0.002	0.01	<0.1	0.02	0.2	<0.1	<0.05	<1	<0.5	3.1
PM11-GWR07	Rock	<1	10	<0.01	8	0.001	<1	0.03	0.003	<0.01	<0.1	0.06	<0.1	<0.1	<0.05	<1	0.7	29.2
PM11-GWR08	Rock	<1	3	<0.01	18	<0.001	2	0.03	0.002	0.01	<0.1	0.06	<0.1	<0.1	<0.05	<1	<0.5	2.6
PM11-GWR09	Rock	<1	11	<0.01	4	<0.001	<1	<0.01	0.003	<0.01	<0.1	0.03	<0.1	<0.1	<0.05	<1	<0.5	1.4
PM11-GWR10	Rock	<1	4	0.02	6	<0.001	<1	0.03	0.004	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
PM11-GWR11	Rock	<1	9	<0.01	3	<0.001	<1	0.01	0.005	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
PM11-GWR12	Rock	<1	2	0.10	8	0.001	<1	0.12	0.004	<0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
PM11-GWR13	Rock	<1	9	<0.01	6	<0.001	<1	0.02	0.004	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	0.4
14806	Rock	<1	4	<0.01	21	0.001	<1	0.02	0.005	<0.01	<0.1	0.02	<0.1	<0.1	0.05	<1	<0.5	10.7
14807	Rock	<1	8	<0.01	6	<0.001	<1	0.02	0.007	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Project: PLACER MTN.
 Report Date: July 24, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN11003007.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
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																					
PM11-GWR01	Rock	1.24	10.0	69.1	131.5	28	48.3	8.8	8.3	1445	3.02	40.8	14937	0.7	14	0.4	18.5	1.1	20	0.01	0.027
REP PM11-GWR01	QC		11.1	71.6	137.0	29	52.2	9.4	8.6	1509	3.15	41.5	19248	0.7	14	0.3	19.0	1.2	21	0.01	0.029
PM11-GWR10	Rock	0.18	0.3	2.4	2.6	2	0.4	2.0	0.6	69	0.54	<0.5	28.8	<0.1	<1	<0.1	0.3	<0.1	2	<0.01	0.002
REP PM11-GWR10	QC		0.2	2.6	2.7	2	0.4	2.0	0.7	75	0.59	0.7	25.5	<0.1	<1	<0.1	0.3	<0.1	3	<0.01	0.001
Core Reject Duplicates																					
PM11-GWR06	Rock	1.93	4.2	13.1	11.7	4	14.0	3.0	1.4	74	0.59	7.2	2607	<0.1	1	<0.1	7.8	0.6	4	<0.01	0.003
DUP PM11-GWR06	QC		4.4	14.7	11.1	4	14.2	3.4	1.6	79	0.66	7.4	3094	<0.1	<1	<0.1	7.8	0.7	5	<0.01	0.004
Reference Materials																					
STD DS8	Standard		14.4	117.5	121.1	313	1.6	42.1	8.1	627	2.44	26.1	108.2	7.8	62	2.5	5.0	6.0	40	0.72	0.072
STD DS8	Standard		14.4	115.0	131.0	302	1.7	40.4	7.9	624	2.44	26.7	121.8	6.6	60	2.2	4.9	5.5	39	0.69	0.078
STD DS8	Standard		11.8	103.5	105.5	288	1.6	36.8	7.0	555	2.32	22.6	107.7	5.3	51	2.0	4.2	5.1	38	0.60	0.069
STD DS8	Standard		12.3	105.6	107.1	289	1.7	38.0	7.2	571	2.38	23.7	103.4	5.9	57	2.0	4.2	5.6	39	0.62	0.073
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
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	0.6	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1	Prep Blank	<0.01	<0.1	3.5	3.6	46	<0.1	3.4	4.8	595	2.00	1.7	0.7	7.0	64	<0.1	<0.1	<0.1	36	0.55	0.077
G1	Prep Blank	<0.01	0.2	2.7	3.8	43	<0.1	4.3	4.5	585	2.00	1.9	1.9	6.3	76	<0.1	<0.1	<0.1	38	0.67	0.078



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QUALITY CONTROL REPORT

VAN11003007.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
PM11-GWR01	Rock	2	8	0.01	106	0.002	<1	0.12	0.005	0.05	<0.1	0.09	1.4	<0.1	<0.05	<1	<0.5	16.9
REP PM11-GWR01	QC	3	9	0.01	111	0.003	<1	0.12	0.004	0.06	<0.1	0.13	1.6	<0.1	<0.05	<1	<0.5	16.5
PM11-GWR10	Rock	<1	4	0.02	6	<0.001	<1	0.03	0.004	<0.01	<0.1	<0.01	<0.1	<0.05	<1	<0.5	<0.2	
REP PM11-GWR10	QC	<1	4	0.02	6	<0.001	<1	0.03	0.004	<0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
Core Reject Duplicates																		
PM11-GWR06	Rock	<1	3	<0.01	8	<0.001	<1	0.04	0.002	0.01	<0.1	0.02	0.2	<0.1	<0.05	<1	<0.5	3.1
DUP PM11-GWR06	QC	<1	4	<0.01	8	0.001	3	0.04	0.003	<0.01	<0.1	0.02	<0.1	<0.1	<0.05	<1	<0.5	2.6
Reference Materials																		
STD DS8	Standard	14	126	0.63	262	0.128	3	0.96	0.089	0.41	3.1	0.17	1.8	5.5	0.16	5	5.6	4.5
STD DS8	Standard	13	125	0.62	252	0.122	1	0.93	0.085	0.41	2.6	0.20	1.8	4.8	0.15	4	5.1	4.5
STD DS8	Standard	12	114	0.56	241	0.104	1	0.82	0.075	0.36	2.6	0.18	1.8	4.9	0.15	4	3.9	4.2
STD DS8	Standard	12	116	0.57	239	0.107	3	0.84	0.077	0.38	2.6	0.19	1.8	5.1	0.16	4	5.4	4.5
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1	Prep Blank	12	9	0.55	184	0.144	<1	1.07	0.114	0.54	<0.1	<0.01	1.7	0.3	<0.05	5	<0.5	<0.2
G1	Prep Blank	12	9	0.58	182	0.147	1	1.13	0.145	0.52	0.1	<0.01	2.1	0.3	<0.05	5	<0.5	<0.2



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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: July 13, 2011
Report Date: August 03, 2011
Page: 1 of 8

CERTIFICATE OF ANALYSIS

VAN11003145.1

CLIENT JOB INFORMATION

Project: PLACER MTN.
Shipment ID: Shipment #2
P.O. Number
Number of Samples: 187

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
Bill 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, SS80, 1DX2.

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. 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: PLACER MTN.
 Report Date: August 03, 2011

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CERTIFICATE OF ANALYSIS

VAN11003145.1

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	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	0.1	2	0.01	0.001	
PM11-RP81	Soil	0.2	10.9	4.0	17	<0.1	12.9	5.1	281	1.21	1.7	0.6	0.8	96	0.1	<0.1	<0.1	39	0.66	0.069	14
PM11-RP82	Soil	0.2	9.9	4.3	21	<0.1	9.7	3.9	136	1.16	1.2	1.7	0.8	57	<0.1	<0.1	<0.1	32	0.40	0.025	6
PM11-RP83	Soil	0.1	9.6	4.0	23	<0.1	9.5	4.7	135	1.30	1.2	2.1	1.6	44	0.1	<0.1	<0.1	41	0.34	0.035	6
PM11-RP84	Soil	0.2	8.1	4.5	21	<0.1	9.1	3.4	80	1.14	1.1	1.7	0.8	31	<0.1	<0.1	<0.1	27	0.25	0.017	4
PM11-RP85	Soil	0.2	6.4	4.6	11	<0.1	4.3	1.9	51	0.63	0.6	0.8	0.3	25	0.1	<0.1	0.1	17	0.18	0.034	7
PM11-RP86	Soil	0.2	15.3	3.9	32	<0.1	11.7	5.6	112	1.92	1.8	1.8	0.2	32	<0.1	<0.1	<0.1	55	0.26	0.069	7
PM11-RP87	Soil	0.2	20.4	2.3	27	<0.1	14.5	7.3	226	2.05	2.8	3.7	1.5	26	0.1	0.1	<0.1	69	0.40	0.075	6
PM11-RP88	Soil	0.2	14.2	2.2	25	<0.1	13.5	9.3	438	1.87	1.6	2.1	1.6	31	<0.1	<0.1	<0.1	62	0.40	0.060	8
PM11-RP89	Soil	0.3	11.4	5.1	32	<0.1	10.5	5.6	494	1.18	0.9	2.5	0.6	35	<0.1	<0.1	<0.1	37	0.34	0.039	4
PM11-RP90	Soil	0.1	10.9	3.5	26	<0.1	9.8	4.4	138	1.25	0.8	2.0	0.8	31	<0.1	<0.1	<0.1	37	0.25	0.023	4
PM11-RP91	Soil	0.2	7.2	5.1	25	<0.1	7.5	4.4	145	1.02	0.6	1.6	0.6	16	0.1	<0.1	<0.1	32	0.16	0.017	3
PM11-RP92	Soil	0.2	13.1	3.6	29	<0.1	13.2	5.0	165	1.51	1.1	7.1	1.1	33	<0.1	<0.1	<0.1	45	0.28	0.024	4
PM11-RP93	Soil	0.2	17.5	4.7	35	<0.1	15.0	9.4	289	1.48	1.5	1.6	0.5	35	<0.1	<0.1	<0.1	48	0.32	0.036	5
PM11-RP94	Soil	0.1	4.7	3.9	13	<0.1	5.0	1.8	30	0.47	<0.5	1.2	0.3	11	<0.1	<0.1	<0.1	14	0.10	0.011	1
PM11-RP95	Soil	0.4	17.3	5.0	29	<0.1	19.0	6.3	113	1.53	1.9	1.6	0.9	21	<0.1	<0.1	<0.1	42	0.16	0.083	4
PM11-RP96	Soil	0.4	19.2	4.2	21	<0.1	17.8	6.6	83	1.42	1.8	1.0	0.6	11	<0.1	<0.1	<0.1	39	0.12	0.073	3
PM11-RP97	Soil	0.2	11.5	4.4	25	<0.1	11.3	4.0	80	1.01	<0.5	2.0	0.3	18	<0.1	<0.1	<0.1	28	0.14	0.019	2
PM11-RP98	Soil	0.6	21.3	4.7	29	<0.1	27.1	7.8	132	1.94	2.0	2.0	0.9	17	<0.1	0.1	<0.1	51	0.16	0.060	3
PM11-RP99	Soil	0.5	23.0	4.0	25	<0.1	32.3	8.6	119	1.61	2.2	1.1	0.7	15	<0.1	0.1	<0.1	47	0.17	0.077	2
PM11-RP100	Soil	0.5	26.6	5.6	28	<0.1	26.1	7.8	153	1.84	2.3	1.6	1.0	18	<0.1	<0.1	<0.1	47	0.16	0.075	3
PMS04	Rock Pulp	128.8	3870	22.9	62	2.4	35.9	20.6	410	4.26	57.3	471.7	1.9	27	0.2	3.3	0.4	123	0.32	0.091	10
PM11-RP101	Soil	0.5	23.8	3.7	27	<0.1	23.3	7.4	121	1.68	1.8	4.0	0.8	16	<0.1	<0.1	<0.1	47	0.16	0.049	3
PM11-RP102	Soil	0.6	17.1	4.0	24	<0.1	16.9	5.9	94	1.77	1.6	1.9	1.0	12	<0.1	<0.1	<0.1	47	0.11	0.099	2
PM11-RP103	Soil	0.4	23.6	3.7	26	<0.1	22.3	7.5	130	1.82	<0.5	0.8	0.6	20	<0.1	<0.1	<0.1	53	0.17	0.058	3
PM11-RP104	Soil	0.4	17.9	4.4	19	<0.1	13.2	5.8	85	1.54	<0.5	<0.5	0.8	16	<0.1	<0.1	<0.1	43	0.13	0.081	3
PM11-RP105	Soil	0.2	12.5	5.0	21	<0.1	12.2	4.8	190	1.29	<0.5	<0.5	0.7	31	<0.1	<0.1	<0.1	31	0.22	0.086	4
PM11-RP106	Soil	0.3	21.5	4.3	26	<0.1	23.6	7.7	100	1.92	<0.5	0.6	1.0	22	<0.1	<0.1	<0.1	48	0.15	0.098	4
PM11-RP107	Soil	0.2	20.1	4.6	19	<0.1	13.1	4.4	90	1.44	<0.5	<0.5	0.5	42	<0.1	<0.1	<0.1	34	0.35	0.038	12
PM11-RP108	Soil	0.4	25.5	3.8	33	<0.1	23.1	10.5	475	2.11	1.0	1.2	1.5	39	<0.1	<0.1	<0.1	67	0.39	0.050	10
PM11-RP109	Soil	1.3	50.2	5.5	59	<0.1	92.3	24.3	550	3.19	10.1	0.9	1.7	67	0.7	0.7	0.5	78	0.44	0.073	13



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CERTIFICATE OF ANALYSIS

VAN11003145.1

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
PM11-RP81	Soil	38	0.28	150	0.059	1	1.38	0.021	0.08	<0.1	0.05	3.0	<0.1	<0.05	4	<0.5	<0.2
PM11-RP82	Soil	20	0.31	113	0.082	<1	1.51	0.033	0.07	<0.1	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PM11-RP83	Soil	22	0.32	101	0.091	<1	1.35	0.028	0.06	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PM11-RP84	Soil	13	0.24	109	0.085	<1	1.59	0.030	0.06	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11-RP85	Soil	6	0.08	69	0.048	<1	0.91	0.022	0.03	<0.1	0.02	0.8	<0.1	<0.05	4	<0.5	<0.2
PM11-RP86	Soil	21	0.27	96	0.063	1	1.56	0.020	0.04	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-RP87	Soil	30	0.44	86	0.087	<1	1.08	0.036	0.07	<0.1	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
PM11-RP88	Soil	28	0.45	106	0.094	<1	1.37	0.026	0.07	<0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PM11-RP89	Soil	21	0.35	118	0.081	<1	1.27	0.023	0.06	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
PM11-RP90	Soil	21	0.38	77	0.090	<1	1.47	0.027	0.06	<0.1	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
PM11-RP91	Soil	17	0.26	67	0.090	1	1.14	0.022	0.03	<0.1	0.03	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-RP92	Soil	27	0.47	92	0.114	<1	1.73	0.032	0.05	<0.1	<0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-RP93	Soil	31	0.51	99	0.090	<1	1.77	0.028	0.06	<0.1	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-RP94	Soil	7	0.10	32	0.053	<1	0.73	0.020	0.02	<0.1	<0.01	0.6	<0.1	<0.05	4	<0.5	<0.2
PM11-RP95	Soil	23	0.26	84	0.087	<1	2.13	0.023	0.04	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11-RP96	Soil	23	0.23	62	0.077	<1	1.76	0.018	0.04	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11-RP97	Soil	17	0.24	59	0.075	<1	1.32	0.024	0.03	<0.1	0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
PM11-RP98	Soil	30	0.38	88	0.095	<1	2.21	0.019	0.04	<0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
PM11-RP99	Soil	33	0.39	74	0.084	<1	2.01	0.022	0.03	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11-RP100	Soil	26	0.27	92	0.100	<1	2.51	0.018	0.04	<0.1	0.05	1.7	<0.1	<0.05	8	<0.5	<0.2
PMS04	Rock Pulp	51	0.92	46	0.106	1	1.40	0.037	0.93	4.0	0.06	9.3	0.5	1.86	5	6.7	0.6
PM11-RP101	Soil	32	0.40	86	0.085	<1	1.95	0.020	0.04	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-RP102	Soil	23	0.24	66	0.088	<1	2.23	0.019	0.02	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-RP103	Soil	36	0.44	75	0.094	<1	1.65	0.015	0.06	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-RP104	Soil	19	0.17	76	0.082	<1	1.86	0.015	0.02	<0.1	0.04	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-RP105	Soil	16	0.17	101	0.073	<1	1.47	0.017	0.04	<0.1	0.05	1.2	<0.1	<0.05	5	<0.5	<0.2
PM11-RP106	Soil	30	0.31	125	0.089	<1	2.26	0.020	0.04	<0.1	0.02	2.0	<0.1	<0.05	7	<0.5	<0.2
PM11-RP107	Soil	24	0.31	138	0.070	<1	1.59	0.019	0.04	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11-RP108	Soil	42	0.60	126	0.102	<1	1.39	0.025	0.09	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
PM11-RP109	Soil	58	0.58	146	0.065	2	1.38	0.026	0.15	<0.1	0.02	7.3	0.2	<0.05	4	0.9	<0.2



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Report Date: August 03, 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	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL	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
PM11-RP110	Soil	0.6	31.1	7.7	43	0.2	23.3	7.0	640	1.48	2.1	1.3	0.7	53	0.9	0.7	0.4	37	0.68	0.058	10
PM11-RP111	Soil	0.5	34.9	3.9	43	<0.1	39.0	14.6	448	2.51	2.7	1.0	1.7	42	<0.1	<0.1	<0.1	77	0.45	0.074	10
PM11-RP112	Soil	0.3	36.5	3.8	33	<0.1	34.4	11.5	333	2.17	1.7	3.1	1.7	42	<0.1	<0.1	<0.1	65	0.47	0.054	11
PM11-RP113	Soil	0.4	12.8	4.4	20	<0.1	18.6	7.1	118	1.92	<0.5	<0.5	1.0	25	<0.1	<0.1	<0.1	47	0.26	0.160	3
PM11-RP114	Soil	0.3	14.2	4.6	21	<0.1	13.4	4.8	191	1.24	<0.5	0.6	0.5	28	<0.1	<0.1	<0.1	34	0.27	0.050	5
PM11-RP115	Soil	0.4	33.2	5.2	28	<0.1	22.6	8.4	214	1.67	<0.5	<0.5	0.8	35	<0.1	<0.1	<0.1	45	0.30	0.041	10
PM11-RP116	Soil	0.2	13.9	4.7	20	<0.1	13.2	4.3	107	1.36	<0.5	<0.5	0.4	17	<0.1	<0.1	<0.1	35	0.17	0.034	3
PM11-RP117	Soil	0.2	22.0	3.0	25	<0.1	21.2	6.7	147	1.64	<0.5	<0.5	0.7	21	<0.1	<0.1	<0.1	47	0.27	0.014	4
PM11-RP118	Soil	0.4	19.6	4.9	25	<0.1	17.3	6.6	212	1.44	0.5	<0.5	0.5	27	0.4	0.4	0.3	37	0.28	0.025	6
PM11-RP119	Soil	0.2	17.3	4.2	21	<0.1	14.6	5.2	114	1.26	<0.5	<0.5	0.5	31	0.3	0.3	0.1	30	0.31	0.024	5
PM11-RP120	Soil	0.2	34.1	5.3	30	<0.1	27.0	7.7	387	1.87	1.2	<0.5	1.1	42	0.3	0.4	0.2	49	0.37	0.024	10
PM11-RP121	Soil	0.3	15.2	5.1	25	0.1	13.6	5.6	132	1.41	<0.5	1.4	0.5	28	<0.1	<0.1	<0.1	39	0.25	0.055	3
PM11-RP122	Soil	0.1	30.7	2.4	28	<0.1	28.3	10.8	242	1.83	0.9	1.3	1.1	29	<0.1	<0.1	<0.1	61	0.39	0.043	6
PM11-RP123	Soil	0.2	32.2	2.5	28	<0.1	27.0	10.2	269	1.96	1.1	1.2	1.1	25	<0.1	<0.1	<0.1	64	0.36	0.040	6
PM11-RP124	Soil	0.2	33.2	2.6	29	<0.1	27.6	9.9	252	1.92	1.2	<0.5	1.1	27	<0.1	<0.1	<0.1	61	0.37	0.054	7
PM11-RP125	Soil	0.2	24.1	3.0	30	<0.1	22.8	8.6	135	1.86	<0.5	<0.5	0.8	21	<0.1	<0.1	<0.1	52	0.28	0.040	4
PM11-RP126	Soil	0.2	19.7	3.0	24	<0.1	24.1	9.1	110	1.84	<0.5	1.1	0.9	18	<0.1	<0.1	<0.1	49	0.23	0.097	3
PM11-RP127	Soil	0.1	16.8	4.7	23	<0.1	19.8	5.9	93	1.63	<0.5	<0.5	0.8	15	<0.1	<0.1	<0.1	35	0.15	0.078	3
PM11-RP128	Soil	0.1	26.2	3.7	27	<0.1	21.6	6.4	220	1.59	<0.5	0.6	0.9	26	<0.1	<0.1	<0.1	43	0.22	0.015	9
PM11-RP129	Soil	0.1	25.9	2.2	23	<0.1	21.2	7.1	196	1.70	<0.5	<0.5	1.2	23	<0.1	<0.1	<0.1	50	0.32	0.021	8
PM11-RP130	Soil	0.2	8.2	4.6	11	<0.1	7.1	3.5	50	1.01	<0.5	<0.5	0.6	7	<0.1	<0.1	<0.1	24	0.08	0.071	2
PM11-RP131	Soil	0.1	11.0	4.5	28	0.2	13.1	3.6	57	1.25	<0.5	<0.5	0.4	10	<0.1	<0.1	<0.1	20	0.09	0.036	2
PM11-RP132	Soil	0.2	15.8	4.7	16	<0.1	22.4	5.8	63	1.64	<0.5	<0.5	0.8	15	<0.1	<0.1	<0.1	39	0.15	0.044	3
PM11-RP133	Soil	0.2	4.7	3.3	15	<0.1	5.1	2.7	47	0.96	<0.5	<0.5	0.5	8	<0.1	<0.1	<0.1	26	0.07	0.067	2
PM11-RP134	Soil	0.2	4.6	3.4	18	<0.1	3.8	3.0	59	1.39	<0.5	<0.5	0.7	7	<0.1	<0.1	<0.1	37	0.06	0.131	2
PM11-RP135	Soil	0.3	18.9	2.7	24	<0.1	20.6	7.3	110	1.96	<0.5	0.6	1.3	17	<0.1	<0.1	<0.1	59	0.18	0.070	4
PM11-RP136	Soil	0.1	9.6	3.6	16	<0.1	14.0	4.7	82	1.49	<0.5	<0.5	0.5	24	<0.1	<0.1	<0.1	39	0.32	0.016	2
PM11-RP137	Soil	0.1	20.2	4.7	21	<0.1	21.2	5.1	195	1.65	<0.5	<0.5	1.3	27	<0.1	<0.1	<0.1	38	0.27	0.029	9
PM11-RP138	Soil	0.2	26.0	4.8	33	0.1	22.4	5.2	276	1.54	2.4	2.0	1.0	26	<0.1	<0.1	<0.1	35	0.44	0.036	10
PM11-RP139	Soil	0.1	14.3	5.7	22	<0.1	15.8	3.3	94	1.31	1.7	1.3	0.9	18	<0.1	<0.1	<0.1	26	0.28	0.017	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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CERTIFICATE OF ANALYSIS

VAN11003145.1

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
PM11-RP110	Soil	27	0.34	235	0.055	3	1.36	0.015	0.10	<0.1	0.15	2.6	<0.1	<0.05	4	<0.5	<0.2
PM11-RP111	Soil	49	0.68	128	0.110	<1	1.56	0.027	0.12	<0.1	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
PM11-RP112	Soil	52	0.62	144	0.099	<1	1.50	0.031	0.07	<0.1	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
PM11-RP113	Soil	27	0.20	127	0.091	<1	2.45	0.018	0.04	<0.1	0.02	1.7	<0.1	<0.05	8	<0.5	<0.2
PM11-RP114	Soil	24	0.25	97	0.065	<1	1.13	0.018	0.04	<0.1	0.04	1.3	<0.1	<0.05	4	<0.5	<0.2
PM11-RP115	Soil	33	0.40	148	0.080	<1	1.84	0.021	0.05	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
PM11-RP116	Soil	18	0.19	90	0.074	<1	1.34	0.018	0.03	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
PM11-RP117	Soil	46	0.53	98	0.094	<1	1.40	0.030	0.05	<0.1	<0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-RP118	Soil	28	0.35	102	0.073	<1	1.32	0.020	0.05	<0.1	0.03	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11-RP119	Soil	22	0.25	99	0.072	<1	1.18	0.026	0.04	<0.1	0.03	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-RP120	Soil	44	0.50	173	0.087	<1	2.03	0.027	0.06	<0.1	0.03	3.2	<0.1	<0.05	6	<0.5	<0.2
PM11-RP121	Soil	26	0.24	96	0.069	<1	1.01	0.018	0.04	<0.1	0.06	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-RP122	Soil	63	0.71	106	0.092	<1	1.30	0.038	0.09	<0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2
PM11-RP123	Soil	58	0.66	111	0.099	<1	1.37	0.034	0.12	<0.1	0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PM11-RP124	Soil	52	0.61	140	0.094	<1	1.39	0.031	0.09	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PM11-RP125	Soil	46	0.51	100	0.082	<1	1.43	0.028	0.05	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
PM11-RP126	Soil	39	0.44	117	0.083	<1	1.91	0.024	0.04	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PM11-RP127	Soil	24	0.22	134	0.080	<1	1.97	0.017	0.05	<0.1	0.02	1.4	<0.1	<0.05	7	<0.5	<0.2
PM11-RP128	Soil	34	0.37	131	0.088	<1	1.52	0.025	0.05	<0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11-RP129	Soil	38	0.45	119	0.090	<1	1.24	0.024	0.06	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
PM11-RP130	Soil	14	0.13	47	0.071	<1	1.32	0.017	0.02	<0.1	0.03	0.9	<0.1	<0.05	5	<0.5	<0.2
PM11-RP131	Soil	20	0.16	125	0.064	<1	1.83	0.017	0.03	<0.1	<0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
PM11-RP132	Soil	22	0.15	176	0.086	<1	2.28	0.018	0.05	<0.1	0.01	1.3	<0.1	<0.05	7	<0.5	<0.2
PM11-RP133	Soil	9	0.08	43	0.067	<1	0.87	0.014	0.02	<0.1	0.02	0.6	<0.1	<0.05	4	<0.5	<0.2
PM11-RP134	Soil	10	0.07	29	0.077	<1	1.45	0.018	0.01	<0.1	0.01	0.8	<0.1	<0.05	5	<0.5	<0.2
PM11-RP135	Soil	34	0.32	125	0.076	<1	1.54	0.021	0.03	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PM11-RP136	Soil	24	0.27	94	0.079	<1	1.41	0.023	0.04	<0.1	<0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-RP137	Soil	26	0.23	182	0.080	<1	1.92	0.023	0.04	<0.1	<0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
PM11-RP138	Soil	27	0.27	187	0.070	1	1.80	0.027	0.08	<0.1	0.03	2.5	<0.1	0.05	5	<0.5	<0.2
PM11-RP139	Soil	15	0.16	145	0.073	1	1.62	0.029	0.05	<0.1	0.02	1.5	<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	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
		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
PM11-RP140	Soil	0.2	15.4	5.1	24	<0.1	10.5	3.8	165	1.59	2.4	0.9	1.3	21	<0.1	<0.1	<0.1	34	0.31	0.012	5
PM11-RP141	Soil	0.3	19.5	5.8	29	<0.1	13.9	5.5	311	1.52	2.7	4.4	1.0	33	<0.1	<0.1	<0.1	36	0.49	0.030	7
PM11-RP141D	Soil	0.4	15.8	4.9	26	0.1	13.3	5.4	156	1.33	2.9	2.2	0.4	28	<0.1	0.1	<0.1	40	0.28	0.056	3
PM11-RP142	Soil	0.2	15.8	5.0	26	<0.1	12.3	3.2	142	1.45	2.5	1.6	0.7	28	<0.1	<0.1	<0.1	34	0.32	0.028	8
PM11-RP143	Soil	0.2	18.5	4.8	27	<0.1	16.5	4.7	119	1.69	2.5	4.7	1.4	30	<0.1	<0.1	<0.1	40	0.31	0.023	6
PM11-RP144	Soil	0.2	13.7	4.1	19	<0.1	10.8	3.4	100	1.18	1.5	2.3	1.1	24	<0.1	<0.1	<0.1	31	0.22	0.019	5
PM11-RP145	Soil	0.2	10.7	4.0	15	<0.1	7.8	3.1	115	0.85	1.7	<0.5	0.7	30	<0.1	<0.1	<0.1	25	0.25	0.022	7
PM11-RP146	Soil	0.5	19.7	3.5	54	<0.1	21.2	7.6	166	2.06	3.1	8.7	1.4	28	<0.1	0.2	<0.1	62	0.27	0.059	5
PM11-RP147	Soil	0.3	14.1	3.7	49	<0.1	17.6	5.1	100	1.53	2.0	3.8	0.8	23	<0.1	<0.1	<0.1	45	0.22	0.038	4
PM11-RP148	Soil	0.3	45.0	3.2	26	0.1	32.4	6.7	156	1.91	3.9	2.0	1.1	31	<0.1	<0.1	<0.1	53	0.40	0.023	6
PM11-RP149	Soil	0.3	86.2	4.5	33	0.3	50.4	8.8	267	2.30	5.1	1.2	1.4	45	0.1	<0.1	<0.1	59	0.57	0.030	9
PM11-RP150	Soil	0.6	31.1	4.6	34	0.3	24.2	5.6	122	1.68	4.3	3.5	1.5	46	0.2	0.1	<0.1	61	0.49	0.054	16
PMS07	Rock Pulp	17.7	66.7	17.2	18	0.2	17.2	2.7	97	3.81	465.3	224.1	0.8	26	0.3	22.2	0.1	11	1.01	0.005	2
PM11-RP151	Soil	0.6	15.5	4.2	66	0.1	19.9	6.5	316	1.65	2.8	1.3	1.1	17	0.2	<0.1	<0.1	42	0.16	0.202	4
PM11-RP152	Soil	0.7	17.4	4.0	68	0.1	20.2	6.9	403	1.74	3.0	2.5	1.0	38	0.1	0.1	<0.1	48	0.40	0.187	4
PM11-RP153	Soil	0.7	21.5	3.7	42	<0.1	21.6	8.4	169	2.49	4.0	1.1	1.6	22	<0.1	0.2	<0.1	76	0.21	0.106	7
PM11-RP154	Soil	0.6	12.1	3.7	66	0.1	13.7	5.3	224	1.62	2.7	5.5	1.4	11	<0.1	0.1	<0.1	45	0.13	0.169	3
PM11-RP155	Soil	0.4	48.1	4.2	35	0.2	31.2	5.4	246	2.37	3.7	1.2	1.2	48	<0.1	<0.1	<0.1	55	0.41	0.030	14
PM11-RP156	Soil	0.2	27.3	5.0	34	0.1	22.2	4.7	145	1.82	2.4	2.3	1.6	33	0.1	<0.1	<0.1	40	0.29	0.017	7
PM11-RP157	Soil	0.4	19.6	4.7	42	<0.1	16.9	5.7	304	1.64	2.7	1.6	0.8	37	0.2	<0.1	<0.1	41	0.40	0.026	6
PM11-RP158	Soil	0.7	30.7	5.0	36	0.2	24.5	6.4	430	1.68	4.0	0.9	0.8	39	0.2	0.1	<0.1	48	0.87	0.040	8
PM11-RP159	Soil	0.2	25.7	4.4	37	0.2	21.0	6.1	134	1.72	2.8	1.4	1.2	32	0.1	0.1	<0.1	45	0.57	0.019	7
PM11-RP160	Soil	0.4	24.4	4.7	36	0.2	19.9	7.8	329	1.75	3.0	1.8	1.1	36	0.1	0.1	<0.1	49	0.40	0.020	8
PM11-RP161	Soil	0.2	8.5	3.3	24	<0.1	7.8	3.8	111	1.23	1.3	1.2	1.0	31	<0.1	<0.1	<0.1	34	0.24	0.017	3
PM11-RP162	Soil	0.2	5.9	3.4	16	<0.1	5.4	2.3	45	0.68	0.8	0.9	0.4	24	<0.1	<0.1	<0.1	21	0.19	0.014	3
PM11-RP163	Soil	0.2	5.9	3.7	21	<0.1	6.5	3.3	77	1.14	0.9	2.1	0.5	26	<0.1	<0.1	<0.1	29	0.25	0.023	3
PM11-RP164	Soil	0.4	8.9	3.7	23	<0.1	8.1	3.6	68	1.66	1.7	1.4	0.7	6	<0.1	<0.1	<0.1	52	0.10	0.084	2
PM11-RP165	Soil	0.5	13.7	3.8	36	<0.1	15.3	7.4	101	2.58	1.4	1.0	1.4	14	0.1	<0.1	<0.1	76	0.17	0.115	3
PM11-RP166	Soil	0.4	16.8	2.8	36	<0.1	14.7	6.9	171	2.26	1.8	2.1	1.7	31	<0.1	0.1	<0.1	71	0.32	0.045	6
PM11-RP167	Soil	0.2	9.2	3.7	24	<0.1	8.7	4.1	115	1.35	<0.5	0.9	1.5	26	<0.1	<0.1	<0.1	38	0.26	0.033	4

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Report Date: August 03, 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	
PM11-RP140	Soil	15	0.18	153	0.078	<1	1.90	0.035	0.04	<0.1	0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
PM11-RP141	Soil	24	0.30	147	0.071	1	1.54	0.027	0.07	<0.1	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-RP141D	Soil	25	0.27	105	0.061	2	1.05	0.020	0.04	<0.1	0.06	1.8	<0.1	0.11	5	0.6	<0.2
PM11-RP142	Soil	19	0.19	114	0.063	<1	1.61	0.023	0.05	<0.1	0.02	2.1	<0.1	0.05	5	<0.5	<0.2
PM11-RP143	Soil	29	0.38	154	0.097	<1	1.76	0.030	0.09	<0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
PM11-RP144	Soil	21	0.27	113	0.075	<1	1.27	0.027	0.05	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PM11-RP145	Soil	14	0.19	111	0.058	<1	1.19	0.028	0.04	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
PM11-RP146	Soil	34	0.47	145	0.081	<1	1.65	0.023	0.08	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11-RP147	Soil	27	0.36	115	0.076	<1	1.42	0.023	0.04	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-RP148	Soil	42	0.49	110	0.076	<1	1.48	0.029	0.06	<0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
PM11-RP149	Soil	56	0.68	157	0.080	<1	2.16	0.036	0.09	<0.1	0.03	6.0	<0.1	<0.05	6	<0.5	<0.2
PM11-RP150	Soil	43	0.44	176	0.071	<1	2.27	0.024	0.08	<0.1	0.04	5.3	<0.1	<0.05	6	1.1	<0.2
PMS07	Rock Pulp	23	0.02	1088	0.009	<1	0.17	0.007	0.07	2.6	3.08	0.5	10.8	0.17	<1	1.8	<0.2
PM11-RP151	Soil	25	0.25	153	0.073	<1	2.07	0.019	0.09	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PM11-RP152	Soil	30	0.35	189	0.067	2	1.70	0.016	0.14	<0.1	0.04	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-RP153	Soil	32	0.40	139	0.077	<1	1.70	0.018	0.09	<0.1	0.02	2.8	<0.1	<0.05	5	0.5	<0.2
PM11-RP154	Soil	18	0.19	83	0.066	<1	1.63	0.015	0.04	<0.1	0.03	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-RP155	Soil	43	0.41	269	0.071	<1	2.17	0.029	0.09	<0.1	0.04	5.1	<0.1	<0.05	6	<0.5	<0.2
PM11-RP156	Soil	37	0.40	163	0.095	<1	1.71	0.028	0.12	<0.1	0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
PM11-RP157	Soil	28	0.34	155	0.079	1	1.36	0.023	0.13	<0.1	0.04	2.3	<0.1	<0.05	4	<0.5	<0.2
PM11-RP158	Soil	29	0.37	177	0.071	2	1.42	0.032	0.14	<0.1	0.05	2.4	<0.1	<0.05	4	1.0	<0.2
PM11-RP159	Soil	35	0.41	148	0.088	1	1.55	0.034	0.11	<0.1	0.03	2.9	<0.1	<0.05	5	0.7	<0.2
PM11-RP160	Soil	34	0.38	172	0.087	<1	1.60	0.034	0.09	<0.1	0.03	3.0	<0.1	<0.05	4	0.7	<0.2
PM11-RP161	Soil	16	0.36	78	0.092	<1	1.21	0.024	0.04	<0.1	<0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PM11-RP162	Soil	10	0.18	49	0.062	<1	0.94	0.024	0.03	<0.1	0.01	0.8	<0.1	<0.05	4	<0.5	<0.2
PM11-RP163	Soil	10	0.20	72	0.075	<1	1.03	0.026	0.03	<0.1	0.02	0.8	<0.1	<0.05	5	<0.5	<0.2
PM11-RP164	Soil	17	0.15	34	0.078	<1	1.06	0.012	0.03	<0.1	0.03	1.1	<0.1	<0.05	5	<0.5	<0.2
PM11-RP165	Soil	24	0.28	77	0.101	<1	2.31	0.016	0.03	<0.1	0.03	1.9	<0.1	<0.05	7	<0.5	<0.2
PM11-RP166	Soil	31	0.55	107	0.108	<1	1.65	0.021	0.07	<0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11-RP167	Soil	18	0.38	71	0.109	<1	1.34	0.025	0.05	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2

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Report Date: August 03, 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
		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
PM11-RP168	Soil	0.3	9.9	2.4	22	<0.1	8.5	4.0	99	1.44	0.8	1.7	1.2	19	<0.1	<0.1	<0.1	45	0.23	0.036	3
PM11-RP169	Soil	0.3	9.5	3.7	26	<0.1	8.6	6.3	209	1.64	0.9	1.7	0.9	29	<0.1	<0.1	<0.1	52	0.27	0.036	5
PM11-RP170	Soil	0.3	10.2	4.5	28	<0.1	8.2	6.2	246	1.44	<0.5	1.0	0.7	25	<0.1	<0.1	<0.1	42	0.22	0.034	5
PM11-RP171	Soil	0.3	15.7	4.2	28	<0.1	17.7	6.2	141	1.66	2.3	0.6	1.0	16	<0.1	<0.1	0.1	41	0.16	0.195	5
PM11-RP172	Soil	0.1	7.4	3.7	22	<0.1	7.1	3.5	113	1.04	0.7	<0.5	0.7	26	<0.1	<0.1	<0.1	28	0.18	0.021	4
PM11-RP173	Soil	0.6	10.6	6.4	26	<0.1	10.3	8.2	391	1.73	1.4	1.3	1.4	61	0.1	0.1	0.1	49	0.36	0.078	10
PM11-RP174	Soil	0.6	10.3	5.2	31	<0.1	10.4	4.8	128	1.72	1.9	1.6	1.0	16	<0.1	0.1	0.1	42	0.11	0.124	3
PM11-RP175	Soil	0.4	5.2	4.5	16	<0.1	5.2	1.9	57	0.85	0.9	<0.5	0.5	13	<0.1	<0.1	0.1	23	0.08	0.062	2
PM11-RP176	Soil	0.5	11.6	4.2	29	<0.1	11.7	5.2	131	1.68	1.7	1.9	0.9	21	<0.1	<0.1	<0.1	44	0.15	0.104	3
PM11-RP177	Soil	0.5	12.2	4.9	31	<0.1	13.5	5.9	139	1.86	1.9	<0.5	1.1	16	<0.1	<0.1	0.1	47	0.14	0.107	3
PM11-RP178	Soil	0.5	20.5	4.7	37	<0.1	18.0	7.5	125	2.09	2.3	1.8	1.7	23	<0.1	0.1	<0.1	52	0.16	0.125	4
PM11-RP179	Soil	0.1	8.3	3.1	20	<0.1	6.9	4.4	107	1.24	0.8	2.3	0.7	22	<0.1	<0.1	<0.1	34	0.18	0.019	3
PM11-RP180	Soil	0.2	8.4	3.6	20	<0.1	7.1	3.1	78	1.05	0.7	1.5	0.6	19	<0.1	<0.1	<0.1	29	0.17	0.031	3
PM11-RP181	Soil	0.4	14.3	4.3	31	<0.1	11.8	6.5	468	1.86	2.9	2.2	0.8	87	0.1	0.1	<0.1	56	0.57	0.040	17
PM11-RP182	Soil	0.3	15.3	4.3	25	<0.1	12.2	5.1	127	1.67	2.0	1.2	0.7	52	<0.1	<0.1	<0.1	45	0.35	0.045	6
PM11-RP182D	Soil	0.3	15.1	4.5	24	<0.1	11.8	4.5	111	1.62	1.8	1.4	0.6	59	<0.1	<0.1	<0.1	44	0.39	0.050	7
PM11-RP183	Soil	0.2	16.6	4.1	29	<0.1	15.1	5.7	158	1.68	0.8	1.0	1.1	36	<0.1	<0.1	<0.1	44	0.28	0.027	10
PM11-RP184	Soil	0.2	16.1	3.8	31	<0.1	18.9	5.6	163	1.73	0.6	2.8	0.9	43	<0.1	<0.1	<0.1	43	0.38	0.025	8
PM11-RP185	Soil	0.2	16.4	3.9	31	<0.1	18.5	5.9	187	1.84	0.8	0.7	1.3	40	<0.1	<0.1	<0.1	50	0.36	0.024	7
PM11-RP186	Soil	0.2	18.1	4.2	31	<0.1	18.4	6.7	260	1.93	0.7	0.9	1.0	45	<0.1	0.1	<0.1	50	0.40	0.021	9
PM11-RP187	Soil	0.2	15.2	4.1	29	<0.1	13.9	5.0	120	1.43	0.5	1.2	0.8	30	<0.1	<0.1	<0.1	38	0.21	0.023	6
PM11-RP188	Soil	0.3	14.5	6.2	25	<0.1	14.7	4.9	95	1.51	1.7	1.0	1.0	19	<0.1	<0.1	0.1	33	0.16	0.123	4
PM11-RP189	Soil	0.2	15.1	3.7	29	<0.1	15.4	5.7	124	1.57	1.1	1.1	0.5	26	<0.1	<0.1	<0.1	41	0.22	0.042	4
PM11-RP190	Soil	0.4	51.1	8.0	68	0.2	50.3	10.7	497	2.84	2.3	<0.5	1.8	57	0.3	0.1	0.1	68	0.52	0.088	15
PM11-RP191	Soil	0.6	28.8	3.5	41	<0.1	25.1	9.8	246	2.32	2.3	0.8	1.4	41	<0.1	0.2	<0.1	73	0.44	0.059	11
PM11-RP192	Soil	0.4	23.8	7.0	44	0.2	18.6	6.9	608	1.60	1.7	0.5	0.7	33	0.1	0.1	<0.1	45	0.35	0.082	6
PM11-RP193	Soil	0.4	28.3	5.1	42	0.1	19.7	7.2	655	1.72	2.2	1.2	1.0	51	0.1	0.1	<0.1	50	0.41	0.117	8
PM11-RP194	Soil	0.5	17.7	6.0	43	<0.1	17.3	6.1	326	1.72	2.1	<0.5	0.8	25	<0.1	0.1	<0.1	48	0.23	0.118	4
PM11-RP195	Soil	0.3	13.0	4.7	20	<0.1	14.1	5.0	159	1.37	1.0	3.4	0.6	23	<0.1	<0.1	<0.1	39	0.27	0.022	3
PM11-RP196	Soil	0.3	16.3	5.6	24	<0.1	15.6	5.4	211	1.44	1.3	0.8	0.6	22	<0.1	<0.1	<0.1	41	0.27	0.044	3

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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	
PM11-RP168	Soil			19	0.32	54	0.082	<1	1.11	0.020	0.04	<0.1	0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
PM11-RP169	Soil			17	0.34	74	0.090	<1	1.45	0.023	0.04	<0.1	0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-RP170	Soil			17	0.31	89	0.086	<1	1.49	0.022	0.05	<0.1	0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-RP171	Soil			24	0.24	100	0.088	1	2.02	0.021	0.04	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-RP172	Soil			15	0.32	62	0.087	<1	1.04	0.022	0.04	<0.1	0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
PM11-RP173	Soil			18	0.30	120	0.092	2	1.83	0.020	0.05	<0.1	0.04	2.5	<0.1	<0.05	6	<0.5	<0.2
PM11-RP174	Soil			15	0.19	67	0.101	1	2.03	0.016	0.03	<0.1	0.04	1.5	<0.1	<0.05	7	<0.5	<0.2
PM11-RP175	Soil			8	0.08	52	0.068	2	0.93	0.013	0.02	<0.1	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
PM11-RP176	Soil			18	0.26	62	0.087	1	1.75	0.016	0.06	<0.1	0.03	1.4	<0.1	<0.05	6	<0.5	<0.2
PM11-RP177	Soil			20	0.27	66	0.099	<1	2.17	0.017	0.04	<0.1	0.04	1.8	<0.1	<0.05	6	0.5	<0.2
PM11-RP178	Soil			26	0.40	115	0.104	2	2.70	0.021	0.05	<0.1	0.03	2.4	<0.1	<0.05	7	<0.5	<0.2
PM11-RP179	Soil			13	0.27	59	0.085	2	1.06	0.026	0.03	<0.1	<0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
PM11-RP180	Soil			13	0.27	53	0.075	2	1.05	0.021	0.03	<0.1	0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
PM11-RP181	Soil			23	0.50	154	0.114	4	1.53	0.025	0.06	<0.1	0.05	3.0	<0.1	0.09	5	<0.5	<0.2
PM11-RP182	Soil			29	0.40	78	0.092	1	1.61	0.021	0.05	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-RP182D	Soil			29	0.39	82	0.091	1	1.59	0.021	0.04	<0.1	0.04	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-RP183	Soil			27	0.46	135	0.108	<1	1.65	0.027	0.04	<0.1	0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
PM11-RP184	Soil			34	0.49	126	0.108	1	1.54	0.033	0.06	<0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
PM11-RP185	Soil			34	0.53	114	0.125	<1	1.66	0.033	0.07	<0.1	0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
PM11-RP186	Soil			33	0.54	142	0.123	<1	1.84	0.036	0.07	<0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
PM11-RP187	Soil			21	0.37	97	0.096	<1	1.42	0.023	0.04	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-RP188	Soil			17	0.16	134	0.097	<1	2.17	0.017	0.04	<0.1	0.03	1.5	<0.1	<0.05	8	<0.5	<0.2
PM11-RP189	Soil			23	0.35	94	0.085	<1	1.49	0.021	0.03	<0.1	0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11-RP190	Soil			51	0.70	269	0.133	2	3.12	0.096	0.28	<0.1	<0.01	5.9	<0.1	<0.05	8	<0.5	<0.2
PM11-RP191	Soil			43	0.64	126	0.124	<1	1.66	0.034	0.08	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
PM11-RP192	Soil			32	0.42	162	0.086	2	1.53	0.036	0.11	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
PM11-RP193	Soil			32	0.47	211	0.096	4	1.53	0.071	0.17	<0.1	<0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
PM11-RP194	Soil			28	0.35	121	0.102	2	1.72	0.038	0.08	<0.1	0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11-RP195	Soil			24	0.33	84	0.096	<1	1.23	0.025	0.05	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-RP196	Soil			25	0.32	90	0.093	<1	1.36	0.024	0.05	<0.1	0.03	1.4	<0.1	<0.05	5	<0.5	<0.2

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Report Date: August 03, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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
PM11-RP197	Soil	0.3	32.4	5.9	26	0.1	21.0	6.2	255	1.65	1.4	0.7	0.7	36	<0.1	0.1	<0.1	45	0.42	0.021	9
PM11-RP198	Soil	0.3	23.1	4.6	27	<0.1	19.8	6.4	176	1.71	1.4	<0.5	1.0	30	<0.1	0.1	<0.1	47	0.30	0.039	5
PM11-RP199	Soil	0.3	13.1	5.7	25	<0.1	15.0	5.7	189	1.50	1.1	<0.5	0.6	23	<0.1	0.1	<0.1	41	0.24	0.065	3
PM11-RP200	Soil	0.2	6.4	5.1	15	<0.1	4.8	2.4	67	1.55	0.9	0.9	0.7	22	<0.1	<0.1	<0.1	37	0.14	0.226	3
PMS08	Rock Pulp	121.0	3688	24.7	65	2.5	36.3	20.4	408	4.36	56.7	451.9	2.2	32	0.3	3.8	0.4	128	0.33	0.099	11
PM11-RP201	Soil	0.5	19.1	4.2	35	<0.1	22.7	7.5	180	1.84	2.0	<0.5	1.3	20	<0.1	0.1	<0.1	48	0.17	0.123	5
PM11-RP202	Soil	0.4	14.8	3.8	29	<0.1	18.8	6.8	193	1.78	1.7	0.6	0.8	18	<0.1	<0.1	0.1	50	0.17	0.127	3
PM11-RP203	Soil	0.4	22.9	3.4	32	<0.1	18.7	7.4	185	1.90	1.4	1.0	1.1	32	<0.1	0.2	<0.1	56	0.32	0.022	4
PM11-RP204	Soil	0.4	24.2	4.2	29	<0.1	22.9	8.1	257	1.82	2.1	<0.5	1.2	26	<0.1	<0.1	<0.1	57	0.38	0.052	5
PM11-RP205	Soil	0.3	16.0	4.5	19	<0.1	16.6	6.6	155	1.51	1.4	<0.5	0.4	16	<0.1	<0.1	<0.1	44	0.24	0.033	2
PM11-RP206	Soil	0.2	16.5	4.9	22	<0.1	13.8	4.5	108	1.36	0.6	<0.5	0.3	16	<0.1	<0.1	<0.1	38	0.17	0.019	3
PM11-RP207	Soil	0.2	21.1	5.6	25	<0.1	18.9	6.1	162	1.65	1.8	<0.5	0.8	18	<0.1	<0.1	<0.1	44	0.18	0.103	4
PM11-RP208	Soil	0.2	23.8	4.5	24	<0.1	22.6	8.7	202	1.76	1.1	<0.5	0.8	17	<0.1	<0.1	<0.1	47	0.27	0.038	4
PM11-RP209	Soil	0.2	16.4	4.5	27	0.1	18.7	5.6	73	1.71	1.3	0.6	0.5	11	0.4	0.3	0.3	42	0.16	0.066	3
PM11-RP209D	Soil	0.1	16.7	4.6	21	<0.1	19.0	5.6	79	1.51	<0.5	<0.5	0.5	12	<0.1	<0.1	<0.1	38	0.17	0.026	3
PM11-RP210	Soil	0.3	45.6	2.2	34	<0.1	36.2	11.7	305	2.36	3.0	0.7	1.2	32	<0.1	<0.1	<0.1	74	0.38	0.061	8
PM11-RP211	Soil	0.4	26.3	4.0	40	0.1	34.7	10.4	125	2.13	1.8	<0.5	1.5	21	<0.1	<0.1	<0.1	55	0.19	0.132	3
PM11-RP212	Soil	0.2	23.8	3.7	39	<0.1	23.2	7.8	122	1.93	0.9	<0.5	1.1	18	<0.1	<0.1	<0.1	53	0.18	0.145	4
PM11-RP213	Soil	0.4	25.0	3.6	36	<0.1	22.9	7.5	142	1.95	0.9	<0.5	0.9	17	<0.1	<0.1	<0.1	55	0.17	0.121	5
PM11-RP214	Soil	0.1	6.8	3.2	20	<0.1	8.8	4.1	68	1.40	<0.5	<0.5	0.6	11	<0.1	<0.1	<0.1	38	0.09	0.099	2
PM11-RP215	Soil	0.2	8.1	4.3	13	<0.1	14.9	4.1	39	1.44	0.9	<0.5	1.2	8	<0.1	<0.1	<0.1	38	0.06	0.194	2
PM11-RP216	Soil	0.3	11.0	4.6	23	<0.1	15.0	5.9	114	1.61	0.7	<0.5	1.3	11	<0.1	<0.1	<0.1	40	0.11	0.285	2
PM11-RP217	Soil	0.2	29.7	3.7	21	<0.1	19.1	5.2	167	1.71	<0.5	<0.5	0.7	17	<0.1	<0.1	<0.1	44	0.25	0.013	6
PM11-RP218	Soil	0.2	10.8	4.3	14	<0.1	15.1	3.9	67	1.45	<0.5	<0.5	0.8	14	<0.1	<0.1	<0.1	36	0.14	0.064	2
PM11-RP219	Soil	0.8	11.7	5.5	20	<0.1	16.0	4.4	76	1.64	1.1	<0.5	1.2	10	0.3	0.3	0.3	40	0.12	0.137	2
PM11-RP220	Soil	0.6	20.1	4.6	23	<0.1	20.7	7.5	81	1.87	1.6	0.5	2.0	11	0.4	0.5	0.3	44	0.11	0.189	3
PM11-RP221	Soil	0.1	9.4	3.0	19	<0.1	11.3	3.4	83	1.36	<0.5	<0.5	0.6	19	0.2	0.2	0.1	31	0.20	0.010	3
PM11-RP222	Soil	0.1	11.0	3.7	24	<0.1	15.9	4.4	88	1.22	<0.5	<0.5	0.3	12	<0.1	<0.1	<0.1	34	0.11	0.023	2
PM11-RP223	Soil	0.4	10.7	2.8	15	<0.1	13.6	5.5	71	1.47	<0.5	0.8	0.7	11	0.3	0.4	0.2	41	0.12	0.080	2
PM11-RP224	Soil	0.3	8.7	3.9	19	<0.1	8.7	4.2	134	1.07	<0.5	<0.5	1.1	21	0.3	0.3	0.2	29	0.19	0.027	3

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Project: PLACER MTN.
 Report Date: August 03, 2011

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CERTIFICATE OF ANALYSIS

VAN11003145.1

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	
PM11-RP197	Soil	29	0.41	120	0.087	<1	1.81	0.026	0.04	<0.1	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2
PM11-RP198	Soil	30	0.48	127	0.110	<1	1.64	0.028	0.06	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
PM11-RP199	Soil	25	0.34	95	0.092	<1	1.34	0.024	0.04	<0.1	0.04	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11-RP200	Soil	11	0.09	79	0.095	<1	1.68	0.019	0.02	<0.1	0.02	0.9	<0.1	<0.05	7	<0.5	<0.2
PMS08	Rock Pulp	53	0.97	47	0.123	2	1.44	0.039	0.93	4.1	0.08	9.8	0.5	2.06	5	6.7	0.8
PM11-RP201	Soil	29	0.38	101	0.097	<1	2.26	0.023	0.05	<0.1	0.03	2.2	<0.1	<0.05	6	<0.5	<0.2
PM11-RP202	Soil	27	0.32	84	0.095	<1	1.76	0.023	0.04	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PM11-RP203	Soil	40	0.57	107	0.118	<1	1.59	0.028	0.09	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PM11-RP204	Soil	36	0.40	112	0.091	2	1.54	0.025	0.04	<0.1	0.04	2.0	<0.1	<0.05	5	<0.5	<0.2
PM11-RP205	Soil	29	0.29	85	0.067	1	1.16	0.015	0.04	<0.1	0.03	1.2	<0.1	<0.05	4	<0.5	<0.2
PM11-RP206	Soil	18	0.18	86	0.071	<1	1.12	0.017	0.03	<0.1	0.01	0.8	<0.1	<0.05	5	<0.5	<0.2
PM11-RP207	Soil	28	0.24	98	0.074	<1	1.65	0.016	0.03	<0.1	0.03	1.4	<0.1	<0.05	6	<0.5	<0.2
PM11-RP208	Soil	38	0.39	102	0.077	<1	1.58	0.020	0.05	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-RP209	Soil	22	0.18	82	0.081	2	1.76	0.016	0.04	<0.1	0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
PM11-RP209D	Soil	27	0.25	103	0.070	<1	1.54	0.020	0.03	<0.1	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
PM11-RP210	Soil	76	0.81	125	0.092	<1	1.38	0.028	0.12	<0.1	0.01	4.2	<0.1	<0.05	4	<0.5	<0.2
PM11-RP211	Soil	40	0.40	97	0.080	<1	2.34	0.019	0.05	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2
PM11-RP212	Soil	29	0.28	96	0.081	<1	2.13	0.019	0.04	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-RP213	Soil	32	0.30	100	0.073	<1	1.86	0.017	0.04	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-RP214	Soil	13	0.11	34	0.072	<1	1.22	0.019	0.02	<0.1	0.02	0.7	<0.1	<0.05	4	<0.5	<0.2
PM11-RP215	Soil	15	0.09	42	0.085	1	2.22	0.018	0.02	<0.1	0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
PM11-RP216	Soil	23	0.13	61	0.089	<1	2.64	0.015	0.03	0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
PM11-RP217	Soil	30	0.25	87	0.076	<1	1.52	0.022	0.03	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-RP218	Soil	14	0.10	115	0.073	<1	1.80	0.022	0.02	<0.1	0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
PM11-RP219	Soil	17	0.15	66	0.088	1	2.12	0.016	0.03	0.1	0.02	1.1	<0.1	<0.05	7	<0.5	<0.2
PM11-RP220	Soil	27	0.21	83	0.097	2	3.01	0.021	0.03	0.1	0.03	2.4	<0.1	<0.05	6	<0.5	<0.2
PM11-RP221	Soil	19	0.18	68	0.066	<1	1.20	0.024	0.03	<0.1	<0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
PM11-RP222	Soil	18	0.19	63	0.073	<1	1.09	0.018	0.03	<0.1	<0.01	0.8	<0.1	<0.05	4	<0.5	<0.2
PM11-RP223	Soil	28	0.26	62	0.071	1	1.36	0.020	0.02	<0.1	0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PM11-RP224	Soil	11	0.18	70	0.066	<1	0.82	0.019	0.03	<0.1	0.02	0.7	<0.1	<0.05	4	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	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	
PM11-RP225	Soil		0.2	9.9	4.5	14	<0.1	12.3	2.6	37	0.89	<0.5	<0.5	0.4	12	<0.1	<0.1	<0.1	20	0.10	0.020	1
PM11-RP226	Soil		0.2	21.9	4.8	27	<0.1	21.9	5.1	225	1.41	<0.5	0.7	0.5	26	<0.1	<0.1	<0.1	31	0.26	0.027	4
PM11-RP227	Soil		0.3	145.1	5.6	30	0.5	78.5	13.0	498	2.89	4.8	0.8	1.3	80	0.2	0.2	0.1	61	1.00	0.042	32
PM11-RP228	Soil		0.3	38.8	4.9	39	0.2	41.0	8.7	184	2.12	1.3	<0.5	0.7	34	0.3	0.4	0.2	47	0.39	0.044	6
PM11-RP229	Soil		0.4	72.5	5.1	35	0.3	50.5	9.6	273	2.39	3.0	1.2	1.4	44	0.7	0.7	0.3	56	0.53	0.040	9
PM11-RP230	Soil		0.2	42.5	4.1	32	<0.1	35.7	8.3	209	2.35	1.7	<0.5	1.0	39	0.3	0.3	0.1	56	0.51	0.018	7
PM11-RP231	Soil		0.2	37.9	3.7	29	0.1	30.9	8.0	201	2.12	1.5	0.7	1.0	38	0.1	0.2	<0.1	52	0.48	0.017	8
PM11-RP232	Soil		0.3	66.1	5.4	50	0.2	45.1	10.0	563	3.19	2.0	0.9	2.3	79	0.2	0.2	<0.1	71	0.70	0.093	29
PM11-RP233	Soil		0.7	73.4	6.2	51	0.2	35.6	8.4	442	2.87	3.7	2.2	2.3	62	0.5	0.6	0.3	62	0.75	0.059	16
PM11-RP234	Soil		0.3	24.3	4.3	30	<0.1	19.0	5.4	185	1.67	0.9	0.8	0.8	35	0.2	0.2	0.1	40	0.47	0.033	6
PM11-RP235	Soil		0.3	43.4	4.8	33	0.1	26.1	6.9	279	2.27	1.8	0.9	1.3	46	0.3	0.3	0.1	51	0.64	0.027	10
PM11-RP236	Soil		0.2	11.0	3.7	30	<0.1	10.7	3.1	62	1.24	0.7	<0.5	0.8	11	0.7	0.7	0.4	29	0.15	0.096	2
PM11-RP237	Soil		0.8	21.2	4.2	37	<0.1	20.8	7.2	120	2.38	3.2	5.2	1.4	17	0.3	0.4	0.1	73	0.19	0.135	4
PM11-RP238	Soil		0.2	12.8	4.9	22	<0.1	15.4	4.3	81	1.33	1.6	1.2	1.2	19	<0.1	<0.1	0.1	31	0.27	0.017	4
PM11-RP239	Soil		0.4	10.1	4.7	32	<0.1	18.4	6.6	69	2.12	3.7	1.9	1.4	15	<0.1	<0.1	0.1	52	0.17	0.291	4
PM11-RP240	Soil		0.4	6.3	3.8	33	<0.1	7.8	4.1	69	1.47	2.5	12.5	1.0	11	<0.1	<0.1	0.1	40	0.13	0.200	2
PM11-RP241	Soil		0.8	12.2	4.8	36	<0.1	19.7	6.6	191	1.86	2.4	<0.5	1.0	21	<0.1	<0.1	0.1	48	0.15	0.104	4
PM11-RP242	Soil		0.2	24.0	5.1	19	<0.1	20.8	5.3	234	1.49	2.3	0.9	1.6	24	<0.1	<0.1	0.1	34	0.36	0.016	7
PM11-RP243	Soil		0.2	32.4	4.5	23	<0.1	26.9	6.0	208	1.60	2.8	<0.5	1.0	33	<0.1	0.3	0.1	40	0.62	0.019	12
PM11-RP244	Soil		0.3	15.1	4.0	20	<0.1	16.6	5.2	127	1.32	2.5	3.3	0.6	19	<0.1	0.1	<0.1	37	0.37	0.011	2
PM11-RP245	Soil		0.1	8.9	2.9	20	<0.1	9.8	3.7	57	1.23	1.7	1.1	0.2	11	<0.1	<0.1	<0.1	32	0.12	0.011	1
PM11-RP246	Soil		0.3	14.2	2.9	23	<0.1	16.7	5.8	93	1.28	2.3	<0.5	0.5	16	<0.1	0.1	<0.1	37	0.22	0.024	2
PM11-RP247	Soil		0.1	13.2	3.6	22	<0.1	14.7	4.6	199	1.41	1.7	<0.5	0.4	17	<0.1	<0.1	<0.1	36	0.32	0.011	3
PM11-RP248	Soil		0.2	15.3	3.9	19	<0.1	18.0	5.1	105	1.41	2.1	<0.5	0.7	17	<0.1	0.1	<0.1	35	0.34	0.010	3
PM11-RP249	Soil		0.1	17.9	4.4	21	<0.1	22.0	5.6	119	1.50	2.3	<0.5	0.8	19	<0.1	<0.1	<0.1	35	0.38	0.009	4
PM11-RP250	Soil		0.2	23.3	11.9	23	<0.1	30.2	5.6	119	1.55	3.6	<0.5	0.7	21	0.3	0.2	<0.1	37	0.43	0.015	4
PMS11	Rock Pulp		16.1	61.2	16.2	16	0.2	15.6	2.4	96	3.59	434.0	191.0	0.6	25	0.3	23.2	0.2	10	0.97	0.004	1
PM11-RP251	Soil		0.4	25.1	3.9	22	<0.1	23.1	5.9	140	1.55	2.7	0.6	0.5	16	<0.1	0.1	<0.1	44	0.25	0.021	4
PM11-RP252	Soil		0.2	20.1	3.5	16	<0.1	20.7	4.6	83	1.16	2.3	<0.5	0.3	20	<0.1	<0.1	<0.1	32	0.24	0.011	3
PM11-RP253	Soil		0.2	19.9	2.8	16	<0.1	20.3	4.5	84	1.17	2.2	3.3	0.4	19	<0.1	<0.1	<0.1	32	0.25	0.010	2



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CERTIFICATE OF ANALYSIS

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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
PM11-RP225	Soil	14	0.11	56	0.068	<1	1.08	0.018	0.02	<0.1	<0.01	0.5	<0.1	<0.05	5	<0.5	<0.2
PM11-RP226	Soil	25	0.26	138	0.065	<1	1.58	0.023	0.04	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PM11-RP227	Soil	66	0.70	254	0.087	3	2.81	0.028	0.07	<0.1	0.06	7.8	<0.1	<0.05	7	<0.5	<0.2
PM11-RP228	Soil	42	0.46	174	0.077	<1	2.17	0.022	0.07	<0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
PM11-RP229	Soil	54	0.61	164	0.084	3	2.00	0.026	0.12	<0.1	0.05	5.3	<0.1	<0.05	6	<0.5	<0.2
PM11-RP230	Soil	65	0.63	172	0.092	<1	2.08	0.032	0.06	<0.1	0.02	4.4	<0.1	<0.05	6	<0.5	<0.2
PM11-RP231	Soil	60	0.61	158	0.085	1	1.90	0.032	0.05	<0.1	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
PM11-RP232	Soil	69	0.67	352	0.112	2	3.25	0.077	0.18	<0.1	0.01	8.6	0.1	<0.05	8	<0.5	<0.2
PM11-RP233	Soil	55	0.59	282	0.091	2	2.57	0.021	0.18	<0.1	0.04	6.9	0.1	<0.05	7	<0.5	<0.2
PM11-RP234	Soil	35	0.39	133	0.082	1	1.60	0.025	0.12	<0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
PM11-RP235	Soil	42	0.45	180	0.096	<1	2.26	0.030	0.07	<0.1	0.03	4.4	<0.1	<0.05	7	<0.5	<0.2
PM11-RP236	Soil	13	0.11	71	0.068	2	1.11	0.018	0.03	<0.1	0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
PM11-RP237	Soil	39	0.46	100	0.080	1	1.70	0.017	0.05	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
PM11-RP238	Soil	22	0.31	126	0.075	1	1.58	0.025	0.09	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
PM11-RP239	Soil	26	0.25	115	0.094	1	2.95	0.017	0.04	<0.1	0.04	2.1	<0.1	<0.05	7	0.6	<0.2
PM11-RP240	Soil	13	0.13	59	0.080	<1	1.81	0.016	0.04	<0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
PM11-RP241	Soil	23	0.28	107	0.076	1	1.77	0.016	0.06	<0.1	0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11-RP242	Soil	24	0.29	155	0.079	<1	1.73	0.028	0.06	<0.1	0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
PM11-RP243	Soil	34	0.34	147	0.071	2	1.82	0.025	0.07	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
PM11-RP244	Soil	34	0.35	74	0.069	2	1.16	0.025	0.09	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PM11-RP245	Soil	17	0.16	55	0.062	<1	1.03	0.020	0.02	<0.1	<0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
PM11-RP246	Soil	35	0.36	91	0.064	<1	1.13	0.024	0.04	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
PM11-RP247	Soil	27	0.25	106	0.066	<1	1.38	0.022	0.04	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-RP248	Soil	35	0.37	120	0.078	1	1.57	0.029	0.05	<0.1	<0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-RP249	Soil	36	0.35	111	0.081	1	1.65	0.030	0.05	<0.1	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PM11-RP250	Soil	39	0.43	174	0.089	<1	1.74	0.034	0.05	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
PMS11	Rock Pulp	21	0.02	964	0.009	<1	0.15	0.006	0.06	2.3	2.89	0.5	10.6	0.12	<1	1.3	<0.2
PM11-RP251	Soil	45	0.44	73	0.069	<1	1.65	0.024	0.04	<0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-RP252	Soil	34	0.35	103	0.061	<1	1.26	0.028	0.03	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PM11-RP253	Soil	37	0.38	98	0.063	<1	1.24	0.026	0.03	<0.1	0.01	1.8	<0.1	<0.05	4	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	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	
PM11-RP254	Soil	0.1	17.9	3.8	18	<0.1	18.6	5.0	133	1.16	1.8	<0.5	0.3	23	<0.1	<0.1	<0.1	29	0.25	0.013	3
PM11-RP255	Soil	0.1	31.1	4.3	23	<0.1	26.9	6.6	134	1.91	2.7	1.2	0.8	27	<0.1	<0.1	<0.1	45	0.31	0.012	5
PM11-RP256	Soil	0.3	25.7	3.4	21	<0.1	25.9	7.0	191	1.42	2.9	0.7	0.6	32	<0.1	<0.1	<0.1	41	0.42	0.021	5
PM11-RP257	Soil	0.2	41.3	4.5	21	0.1	26.9	4.8	118	1.28	3.0	0.6	0.9	22	<0.1	<0.1	<0.1	38	0.21	0.018	5
PM11-RP258	Soil	0.4	104.3	4.6	28	0.4	63.9	9.5	344	2.40	4.4	<0.5	1.6	60	0.2	0.2	<0.1	55	0.69	0.037	20
PM11-RP259	Soil	0.3	113.1	4.9	28	0.4	70.2	11.1	367	2.64	5.4	0.6	1.6	50	<0.1	0.1	<0.1	58	0.59	0.040	19
PM11-RP260	Soil	0.2	22.8	4.1	23	<0.1	29.0	6.4	89	1.75	2.8	1.0	0.7	22	<0.1	<0.1	<0.1	41	0.26	0.102	3



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CERTIFICATE OF ANALYSIS

VAN11003145.1

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
PM11-RP254	Soil	37	0.37	116	0.059	<1	1.47	0.027	0.03	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-RP255	Soil	48	0.44	146	0.081	<1	2.04	0.027	0.05	<0.1	<0.01	3.3	<0.1	<0.05	6	<0.5	<0.2
PM11-RP256	Soil	50	0.48	106	0.066	1	1.60	0.024	0.06	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
PM11-RP257	Soil	31	0.29	128	0.070	<1	1.44	0.025	0.04	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
PM11-RP258	Soil	58	0.65	203	0.065	<1	2.30	0.020	0.08	<0.1	0.04	8.0	<0.1	<0.05	6	<0.5	<0.2
PM11-RP259	Soil	63	0.74	197	0.076	1	2.53	0.025	0.10	<0.1	0.04	8.1	<0.1	<0.05	6	0.7	<0.2
PM11-RP260	Soil	28	0.27	136	0.074	<1	2.04	0.022	0.04	<0.1	0.01	2.1	<0.1	<0.05	6	<0.5	<0.2



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QUALITY CONTROL REPORT

VAN11003145.1

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																					
PM11-RP87	Soil	0.2	20.4	2.3	27	<0.1	14.5	7.3	226	2.05	2.8	3.7	1.5	26	0.1	0.1	<0.1	69	0.40	0.075	6
REP PM11-RP87	QC	0.2	20.0	2.1	25	<0.1	14.8	6.9	227	2.04	2.5	4.6	1.4	26	<0.1	<0.1	<0.1	70	0.39	0.073	6
PM11-RP103	Soil	0.4	23.6	3.7	26	<0.1	22.3	7.5	130	1.82	<0.5	0.8	0.6	20	<0.1	<0.1	<0.1	53	0.17	0.058	3
REP PM11-RP103	QC	0.5	23.6	3.7	25	<0.1	20.1	7.0	124	1.78	<0.5	1.6	0.6	19	<0.1	<0.1	<0.1	50	0.18	0.057	2
PM11-RP124	Soil	0.2	33.2	2.6	29	<0.1	27.6	9.9	252	1.92	1.2	<0.5	1.1	27	<0.1	<0.1	<0.1	61	0.37	0.054	7
REP PM11-RP124	QC	0.3	33.5	2.7	28	<0.1	27.5	9.8	254	1.95	1.4	1.3	1.2	26	<0.1	<0.1	<0.1	61	0.37	0.053	7
PM11-RP146	Soil	0.5	19.7	3.5	54	<0.1	21.2	7.6	166	2.06	3.1	8.7	1.4	28	<0.1	0.2	<0.1	62	0.27	0.059	5
REP PM11-RP146	QC	0.5	19.7	3.5	53	<0.1	21.9	7.3	165	2.03	3.2	25.6	1.3	27	<0.1	0.1	<0.1	61	0.26	0.059	5
PM11-RP164	Soil	0.4	8.9	3.7	23	<0.1	8.1	3.6	68	1.66	1.7	1.4	0.7	6	<0.1	<0.1	<0.1	52	0.10	0.084	2
REP PM11-RP164	QC	0.4	8.5	4.1	24	<0.1	8.0	3.5	68	1.66	1.1	<0.5	0.8	6	<0.1	<0.1	<0.1	52	0.10	0.083	2
PM11-RP203	Soil	0.4	22.9	3.4	32	<0.1	18.7	7.4	185	1.90	1.4	1.0	1.1	32	<0.1	0.2	<0.1	56	0.32	0.022	4
REP PM11-RP203	QC	0.4	21.9	3.3	29	<0.1	18.2	6.9	180	1.84	1.3	1.1	1.0	30	<0.1	0.1	<0.1	54	0.31	0.021	4
PM11-RP204	Soil	0.4	24.2	4.2	29	<0.1	22.9	8.1	257	1.82	2.1	<0.5	1.2	26	<0.1	<0.1	<0.1	57	0.38	0.052	5
REP PM11-RP204	QC	0.4	24.6	4.1	27	<0.1	21.7	8.1	255	1.81	2.0	<0.5	0.8	26	<0.1	<0.1	<0.1	59	0.38	0.052	5
PM11-RP222	Soil	0.1	11.0	3.7	24	<0.1	15.9	4.4	88	1.22	<0.5	<0.5	0.3	12	<0.1	<0.1	<0.1	34	0.11	0.023	2
REP PM11-RP222	QC	<0.1	9.1	3.7	25	<0.1	12.1	4.5	90	1.23	<0.5	<0.5	0.4	13	<0.1	<0.1	<0.1	33	0.11	0.022	2
PMS11	Rock Pulp	16.1	61.2	16.2	16	0.2	15.6	2.4	96	3.59	434.0	191.0	0.6	25	0.3	23.2	0.2	10	0.97	0.004	1
REP PMS11	QC	15.5	60.5	15.7	17	0.1	15.6	2.3	96	3.28	434.1	206.1	0.6	31	0.2	25.7	0.1	9	0.95	0.005	1
PM11-RP257	Soil	0.2	41.3	4.5	21	0.1	26.9	4.8	118	1.28	3.0	0.6	0.9	22	<0.1	<0.1	<0.1	38	0.21	0.018	5
REP PM11-RP257	QC	0.1	41.6	4.5	20	0.1	26.8	5.0	118	1.33	3.3	1.5	0.9	22	<0.1	<0.1	<0.1	38	0.23	0.018	5
Reference Materials																					
STD DS8	Standard	13.7	108.5	125.3	301	1.7	38.7	7.4	603	2.43	26.4	113.0	6.6	63	2.2	5.0	6.2	43	0.70	0.081	15
STD DS8	Standard	12.9	108.3	125.6	307	1.8	37.5	7.7	617	2.43	26.7	109.7	6.9	64	2.3	5.3	6.2	43	0.69	0.079	15
STD DS8	Standard	12.3	99.6	116.2	280	1.6	34.6	6.7	555	2.25	25.5	99.6	6.0	59	2.0	4.8	5.6	38	0.63	0.073	13
STD DS8	Standard	12.0	101.7	116.6	286	1.7	36.2	7.1	541	2.27	24.8	99.6	5.9	56	2.1	4.9	5.8	38	0.61	0.073	12
STD DS8	Standard	14.2	119.3	131.3	324	1.9	40.7	7.9	660	2.63	28.5	125.6	7.2	74	2.5	6.2	7.5	45	0.73	0.088	16
STD DS8	Standard	14.1	111.8	129.7	319	1.9	38.4	7.7	619	2.48	27.1	111.5	7.4	71	2.4	6.1	7.2	43	0.71	0.083	16
STD DS8	Standard	12.5	109.4	129.5	307	1.8	40.5	8.0	590	2.43	25.2	119.2	6.2	59	2.2	5.0	6.2	43	0.65	0.078	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: PLACER MTN.
Report Date: August 03, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

VAN11003145.1

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																	
PM11-RP87	Soil	30	0.44	86	0.087	<1	1.08	0.036	0.07	<0.1	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
REP PM11-RP87	QC	31	0.44	86	0.088	<1	1.08	0.029	0.07	<0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
PM11-RP103	Soil	36	0.44	75	0.094	<1	1.65	0.015	0.06	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
REP PM11-RP103	QC	33	0.42	72	0.087	<1	1.57	0.014	0.06	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11-RP124	Soil	52	0.61	140	0.094	<1	1.39	0.031	0.09	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
REP PM11-RP124	QC	51	0.61	132	0.091	<1	1.37	0.031	0.09	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
PM11-RP146	Soil	34	0.47	145	0.081	<1	1.65	0.023	0.08	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
REP PM11-RP146	QC	34	0.47	146	0.082	<1	1.66	0.025	0.08	<0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11-RP164	Soil	17	0.15	34	0.078	<1	1.06	0.012	0.03	<0.1	0.03	1.1	<0.1	<0.05	5	<0.5	<0.2
REP PM11-RP164	QC	16	0.15	35	0.078	<1	1.08	0.012	0.03	<0.1	0.03	1.1	<0.1	<0.05	5	<0.5	<0.2
PM11-RP203	Soil	40	0.57	107	0.118	<1	1.59	0.028	0.09	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
REP PM11-RP203	QC	38	0.55	104	0.113	<1	1.49	0.024	0.09	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PM11-RP204	Soil	36	0.40	112	0.091	2	1.54	0.025	0.04	<0.1	0.04	2.0	<0.1	<0.05	5	<0.5	<0.2
REP PM11-RP204	QC	36	0.39	110	0.091	1	1.50	0.027	0.04	<0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-RP222	Soil	18	0.19	63	0.073	<1	1.09	0.018	0.03	<0.1	<0.01	0.8	<0.1	<0.05	4	<0.5	<0.2
REP PM11-RP222	QC	19	0.19	67	0.075	<1	1.09	0.020	0.03	<0.1	<0.01	0.7	<0.1	<0.05	4	<0.5	<0.2
PMS11	Rock Pulp	21	0.02	964	0.009	<1	0.15	0.006	0.06	2.3	2.89	0.5	10.6	0.12	<1	1.3	<0.2
REP PMS11	QC	21	0.02	2980	0.009	<1	0.15	0.006	0.06	3.2	2.89	0.5	10.3	0.20	<1	1.5	<0.2
PM11-RP257	Soil	31	0.29	128	0.070	<1	1.44	0.025	0.04	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
REP PM11-RP257	QC	32	0.30	127	0.070	<1	1.47	0.025	0.05	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	118	0.61	282	0.112	2	0.88	0.087	0.41	2.8	0.21	2.0	5.4	0.15	5	5.9	4.9
STD DS8	Standard	119	0.60	287	0.114	2	0.91	0.086	0.42	2.7	0.19	2.1	5.3	0.15	5	5.1	4.0
STD DS8	Standard	106	0.55	256	0.104	2	0.83	0.086	0.39	2.8	0.20	1.9	5.0	0.13	4	4.8	5.2
STD DS8	Standard	107	0.56	242	0.096	2	0.81	0.081	0.39	2.4	0.18	1.8	4.9	0.13	4	4.7	4.7
STD DS8	Standard	124	0.66	293	0.137	3	0.96	0.096	0.45	3.2	0.22	2.2	5.4	0.19	5	5.5	4.9
STD DS8	Standard	119	0.63	297	0.136	2	0.93	0.090	0.43	3.1	0.23	2.2	5.4	0.13	5	5.3	4.7
STD DS8	Standard	120	0.59	269	0.108	3	0.85	0.081	0.40	3.0	0.19	1.8	5.3	0.14	5	5.1	4.6

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Project: PLACER MTN.

Report Date: August 03, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

VAN11003145.1

		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	14.2	110.6	127.8	309	1.8	38.3	7.9	596	2.43	26.3	131.4	6.9	61	2.6	5.8	6.4	44	0.69	0.080	15
STD DS8	Standard	13.9	118.1	125.6	319	1.8	41.7	8.4	631	2.53	27.4	122.7	6.6	62	2.6	5.8	6.5	45	0.67	0.081	14
STD DS8	Standard	13.7	117.4	129.0	329	1.7	41.9	8.6	619	2.62	26.5	116.5	6.7	63	2.1	5.3	6.4	45	0.67	0.083	14
STD DS8	Standard	13.1	113.0	127.8	311	1.8	38.4	7.9	605	2.44	27.2	111.1	6.8	57	2.2	4.8	5.6	45	0.69	0.080	14
STD DS8	Standard	13.6	112.5	124.8	309	1.8	38.6	7.6	602	2.43	27.8	112.0	6.8	58	2.3	4.6	5.5	45	0.68	0.076	14
STD DS8	Standard	13.7	109.1	119.5	307	1.8	36.8	7.5	630	2.45	27.0	102.4	6.8	71	2.2	6.0	6.8	42	0.69	0.083	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	0.02	<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	0.03	<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: August 03, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

VAN11003145.1

		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	118	0.59	280	0.116	3	0.86	0.086	0.41	3.1	0.20	2.2	5.3	0.16	5	4.8	5.0
STD DS8	Standard	124	0.62	284	0.116	1	0.91	0.087	0.41	3.0	0.21	2.0	5.6	0.15	5	5.0	4.9
STD DS8	Standard	124	0.62	289	0.117	<1	0.92	0.085	0.41	3.0	0.20	2.1	5.5	0.13	5	5.0	5.2
STD DS8	Standard	118	0.62	275	0.111	3	0.91	0.084	0.41	3.0	0.20	2.0	5.3	0.18	5	5.6	5.4
STD DS8	Standard	119	0.61	276	0.111	2	0.90	0.085	0.40	2.8	0.20	2.0	5.4	0.18	5	5.8	5.6
STD DS8	Standard	116	0.62	285	0.126	2	0.90	0.091	0.42	2.9	0.19	2.2	5.3	0.16	5	5.3	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
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: July 13, 2011
Report Date: August 05, 2011
Page: 1 of 8

CERTIFICATE OF ANALYSIS

VAN11003146.1

CLIENT JOB INFORMATION

Project: PLACER MTN.
Shipment ID: Shipment #2
P.O. Number
Number of Samples: 196

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
Bill 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 (189 samples), SS80 (189 samples), 1DX2 (193 samples).

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: PLACER MTN.
 Report Date: August 05, 2011

Page: 2 of 8 Part 1

CERTIFICATE OF ANALYSIS

VAN11003146.1

Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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	0.1	2	0.01	0.001	1
PM11-JF08D	Soil	0.4	16.4	4.7	62	<0.1	19.4	7.0	196	1.84	1.3	2.1	1.0	34	<0.1	<0.1	<0.1	49	0.22	0.029	5
PM11-JF09D	Soil	0.5	20.2	4.1	44	<0.1	27.2	7.5	178	2.11	1.8	19.1	1.5	36	<0.1	0.1	<0.1	59	0.26	0.048	7
PM11-JF10D	Soil	0.5	18.9	4.0	45	<0.1	21.2	7.3	216	1.98	1.7	2.4	1.3	39	<0.1	0.2	<0.1	55	0.27	0.029	6
PM11-JF11D	Soil	0.3	14.4	3.7	37	<0.1	23.1	6.2	173	1.89	0.9	1.8	1.1	36	<0.1	<0.1	<0.1	50	0.25	0.026	4
PM11-JF12D	Soil	0.6	16.4	4.4	44	<0.1	24.1	8.1	164	2.06	1.5	27.9	1.5	23	<0.1	<0.1	<0.1	56	0.17	0.102	5
PM11-JF131	Soil	0.5	25.8	5.1	32	0.2	18.6	5.9	276	1.84	2.8	3.5	1.9	62	0.1	0.1	<0.1	55	0.47	0.048	12
PM11-JF132	Soil	0.6	28.0	5.1	32	0.3	21.0	6.0	352	1.89	3.5	5.1	2.0	68	0.2	0.1	<0.1	63	0.57	0.053	25
PM11-JF133	Soil	0.4	24.1	4.6	35	0.1	18.2	7.5	323	2.00	2.3	3.1	2.6	44	0.1	0.1	<0.1	50	0.47	0.046	12
PM11-JF134	Soil	0.6	31.7	5.6	32	0.3	27.0	7.0	553	2.01	4.9	6.3	1.3	73	0.3	0.2	<0.1	54	1.02	0.055	18
PM11-JF135	Soil	0.7	32.1	3.8	45	0.2	29.9	9.4	207	2.32	4.3	51.9	1.5	31	<0.1	0.3	<0.1	69	0.26	0.063	7
PM11-JF136	Soil	0.7	24.0	4.4	43	0.2	29.3	8.5	182	1.98	3.6	1.1	1.7	24	<0.1	0.1	<0.1	55	0.22	0.125	6
PM11-JF137	Soil	0.5	17.1	3.9	33	<0.1	27.9	8.6	237	1.75	2.7	<0.5	1.3	16	<0.1	<0.1	<0.1	45	0.17	0.101	4
PM11-JF138	Soil	0.5	11.3	4.0	24	<0.1	17.7	4.5	113	1.29	1.3	<0.5	0.6	14	<0.1	<0.1	<0.1	33	0.14	0.016	3
PM11-JF139	Soil	0.4	18.7	3.4	26	0.1	31.0	5.5	152	1.50	2.9	2.2	1.0	25	<0.1	<0.1	0.1	37	0.20	0.018	5
PM11-JF140	Soil	0.5	12.3	3.5	37	<0.1	21.1	6.9	232	1.69	2.1	1.0	0.9	21	<0.1	<0.1	0.1	43	0.15	0.060	4
PM11-JF141	Soil	0.7	13.9	3.9	38	<0.1	21.7	7.1	252	1.72	2.1	0.6	0.9	22	<0.1	0.1	0.1	43	0.17	0.050	3
PM11-JF142	Soil	0.6	19.0	3.6	42	0.1	24.2	7.9	259	1.95	2.0	1.1	1.2	28	<0.1	0.2	<0.1	49	0.27	0.055	6
PM11-JF143	Soil	0.4	11.4	4.4	39	0.1	15.8	5.9	288	1.63	1.4	2.1	1.0	27	<0.1	<0.1	0.1	42	0.33	0.030	5
PM11-JF144	Soil	0.3	13.7	3.4	42	0.1	18.9	5.6	236	1.50	1.8	1.0	0.9	30	<0.1	<0.1	<0.1	35	0.18	0.052	5
PM11-JF145	Soil	0.7	13.2	3.6	46	0.1	18.6	6.8	289	1.62	1.8	<0.5	1.1	37	<0.1	<0.1	<0.1	38	0.24	0.095	4
PM11-JF146	Soil	0.3	12.6	2.5	32	<0.1	19.3	5.6	258	1.46	1.2	1.5	0.7	31	<0.1	<0.1	0.1	36	0.15	0.019	6
PM11-JF147	Soil	0.3	11.0	3.4	44	<0.1	22.1	5.0	153	1.41	1.0	0.8	0.8	23	<0.1	<0.1	<0.1	32	0.13	0.053	3
PM11-JF148	Soil	0.5	11.6	3.1	45	<0.1	18.9	5.7	143	1.61	0.9	<0.5	0.9	28	<0.1	<0.1	<0.1	41	0.14	0.040	4
PM11-JF149	Soil	<0.1	1.1	0.5	6	<0.1	2.1	0.6	25	0.18	<0.5	<0.5	<0.1	2	<0.1	<0.1	<0.1	6	<0.01	0.010	<1
PM11-JF150	Soil	0.8	17.8	4.0	49	0.2	22.1	7.1	308	1.68	1.7	1.8	1.2	26	0.1	0.1	0.1	44	0.16	0.075	4
PMS05	Rock Pulp	16.2	59.8	15.2	17	0.2	15.6	2.3	120	3.69	466.2	222.0	0.9	32	0.4	27.9	0.2	9	0.98	0.006	2
PM11-JF151	Soil	0.4	17.9	4.0	52	0.2	25.2	6.9	294	1.70	2.3	0.6	1.3	22	<0.1	<0.1	<0.1	40	0.15	0.091	4
PM11-JF152	Soil	0.5	12.8	4.0	60	0.2	18.5	6.9	282	1.67	1.5	1.4	1.5	29	0.1	0.1	<0.1	38	0.19	0.175	4
PM11-JF153	Soil	0.8	29.8	4.6	41	0.1	23.1	7.5	224	1.95	2.4	1.5	1.8	35	<0.1	0.1	<0.1	45	0.33	0.027	8
PM11-JF154	Soil	0.7	15.5	4.0	47	<0.1	22.4	7.1	163	1.80	2.0	43.9	1.6	18	<0.1	0.1	<0.1	46	0.14	0.109	4

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CERTIFICATE OF ANALYSIS

VAN11003146.1

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	
PM11-JF08D	Soil			32	0.50	147	0.114	<1	1.85	0.025	0.08	<0.1	0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
PM11-JF09D	Soil			34	0.50	147	0.121	<1	1.92	0.021	0.07	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
PM11-JF10D	Soil			36	0.53	122	0.120	<1	1.66	0.025	0.07	<0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
PM11-JF11D	Soil			30	0.52	111	0.119	<1	1.68	0.025	0.07	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JF12D	Soil			29	0.41	125	0.097	<1	2.08	0.018	0.06	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2
PM11-JF131	Soil			37	0.47	153	0.089	<1	2.01	0.028	0.08	<0.1	0.03	4.7	<0.1	<0.05	6	<0.5	<0.2
PM11-JF132	Soil			41	0.48	175	0.088	<1	2.02	0.028	0.09	<0.1	0.04	5.5	<0.1	<0.05	6	<0.5	<0.2
PM11-JF133	Soil			41	0.55	135	0.104	<1	1.71	0.027	0.16	<0.1	0.01	4.8	0.1	<0.05	5	<0.5	<0.2
PM11-JF134	Soil			47	0.45	256	0.069	2	2.65	0.027	0.09	<0.1	0.05	5.4	<0.1	<0.05	7	0.8	<0.2
PM11-JF135	Soil			51	0.57	218	0.103	<1	1.93	0.025	0.12	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JF136	Soil			39	0.43	189	0.096	1	2.22	0.027	0.07	<0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
PM11-JF137	Soil			38	0.37	164	0.089	<1	1.83	0.025	0.06	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
PM11-JF138	Soil			26	0.27	98	0.082	<1	1.36	0.024	0.04	<0.1	0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PM11-JF139	Soil			32	0.32	151	0.084	1	1.55	0.027	0.06	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
PM11-JF140	Soil			30	0.34	164	0.083	<1	1.68	0.019	0.06	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PM11-JF141	Soil			30	0.35	192	0.088	1	1.72	0.021	0.07	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11-JF142	Soil			38	0.51	170	0.098	<1	1.74	0.024	0.15	<0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
PM11-JF143	Soil			25	0.37	141	0.090	<1	1.53	0.024	0.15	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-JF144	Soil			24	0.34	112	0.080	<1	1.45	0.023	0.09	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JF145	Soil			30	0.37	130	0.086	2	1.45	0.020	0.15	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-JF146	Soil			27	0.30	103	0.073	<1	1.14	0.022	0.07	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
PM11-JF147	Soil			22	0.26	127	0.075	<1	1.40	0.020	0.07	<0.1	0.03	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11-JF148	Soil			32	0.39	126	0.085	1	1.41	0.021	0.08	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JF149	Soil			3	0.03	14	0.009	<1	0.15	0.002	<0.01	<0.1	0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
PM11-JF150	Soil			31	0.40	151	0.089	1	1.59	0.019	0.08	<0.1	0.03	2.0	<0.1	<0.05	5	<0.5	<0.2
PMS05	Rock Pulp			22	0.03	891	0.009	<1	0.16	0.007	0.06	2.5	2.95	0.6	10.7	0.13	<1	1.0	<0.2
PM11-JF151	Soil			28	0.35	173	0.093	1	2.02	0.023	0.07	<0.1	0.05	2.2	0.1	<0.05	6	<0.5	<0.2
PM11-JF152	Soil			28	0.30	144	0.084	<1	1.90	0.020	0.08	<0.1	0.05	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-JF153	Soil			37	0.43	192	0.098	<1	2.10	0.033	0.07	<0.1	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2
PM11-JF154	Soil			30	0.36	138	0.089	<1	1.85	0.021	0.07	<0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
PM11-JF155	Soil		0.8	11.2	4.1	39	<0.1	18.5	6.1	300	1.63	1.6	1.9	1.0	16	<0.1	<0.1	<0.1	41	0.14	0.100	3
PM11-JF156	Soil		0.6	10.5	4.3	24	<0.1	8.1	4.8	98	1.76	1.5	<0.5	1.7	14	<0.1	0.1	<0.1	45	0.09	0.131	3
PM11-JF157	Soil		0.6	9.3	3.3	25	<0.1	8.7	5.5	120	2.12	1.3	1.7	2.1	16	<0.1	<0.1	<0.1	59	0.12	0.100	3
PM11-JF158	Soil		0.2	11.3	4.7	24	<0.1	9.8	5.0	102	1.54	0.9	0.6	1.7	37	<0.1	<0.1	<0.1	34	0.15	0.039	5
PM11-JF159	Soil		1.4	39.2	6.2	2483	<0.1	5.5	4.2	51	1.86	1.5	<0.5	2.5	21	<0.1	0.1	0.1	39	0.14	0.218	3
PM11-JF160	Soil		0.3	6.7	3.1	17	<0.1	7.0	4.4	156	1.56	<0.5	2.7	1.5	29	<0.1	<0.1	<0.1	38	0.24	0.027	4
PM11-JF161	Soil		0.4	8.0	4.1	25	<0.1	7.4	3.7	140	1.45	<0.5	1.7	1.1	34	<0.1	<0.1	<0.1	34	0.24	0.025	5
PM11-JF162	Soil		0.4	5.9	4.9	17	<0.1	5.5	3.2	49	1.65	1.1	11.6	1.5	18	<0.1	<0.1	0.1	41	0.11	0.139	4
PM11-JF163	Soil		0.2	7.4	3.5	22	<0.1	6.8	3.9	117	1.45	<0.5	2.2	1.3	43	<0.1	<0.1	<0.1	34	0.26	0.021	4
PM11-JF164	Soil		0.2	5.0	3.5	18	<0.1	4.9	1.7	71	0.76	<0.5	0.6	0.3	16	<0.1	<0.1	<0.1	19	0.11	0.013	2
PM11-JF165	Soil		0.2	12.6	2.9	29	<0.1	11.5	5.3	215	1.58	0.5	2.5	1.4	37	<0.1	<0.1	<0.1	45	0.27	0.020	5
PM11-JF166	Soil		0.2	12.3	3.4	32	<0.1	11.4	4.5	199	1.46	<0.5	0.7	0.8	38	<0.1	<0.1	<0.1	38	0.26	0.021	5
PM11-JF167	Soil		0.2	11.5	3.9	28	<0.1	10.5	3.6	112	1.24	<0.5	1.3	0.6	29	<0.1	<0.1	<0.1	30	0.18	0.019	3
PM11-JF168	Soil		<0.1	7.1	2.6	15	<0.1	7.6	2.5	83	0.85	<0.5	<0.5	0.3	16	<0.1	<0.1	<0.1	22	0.15	0.014	2
PM11-JF169	Soil		0.3	13.9	4.3	19	<0.1	13.6	5.3	70	1.57	1.6	0.7	1.0	11	<0.1	<0.1	<0.1	38	0.10	0.103	2
PM11-JF170	Soil		0.1	9.6	2.8	14	<0.1	9.0	3.0	82	0.88	<0.5	<0.5	0.4	20	<0.1	<0.1	<0.1	23	0.20	0.019	2
PM11-JF171	Soil		0.4	16.2	3.8	23	<0.1	15.5	5.5	220	1.45	1.2	<0.5	0.6	19	<0.1	<0.1	<0.1	37	0.17	0.076	2
PM11-JF172	Soil		0.3	10.0	5.7	17	<0.1	9.1	3.2	100	1.06	0.7	0.7	0.4	16	<0.1	0.1	<0.1	26	0.13	0.054	2
PM11-JF173	Soil		0.5	12.3	4.7	29	<0.1	12.9	5.6	114	2.02	2.0	0.7	0.9	17	<0.1	<0.1	0.1	50	0.13	0.168	3
PM11-JF174	Soil		0.4	9.9	4.2	23	<0.1	10.2	5.0	138	1.69	1.2	<0.5	0.8	11	<0.1	<0.1	0.1	41	0.11	0.114	3
PM11-JF175	Soil		0.3	10.1	4.6	17	<0.1	10.4	3.7	88	1.41	1.4	1.0	0.9	9	<0.1	<0.1	0.1	34	0.08	0.115	2
PM11-JF176	Soil		0.1	27.4	1.8	20	<0.1	18.8	5.9	108	1.41	1.1	2.9	0.5	18	<0.1	<0.1	<0.1	41	0.21	0.014	2
PM11-JF177	Soil		0.3	26.9	3.5	23	<0.1	18.9	6.2	97	1.51	1.5	<0.5	0.8	15	<0.1	<0.1	<0.1	40	0.15	0.070	3
PM11-JF178	Soil		0.4	21.5	3.9	22	<0.1	17.0	5.6	153	1.45	0.9	0.7	0.6	17	<0.1	<0.1	<0.1	39	0.17	0.055	2
PM11-JF179	Soil		0.2	16.0	4.7	20	<0.1	14.1	4.6	155	1.31	<0.5	0.8	0.4	22	<0.1	<0.1	<0.1	35	0.22	0.030	2
PM11-JF180	Soil		0.3	36.5	2.3	24	<0.1	20.5	5.7	149	1.63	1.6	0.6	0.8	18	<0.1	0.1	<0.1	50	0.23	0.031	3
PM11-JF180D	Soil		0.3	38.7	2.2	27	<0.1	21.8	6.1	162	1.72	1.9	1.1	0.9	20	<0.1	0.1	<0.1	54	0.26	0.036	4
PM11-JF181	Soil		0.4	16.0	3.8	21	<0.1	14.2	5.7	94	1.57	1.4	<0.5	0.7	15	<0.1	<0.1	<0.1	44	0.15	0.026	2
PM11-JF182	Soil		0.2	24.2	4.0	28	<0.1	18.7	7.2	184	1.66	<0.5	2.8	1.0	37	<0.1	<0.1	<0.1	46	0.32	0.035	7
PM11-JF183	Soil		0.3	23.1	3.8	28	<0.1	17.4	7.8	212	1.66	0.9	4.2	0.9	38	<0.1	<0.1	<0.1	45	0.34	0.033	6

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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	
PM11-JF155	Soil			27	0.32	152	0.086	<1	1.65	0.021	0.06	<0.1	0.04	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JF156	Soil			13	0.19	63	0.105	<1	1.93	0.017	0.04	<0.1	0.04	1.4	<0.1	<0.05	6	<0.5	<0.2
PM11-JF157	Soil			14	0.25	65	0.096	<1	1.76	0.017	0.04	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-JF158	Soil			13	0.23	165	0.102	<1	2.08	0.030	0.05	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
PM11-JF159	Soil			10	0.12	48	0.126	<1	3.57	0.021	0.05	0.1	0.04	1.5	<0.1	<0.05	9	0.5	<0.2
PM11-JF160	Soil			11	0.32	86	0.102	<1	1.25	0.024	0.05	<0.1	0.02	1.2	<0.1	<0.05	4	<0.5	<0.2
PM11-JF161	Soil			12	0.29	111	0.088	<1	1.62	0.029	0.05	<0.1	<0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JF162	Soil			9	0.09	76	0.115	<1	2.33	0.021	0.03	<0.1	0.03	0.9	<0.1	<0.05	8	<0.5	<0.2
PM11-JF163	Soil			15	0.34	82	0.109	<1	1.29	0.024	0.05	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JF164	Soil			10	0.15	42	0.065	<1	0.69	0.022	0.02	<0.1	0.02	0.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JF165	Soil			27	0.53	95	0.115	<1	1.48	0.030	0.04	<0.1	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PM11-JF166	Soil			24	0.45	98	0.095	<1	1.48	0.030	0.04	<0.1	<0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
PM11-JF167	Soil			22	0.36	73	0.088	<1	1.22	0.026	0.03	<0.1	0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11-JF168	Soil			17	0.25	39	0.068	<1	0.79	0.025	0.02	<0.1	0.01	1.2	<0.1	<0.05	3	<0.5	<0.2
PM11-JF169	Soil			22	0.19	63	0.092	<1	2.07	0.021	0.02	<0.1	0.02	1.5	<0.1	<0.05	7	<0.5	<0.2
PM11-JF170	Soil			20	0.27	46	0.070	<1	0.84	0.025	0.02	<0.1	0.02	1.4	<0.1	<0.05	3	<0.5	<0.2
PM11-JF171	Soil			26	0.30	73	0.078	<1	1.43	0.021	0.03	<0.1	0.04	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JF172	Soil			15	0.18	59	0.063	<1	1.05	0.019	0.04	<0.1	0.04	1.0	<0.1	<0.05	4	<0.5	<0.2
PM11-JF173	Soil			21	0.21	63	0.093	<1	2.11	0.016	0.03	<0.1	0.04	1.5	<0.1	<0.05	8	<0.5	<0.2
PM11-JF174	Soil			17	0.16	48	0.085	<1	1.80	0.017	0.02	<0.1	0.04	1.5	<0.1	<0.05	7	<0.5	<0.2
PM11-JF175	Soil			13	0.13	45	0.089	1	1.87	0.017	0.02	<0.1	0.05	1.3	<0.1	<0.05	6	<0.5	<0.2
PM11-JF176	Soil			35	0.49	60	0.095	<1	1.07	0.021	0.05	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
PM11-JF177	Soil			27	0.35	72	0.099	1	1.92	0.020	0.04	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2
PM11-JF178	Soil			22	0.32	68	0.077	<1	1.48	0.016	0.04	<0.1	0.04	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11-JF179	Soil			18	0.27	61	0.085	<1	1.36	0.018	0.03	<0.1	0.03	1.1	<0.1	<0.05	6	<0.5	<0.2
PM11-JF180	Soil			30	0.42	102	0.078	<1	1.28	0.020	0.05	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PM11-JF180D	Soil			33	0.45	106	0.082	<1	1.31	0.022	0.06	<0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
PM11-JF181	Soil			21	0.29	73	0.091	<1	1.36	0.018	0.03	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-JF182	Soil			25	0.40	144	0.091	<1	1.74	0.026	0.06	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
PM11-JF183	Soil			25	0.41	125	0.092	<1	1.65	0.028	0.05	<0.1	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

VAN11003146.1

Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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	
PM11-JF184	Soil	0.6	41.4	4.7	25	<0.1	20.2	7.7	164	1.74	1.2	2.0	0.7	57	<0.1	<0.1	<0.1	38	0.51	0.053	19
PM11-JF185	Soil	0.7	30.6	5.3	31	<0.1	15.2	6.7	348	1.39	0.9	2.8	0.5	65	0.1	0.1	<0.1	32	0.71	0.059	12
PM11-JF186	Soil	0.4	33.0	5.0	31	0.1	26.0	8.4	379	2.28	2.8	0.8	1.2	87	<0.1	0.2	<0.1	60	0.81	0.033	21
PM11-JF187	Soil	0.4	46.1	12.1	66	0.2	36.6	8.1	890	2.12	2.2	1.4	1.2	80	0.3	0.2	0.1	46	0.86	0.119	30
PM11-JF188	Soil	0.6	57.6	5.2	25	0.2	32.5	8.3	417	2.08	2.5	<0.5	1.1	73	0.1	<0.1	0.1	58	0.65	0.041	17
PM11-JF189	Soil	0.2	2.6	2.2	10	<0.1	2.2	0.8	30	0.38	<0.5	0.7	0.2	9	<0.1	<0.1	<0.1	12	0.08	0.009	1
PM11-JF190	Soil	0.8	18.3	4.9	21	0.3	10.6	3.3	181	0.80	1.4	<0.5	0.3	93	0.2	0.1	<0.1	21	1.01	0.046	7
PM11-JF191	Soil	0.8	4.4	3.5	7	<0.1	2.9	1.4	33	0.48	2.0	<0.5	0.2	29	<0.1	<0.1	<0.1	13	0.38	0.037	2
PM11-JF192	Soil	0.5	34.6	3.0	39	<0.1	34.2	11.1	427	2.19	5.2	1.7	1.7	40	<0.1	0.2	<0.1	65	0.46	0.058	8
PM11-JF193	Soil	1.2	43.1	3.3	47	<0.1	70.3	20.9	607	2.82	8.5	1.5	1.4	53	0.1	0.3	0.1	69	0.43	0.058	9
PM11-JF194	Soil	0.6	16.3	5.9	9	<0.1	14.9	3.9	60	1.44	2.8	0.8	0.5	11	<0.1	<0.1	0.1	35	0.11	0.053	2
PM11-JF195	Soil	0.2	11.5	3.7	11	0.1	8.7	2.0	42	0.72	0.8	0.9	0.2	39	<0.1	<0.1	<0.1	15	0.31	0.023	4
PM11-JF196	Soil	0.1	12.1	2.0	19	<0.1	13.1	4.6	129	1.32	1.0	1.2	0.7	29	<0.1	<0.1	<0.1	38	0.28	0.020	3
PM11-JF197	Soil	0.2	7.2	3.5	24	<0.1	8.0	3.0	78	0.98	<0.5	1.3	0.4	16	<0.1	<0.1	<0.1	25	0.13	0.022	3
PM11-JF198	Soil	0.2	20.7	3.2	27	<0.1	19.7	6.4	230	1.61	1.4	1.6	0.8	34	<0.1	<0.1	<0.1	46	0.36	0.030	5
PM11-JF199	Soil	0.3	3.5	3.6	10	<0.1	2.7	1.4	36	0.70	<0.5	<0.5	0.3	6	<0.1	<0.1	<0.1	19	0.05	0.057	1
PM11-JF200	Soil	0.4	16.4	4.4	30	<0.1	17.8	7.8	97	2.04	1.3	<0.5	1.0	17	<0.1	<0.1	0.1	48	0.13	0.069	3
PMS06	Rock Pulp	116.8	3608	22.7	65	2.3	37.2	20.3	414	4.42	57.6	446.9	2.0	30	0.2	3.4	0.4	119	0.33	0.089	10
PM11-JF201	Soil	0.3	23.5	3.8	27	<0.1	18.4	5.5	159	1.68	1.2	<0.5	1.0	34	<0.1	<0.1	<0.1	43	0.31	0.015	6
PM11-JF202	Soil	0.2	20.8	3.1	27	<0.1	18.6	6.3	192	1.65	1.2	0.7	1.1	35	<0.1	<0.1	<0.1	47	0.36	0.009	6
PM11-JF203	Soil	0.2	70.7	4.9	31	0.2	32.0	6.5	234	2.43	2.3	2.5	1.8	43	<0.1	<0.1	<0.1	51	0.50	0.019	12
PM11-JF204	Soil	0.2	34.5	5.0	30	0.1	20.5	5.9	192	2.03	2.2	<0.5	1.3	40	<0.1	<0.1	0.1	43	0.60	0.035	8
PM11-JF205	Soil	0.6	60.4	4.5	29	0.2	31.8	10.7	646	2.27	6.1	1.0	1.3	47	<0.1	<0.1	<0.1	64	0.77	0.059	20
PM11-JF206	Soil	0.3	21.6	3.1	26	<0.1	19.1	6.4	175	1.66	1.8	1.0	1.3	36	<0.1	0.1	<0.1	45	0.61	0.024	8
PM11-JF207	Soil	0.8	58.5	6.2	41	0.3	29.8	11.3	897	2.46	6.1	1.3	1.4	70	0.2	0.2	0.2	73	1.29	0.066	15
PM11-JF208	Soil	0.2	30.6	5.7	36	0.2	19.6	6.1	198	1.74	2.1	2.8	2.1	47	0.1	0.1	0.1	43	0.81	0.044	13
PM11-JF209	Soil	0.4	12.8	3.1	29	0.1	13.1	4.8	212	1.34	1.9	1.8	1.2	38	0.1	0.1	<0.1	39	0.43	0.057	9
PM11-JF210	Soil	0.4	13.6	3.2	29	0.1	13.6	4.8	226	1.39	1.9	3.4	1.1	37	<0.1	0.1	<0.1	40	0.43	0.058	9
PM11-JF211	Soil	0.5	15.5	3.8	33	0.1	16.6	5.7	256	1.54	2.5	3.4	1.4	43	0.1	0.1	<0.1	43	0.49	0.055	10
PM11-JF212	Soil	0.4	18.6	5.2	41	0.2	19.5	6.1	338	1.73	2.4	1.6	1.3	67	0.3	0.1	<0.1	44	0.58	0.067	13

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Project: PLACER MTN.
Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

VAN11003146.1

Method Analyte Unit MDL	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		
PM11-JF184	Soil	27	0.34	156	0.072	3	2.68	0.023	0.08	<0.1	0.07	4.3	<0.1	0.05	7	0.7	<0.2	
PM11-JF185	Soil	22	0.33	133	0.062	4	1.86	0.019	0.12	<0.1	0.10	2.9	<0.1	0.06	5	<0.5	<0.2	
PM11-JF186	Soil	38	0.59	198	0.111	<1	2.41	0.029	0.08	<0.1	0.04	5.3	<0.1	<0.05	7	<0.5	<0.2	
PM11-JF187	Soil	38	0.49	275	0.083	3	2.18	0.038	0.14	<0.1	0.04	5.2	<0.1	<0.05	6	<0.5	<0.2	
PM11-JF188	Soil	46	0.47	224	0.089	1	2.78	0.033	0.07	<0.1	0.04	4.8	<0.1	<0.05	8	0.7	<0.2	
PM11-JF189	Soil	4	0.04	25	0.039	<1	0.23	0.015	0.02	<0.1	<0.01	0.4	<0.1	<0.05	2	<0.5	<0.2	
PM11-JF190	Soil	16	0.30	147	0.044	3	0.87	0.017	0.05	<0.1	0.13	1.8	<0.1	0.10	3	<0.5	<0.2	
PM11-JF191	Soil	5	0.09	43	0.049	<1	0.72	0.018	0.02	<0.1	0.02	0.5	<0.1	<0.05	4	0.6	<0.2	
PM11-JF192	Soil	60	0.69	139	0.098	2	1.46	0.044	0.14	<0.1	<0.01	5.1	<0.1	<0.05	4	0.5	<0.2	
PM11-JF193	Soil	66	0.63	122	0.073	1	1.29	0.037	0.11	<0.1	0.01	7.4	0.2	<0.05	4	0.5	<0.2	
PM11-JF194	Soil	15	0.12	80	0.094	1	2.81	0.019	0.03	<0.1	0.01	1.0	<0.1	<0.05	8	<0.5	<0.2	
PM11-JF195	Soil	15	0.16	70	0.046	<1	0.87	0.015	0.03	<0.1	0.04	0.9	<0.1	<0.05	4	<0.5	<0.2	
PM11-JF196	Soil	32	0.43	95	0.087	<1	1.07	0.034	0.04	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2	
PM11-JF197	Soil	17	0.20	80	0.065	<1	0.96	0.020	0.03	<0.1	0.02	1.1	<0.1	<0.05	4	<0.5	<0.2	
PM11-JF198	Soil	41	0.51	108	0.089	<1	1.28	0.035	0.05	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2	
PM11-JF199	Soil	7	0.05	31	0.059	<1	0.65	0.014	0.02	<0.1	0.02	0.6	<0.1	<0.05	4	<0.5	<0.2	
PM11-JF200	Soil	26	0.31	119	0.124	<1	2.00	0.022	0.06	<0.1	0.02	1.8	<0.1	<0.05	8	<0.5	<0.2	
PMS06	Rock Pulp	50	0.92	44	0.120	<1	1.34	0.037	0.92	3.8	0.06	10.0	0.5	1.98	6	7.3	0.9	
PM11-JF201	Soil	33	0.41	132	0.101	<1	1.65	0.035	0.07	<0.1	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2	
PM11-JF202	Soil	42	0.56	112	0.118	<1	1.31	0.043	0.06	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2	
PM11-JF203	Soil	46	0.53	210	0.119	<1	2.57	0.044	0.08	<0.1	0.02	5.2	<0.1	<0.05	7	<0.5	<0.2	
PM11-JF204	Soil	26	0.37	211	0.104	<1	2.32	0.038	0.05	<0.1	0.03	3.0	<0.1	<0.05	7	0.5	<0.2	
PM11-JF205	Soil	32	0.68	295	0.120	1	2.90	0.039	0.11	<0.1	0.05	4.7	<0.1	<0.05	8	0.8	<0.2	
PM11-JF206	Soil	40	0.50	119	0.080	1	1.42	0.031	0.07	<0.1	0.02	3.1	<0.1	0.07	4	0.7	<0.2	
PM11-JF207	Soil	40	0.42	231	0.083	4	2.79	0.029	0.08	<0.1	0.06	5.1	0.1	0.13	7	2.0	<0.2	
PM11-JF208	Soil	41	0.45	157	0.087	2	2.30	0.027	0.10	<0.1	0.03	5.8	0.2	0.06	6	<0.5	<0.2	
PM11-JF209	Soil	25	0.29	103	0.053	2	1.24	0.018	0.06	0.1	0.03	2.6	<0.1	<0.05	4	0.5	<0.2	
PM11-JF210	Soil	24	0.30	107	0.054	<1	1.28	0.019	0.06	<0.1	0.03	2.6	<0.1	<0.05	3	<0.5	<0.2	
PM11-JF211	Soil	29	0.33	124	0.061	2	1.50	0.020	0.07	<0.1	0.03	3.2	<0.1	<0.05	4	0.7	<0.2	
PM11-JF212	Soil	34	0.39	161	0.066	2	1.85	0.021	0.08	<0.1	0.05	3.8	<0.1	<0.05	5	0.8	<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	
PM11-JF213	Soil		0.5	17.2	3.8	38	0.1	17.2	6.1	335	1.64	2.4	2.6	1.2	55	0.2	0.1	<0.1	44	0.50	0.063	11
PM11-JF214	Soil		0.8	58.2	5.9	54	0.4	40.6	8.8	266	2.98	4.1	1.7	2.2	35	0.4	0.2	0.1	63	0.42	0.093	15
PM11-JF215	Soil		0.6	50.1	5.8	46	0.4	36.9	8.2	349	2.59	3.3	<0.5	1.8	40	0.4	0.2	<0.1	54	0.46	0.073	15
PM11-JF216	Soil		0.6	59.7	5.8	55	0.5	45.9	9.0	467	2.88	3.5	1.3	2.3	49	0.8	0.2	0.1	61	0.54	0.078	21
PM11-JF217	Soil		0.5	58.0	6.8	55	0.5	42.2	8.7	395	2.79	3.6	0.9	2.1	46	0.6	0.2	0.1	60	0.51	0.078	19
PM11-JF218	Soil		0.6	55.9	6.0	53	0.4	39.3	8.5	317	2.83	3.4	0.6	2.1	43	0.5	0.2	0.1	59	0.48	0.094	15
PM11-JF219	Soil		0.2	8.7	5.3	29	<0.1	11.8	4.6	145	1.30	0.9	<0.5	0.5	26	0.1	<0.1	<0.1	30	0.25	0.024	3
PM11-JF220	Soil		0.2	8.6	4.2	27	<0.1	12.1	4.5	108	1.28	0.7	1.1	0.6	21	<0.1	<0.1	<0.1	28	0.19	0.028	3
PM11-JF221	Soil		0.2	13.0	4.9	33	<0.1	16.1	5.0	113	1.50	0.8	0.8	0.7	28	0.1	0.1	<0.1	40	0.21	0.024	4
PM11-JF222	Soil		0.2	13.5	3.4	32	<0.1	16.9	5.4	126	1.51	0.8	<0.5	0.7	28	<0.1	<0.1	<0.1	39	0.22	0.021	4
PM11-JF223	Soil		0.2	12.7	3.5	35	<0.1	16.0	4.9	117	1.49	0.5	1.0	0.6	28	<0.1	<0.1	<0.1	40	0.22	0.022	4
PM11-JF224	Soil		0.3	15.1	3.5	36	<0.1	19.2	5.8	111	1.53	0.7	<0.5	0.7	26	<0.1	<0.1	<0.1	40	0.22	0.042	4
PM11-JF225	Soil		0.4	15.6	3.7	36	<0.1	20.0	6.1	116	1.61	1.0	<0.5	0.7	27	<0.1	0.1	<0.1	40	0.23	0.046	4
PM11-JF226	Soil		0.5	18.5	3.6	36	<0.1	21.2	6.2	243	1.61	1.5	0.6	0.9	38	<0.1	0.1	<0.1	45	0.33	0.021	7
PM11-JF227	Soil		0.5	16.4	3.9	39	<0.1	20.1	7.3	134	1.71	1.2	0.9	1.0	26	<0.1	0.1	<0.1	47	0.22	0.033	5
PM11-JF228	Soil		0.3	22.4	4.5	43	0.2	25.0	7.1	224	1.87	2.1	<0.5	1.2	27	0.1	0.1	<0.1	48	0.34	0.026	9
PM11-JF229	Soil		0.9	30.9	5.4	50	0.1	28.1	9.9	362	2.50	3.4	1.3	1.6	36	0.1	0.3	<0.1	67	0.50	0.030	9
PM11-JF230	Soil		0.3	11.3	4.1	35	0.1	16.9	5.4	233	1.41	0.9	<0.5	0.7	28	<0.1	<0.1	<0.1	34	0.31	0.026	3
PM11-JF231	Soil		0.3	8.2	4.1	18	<0.1	10.1	4.7	53	1.32	0.7	<0.5	0.6	25	<0.1	<0.1	<0.1	36	0.16	0.044	4
PM11-JF232	Soil		0.2	11.8	4.6	28	<0.1	14.2	5.4	296	1.54	0.5	<0.5	0.7	79	0.1	<0.1	<0.1	40	0.48	0.040	13
PM11-JF233	Soil		0.2	2.4	4.7	10	<0.1	2.1	1.0	19	0.40	<0.5	<0.5	0.2	9	<0.1	<0.1	<0.1	10	0.05	0.011	1
PM11-JF234	Soil		0.5	4.5	4.5	16	<0.1	3.9	2.5	40	1.27	<0.5	<0.5	1.1	8	<0.1	<0.1	<0.1	32	0.06	0.086	2
PM11-JF235	Soil		0.3	8.1	3.9	28	<0.1	7.9	3.7	65	1.57	0.6	2.0	1.1	17	<0.1	<0.1	<0.1	41	0.10	0.137	3
PM11-JF236	Soil		0.1	5.6	3.6	24	<0.1	7.3	3.2	78	1.03	<0.5	1.1	0.5	23	<0.1	<0.1	<0.1	26	0.15	0.022	2
PM11-JF237	Soil		0.2	7.6	4.3	23	<0.1	8.9	4.1	147	1.14	<0.5	1.1	0.6	45	<0.1	<0.1	0.1	29	0.29	0.019	5
PM11-JF238	Soil		0.2	7.2	4.5	19	<0.1	8.3	3.4	116	1.02	<0.5	<0.5	0.6	40	<0.1	<0.1	<0.1	24	0.25	0.014	4
PM11-JF239	Soil		0.1	4.6	3.8	19	<0.1	5.4	2.5	55	0.90	<0.5	<0.5	0.3	26	<0.1	<0.1	<0.1	24	0.18	0.015	3
PM11-JF240	Soil		0.2	7.6	3.7	24	<0.1	8.8	4.3	105	1.29	<0.5	0.9	0.7	34	<0.1	<0.1	<0.1	33	0.22	0.013	3
PM11-JF241	Soil		0.3	1.9	3.5	6	<0.1	1.6	0.7	18	0.29	<0.5	1.5	0.1	13	<0.1	<0.1	<0.1	8	0.07	0.008	1
PM11-JF242	Soil		0.3	6.8	4.6	20	<0.1	7.2	2.7	60	0.92	<0.5	0.5	0.5	35	<0.1	<0.1	<0.1	24	0.19	0.014	8

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Method Analyte	Unit	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
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	
PM11-JF213	Soil	30	0.36	134	0.065	2	1.62	0.021	0.08	<0.1	0.04	3.5	<0.1	<0.05	5	0.8	<0.2
PM11-JF214	Soil	66	0.52	196	0.074	2	3.68	0.031	0.10	<0.1	0.04	9.4	<0.1	<0.05	9	1.3	<0.2
PM11-JF215	Soil	60	0.48	189	0.074	2	3.21	0.023	0.09	<0.1	0.05	7.8	<0.1	<0.05	8	1.1	<0.2
PM11-JF216	Soil	68	0.54	236	0.082	2	3.87	0.027	0.10	<0.1	0.04	10.0	0.1	<0.05	9	1.6	<0.2
PM11-JF217	Soil	65	0.54	199	0.084	<1	3.63	0.026	0.10	<0.1	0.04	9.4	<0.1	<0.05	9	1.7	<0.2
PM11-JF218	Soil	65	0.53	195	0.086	2	3.67	0.027	0.10	<0.1	0.05	8.4	<0.1	<0.05	9	1.2	<0.2
PM11-JF219	Soil	19	0.22	113	0.076	1	1.30	0.021	0.04	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
PM11-JF220	Soil	19	0.21	116	0.070	1	1.27	0.020	0.04	<0.1	<0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11-JF221	Soil	30	0.35	113	0.092	<1	1.37	0.027	0.06	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PM11-JF222	Soil	30	0.38	125	0.090	<1	1.41	0.026	0.08	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
PM11-JF223	Soil	29	0.33	116	0.090	<1	1.37	0.026	0.06	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PM11-JF224	Soil	30	0.35	196	0.078	<1	1.36	0.023	0.06	<0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PM11-JF225	Soil	32	0.36	209	0.080	<1	1.46	0.022	0.06	<0.1	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-JF226	Soil	33	0.42	137	0.092	<1	1.34	0.024	0.12	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JF227	Soil	34	0.43	124	0.085	<1	1.46	0.024	0.07	<0.1	0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PM11-JF228	Soil	34	0.41	145	0.099	1	1.85	0.025	0.11	<0.1	0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
PM11-JF229	Soil	52	0.67	143	0.116	1	1.71	0.036	0.26	<0.1	0.01	4.7	<0.1	<0.05	5	0.7	<0.2
PM11-JF230	Soil	24	0.27	169	0.077	<1	1.44	0.021	0.09	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PM11-JF231	Soil	13	0.14	72	0.082	<1	1.56	0.021	0.02	<0.1	0.02	1.2	<0.1	<0.05	7	<0.5	<0.2
PM11-JF232	Soil	23	0.39	156	0.080	<1	1.80	0.025	0.08	<0.1	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
PM11-JF233	Soil	3	0.04	26	0.066	<1	0.57	0.021	0.01	<0.1	<0.01	0.3	<0.1	<0.05	6	<0.5	<0.2
PM11-JF234	Soil	8	0.06	36	0.084	<1	1.47	0.015	0.02	<0.1	0.02	1.1	<0.1	<0.05	6	<0.5	<0.2
PM11-JF235	Soil	14	0.14	56	0.081	<1	1.55	0.014	0.02	<0.1	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2
PM11-JF236	Soil	11	0.20	55	0.078	<1	1.09	0.021	0.02	<0.1	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
PM11-JF237	Soil	15	0.31	76	0.090	<1	1.27	0.025	0.05	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11-JF238	Soil	15	0.29	59	0.085	<1	1.20	0.026	0.04	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JF239	Soil	9	0.17	35	0.075	<1	0.87	0.030	0.02	<0.1	<0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
PM11-JF240	Soil	17	0.33	64	0.101	<1	1.33	0.021	0.04	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11-JF241	Soil	3	0.03	15	0.044	2	0.28	0.016	0.02	<0.1	<0.01	0.3	<0.1	<0.05	3	<0.5	<0.2
PM11-JF242	Soil	12	0.19	76	0.085	1	1.12	0.026	0.03	<0.1	0.02	1.3	<0.1	<0.05	5	<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	0.1	2	0.01	0.001	1
PM11-JF243	Soil	0.3	5.9	4.0	26	<0.1	7.7	3.1	55	1.48	<0.5	<0.5	0.7	24	<0.1	<0.1	<0.1	39	0.13	0.135	4
PM11-JF243D	Soil	0.3	4.8	3.7	26	<0.1	5.9	3.0	60	1.77	0.6	4.0	0.7	18	<0.1	<0.1	<0.1	50	0.09	0.154	3
PM11-JF244	Soil	1.0	7.4	5.0	17	<0.1	7.4	2.4	43	1.43	3.7	<0.5	1.5	14	<0.1	<0.1	0.1	41	0.09	0.444	2
PM11-JF245	Soil	0.2	15.9	5.1	25	<0.1	15.1	6.0	131	1.79	2.2	1.2	1.5	81	<0.1	<0.1	0.1	52	0.33	0.041	10
PM11-JF246	Soil	0.4	18.2	4.5	35	<0.1	17.3	8.4	232	1.98	1.1	1.2	1.3	51	<0.1	<0.1	<0.1	56	0.40	0.049	9
PM11-JF247	Soil	0.3	16.9	3.5	44	<0.1	12.3	10.1	280	2.49	0.7	2.0	1.5	48	<0.1	<0.1	<0.1	71	0.53	0.079	9
PM11-JF248	Soil	0.1	8.2	4.2	23	<0.1	8.5	4.5	95	1.45	<0.5	<0.5	0.9	22	<0.1	<0.1	<0.1	33	0.18	0.014	4
PM11-JF249	Soil	0.3	16.2	3.7	27	<0.1	14.5	7.4	368	1.67	0.8	0.9	0.7	38	<0.1	<0.1	<0.1	47	0.35	0.024	9
PM11-JF250	Soil	0.5	10.2	4.8	25	<0.1	11.2	5.2	93	1.85	1.5	0.7	0.9	12	<0.1	<0.1	0.1	53	0.13	0.073	3
PMS09	Rock Pulp	17.1	66.4	18.1	18	0.2	17.3	2.6	115	3.78	480.8	226.3	0.8	32	0.4	27.5	0.2	10	1.03	0.005	2
PM11-JF251	Soil	0.2	11.4	3.4	27	<0.1	9.8	5.4	218	1.69	0.6	0.6	1.3	26	<0.1	<0.1	<0.1	46	0.27	0.028	5
PM11-JF252	Soil	0.4	15.5	4.3	35	<0.1	12.9	7.8	168	2.38	1.6	2.2	1.3	13	<0.1	0.1	<0.1	72	0.14	0.054	4
PM11-JF253	Soil	0.3	18.0	4.6	39	<0.1	10.4	9.9	238	3.17	3.8	<0.5	1.2	29	<0.1	0.2	<0.1	97	0.39	0.068	5
PM11-JF254	Soil	0.2	14.9	3.3	30	<0.1	12.3	5.5	194	2.01	0.6	95.4	0.8	28	<0.1	<0.1	<0.1	52	0.28	0.017	5
PM11-JF255	Soil	0.5	19.3	3.4	40	<0.1	14.8	7.9	227	2.30	1.5	1.2	1.1	46	0.1	0.1	<0.1	71	0.49	0.050	6
PM11-JF256	Soil	0.5	32.1	4.3	40	<0.1	19.1	10.9	447	2.78	3.1	1.3	2.2	57	<0.1	0.2	<0.1	87	0.81	0.068	17
PM11-JF257	Soil	1.2	30.7	4.9	20	0.2	25.4	6.1	386	1.57	2.1	1.0	0.5	78	0.1	0.2	<0.1	42	1.16	0.040	13
PM11-JF258	Soil	1.3	31.2	6.2	36	0.2	22.5	4.6	322	1.38	2.5	1.3	0.3	105	0.3	0.3	0.1	35	1.47	0.063	23
PM11-JF259	Soil	0.9	37.8	5.6	51	<0.1	32.0	11.6	545	2.02	4.0	1.0	0.8	41	0.1	0.2	<0.1	60	0.51	0.061	7
PM11-JF260	Soil	0.7	38.3	5.4	48	<0.1	30.9	11.8	547	2.00	4.0	1.9	0.7	45	0.1	0.2	<0.1	60	0.55	0.061	7
PM11-JF261	Soil	0.8	37.0	5.5	47	<0.1	29.6	11.2	521	1.90	4.3	1.5	0.7	47	0.1	0.2	<0.1	56	0.59	0.060	7
PM11-JF262	Soil	0.7	13.5	4.1	19	<0.1	13.2	5.1	120	1.38	2.2	<0.5	0.6	13	<0.1	<0.1	<0.1	37	0.16	0.091	2
PM11-JF263	Soil	0.7	15.5	4.0	20	<0.1	14.1	6.0	146	1.47	2.3	<0.5	0.7	13	<0.1	<0.1	<0.1	40	0.16	0.093	2
PM11-JF264	Soil	0.8	20.5	4.2	22	<0.1	18.8	6.6	138	1.58	3.1	<0.5	0.7	14	<0.1	0.1	<0.1	42	0.18	0.105	2
PM11-JF265	Soil	0.4	6.4	4.1	14	0.2	5.2	3.0	154	1.19	0.8	0.6	0.5	10	<0.1	<0.1	<0.1	30	0.13	0.067	2
PM11-JF266	Soil	0.5	19.4	3.5	29	0.4	21.4	7.1	106	1.73	2.5	<0.5	0.6	18	<0.1	0.1	<0.1	47	0.23	0.116	2
PM11-JF267	Soil	0.6	22.2	3.5	29	0.5	23.4	7.8	112	1.76	2.7	15.0	0.6	14	<0.1	0.1	<0.1	46	0.20	0.100	2
PM11-JF268	Soil	0.5	19.8	3.2	28	0.4	20.0	6.9	110	1.71	2.6	<0.5	0.6	16	<0.1	<0.1	<0.1	46	0.21	0.098	2
PM11-JF269	Soil	0.4	22.5	4.0	27	0.1	16.0	5.8	157	1.61	2.3	<0.5	0.8	18	<0.1	0.1	<0.1	44	0.18	0.093	3
PM11-JF270	Soil	0.5	29.0	3.6	27	<0.1	22.3	7.2	172	1.68	4.2	0.9	0.8	21	<0.1	0.2	<0.1	50	0.27	0.066	3

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Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
	Cr 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	
PM11-JF243	Soil	11	0.11	48	0.092	1	1.39	0.020	0.02	<0.1	0.03	1.0	<0.1	<0.05	6	<0.5	<0.2
PM11-JF243D	Soil	11	0.09	35	0.104	1	1.31	0.020	0.02	<0.1	0.02	0.9	<0.1	<0.05	7	<0.5	<0.2
PM11-JF244	Soil	24	0.13	45	0.124	2	3.81	0.014	0.03	0.2	0.10	1.7	<0.1	<0.05	8	<0.5	<0.2
PM11-JF245	Soil	47	0.40	111	0.127	2	1.87	0.025	0.03	<0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
PM11-JF246	Soil	31	0.63	144	0.135	2	1.76	0.034	0.09	<0.1	0.01	2.9	<0.1	<0.05	6	<0.5	<0.2
PM11-JF247	Soil	19	0.68	156	0.179	1	1.78	0.026	0.08	<0.1	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
PM11-JF248	Soil	14	0.28	65	0.110	1	1.59	0.033	0.08	<0.1	<0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11-JF249	Soil	29	0.43	108	0.101	1	1.55	0.030	0.04	<0.1	<0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-JF250	Soil	21	0.25	65	0.113	1	1.41	0.021	0.03	<0.1	0.01	1.7	<0.1	<0.05	7	<0.5	<0.2
PMS09	Rock Pulp	23	0.03	1104	0.010	2	0.17	0.007	0.07	2.5	3.04	0.6	11.1	0.12	<1	1.7	<0.2
PM11-JF251	Soil	15	0.34	93	0.110	<1	1.29	0.027	0.06	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JF252	Soil	22	0.43	87	0.137	1	1.74	0.018	0.05	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-JF253	Soil	17	0.65	98	0.169	1	2.00	0.019	0.05	<0.1	0.02	3.0	<0.1	<0.05	8	<0.5	<0.2
PM11-JF254	Soil	17	0.29	102	0.116	<1	1.62	0.035	0.05	<0.1	<0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11-JF255	Soil	24	0.51	123	0.134	2	1.58	0.021	0.06	<0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
PM11-JF256	Soil	30	0.68	139	0.161	2	2.21	0.024	0.15	<0.1	0.03	6.3	<0.1	<0.05	7	<0.5	<0.2
PM11-JF257	Soil	21	0.35	249	0.098	3	1.88	0.035	0.05	<0.1	0.05	2.5	<0.1	<0.05	6	0.6	<0.2
PM11-JF258	Soil	24	0.35	282	0.064	6	1.47	0.019	0.06	0.1	0.14	3.0	<0.1	0.08	4	0.8	<0.2
PM11-JF259	Soil	43	0.60	179	0.107	3	1.61	0.031	0.14	<0.1	0.05	3.6	<0.1	<0.05	5	<0.5	<0.2
PM11-JF260	Soil	43	0.62	178	0.104	3	1.63	0.029	0.13	<0.1	0.05	3.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JF261	Soil	41	0.58	181	0.104	3	1.58	0.029	0.13	<0.1	0.05	3.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JF262	Soil	21	0.22	54	0.091	1	1.39	0.024	0.03	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
PM11-JF263	Soil	24	0.25	57	0.094	1	1.59	0.024	0.02	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-JF264	Soil	29	0.29	65	0.102	1	1.87	0.026	0.03	<0.1	0.03	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11-JF265	Soil	10	0.10	47	0.088	<1	1.14	0.021	0.02	<0.1	0.03	0.7	<0.1	<0.05	5	<0.5	<0.2
PM11-JF266	Soil	25	0.28	45	0.087	2	1.96	0.024	0.03	<0.1	0.04	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JF267	Soil	27	0.30	48	0.092	1	1.89	0.025	0.03	0.1	0.03	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-JF268	Soil	25	0.28	47	0.091	2	1.86	0.026	0.02	<0.1	0.03	1.6	<0.1	<0.05	5	0.6	<0.2
PM11-JF269	Soil	24	0.30	82	0.089	1	1.61	0.024	0.04	<0.1	0.03	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11-JF270	Soil	34	0.40	95	0.089	1	1.61	0.027	0.05	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	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	
PM11-JF271	Soil		0.5	17.0	5.3	26	0.2	13.4	5.7	211	1.54	2.6	0.6	0.7	24	<0.1	0.1	41	0.23	0.117	3	
PM11-JF272	Soil		0.3	31.9	4.7	29	0.2	21.7	6.9	186	1.62	7.7	0.6	0.8	22	<0.1	0.2	<0.1	46	0.31	0.069	4
PM11-JF273	Soil		0.3	28.1	6.5	15	0.2	24.6	4.7	245	1.40	19.8	0.6	0.6	28	<0.1	0.1	39	0.39	0.043	2	
PM11-JF274	Soil		0.4	18.4	4.2	26	0.1	17.2	5.8	115	1.64	4.5	<0.5	0.7	12	<0.1	0.1	45	0.20	0.100	2	
PM11-JF275	Soil		0.5	23.1	3.1	25	0.1	17.5	6.4	158	1.71	4.6	1.1	0.4	13	<0.1	0.2	<0.1	53	0.25	0.039	2
PM11-JF276	Soil		0.3	12.4	4.7	20	0.1	13.4	4.8	74	1.39	2.6	<0.5	0.7	9	<0.1	<0.1	39	0.15	0.071	2	
PM11-JF277	Soil		0.6	27.8	4.4	37	0.1	27.4	9.1	156	1.93	3.9	<0.5	0.8	13	<0.1	0.1	52	0.17	0.066	2	
PM11-JF278	Soil		0.3	7.3	3.0	22	0.2	6.9	3.6	80	1.58	1.6	<0.5	0.6	10	<0.1	<0.1	<0.1	44	0.10	0.077	2
PM11-JF279	Soil		0.2	21.4	3.5	23	0.1	21.9	7.0	108	1.61	3.3	<0.5	0.9	11	<0.1	0.1	<0.1	46	0.14	0.048	3
PM11-JF280	Soil		0.3	14.9	2.3	20	<0.1	19.0	6.9	122	1.48	2.7	12.6	0.5	10	<0.1	<0.1	<0.1	44	0.17	0.030	2
PM11-JF281	Soil		0.3	21.5	3.6	22	0.1	24.8	7.4	132	1.53	2.7	0.6	0.6	10	<0.1	<0.1	42	0.16	0.035	2	
PM11-JF282	Soil		0.2	24.3	3.5	27	0.2	23.7	9.2	306	1.55	4.1	<0.5	0.5	11	<0.1	<0.1	43	0.17	0.055	2	
PM11-JF283	Soil		0.4	37.5	3.9	29	0.3	34.6	8.9	108	1.97	3.9	1.0	0.7	9	<0.1	<0.1	<0.1	54	0.13	0.068	2
PM11-JF284	Soil		0.3	51.9	4.5	31	0.3	36.0	9.2	132	2.02	4.6	0.6	0.9	12	<0.1	<0.1	54	0.16	0.060	2	
PM11-JF285	Soil		0.4	50.5	4.0	29	0.3	35.3	8.3	121	1.93	4.3	<0.5	0.9	12	<0.1	<0.1	<0.1	52	0.16	0.051	2
PM11-JF286	Soil		0.4	50.9	4.0	28	0.3	36.1	8.1	119	1.99	4.1	<0.5	0.9	12	<0.1	<0.1	<0.1	53	0.15	0.052	2
PM11-JF287	Soil		0.3	43.9	4.4	29	0.3	37.9	9.1	143	1.94	4.0	<0.5	0.7	13	<0.1	<0.1	<0.1	54	0.21	0.046	2
PM11-JF288	Soil		0.4	51.9	4.2	30	0.3	39.8	9.6	156	1.93	3.7	<0.5	0.9	15	<0.1	<0.1	<0.1	54	0.24	0.030	3
PM11-JF289	Soil		0.3	45.6	4.5	29	0.3	40.6	9.3	128	1.93	4.2	<0.5	0.8	11	<0.1	<0.1	<0.1	53	0.17	0.048	2
PM11-JF290	Soil		0.3	4.9	2.9	17	<0.1	5.3	3.0	97	1.15	1.0	<0.5	0.5	6	<0.1	<0.1	<0.1	33	0.06	0.108	1
PM11-JF291	Soil		0.3	5.6	3.0	18	<0.1	6.0	3.2	104	1.17	1.0	0.8	0.5	6	<0.1	<0.1	<0.1	32	0.06	0.103	2
PM11-JF292	Soil		0.4	7.6	3.0	20	<0.1	8.6	3.9	118	1.34	1.3	<0.5	0.6	7	<0.1	<0.1	<0.1	36	0.08	0.112	2
PM11-JF293	Soil		0.3	6.9	3.3	20	<0.1	8.2	3.6	99	1.34	1.2	0.7	0.6	7	<0.1	<0.1	<0.1	36	0.08	0.117	2
PM11-JF294	Soil		0.4	27.4	2.3	29	<0.1	27.1	9.2	163	1.92	2.8	<0.5	0.7	20	<0.1	0.2	<0.1	54	0.29	0.043	3
PM11-JF295	Soil		0.3	28.3	2.2	29	<0.1	28.0	9.1	163	1.96	3.0	<0.5	0.7	18	<0.1	0.2	<0.1	56	0.29	0.040	3
PM11-JF296	Soil		0.3	28.1	2.4	30	<0.1	28.8	9.3	157	1.92	3.0	2.0	0.7	19	<0.1	0.2	<0.1	52	0.31	0.052	3
PM11-JF297	Soil		0.3	26.6	2.7	30	<0.1	29.5	9.4	146	1.91	2.9	0.6	0.8	16	<0.1	0.2	<0.1	52	0.26	0.069	3
PM11-JF298	Soil		0.3	26.1	2.8	30	<0.1	28.9	9.4	150	1.95	2.9	<0.5	0.9	18	<0.1	0.2	<0.1	52	0.26	0.076	3
PM11-JF299	Soil		0.2	20.6	2.9	23	<0.1	24.0	7.3	122	1.69	1.7	<0.5	0.4	12	<0.1	<0.1	<0.1	44	0.27	0.015	2
PM11-JF300	Soil		0.2	14.2	3.8	21	<0.1	18.8	6.0	98	1.52	1.4	<0.5	0.4	11	<0.1	<0.1	<0.1	39	0.24	0.012	1

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Project: PLACER MTN.
 Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

VAN11003146.1

Method Analyte	Unit	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
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	
PM11-JF271	Soil	21	0.24	77	0.091	1	1.94	0.024	0.03	0.1	0.05	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11-JF272	Soil	28	0.33	94	0.098	2	1.89	0.026	0.04	<0.1	0.03	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11-JF273	Soil	19	0.16	142	0.093	1	2.10	0.021	0.04	<0.1	0.04	1.3	<0.1	<0.05	6	<0.5	<0.2
PM11-JF274	Soil	26	0.28	52	0.076	<1	1.60	0.015	0.04	<0.1	0.03	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-JF275	Soil	34	0.41	61	0.067	<1	1.25	0.017	0.04	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JF276	Soil	16	0.13	47	0.088	<1	1.72	0.014	0.03	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11-JF277	Soil	34	0.38	104	0.095	<1	2.40	0.016	0.03	<0.1	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
PM11-JF278	Soil	11	0.07	34	0.083	<1	1.43	0.017	0.01	<0.1	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11-JF279	Soil	31	0.29	65	0.086	<1	1.84	0.023	0.03	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
PM11-JF280	Soil	37	0.36	58	0.076	<1	1.18	0.021	0.03	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
PM11-JF281	Soil	31	0.27	48	0.084	<1	1.73	0.020	0.03	<0.1	0.03	1.8	<0.1	<0.05	5	<0.5	<0.2
PM11-JF282	Soil	36	0.31	50	0.080	<1	1.40	0.020	0.03	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-JF283	Soil	31	0.22	62	0.090	<1	2.19	0.019	0.03	<0.1	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
PM11-JF284	Soil	37	0.25	105	0.094	<1	2.47	0.020	0.04	<0.1	0.03	2.2	<0.1	<0.05	7	<0.5	<0.2
PM11-JF285	Soil	34	0.24	106	0.089	<1	2.29	0.019	0.04	<0.1	0.03	2.1	<0.1	<0.05	7	<0.5	<0.2
PM11-JF286	Soil	35	0.23	107	0.093	<1	2.41	0.019	0.04	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
PM11-JF287	Soil	41	0.33	112	0.092	<1	2.22	0.020	0.05	<0.1	0.03	2.1	<0.1	<0.05	7	<0.5	<0.2
PM11-JF288	Soil	48	0.43	133	0.092	<1	2.14	0.020	0.06	<0.1	0.03	2.5	<0.1	<0.05	6	<0.5	<0.2
PM11-JF289	Soil	39	0.30	97	0.094	<1	2.41	0.019	0.04	<0.1	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
PM11-JF290	Soil	11	0.07	29	0.067	<1	1.15	0.015	0.02	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11-JF291	Soil	12	0.08	33	0.067	<1	1.14	0.016	0.02	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11-JF292	Soil	14	0.12	42	0.072	<1	1.28	0.016	0.02	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JF293	Soil	15	0.11	36	0.072	<1	1.35	0.015	0.02	<0.1	0.03	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JF294	Soil	59	0.61	138	0.077	<1	1.42	0.022	0.05	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JF295	Soil	59	0.63	138	0.077	<1	1.44	0.022	0.06	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JF296	Soil	57	0.59	137	0.074	<1	1.59	0.022	0.05	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
PM11-JF297	Soil	55	0.57	127	0.077	<1	1.77	0.023	0.04	<0.1	0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
PM11-JF298	Soil	55	0.54	131	0.077	<1	1.74	0.021	0.05	<0.1	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
PM11-JF299	Soil	46	0.48	98	0.080	<1	1.54	0.027	0.04	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-JF300	Soil	33	0.36	91	0.076	<1	1.57	0.022	0.03	<0.1	0.01	1.5	<0.1	<0.05	5	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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
PMS10	Rock Pulp	114.3	3858	23.1	63	2.5	37.1	20.7	413	4.37	56.4	442.8	2.0	27	0.4	3.2	0.4	127	0.35	0.089	10
PM11-JF301	Soil	0.2	30.9	5.6	23	0.1	27.9	6.0	238	1.96	2.8	<0.5	1.2	24	<0.1	0.2	0.1	43	0.60	0.013	8
PM11-JF302	Soil	0.4	10.8	3.7	24	<0.1	13.6	4.8	108	1.46	2.1	<0.5	0.5	11	<0.1	<0.1	<0.1	41	0.20	0.101	2
PM11-JF303	Soil	0.4	14.9	3.3	23	<0.1	18.6	6.2	298	1.54	1.8	<0.5	0.5	16	<0.1	0.1	<0.1	47	0.26	0.053	2
PM11-JF304	Soil	0.2	18.9	4.9	22	<0.1	20.5	4.9	76	1.45	2.1	<0.5	0.4	15	<0.1	<0.1	<0.1	33	0.24	0.055	3
PM11-JF305	Soil	0.3	29.0	3.2	28	<0.1	27.8	9.0	203	2.03	2.9	<0.5	1.2	20	<0.1	0.2	<0.1	58	0.42	0.014	5
PM11-JF306	Soil	0.3	26.6	3.9	25	0.1	35.1	8.6	113	1.88	3.1	<0.5	0.6	14	<0.1	0.2	<0.1	47	0.24	0.023	3
PM11-JF307	Soil	0.1	31.9	3.7	25	0.1	30.3	6.6	192	1.91	2.6	<0.5	0.7	18	<0.1	0.2	<0.1	47	0.37	0.010	6
PM11-JF308	Soil	0.3	11.9	3.5	22	<0.1	12.6	4.1	69	1.01	1.0	2.0	0.5	13	<0.1	<0.1	<0.1	27	0.16	0.016	2
PM11-JF309	Soil	0.4	19.8	2.9	23	<0.1	21.2	7.6	153	1.45	2.6	2.7	0.5	20	<0.1	0.2	<0.1	39	0.22	0.030	3
PM11-JF310	Soil	0.5	27.9	2.8	31	<0.1	28.3	10.3	190	1.84	4.1	1.9	0.7	21	<0.1	0.2	<0.1	51	0.24	0.055	3
PM11-RP79D	Soil	0.4	13.8	5.1	46	<0.1	13.7	7.0	132	2.08	1.6	1.9	1.8	23	<0.1	<0.1	0.1	47	0.16	0.161	5
PM11-JF114D	Soil	0.3	13.0	3.8	20	<0.1	14.3	5.2	175	1.36	1.3	13.1	1.0	31	<0.1	<0.1	<0.1	38	0.30	0.017	6
PMS01	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
PMS02	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
PMS03	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



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 Report Date: August 05, 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	0.05	1	0.5	0.2	
PMS10	Rock Pulp	52	0.92	46	0.114	<1	1.32	0.033	0.90	4.7	0.08	10.0	0.5	1.99	5	7.0	0.8
PM11-JF301	Soil	36	0.37	164	0.096	2	2.36	0.032	0.05	<0.1	0.03	3.4	<0.1	<0.05	6	<0.5	<0.2
PM11-JF302	Soil	26	0.19	62	0.078	<1	1.49	0.017	0.03	<0.1	0.04	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-JF303	Soil	41	0.37	142	0.068	<1	1.14	0.021	0.04	<0.1	0.04	2.0	<0.1	<0.05	4	<0.5	<0.2
PM11-JF304	Soil	21	0.17	102	0.071	<1	1.77	0.015	0.04	<0.1	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2
PM11-JF305	Soil	61	0.62	102	0.092	<1	1.61	0.028	0.08	<0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
PM11-JF306	Soil	52	0.51	126	0.084	<1	1.89	0.023	0.05	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
PM11-JF307	Soil	44	0.40	124	0.080	<1	1.60	0.029	0.04	<0.1	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JF308	Soil	25	0.26	68	0.053	<1	0.82	0.014	0.03	<0.1	0.02	1.1	<0.1	<0.05	4	<0.5	<0.2
PM11-JF309	Soil	40	0.41	96	0.058	<1	1.11	0.017	0.05	<0.1	0.03	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JF310	Soil	56	0.53	116	0.068	1	1.41	0.019	0.06	<0.1	0.04	2.5	<0.1	<0.05	5	<0.5	<0.2
PM11-RP79D	Soil	18	0.29	157	0.090	2	2.15	0.014	0.06	<0.1	0.03	1.8	<0.1	<0.05	7	<0.5	<0.2
PM11-JF114D	Soil	24	0.31	128	0.086	<1	1.41	0.025	0.05	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PMS01	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
PMS02	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
PMS03	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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																					
PMS05	Rock Pulp	16.2	59.8	15.2	17	0.2	15.6	2.3	120	3.69	466.2	222.0	0.9	32	0.4	27.9	0.2	9	0.98	0.006	2
REP PMS05	QC	16.5	61.7	15.4	18	0.1	16.5	2.4	125	3.80	480.8	221.5	0.9	36	0.3	30.2	0.2	10	1.00	0.007	2
PM11-JF166	Soil	0.2	12.3	3.4	32	<0.1	11.4	4.5	199	1.46	<0.5	0.7	0.8	38	<0.1	<0.1	<0.1	38	0.26	0.021	5
REP PM11-JF166	QC	0.2	11.8	3.3	29	<0.1	10.6	4.3	198	1.46	<0.5	0.8	0.7	37	<0.1	<0.1	<0.1	36	0.25	0.021	5
PM11-JF176	Soil	0.1	27.4	1.8	20	<0.1	18.8	5.9	108	1.41	1.1	2.9	0.5	18	<0.1	<0.1	<0.1	41	0.21	0.014	2
REP PM11-JF176	QC	0.2	27.7	1.7	20	<0.1	18.2	5.6	100	1.35	0.8	1.9	0.8	18	<0.1	<0.1	<0.1	39	0.20	0.015	2
PM11-JF189	Soil	0.2	2.6	2.2	10	<0.1	2.2	0.8	30	0.38	<0.5	0.7	0.2	9	<0.1	<0.1	<0.1	12	0.08	0.009	1
REP PM11-JF189	QC	0.2	2.7	2.2	10	<0.1	2.0	0.8	29	0.38	<0.5	1.0	0.2	9	<0.1	<0.1	<0.1	12	0.08	0.009	1
PM11-JF219	Soil	0.2	8.7	5.3	29	<0.1	11.8	4.6	145	1.30	0.9	<0.5	0.5	26	0.1	<0.1	<0.1	30	0.25	0.024	3
REP PM11-JF219	QC	0.2	8.1	4.1	27	<0.1	11.1	4.3	134	1.23	0.6	<0.5	0.5	24	<0.1	<0.1	<0.1	27	0.23	0.022	2
PM11-JF225	Soil	0.4	15.6	3.7	36	<0.1	20.0	6.1	116	1.61	1.0	<0.5	0.7	27	<0.1	0.1	<0.1	40	0.23	0.046	4
REP PM11-JF225	QC	0.3	16.1	3.3	36	<0.1	20.1	5.9	115	1.59	1.1	<0.5	0.7	27	<0.1	<0.1	<0.1	41	0.22	0.048	4
PM11-JF247	Soil	0.3	16.9	3.5	44	<0.1	12.3	10.1	280	2.49	0.7	2.0	1.5	48	<0.1	<0.1	<0.1	71	0.53	0.079	9
REP PM11-JF247	QC	0.3	18.3	3.7	46	<0.1	12.6	9.9	308	2.52	<0.5	1.0	1.5	49	<0.1	<0.1	<0.1	72	0.55	0.080	9
PM11-JF273	Soil	0.3	28.1	6.5	15	0.2	24.6	4.7	245	1.40	19.8	0.6	0.6	28	<0.1	0.1	0.1	39	0.39	0.043	2
REP PM11-JF273	QC	0.4	27.8	6.4	16	0.2	24.8	4.6	247	1.42	20.1	0.6	0.6	29	0.1	0.1	0.1	41	0.39	0.045	2
PM11-JF281	Soil	0.3	21.5	3.6	22	0.1	24.8	7.4	132	1.53	2.7	0.6	0.6	10	<0.1	<0.1	0.1	42	0.16	0.035	2
REP PM11-JF281	QC	0.2	21.3	3.8	23	0.1	24.8	7.3	132	1.53	2.8	<0.5	0.6	10	<0.1	<0.1	0.1	42	0.16	0.033	2
PM11-JF305	Soil	0.3	29.0	3.2	28	<0.1	27.8	9.0	203	2.03	2.9	<0.5	1.2	20	<0.1	0.2	<0.1	58	0.42	0.014	5
REP PM11-JF305	QC	0.3	28.5	3.3	26	<0.1	26.7	9.0	206	2.01	2.7	<0.5	1.1	20	<0.1	0.2	<0.1	57	0.41	0.013	5
PM11-JF114D	Soil	0.3	13.0	3.8	20	<0.1	14.3	5.2	175	1.36	1.3	13.1	1.0	31	<0.1	<0.1	<0.1	38	0.30	0.017	6
REP PM11-JF114D	QC	0.2	13.0	3.7	20	<0.1	14.0	5.0	169	1.32	1.2	2.9	1.1	30	<0.1	<0.1	<0.1	38	0.29	0.017	6
Reference Materials																					
STD DS8	Standard	13.7	109.9	118.8	299	1.7	37.9	7.4	608	2.39	26.9	107.8	6.8	67	2.0	5.9	6.4	44	0.66	0.079	14
STD DS8	Standard	14.5	114.2	125.6	315	1.8	39.4	8.3	636	2.55	27.9	115.1	7.1	69	2.2	6.4	6.7	46	0.71	0.082	16
STD DS8	Standard	12.9	108.3	115.6	306	1.8	37.0	7.3	632	2.46	26.7	114.8	6.5	71	2.5	5.7	6.7	42	0.69	0.084	15
STD DS8	Standard	13.6	113.4	119.7	313	1.8	36.9	7.6	618	2.46	26.5	116.6	7.0	73	2.2	6.0	6.8	42	0.70	0.081	15
STD DS8	Standard	13.7	109.1	119.5	307	1.8	36.8	7.5	630	2.45	27.0	102.4	6.8	71	2.2	6.0	6.8	42	0.69	0.083	16



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QUALITY CONTROL REPORT

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Method	Analyte	1DX15 Cr	1DX15 Mg	1DX15 Ba	1DX15 Ti	1DX15 B	1DX15 Al	1DX15 Na	1DX15 K	1DX15 W	1DX15 Hg	1DX15 Sc	1DX15 Tl	1DX15 S	1DX15 Ga	1DX15 Se	1DX15 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																	
PMS05	Rock Pulp	22	0.03	891	0.009	<1	0.16	0.007	0.06	2.5	2.95	0.6	10.7	0.13	<1	1.0	<0.2
REP PMS05	QC	22	0.03	1171	0.011	2	0.18	0.007	0.07	2.5	3.08	0.5	10.8	0.15	<1	2.0	<0.2
PM11-JF166	Soil	24	0.45	98	0.095	<1	1.48	0.030	0.04	<0.1	<0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
REP PM11-JF166	QC	24	0.44	94	0.093	<1	1.54	0.030	0.04	<0.1	0.01	1.9	<0.1	<0.05	5	0.5	<0.2
PM11-JF176	Soil	35	0.49	60	0.095	<1	1.07	0.021	0.05	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
REP PM11-JF176	QC	34	0.48	58	0.089	<1	1.02	0.019	0.05	<0.1	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
PM11-JF189	Soil	4	0.04	25	0.039	<1	0.23	0.015	0.02	<0.1	<0.01	0.4	<0.1	<0.05	2	<0.5	<0.2
REP PM11-JF189	QC	4	0.04	24	0.038	<1	0.24	0.014	0.02	<0.1	0.02	0.4	<0.1	<0.05	3	<0.5	<0.2
PM11-JF219	Soil	19	0.22	113	0.076	1	1.30	0.021	0.04	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
REP PM11-JF219	QC	18	0.20	108	0.070	<1	1.20	0.019	0.04	<0.1	<0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11-JF225	Soil	32	0.36	209	0.080	<1	1.46	0.022	0.06	<0.1	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
REP PM11-JF225	QC	32	0.36	209	0.082	<1	1.45	0.024	0.06	<0.1	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-JF247	Soil	19	0.68	156	0.179	1	1.78	0.026	0.08	<0.1	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
REP PM11-JF247	QC	19	0.69	158	0.193	2	1.83	0.023	0.08	<0.1	0.03	2.4	<0.1	<0.05	7	<0.5	<0.2
PM11-JF273	Soil	19	0.16	142	0.093	1	2.10	0.021	0.04	<0.1	0.04	1.3	<0.1	<0.05	6	<0.5	<0.2
REP PM11-JF273	QC	20	0.17	141	0.097	2	2.18	0.023	0.04	<0.1	0.03	1.4	<0.1	<0.05	7	<0.5	<0.2
PM11-JF281	Soil	31	0.27	48	0.084	<1	1.73	0.020	0.03	<0.1	0.03	1.8	<0.1	<0.05	5	<0.5	<0.2
REP PM11-JF281	QC	32	0.27	49	0.084	<1	1.72	0.021	0.03	<0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-JF305	Soil	61	0.62	102	0.092	<1	1.61	0.028	0.08	<0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
REP PM11-JF305	QC	60	0.61	102	0.091	<1	1.57	0.027	0.08	<0.1	0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
PM11-JF114D	Soil	24	0.31	128	0.086	<1	1.41	0.025	0.05	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
REP PM11-JF114D	QC	23	0.30	125	0.084	<1	1.40	0.026	0.05	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	120	0.59	264	0.129	2	0.87	0.082	0.39	2.9	0.19	2.1	5.1	0.18	5	4.7	4.8
STD DS8	Standard	124	0.63	288	0.137	2	0.93	0.088	0.42	3.0	0.19	2.3	5.4	0.19	5	5.3	5.0
STD DS8	Standard	117	0.61	280	0.124	3	0.92	0.094	0.41	2.8	0.20	2.1	5.1	0.14	5	5.2	5.3
STD DS8	Standard	118	0.62	286	0.134	4	0.92	0.097	0.42	3.0	0.20	2.4	5.3	0.13	5	5.0	5.4
STD DS8	Standard	116	0.62	285	0.126	2	0.90	0.091	0.42	2.9	0.19	2.2	5.3	0.16	5	5.3	5.2

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.



Acme Analytical Laboratories (Vancouver) Ltd.

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

Project: PLACER MTN.
 Report Date: August 05, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

VAN11003146.1

		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	13.3	101.9	117.1	292	1.7	36.1	7.4	575	2.34	24.5	106.5	6.4	63	2.4	5.1	5.8	40	0.68	0.074	15
STD DS8	Standard	13.4	107.9	121.0	302	1.7	37.3	7.6	608	2.42	25.0	113.2	6.6	65	2.3	5.3	6.1	42	0.70	0.074	16
STD DS8	Standard	12.9	113.0	120.8	312	1.8	38.3	7.7	606	2.44	27.2	121.9	6.4	62	2.4	5.2	6.4	42	0.70	0.077	14
STD DS8	Standard	12.3	110.6	120.5	301	1.6	38.0	7.6	597	2.41	25.9	108.2	6.3	60	2.3	5.1	6.3	42	0.67	0.074	13
STD DS8	Standard	13.2	108.1	113.1	319	1.9	35.5	7.3	613	2.51	27.4	122.3	8.1	76	2.4	6.4	7.7	41	0.71	0.081	15
STD DS8	Standard	12.9	105.2	114.2	318	1.9	35.8	7.4	608	2.49	27.8	117.0	7.7	79	2.2	6.3	7.7	41	0.71	0.080	15
STD DS8	Standard	13.6	108.5	120.3	318	1.7	37.2	7.5	620	2.49	27.5	118.5	6.6	70	2.3	5.7	6.8	42	0.68	0.078	15
STD DS8	Standard	12.7	108.4	116.0	315	1.7	36.9	7.3	610	2.46	27.2	141.8	6.5	69	2.3	5.4	6.5	41	0.71	0.078	14
STD DS8	Standard	13.2	109.3	115.5	313	1.8	37.3	7.3	590	2.40	26.2	107.3	6.4	67	2.2	5.8	6.5	41	0.67	0.079	14
STD DS8	Standard	13.1	112.4	125.7	314	1.8	40.8	7.8	609	2.47	26.9	108.1	6.3	62	2.3	5.5	6.5	43	0.69	0.080	14
STD DS8	Standard	12.7	108.1	122.5	309	1.7	37.5	7.7	608	2.46	25.4	109.9	6.2	60	2.2	5.6	6.5	42	0.65	0.078	13
STD DS8	Standard	14.2	114.9	121.9	317	1.9	39.8	7.9	624	2.54	27.0	112.4	6.9	59	2.4	4.9	5.5	45	0.70	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	<0.01	<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: PLACER MTN.
 Report Date: August 05, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

VAN11003146.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	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	111	0.60	257	0.113	2	0.95	0.102	0.40	2.7	0.20	2.7	5.0	0.14	5	5.5	5.1
STD DS8	Standard	117	0.60	262	0.118	2	0.93	0.090	0.43	2.9	0.20	2.8	5.3	0.14	5	5.4	4.8
STD DS8	Standard	116	0.61	269	0.114	2	0.92	0.085	0.41	3.0	0.20	2.0	5.3	0.17	5	5.0	5.0
STD DS8	Standard	115	0.59	262	0.111	2	0.87	0.082	0.39	2.8	0.19	2.0	5.2	0.16	5	5.4	4.9
STD DS8	Standard	115	0.64	293	0.128	3	0.92	0.095	0.43	3.1	0.22	2.1	5.5	0.14	5	5.4	5.6
STD DS8	Standard	115	0.63	290	0.126	2	0.92	0.090	0.43	3.0	0.23	2.1	5.5	0.16	5	4.9	5.4
STD DS8	Standard	116	0.61	280	0.125	2	0.91	0.087	0.41	3.1	0.21	2.2	5.5	0.16	5	5.2	4.8
STD DS8	Standard	113	0.60	276	0.124	2	0.88	0.087	0.42	3.0	0.21	2.2	5.5	0.17	5	5.2	5.5
STD DS8	Standard	112	0.59	275	0.122	3	0.87	0.084	0.41	2.9	0.20	2.1	5.3	0.13	5	6.3	4.9
STD DS8	Standard	117	0.61	282	0.115	2	0.89	0.079	0.41	3.1	0.20	2.2	5.5	0.14	5	5.7	5.4
STD DS8	Standard	116	0.59	278	0.112	2	0.87	0.079	0.40	3.0	0.23	2.0	5.4	0.13	5	5.2	5.0
STD DS8	Standard	122	0.63	285	0.116	3	0.97	0.091	0.44	3.0	0.18	2.4	5.3	0.14	5	5.3	4.2
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
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: July 13, 2011

Report Date: July 28, 2011

Page: 1 of 3

CERTIFICATE OF ANALYSIS

VAN11003147.1

CLIENT JOB INFORMATION

Project: PLACER MTN.
Shipment ID: Shipment #2
P.O. Number
Number of Samples: 40

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	36	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX2	36	1:1:1 Aqua Regia digestion ICP-MS analysis	15	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
Bill 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: PLACER MTN.
 Report Date: July 28, 2011

Page: 2 of 3 Part 1

CERTIFICATE OF ANALYSIS

VAN11003147.1

Method	Analyte	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit	MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		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	2	0.01	0.001	
PM11-GWR14	Rock	0.75	<0.1	0.9	<0.1	<1	<0.1	0.8	0.1	29	0.22	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
PM11-GWR15	Rock	2.03	0.2	2.7	<0.1	6	<0.1	2.8	0.9	71	0.49	0.7	0.8	<0.1	3	<0.1	0.1	<0.1	4	0.01	0.001
PM11-GWR16	Rock	2.27	<0.1	1.5	<0.1	1	<0.1	0.6	0.2	40	0.28	<0.5	<0.5	<0.1	2	<0.1	<0.1	<0.1	<2	<0.01	<0.001
PM11-GWR17	Rock	1.95	0.1	1.3	<0.1	<1	<0.1	0.7	0.3	58	0.41	<0.5	0.8	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
PM11-GWR18	Rock	1.49	<0.1	1.7	0.4	4	<0.1	2.3	0.5	124	0.37	1.0	<0.5	4.6	4	<0.1	<0.1	<0.1	3	0.02	0.002
PM11-GWR19	Rock	1.47	0.1	1.7	<0.1	1	<0.1	1.6	0.4	49	0.45	<0.5	1.7	0.2	2	<0.1	<0.1	<0.1	3	0.01	0.004
PM11-GWR20	Rock	1.30	<0.1	0.7	<0.1	<1	<0.1	0.6	0.2	30	0.25	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
PM11-GWR21	Rock	1.21	0.4	3.8	2.0	23	<0.1	10.7	1.3	183	0.28	1.0	0.6	1.5	56	0.1	<0.1	<0.1	10	4.07	0.054
PM11-GWR22	Rock	1.15	0.4	40.5	5.7	84	<0.1	214.0	28.6	1170	3.14	1.8	0.6	5.4	207	<0.1	<0.1	0.4	79	2.07	0.238
PM11-GWR23	Rock	1.65	0.2	5.0	0.4	4	<0.1	2.2	0.8	80	0.54	0.5	<0.5	<0.1	2	<0.1	<0.1	<0.1	5	0.04	0.005
PM11-GWR24	Rock	1.91	1.4	8.3	5.1	10	4.7	7.0	1.8	78	0.42	16.5	1123	0.2	9	<0.1	1.7	<0.1	6	0.06	0.008
PM11-GWR25	Rock	1.24	0.5	54.3	1.5	110	0.1	47.6	17.7	455	4.54	2.5	3.9	3.0	12	<0.1	0.1	<0.1	71	0.25	0.086
PM11-GWR26	Rock	1.37	0.5	8.5	1.9	14	<0.1	7.6	2.4	176	0.69	1.2	2.4	0.2	3	<0.1	<0.1	<0.1	7	0.04	0.016
PM11-GWR27	Rock	1.46	0.4	20.7	1.9	43	0.1	19.6	6.0	329	1.91	1.1	0.5	1.2	8	<0.1	0.1	<0.1	26	0.18	0.073
PM11-GWR28	Rock	1.62	0.4	23.6	3.1	83	0.1	23.0	6.2	292	1.98	1.1	1.4	1.2	16	0.4	0.2	<0.1	29	0.22	0.073
PM11-GWR29	Rock	1.06	0.4	41.6	14.2	132	0.2	59.9	16.1	482	3.76	1.5	2.2	2.4	13	0.5	0.2	<0.1	68	0.20	0.065
PM11-GWR30	Rock	1.19	0.3	18.2	7.4	59	0.1	22.7	6.2	263	1.59	1.4	0.9	0.9	6	0.1	<0.1	<0.1	18	0.09	0.024
PM11-GWR31	Rock	1.98	0.7	32.6	6.9	91	0.1	32.0	10.6	545	2.96	2.0	1.4	1.7	43	0.2	0.1	<0.1	35	1.22	0.046
PM11-GWR32	Rock	1.67	0.5	26.3	17.6	105	0.3	33.9	10.1	506	2.42	4.9	1.2	1.4	9	0.6	0.2	<0.1	33	0.16	0.042
PM11-GWR33	Rock	1.39	0.5	36.8	12.4	88	0.4	39.5	14.5	609	3.56	6.9	1.4	1.9	11	0.2	0.2	0.2	33	0.26	0.035
PM11-GWR34	Rock	1.62	0.2	5.3	1.6	11	<0.1	4.3	1.2	119	0.53	1.2	0.8	0.1	2	<0.1	<0.1	<0.1	3	0.05	0.015
PM11-GWR35	Rock	1.49	0.3	12.8	1.4	25	<0.1	10.0	3.0	283	1.38	0.6	3.5	0.5	4	<0.1	<0.1	<0.1	13	0.11	0.035
PM11-GWR36	Rock	2.44	0.3	12.4	2.0	18	0.1	8.8	2.4	298	0.97	0.7	3.9	0.4	5	<0.1	<0.1	<0.1	10	0.11	0.028
PM11-GWR37	Rock	2.10	0.3	9.4	1.6	21	<0.1	3.7	1.0	141	0.68	0.7	1.1	0.1	2	<0.1	0.7	0.1	4	0.03	0.002
PM11-GWR38	Rock	1.98	0.6	14.5	<0.1	8	<0.1	4.8	2.0	117	0.72	1.3	<0.5	0.1	2	<0.1	<0.1	<0.1	11	0.03	0.005
PM11-GWR39	Rock	2.14	0.3	7.5	<0.1	2	<0.1	2.6	1.0	97	0.62	0.7	0.9	<0.1	1	<0.1	<0.1	<0.1	3	0.02	0.001
PM11-GWR40	Rock	2.36	0.1	2.4	<0.1	2	<0.1	1.3	0.5	281	0.35	0.8	<0.5	<0.1	38	<0.1	<0.1	<0.1	<2	1.98	<0.001
PM11-GWR41	Rock	1.65	0.4	5.9	<0.1	6	<0.1	2.5	1.1	104	0.67	1.0	<0.5	<0.1	<1	<0.1	0.1	<0.1	4	0.02	0.002
PM11-GWR42	Rock	2.32	0.3	5.9	<0.1	2	<0.1	1.9	0.7	57	0.41	1.0	<0.5	<0.1	1	<0.1	<0.1	<0.1	2	0.02	<0.001
PM11-GWR43	Rock	2.41	0.2	8.3	<0.1	10	<0.1	2.6	1.0	77	0.47	1.1	1.6	<0.1	1	<0.1	0.4	0.2	4	0.04	0.005

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Project: PLACER MTN.
 Report Date: July 28, 2011

Page: 2 of 3 Part 2

CERTIFICATE OF ANALYSIS

VAN11003147.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	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	
PM11-GWR14	Rock	<1	3	<0.01	6	0.001	1	0.02	0.005	<0.01	<0.1	<0.01	<0.1	<0.05	<1	<0.5	<0.2	
PM11-GWR15	Rock	<1	3	0.04	5	0.001	3	0.07	0.006	0.02	<0.1	<0.01	<0.1	<0.05	<1	0.9	<0.2	
PM11-GWR16	Rock	<1	2	<0.01	2	<0.001	2	<0.01	0.005	<0.01	<0.1	<0.01	<0.1	<0.05	<1	<0.5	<0.2	
PM11-GWR17	Rock	<1	3	<0.01	2	<0.001	2	<0.01	0.003	<0.01	<0.1	<0.01	<0.1	<0.05	<1	<0.5	<0.2	
PM11-GWR18	Rock	4	4	0.02	30	0.002	<1	0.10	0.025	0.05	<0.1	<0.01	0.1	<0.05	<1	<0.5	<0.2	
PM11-GWR19	Rock	<1	6	0.01	8	<0.001	<1	0.05	0.005	0.02	<0.1	<0.01	<0.1	<0.05	<1	<0.5	<0.2	
PM11-GWR20	Rock	<1	3	<0.01	2	<0.001	<1	0.01	0.002	<0.01	<0.1	<0.01	<0.1	<0.05	<1	<0.5	<0.2	
PM11-GWR21	Rock	7	5	0.11	32	0.047	1	0.38	0.020	0.02	0.2	<0.01	0.6	<0.05	1	<0.5	<0.2	
PM11-GWR22	Rock	63	190	0.76	210	0.078	<1	0.73	0.076	0.16	<0.1	<0.01	7.5	0.2	<0.05	3	<0.5	<0.2
PM11-GWR23	Rock	<1	6	0.02	6	0.009	1	0.05	0.004	<0.01	<0.1	<0.01	0.1	<0.05	<1	<0.5	<0.2	
PM11-GWR24	Rock	1	7	0.02	24	0.006	<1	0.09	0.006	0.01	<0.1	0.01	0.3	<0.05	<1	<0.5	1.3	
PM11-GWR25	Rock	19	52	1.53	105	0.030	3	2.09	0.013	0.32	<0.1	0.02	4.1	0.1	<0.05	6	0.8	0.2
PM11-GWR26	Rock	2	5	0.06	21	0.004	1	0.12	0.004	0.04	<0.1	<0.01	0.4	<0.05	<1	<0.5	<0.2	
PM11-GWR27	Rock	6	30	0.50	60	0.012	2	0.70	0.011	0.15	<0.1	<0.01	1.5	<0.05	2	0.6	<0.2	
PM11-GWR28	Rock	9	15	0.38	97	0.010	2	0.75	0.037	0.25	<0.1	<0.01	1.6	<0.05	3	<0.5	<0.2	
PM11-GWR29	Rock	12	86	0.89	73	0.020	3	1.25	0.017	0.29	<0.1	0.01	4.9	0.1	<0.05	5	<0.5	<0.2
PM11-GWR30	Rock	6	28	0.39	41	0.003	<1	0.54	0.007	0.09	<0.1	0.01	1.2	<0.05	2	1.5	<0.2	
PM11-GWR31	Rock	8	31	1.00	66	0.007	1	1.19	0.008	0.16	<0.1	<0.01	2.5	<0.05	3	0.6	<0.2	
PM11-GWR32	Rock	8	21	0.53	62	0.012	2	0.78	0.007	0.17	<0.1	0.02	2.1	<0.05	3	<0.5	<0.2	
PM11-GWR33	Rock	10	26	0.80	70	0.009	2	1.05	0.009	0.15	<0.1	0.04	2.4	<0.05	3	1.3	<0.2	
PM11-GWR34	Rock	1	4	0.04	8	<0.001	1	0.07	0.005	0.01	<0.1	<0.01	0.3	<0.05	<1	<0.5	<0.2	
PM11-GWR35	Rock	3	11	0.37	35	0.008	<1	0.53	0.008	0.09	<0.1	<0.01	0.7	<0.05	2	0.6	<0.2	
PM11-GWR36	Rock	3	9	0.30	30	0.005	1	0.42	0.003	0.05	<0.1	<0.01	0.6	<0.05	1	<0.5	<0.2	
PM11-GWR37	Rock	1	7	0.07	15	0.002	<1	0.11	0.004	0.02	<0.1	<0.01	0.2	<0.05	<1	<0.5	<0.2	
PM11-GWR38	Rock	<1	9	0.12	16	0.003	<1	0.17	0.011	0.01	<0.1	<0.01	0.4	<0.05	<1	<0.5	<0.2	
PM11-GWR39	Rock	<1	6	0.02	5	<0.001	<1	0.04	0.008	<0.01	<0.1	<0.01	0.1	<0.05	<1	1.2	<0.2	
PM11-GWR40	Rock	<1	4	0.02	5	<0.001	<1	0.02	0.005	<0.01	<0.1	<0.01	0.3	<0.05	<1	<0.5	<0.2	
PM11-GWR41	Rock	<1	7	0.07	6	<0.001	1	0.09	0.007	<0.01	<0.1	<0.01	0.2	<0.05	<1	0.5	<0.2	
PM11-GWR42	Rock	<1	4	<0.01	9	<0.001	<1	0.02	0.008	<0.01	<0.1	<0.01	<0.1	<0.05	<1	<0.5	<0.2	
PM11-GWR43	Rock	<1	6	0.04	9	0.001	<1	0.07	0.009	<0.01	<0.1	<0.01	0.2	<0.05	<1	<0.5	<0.2	



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CERTIFICATE OF ANALYSIS

VAN11003147.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
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	
PM11-GWR44	Rock	2.50	0.2	4.8	1.4	5	<0.1	1.9	0.9	605	0.64	<0.5	<0.5	<0.1	95	0.2	0.1	<0.1	4	4.66	0.017
PM11-GWR45	Rock	2.28	0.4	6.2	1.0	3	<0.1	2.0	1.0	89	0.44	<0.5	<0.5	<0.1	1	<0.1	<0.1	<0.1	4	0.02	0.005
PM11-GWR46	Rock	2.14	0.2	4.3	0.3	4	<0.1	1.2	0.7	104	0.49	3.8	<0.5	<0.1	2	<0.1	<0.1	<0.1	5	0.04	0.002
PM11-GWR47	Rock	1.39	0.2	4.9	0.5	3	<0.1	1.7	0.7	70	0.37	4.0	<0.5	<0.1	1	<0.1	<0.1	<0.1	<2	0.03	0.002
PM11-GWR48	Rock	2.12	0.3	4.4	0.3	3	<0.1	1.2	0.8	80	0.59	2.0	1.0	<0.1	<1	<0.1	<0.1	<0.1	2	0.01	0.002
PM11-GWR49	Rock	2.07	0.3	6.9	0.3	8	<0.1	2.1	1.1	74	0.57	1.5	<0.5	<0.1	1	<0.1	<0.1	<0.1	9	0.02	0.003
14808	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
14809	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
14810	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
14811	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



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CERTIFICATE OF ANALYSIS

VAN11003147.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.05	1	0.5	0.2	
PM11-GWR44	Rock	<1	4	0.10	8	<0.001	<1	0.09	0.006	<0.01	<0.1	<0.01	0.9	<0.1	<0.05	<1	<0.5	<0.2
PM11-GWR45	Rock	<1	6	0.03	12	0.002	<1	0.06	0.009	<0.01	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
PM11-GWR46	Rock	<1	5	0.06	<1	<0.001	1	0.08	0.006	<0.01	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
PM11-GWR47	Rock	<1	5	0.01	1	<0.001	1	0.03	0.006	<0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
PM11-GWR48	Rock	<1	5	0.02	4	<0.001	<1	0.03	0.005	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
PM11-GWR49	Rock	<1	6	0.12	10	0.001	<1	0.16	0.008	<0.01	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
14808	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
14809	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
14810	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
14811	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



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QUALITY CONTROL REPORT

VAN11003147.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
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	
Core Reject Duplicates																					
PM11-GWR42	Rock	2.32	0.3	5.9	<0.1	2	<0.1	1.9	0.7	57	0.41	1.0	<0.5	<0.1	1	<0.1	<0.1	<0.1	2	0.02	<0.001
DUP PM11-GWR42	QC		0.3	7.2	<0.1	3	<0.1	2.2	0.9	67	0.50	0.9	0.8	<0.1	1	<0.1	<0.1	<0.1	2	0.01	<0.001
Reference Materials																					
STD DS8	Standard		11.9	101.9	121.1	300	1.7	38.4	7.4	598	2.44	25.7	114.9	6.4	64	2.3	5.3	6.7	41	0.66	0.082
STD DS8	Standard		12.8	100.0	119.5	290	1.7	35.0	7.0	577	2.33	23.9	92.4	6.4	62	2.0	5.0	5.9	39	0.65	0.076
STD DS8	Standard		12.3	110.9	120.7	311	1.7	39.6	7.4	620	2.53	25.5	98.5	6.6	67	2.1	5.6	6.8	41	0.66	0.073
STD DS8	Standard		12.5	111.7	122.4	313	1.8	37.8	7.7	621	2.54	24.9	104.9	6.6	67	2.3	5.5	6.9	41	0.67	0.077
STD DS8	Standard		12.2	109.6	120.2	304	1.7	36.6	7.5	595	2.35	28.5	105.1	6.1	60	2.2	5.7	6.0	41	0.65	0.083
STD DS8	Standard		12.8	109.9	119.2	296	1.7	37.6	7.9	595	2.37	29.1	99.3	6.6	64	2.2	5.3	6.0	41	0.68	0.079
STD DS8	Standard		11.6	97.8	111.6	282	1.6	34.6	6.7	542	2.19	24.0	104.3	5.7	55	2.5	5.0	5.4	35	0.59	0.070
STD DS8	Standard		12.2	102.8	107.8	285	1.7	36.7	7.1	549	2.27	25.6	104.9	5.6	56	2.0	4.9	5.6	37	0.61	0.073
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
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
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	2.0	1.7	44	<0.1	2.5	3.9	522	1.76	<0.5	<0.5	4.7	53	<0.1	<0.1	<0.1	34	0.41	0.068
G1	Prep Blank	<0.01	0.1	2.2	2.0	44	<0.1	3.2	4.2	561	1.95	<0.5	<0.5	5.3	56	<0.1	<0.1	<0.1	36	0.41	0.073



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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	
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	0.05	1	0.5	0.2	
Core Reject Duplicates																		
PM11-GWR42	Rock	<1	4	<0.01	9	<0.001	<1	0.02	0.008	<0.01	<0.1	<0.01	<0.1	<0.05	<1	<0.5	<0.2	
DUP PM11-GWR42	QC	<1	5	0.01	11	<0.001	<1	0.03	0.008	<0.01	<0.1	<0.01	0.1	<0.05	<1	<0.5	<0.2	
Reference Materials																		
STD DS8	Standard	13	116	0.59	264	0.110	4	0.85	0.080	0.42	2.9	0.19	1.7	5.2	0.16	4	4.6	4.8
STD DS8	Standard	13	107	0.56	258	0.107	2	0.84	0.078	0.39	2.7	0.21	1.5	5.0	0.15	4	5.1	3.4
STD DS8	Standard	13	117	0.61	267	0.118	2	0.90	0.082	0.39	3.0	0.21	2.2	5.2	0.16	5	5.3	5.1
STD DS8	Standard	13	116	0.61	264	0.117	2	0.90	0.083	0.40	3.0	0.20	2.2	5.2	0.16	5	5.5	4.1
STD DS8	Standard	13	111	0.58	251	0.117	3	0.86	0.076	0.38	2.9	0.18	1.9	5.2	0.15	4	4.7	4.3
STD DS8	Standard	13	116	0.60	266	0.125	2	0.89	0.079	0.39	3.0	0.18	1.8	5.1	0.15	4	5.7	4.6
STD DS8	Standard	11	107	0.53	242	0.101	1	0.77	0.072	0.37	2.9	0.19	1.6	4.9	0.14	4	5.2	4.6
STD DS8	Standard	11	110	0.55	241	0.103	1	0.79	0.074	0.37	2.9	0.16	1.5	4.7	0.15	4	4.6	4.6
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	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<1	<0.5	<0.2	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.05	<1	<0.5	<0.2	
Prep Wash																		
G1	Prep Blank	9	6	0.50	189	0.115	2	0.85	0.074	0.45	<0.1	<0.01	1.4	0.3	<0.05	5	<0.5	<0.2
G1	Prep Blank	10	6	0.53	197	0.113	1	0.87	0.067	0.47	<0.1	<0.01	1.6	0.3	<0.05	5	<0.5	<0.2



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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: July 18, 2011
Report Date: August 03, 2011
Page: 1 of 8

CERTIFICATE OF ANALYSIS

VAN11003257.1

CLIENT JOB INFORMATION

Project: PLACER MTN.
Shipment ID: Shipment #3
P.O. Number
Number of Samples: 185

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
Bill 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 (185), SS80 (183), 1DX2 (185) with 1:1:1 Aqua Regia digestion ICP-MS analysis (15g test weight, Completed status).

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: PLACER MTN.
 Report Date: August 03, 2011

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CERTIFICATE OF ANALYSIS

VAN11003257.1

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	
PM11RP261	Soil		0.5	11.5	4.4	24	<0.1	17.2	5.7	86	1.59	1.9	1.7	1.1	11	<0.1	<0.1	<0.1	40	0.11	0.124	2
PM11RP262	Soil		0.6	11.7	4.6	23	<0.1	9.8	4.4	87	1.70	2.5	0.8	0.9	7	<0.1	<0.1	<0.1	46	0.08	0.111	1
PM11RP263	Soil		0.3	16.8	4.1	27	<0.1	14.9	4.8	72	1.60	1.8	0.6	1.4	11	<0.1	<0.1	<0.1	44	0.12	0.149	4
PM11RP264	Soil		0.6	10.5	5.1	22	<0.1	14.3	4.6	80	2.08	3.0	0.8	1.9	18	<0.1	<0.1	0.1	55	0.13	0.216	3
PM11RP265	Soil		0.4	15.1	4.0	43	<0.1	27.3	7.3	102	1.69	2.2	<0.5	1.2	11	<0.1	<0.1	<0.1	44	0.12	0.128	4
PM11RP265D	Soil		0.4	13.9	4.2	44	<0.1	25.8	7.5	107	1.72	2.3	<0.5	1.1	11	<0.1	<0.1	<0.1	45	0.13	0.127	3
PM11RP266	Soil		0.7	17.9	3.7	31	<0.1	11.3	7.8	131	2.54	2.2	1.3	2.1	15	<0.1	0.1	<0.1	75	0.16	0.120	3
PM11RP267	Soil		0.5	11.5	3.9	23	<0.1	11.9	5.7	78	2.56	2.6	0.9	2.1	16	<0.1	0.1	<0.1	72	0.15	0.175	5
PM11RP268	Soil		0.4	13.4	4.0	37	<0.1	12.7	6.6	115	1.92	1.4	1.2	2.2	25	<0.1	<0.1	<0.1	56	0.21	0.070	5
PM11RP269	Soil		0.5	16.7	5.3	37	<0.1	16.7	9.3	454	2.36	1.5	1.7	2.1	64	0.1	<0.1	<0.1	69	0.44	0.058	11
PM11RP270	Soil		0.3	15.7	3.5	38	<0.1	13.1	8.3	259	2.27	1.2	1.2	2.7	33	<0.1	<0.1	<0.1	71	0.36	0.065	7
PM11RP271	Soil		0.4	15.8	3.4	41	<0.1	16.3	6.7	185	2.28	1.1	1.2	1.4	37	<0.1	<0.1	<0.1	66	0.31	0.044	6
PM11RP272	Soil		0.2	8.3	4.8	27	<0.1	8.6	3.8	122	1.31	0.7	1.2	1.0	31	<0.1	<0.1	<0.1	36	0.23	0.021	4
PM11RP273	Soil		0.2	9.8	6.5	30	<0.1	11.1	3.8	128	1.45	0.8	<0.5	1.1	33	<0.1	<0.1	<0.1	36	0.22	0.026	4
PM11RP274	Soil		0.2	7.2	5.0	31	<0.1	7.9	4.7	137	1.46	<0.5	<0.5	1.2	34	<0.1	<0.1	<0.1	40	0.23	0.023	4
PM11RP275	Soil		0.2	8.2	3.8	27	<0.1	9.3	3.9	107	1.40	<0.5	<0.5	0.8	27	<0.1	<0.1	<0.1	39	0.23	0.018	3
PM11RP276	Soil		0.4	18.7	3.8	44	<0.1	17.8	6.9	173	2.36	1.6	0.8	1.3	37	<0.1	<0.1	<0.1	72	0.39	0.062	6
PM11RP277	Soil		0.3	11.6	3.5	30	<0.1	12.2	5.3	124	1.63	0.7	1.3	1.2	27	<0.1	<0.1	<0.1	46	0.28	0.018	5
PM11RP278	Soil		0.2	7.7	3.9	21	<0.1	7.1	3.3	104	1.03	<0.5	<0.5	0.7	29	<0.1	<0.1	<0.1	29	0.23	0.023	5
PM11RP279	Soil		0.4	17.3	4.4	35	<0.1	15.8	6.6	283	2.06	1.1	1.1	1.6	50	<0.1	<0.1	<0.1	60	0.41	0.027	11
PM11RP280	Soil		0.3	8.1	4.0	24	<0.1	8.7	4.3	156	1.18	0.7	0.7	0.6	27	<0.1	<0.1	<0.1	35	0.20	0.019	5
PM11RP281	Soil		1.0	13.0	7.2	34	<0.1	18.9	6.8	83	2.64	2.2	1.2	1.1	30	<0.1	<0.1	0.1	61	0.18	0.170	6
PM11RP282	Soil		0.4	11.4	6.9	22	0.1	11.3	4.7	225	1.50	1.5	0.9	1.1	41	<0.1	<0.1	<0.1	41	0.30	0.064	5
PM11RP283	Soil		0.3	18.1	5.3	30	<0.1	16.2	9.3	376	2.13	2.5	0.7	1.6	64	<0.1	<0.1	<0.1	70	0.44	0.048	11
PM11RP284	Soil		0.2	12.5	4.9	31	<0.1	15.4	5.6	108	1.67	0.7	<0.5	0.9	28	<0.1	<0.1	<0.1	42	0.26	0.021	5
PM11RP285	Soil		0.3	15.6	4.5	36	<0.1	17.1	7.0	203	2.00	1.1	<0.5	1.3	32	<0.1	<0.1	<0.1	54	0.33	0.024	8
PM11RP286	Soil		0.4	18.9	4.8	38	<0.1	19.2	9.5	434	2.52	1.3	1.3	1.7	36	<0.1	<0.1	<0.1	70	0.41	0.022	7
PM11RP287	Soil		0.2	15.5	3.7	32	<0.1	14.6	5.6	133	1.81	0.9	2.4	0.9	32	<0.1	<0.1	<0.1	48	0.31	0.018	8
PM11RP288	Soil		0.3	20.4	5.0	36	<0.1	20.0	6.7	150	1.95	1.8	0.9	1.2	29	<0.1	<0.1	<0.1	53	0.31	0.023	6
PM11RP289	Soil		0.2	14.1	4.6	25	<0.1	13.3	5.0	122	1.63	1.1	0.9	1.1	24	<0.1	<0.1	<0.1	43	0.22	0.019	5

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Project: PLACER MTN.
 Report Date: August 03, 2011

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CERTIFICATE OF ANALYSIS

VAN11003257.1

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	
PM11RP261	Soil	22	0.20	60	0.081	2	2.26	0.022	0.03	<0.1	0.03	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11RP262	Soil	15	0.11	33	0.085	2	2.21	0.022	0.02	<0.1	0.04	1.1	<0.1	<0.05	6	<0.5	<0.2
PM11RP263	Soil	22	0.15	49	0.074	2	1.93	0.024	0.03	<0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
PM11RP264	Soil	14	0.13	55	0.105	1	2.80	0.019	0.05	<0.1	0.06	1.5	<0.1	<0.05	8	<0.5	<0.2
PM11RP265	Soil	29	0.26	87	0.073	2	1.97	0.027	0.04	<0.1	0.05	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11RP265D	Soil	30	0.26	75	0.072	2	1.86	0.027	0.04	<0.1	0.04	2.0	<0.1	<0.05	6	<0.5	<0.2
PM11RP266	Soil	18	0.41	80	0.098	1	2.06	0.017	0.05	<0.1	0.03	2.3	<0.1	<0.05	7	<0.5	<0.2
PM11RP267	Soil	19	0.20	103	0.090	1	2.80	0.016	0.03	<0.1	0.05	2.0	<0.1	<0.05	7	<0.5	<0.2
PM11RP268	Soil	18	0.33	116	0.093	<1	1.65	0.018	0.03	<0.1	0.03	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11RP269	Soil	30	0.51	177	0.101	<1	2.05	0.028	0.12	<0.1	0.03	4.2	0.1	<0.05	6	<0.5	<0.2
PM11RP270	Soil	26	0.53	131	0.124	1	1.52	0.027	0.13	<0.1	0.02	3.1	0.1	<0.05	5	<0.5	<0.2
PM11RP271	Soil	29	0.50	119	0.107	1	1.71	0.022	0.07	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
PM11RP272	Soil	16	0.28	81	0.085	<1	1.42	0.030	0.04	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11RP273	Soil	17	0.30	95	0.095	<1	1.86	0.029	0.05	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11RP274	Soil	13	0.28	79	0.100	<1	1.36	0.026	0.04	<0.1	0.04	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11RP275	Soil	18	0.31	63	0.096	<1	1.32	0.030	0.03	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11RP276	Soil	34	0.60	89	0.114	<1	1.95	0.026	0.05	<0.1	0.01	2.6	<0.1	<0.05	6	<0.5	<0.2
PM11RP277	Soil	24	0.47	85	0.114	<1	1.61	0.026	0.04	<0.1	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11RP278	Soil	14	0.26	66	0.072	1	1.11	0.023	0.04	<0.1	0.03	1.5	<0.1	<0.05	4	<0.5	<0.2
PM11RP279	Soil	30	0.51	136	0.124	2	1.75	0.036	0.09	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
PM11RP280	Soil	16	0.24	93	0.074	<1	1.24	0.029	0.04	<0.1	0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11RP281	Soil	28	0.31	115	0.125	1	2.84	0.022	0.03	<0.1	0.05	2.3	<0.1	<0.05	12	<0.5	<0.2
PM11RP282	Soil	33	0.28	98	0.096	1	1.45	0.022	0.06	<0.1	0.10	2.0	<0.1	<0.05	6	<0.5	<0.2
PM11RP283	Soil	42	0.59	150	0.118	<1	2.19	0.039	0.07	<0.1	0.03	3.9	<0.1	<0.05	6	<0.5	<0.2
PM11RP284	Soil	23	0.36	114	0.106	<1	1.75	0.034	0.04	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11RP285	Soil	29	0.56	115	0.121	1	1.77	0.033	0.10	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
PM11RP286	Soil	36	0.63	132	0.142	1	2.09	0.036	0.09	<0.1	0.01	3.3	<0.1	<0.05	7	<0.5	<0.2
PM11RP287	Soil	24	0.35	122	0.098	1	1.59	0.037	0.06	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
PM11RP288	Soil	31	0.50	142	0.117	1	1.91	0.031	0.07	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
PM11RP289	Soil	19	0.28	105	0.087	1	1.80	0.033	0.04	<0.1	0.01	1.8	<0.1	<0.05	6	<0.5	<0.2

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Project: PLACER MTN.
 Report Date: August 03, 2011

Page: 3 of 8 Part 1

CERTIFICATE OF ANALYSIS

VAN11003257.1

Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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	0.1	2	0.01	0.001	1
PM11RP290	Soil	0.2	16.9	4.1	27	<0.1	17.1	6.0	95	1.67	1.1	<0.5	0.9	26	<0.1	<0.1	<0.1	45	0.23	0.024	3
PM11RP291	Soil	0.4	13.9	5.1	77	<0.1	20.8	6.0	321	1.55	1.0	0.8	1.5	21	<0.1	<0.1	<0.1	35	0.14	0.182	4
PM11RP292	Soil	0.4	12.4	5.1	53	<0.1	24.1	6.5	295	1.59	1.1	<0.5	1.2	25	<0.1	<0.1	<0.1	36	0.19	0.130	3
PM11RP293	Soil	0.7	11.3	5.5	61	<0.1	24.7	5.9	127	1.68	1.4	<0.5	1.4	15	<0.1	<0.1	0.1	37	0.11	0.175	3
PM11RP294	Soil	0.2	11.4	4.1	36	<0.1	15.7	3.4	149	1.22	0.5	0.8	0.8	25	<0.1	<0.1	<0.1	28	0.17	0.013	3
PM11RP295	Soil	0.6	13.6	4.2	53	<0.1	20.3	6.0	310	1.70	2.3	2.6	1.2	18	<0.1	0.3	0.2	39	0.13	0.098	3
PM11RP296	Soil	0.5	9.6	4.1	50	<0.1	15.6	4.3	340	1.27	1.8	1.2	1.0	16	0.2	0.2	0.2	32	0.11	0.131	3
PM11RP297	Soil	0.6	11.1	4.1	54	0.1	19.6	5.3	398	1.48	1.9	119.7	1.1	19	0.2	0.4	0.2	35	0.15	0.095	3
PM11RP298	Soil	0.3	15.8	3.7	45	<0.1	17.9	5.2	149	1.99	2.0	4.2	1.4	31	<0.1	0.2	0.1	48	0.20	0.032	5
PM11RP299	Soil	0.5	13.5	5.8	62	<0.1	18.8	5.0	508	1.43	2.0	3.4	0.9	20	0.2	0.3	0.2	35	0.17	0.102	3
PM11RP300	Soil	0.6	15.2	5.1	64	0.1	23.0	5.9	464	1.79	2.0	2.9	1.0	26	0.2	0.3	0.2	40	0.21	0.084	4
PM11RP301	Soil	0.1	14.4	2.9	29	<0.1	15.9	4.1	141	1.28	1.2	<0.5	0.8	28	0.1	0.3	0.1	38	0.22	0.015	8
PM11RP302	Soil	0.2	15.0	3.0	38	<0.1	18.3	5.4	161	1.28	1.5	2.9	1.1	31	<0.1	0.4	0.2	41	0.26	0.014	5
PM11RP303	Soil	0.8	7.8	4.5	61	<0.1	17.5	4.2	67	1.62	2.5	<0.5	1.1	14	0.1	0.7	0.2	35	0.10	0.101	4
PM11RP304	Soil	0.3	12.8	4.6	52	0.1	22.9	5.2	127	1.31	1.6	<0.5	1.3	25	<0.1	0.3	0.1	33	0.15	0.037	6
PM11RP305	Soil	0.2	15.4	4.9	67	0.1	42.9	8.5	133	2.11	1.2	29.1	1.4	51	0.2	0.2	0.1	44	0.25	0.075	4
PM11RP306	Soil	0.3	8.8	3.4	34	<0.1	12.6	4.0	125	1.13	1.4	0.7	0.8	8	<0.1	0.2	0.1	30	0.07	0.103	2
PM11RP307	Soil	0.3	12.4	3.4	33	<0.1	22.0	7.2	207	1.63	0.9	1.2	1.0	24	<0.1	0.2	0.1	38	0.14	0.067	4
PM11RP308	Soil	0.3	8.4	3.5	43	<0.1	20.7	5.3	163	1.26	0.9	1.2	0.8	14	<0.1	0.1	0.1	31	0.09	0.115	3
PM11RP309	Soil	0.3	13.3	4.9	43	<0.1	29.6	5.4	133	1.97	2.3	<0.5	1.6	28	<0.1	0.1	0.1	38	0.15	0.248	4
PM11RP310	Soil	0.2	12.9	4.2	44	<0.1	24.9	5.6	134	1.72	1.3	<0.5	1.0	22	<0.1	0.1	0.1	35	0.13	0.160	4
PMS12	Rock Pulp	105.3	3689	19.1	62	2.5	33.4	18.4	401	4.18	55.2	432.7	1.8	26	0.3	3.2	0.4	114	0.32	0.089	10
PM11RP311	Soil	0.4	18.0	4.6	51	<0.1	42.4	7.0	80	1.94	2.0	<0.5	1.3	30	<0.1	0.1	0.2	40	0.17	0.233	4
PM11RP312	Soil	0.3	7.4	3.1	38	<0.1	21.5	4.9	102	1.28	1.0	0.9	0.7	18	<0.1	<0.1	0.1	33	0.13	0.083	2
PM11RP313	Soil	0.2	16.5	2.8	35	<0.1	31.0	6.8	291	1.77	0.8	<0.5	0.9	36	<0.1	<0.1	<0.1	46	0.27	0.024	5
PM11RP314	Soil	0.4	5.9	4.0	37	<0.1	17.0	3.8	115	1.26	1.2	<0.5	0.9	17	<0.1	<0.1	0.1	31	0.13	0.137	2
PM11RP315	Soil	0.2	31.9	3.2	49	<0.1	57.4	12.8	285	2.82	1.6	1.1	2.2	76	<0.1	0.1	<0.1	65	0.46	0.058	13
PM11RP316	Soil	0.5	7.3	3.7	39	<0.1	8.6	3.8	315	1.16	1.3	<0.5	0.9	10	<0.1	<0.1	0.1	29	0.09	0.106	2
PM11RP317	Soil	0.3	8.2	3.4	43	<0.1	13.3	5.0	130	1.48	1.1	0.7	0.8	15	<0.1	<0.1	<0.1	34	0.11	0.077	2
PM11RP318	Soil	0.4	12.1	3.1	36	<0.1	14.6	5.1	111	1.29	1.7	<0.5	1.0	14	<0.1	<0.1	<0.1	34	0.11	0.128	2

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Report Date: August 03, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
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	
PM11RP290	Soil	26	0.34	144	0.104	1	1.82	0.026	0.05	<0.1	<0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11RP291	Soil	20	0.22	145	0.085	1	2.17	0.024	0.06	<0.1	0.03	2.2	<0.1	<0.05	6	<0.5	<0.2
PM11RP292	Soil	21	0.21	126	0.081	2	2.11	0.023	0.07	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11RP293	Soil	19	0.18	79	0.085	2	2.38	0.021	0.05	0.1	0.04	1.5	<0.1	<0.05	7	<0.5	<0.2
PM11RP294	Soil	20	0.19	94	0.074	<1	1.66	0.036	0.05	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11RP295	Soil	23	0.26	113	0.079	<1	2.32	0.019	0.07	<0.1	0.01	2.1	<0.1	<0.05	7	<0.5	<0.2
PM11RP296	Soil	14	0.15	106	0.073	<1	1.99	0.015	0.04	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11RP297	Soil	18	0.22	127	0.070	2	1.94	0.017	0.08	<0.1	0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11RP298	Soil	28	0.38	137	0.079	<1	2.20	0.014	0.07	<0.1	<0.01	3.0	<0.1	<0.05	6	<0.5	<0.2
PM11RP299	Soil	17	0.19	118	0.066	1	1.85	0.014	0.06	0.1	0.04	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11RP300	Soil	22	0.27	144	0.071	1	2.15	0.015	0.08	<0.1	0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
PM11RP301	Soil	21	0.24	76	0.066	<1	1.24	0.023	0.09	<0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
PM11RP302	Soil	29	0.36	85	0.076	<1	1.13	0.021	0.08	<0.1	0.01	3.0	0.1	<0.05	3	<0.5	<0.2
PM11RP303	Soil	13	0.16	94	0.051	<1	1.48	0.013	0.07	<0.1	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
PM11RP304	Soil	19	0.27	130	0.056	<1	1.57	0.016	0.11	<0.1	<0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
PM11RP305	Soil	25	0.33	207	0.084	<1	2.73	0.019	0.11	<0.1	<0.01	3.8	0.1	<0.05	8	<0.5	<0.2
PM11RP306	Soil	14	0.12	76	0.064	<1	1.51	0.016	0.03	<0.1	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11RP307	Soil	30	0.31	122	0.069	<1	1.68	0.018	0.06	<0.1	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PM11RP308	Soil	25	0.18	87	0.067	<1	1.55	0.016	0.03	<0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
PM11RP309	Soil	27	0.18	154	0.092	<1	3.35	0.019	0.04	<0.1	0.03	2.5	<0.1	<0.05	9	<0.5	<0.2
PM11RP310	Soil	25	0.20	137	0.072	<1	2.27	0.018	0.06	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
PMS12	Rock Pulp	46	0.89	46	0.097	<1	1.28	0.033	0.90	4.2	0.06	9.6	0.5	1.79	6	6.3	0.8
PM11RP311	Soil	27	0.22	127	0.087	<1	3.22	0.019	0.06	<0.1	0.02	2.6	<0.1	<0.05	8	<0.5	<0.2
PM11RP312	Soil	18	0.16	73	0.072	<1	1.78	0.019	0.05	<0.1	<0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11RP313	Soil	41	0.58	105	0.083	<1	1.49	0.029	0.08	<0.1	<0.01	3.8	<0.1	<0.05	5	<0.5	<0.2
PM11RP314	Soil	11	0.09	63	0.080	<1	2.10	0.018	0.05	<0.1	0.03	1.4	<0.1	<0.05	7	<0.5	<0.2
PM11RP315	Soil	84	1.06	182	0.072	<1	2.79	0.026	0.11	<0.1	0.02	7.6	<0.1	<0.05	7	<0.5	<0.2
PM11RP316	Soil	11	0.11	49	0.077	<1	1.83	0.020	0.04	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11RP317	Soil	17	0.19	77	0.069	1	2.06	0.021	0.06	<0.1	0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11RP318	Soil	17	0.16	67	0.075	<1	2.05	0.020	0.03	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

VAN11003257.1

Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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
PM11RP319	Soil	0.4	10.3	4.3	35	<0.1	15.4	4.5	63	1.36	1.6	0.7	1.0	23	<0.1	<0.1	<0.1	32	0.18	0.146	3
PM11RP320	Soil	0.2	7.6	3.6	36	<0.1	12.6	4.0	100	1.42	2.0	<0.5	1.1	15	<0.1	<0.1	<0.1	31	0.11	0.214	2
PM11RP320D	Soil	0.2	8.6	3.6	35	<0.1	12.5	4.0	85	1.25	2.0	<0.5	1.2	18	<0.1	<0.1	<0.1	29	0.12	0.208	2
PM11RP321	Soil	0.3	8.5	4.8	41	<0.1	18.1	5.0	126	1.52	1.2	<0.5	0.8	30	0.1	<0.1	0.1	35	0.21	0.130	2
PM11RP322	Soil	0.1	11.4	2.8	24	<0.1	14.2	4.2	133	1.10	0.7	1.5	0.6	28	<0.1	<0.1	<0.1	27	0.21	0.013	4
PM11RP323	Soil	0.3	41.4	4.1	51	<0.1	143.2	15.3	183	3.67	2.2	<0.5	2.0	105	<0.1	<0.1	<0.1	77	0.52	0.031	8
PM11RP324	Soil	<0.1	13.3	3.2	20	<0.1	15.8	3.4	97	1.09	0.7	0.6	0.6	32	<0.1	<0.1	<0.1	28	0.20	0.013	4
PM11RP325	Soil	<0.1	10.0	3.5	23	<0.1	10.2	2.4	52	0.99	<0.5	<0.5	0.5	27	<0.1	<0.1	<0.1	20	0.18	0.013	3
PM11RP326	Soil	<0.1	6.7	2.7	13	<0.1	7.2	2.0	46	0.69	<0.5	<0.5	0.3	21	<0.1	<0.1	<0.1	16	0.15	0.011	3
PM11RP327	Soil	<0.1	7.8	2.4	18	<0.1	8.2	4.3	148	0.95	0.6	1.0	0.4	22	<0.1	<0.1	<0.1	26	0.17	0.015	3
PM11RP328	Soil	0.2	8.8	2.1	19	<0.1	11.0	3.2	87	1.01	0.9	2.2	0.7	24	<0.1	<0.1	<0.1	27	0.20	0.011	3
PM11RP329	Soil	0.1	8.3	2.5	20	<0.1	10.1	2.8	83	1.01	1.1	0.8	0.8	25	<0.1	<0.1	0.1	24	0.20	0.010	3
PM11RP330	Soil	0.1	10.5	3.2	23	<0.1	11.6	3.2	116	1.06	0.8	2.4	0.7	26	<0.1	<0.1	<0.1	24	0.19	0.013	4
PM11RP331	Soil	0.1	11.4	3.6	23	<0.1	11.3	3.6	151	1.05	1.0	1.2	0.8	23	<0.1	<0.1	0.1	24	0.17	0.015	4
PM11RP332	Soil	0.4	14.0	4.5	40	<0.1	20.5	5.4	176	1.77	2.8	1.1	1.2	19	<0.1	<0.1	0.1	40	0.16	0.193	3
PM11RP333	Soil	0.2	19.8	4.6	26	<0.1	20.3	4.4	128	1.44	2.1	1.3	1.6	57	<0.1	<0.1	0.1	30	0.33	0.018	9
PM11RP334	Soil	0.1	20.1	4.2	26	<0.1	25.3	5.9	211	1.49	2.7	2.0	1.1	62	<0.1	<0.1	0.1	29	0.30	0.018	8
PM11RP335	Soil	0.2	27.9	5.4	29	<0.1	35.9	5.1	183	1.86	3.9	1.0	1.7	88	<0.1	<0.1	0.1	32	0.38	0.029	15
PM11RP336	Soil	0.2	19.8	3.5	24	<0.1	22.6	4.6	161	1.41	2.4	0.8	1.1	67	<0.1	<0.1	<0.1	28	0.30	0.016	9
PM11RP337	Soil	0.2	18.2	5.6	52	<0.1	36.0	6.6	84	1.96	2.7	<0.5	2.6	45	<0.1	<0.1	0.1	36	0.20	0.337	7
PM11RP338	Soil	0.2	9.4	4.8	40	<0.1	16.3	4.5	232	1.39	0.7	0.8	1.1	19	<0.1	<0.1	<0.1	29	0.10	0.048	4
PM11RP339	Soil	0.4	9.2	5.2	45	<0.1	23.5	5.0	190	1.49	1.5	<0.5	1.4	16	<0.1	<0.1	0.1	33	0.09	0.172	4
PM11RP340	Soil	0.2	8.2	4.7	35	<0.1	19.4	4.5	122	1.42	1.4	<0.5	1.3	24	<0.1	<0.1	0.1	32	0.12	0.182	3
PM11RP341	Soil	0.3	9.3	4.1	40	<0.1	18.9	5.3	178	1.39	0.8	<0.5	1.2	21	<0.1	<0.1	<0.1	32	0.13	0.074	4
PM11RP342	Soil	0.4	6.8	4.4	51	<0.1	16.5	4.4	381	1.22	0.6	0.5	1.1	25	<0.1	<0.1	0.1	29	0.17	0.100	3
PM11RP343	Soil	0.5	8.2	4.8	45	<0.1	17.4	4.5	237	1.32	1.1	7.5	1.2	15	<0.1	<0.1	<0.1	30	0.11	0.072	3
PM11RP344	Soil	0.4	12.5	4.2	41	<0.1	23.3	6.0	229	1.51	1.1	<0.5	1.2	24	<0.1	<0.1	0.1	35	0.13	0.058	4
PM11RP345	Soil	0.4	9.4	4.5	58	<0.1	17.6	4.4	304	1.32	0.8	<0.5	1.2	16	<0.1	<0.1	0.1	31	0.09	0.134	4
PM11RP346	Soil	0.4	10.0	4.4	40	<0.1	20.0	5.6	218	1.48	0.8	1.0	1.2	22	<0.1	<0.1	0.1	35	0.11	0.084	3
PM11RP347	Soil	0.4	9.3	4.8	57	<0.1	16.3	4.5	137	1.25	1.0	3.3	1.4	16	<0.1	<0.1	<0.1	29	0.10	0.127	4

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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	
PM11RP319	Soil			16	0.12	66	0.077	<1	2.17	0.020	0.05	<0.1	<0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11RP320	Soil			12	0.09	62	0.079	1	2.14	0.021	0.03	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11RP320D	Soil			12	0.09	69	0.080	<1	2.26	0.021	0.03	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11RP321	Soil			21	0.19	101	0.077	<1	1.68	0.021	0.06	<0.1	0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11RP322	Soil			28	0.27	91	0.067	<1	1.31	0.025	0.04	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PM11RP323	Soil			182	1.75	142	0.070	1	2.48	0.041	0.09	<0.1	0.01	7.1	<0.1	<0.05	7	<0.5	<0.2
PM11RP324	Soil			22	0.19	90	0.057	<1	1.25	0.029	0.03	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
PM11RP325	Soil			20	0.22	96	0.063	<1	1.53	0.026	0.03	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11RP326	Soil			15	0.17	59	0.046	<1	0.94	0.023	0.03	<0.1	<0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
PM11RP327	Soil			19	0.19	66	0.053	<1	1.04	0.024	0.03	<0.1	<0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11RP328	Soil			27	0.37	71	0.060	1	0.89	0.021	0.04	<0.1	0.01	1.7	<0.1	0.08	3	<0.5	<0.2
PM11RP329	Soil			25	0.34	70	0.069	<1	0.96	0.023	0.05	<0.1	0.01	1.5	<0.1	0.07	3	<0.5	<0.2
PM11RP330	Soil			26	0.31	83	0.057	<1	1.16	0.022	0.04	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11RP331	Soil			28	0.36	82	0.063	<1	1.27	0.019	0.04	<0.1	0.02	1.7	<0.1	0.05	4	<0.5	<0.2
PM11RP332	Soil			21	0.19	123	0.069	<1	2.08	0.016	0.05	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
PM11RP333	Soil			38	0.49	127	0.076	1	1.42	0.030	0.06	<0.1	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2
PM11RP334	Soil			37	0.40	126	0.063	<1	1.61	0.030	0.05	<0.1	0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
PM11RP335	Soil			49	0.50	184	0.067	2	2.37	0.030	0.07	<0.1	0.03	5.4	<0.1	<0.05	6	<0.5	<0.2
PM11RP336	Soil			28	0.29	123	0.050	<1	1.53	0.028	0.04	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
PM11RP337	Soil			37	0.25	165	0.091	<1	3.67	0.020	0.06	<0.1	0.04	3.6	<0.1	<0.05	9	0.5	<0.2
PM11RP338	Soil			24	0.27	81	0.069	1	1.83	0.015	0.04	<0.1	0.02	1.3	<0.1	<0.05	6	0.5	<0.2
PM11RP339	Soil			24	0.18	79	0.075	<1	2.23	0.017	0.05	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11RP340	Soil			19	0.15	81	0.075	1	2.28	0.020	0.03	<0.1	0.04	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11RP341	Soil			24	0.22	117	0.074	<1	1.68	0.018	0.04	<0.1	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11RP342	Soil			18	0.16	90	0.071	<1	1.53	0.019	0.05	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11RP343	Soil			15	0.17	92	0.074	<1	1.74	0.020	0.04	<0.1	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11RP344	Soil			27	0.27	116	0.075	<1	1.83	0.018	0.04	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11RP345	Soil			18	0.16	95	0.078	<1	1.94	0.018	0.04	<0.1	0.03	1.4	<0.1	<0.05	6	<0.5	<0.2
PM11RP346	Soil			26	0.22	119	0.076	<1	1.89	0.017	0.04	<0.1	0.03	1.2	<0.1	<0.05	6	<0.5	<0.2
PM11RP347	Soil			15	0.16	122	0.078	1	1.81	0.020	0.04	<0.1	0.03	1.5	<0.1	<0.05	5	<0.5	<0.2

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 Report Date: August 03, 2011

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CERTIFICATE OF ANALYSIS

VAN11003257.1

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	
PM11RP348	Soil		0.4	10.6	5.3	52	<0.1	22.3	5.4	467	1.32	1.2	1.0	1.0	23	<0.1	<0.1	0.1	29	0.12	0.085	3
PM11RP349	Soil		0.3	8.6	4.4	35	<0.1	16.3	4.1	129	1.37	1.1	<0.5	1.2	22	<0.1	<0.1	0.1	31	0.16	0.154	4
PM11RP350	Soil		0.4	7.9	4.3	38	<0.1	15.8	4.1	188	1.31	1.1	1.4	1.4	14	<0.1	<0.1	<0.1	31	0.09	0.132	4
PMS15	Rock Pulp		14.4	56.3	16.1	16	0.1	14.8	2.2	99	3.32	416.3	191.2	0.7	27	0.3	25.4	0.2	9	0.88	0.005	1
PM11MP01	Soil		0.5	10.4	6.3	34	<0.1	14.7	5.1	82	1.71	1.5	<0.5	1.7	20	<0.1	<0.1	0.1	39	0.09	0.206	4
PM11MP02	Soil		0.4	7.3	5.7	34	<0.1	9.3	3.5	58	1.40	0.8	4.0	1.8	14	<0.1	<0.1	0.1	30	0.07	0.237	3
PM11MP03	Soil		0.2	13.4	4.2	43	<0.1	10.8	7.7	216	2.44	0.5	2.4	2.4	119	<0.1	0.1	0.1	69	0.30	0.020	6
PM11MP04	Soil		0.5	10.9	5.0	40	<0.1	9.6	6.9	202	2.00	0.9	<0.5	2.4	25	<0.1	<0.1	<0.1	54	0.16	0.144	4
PM11MP05	Soil		1.1	13.3	5.6	50	<0.1	12.3	8.7	212	2.46	1.2	10.4	2.7	16	<0.1	0.1	0.1	69	0.13	0.065	3
PM11MP06	Soil		0.2	7.0	5.2	33	<0.1	6.0	3.1	79	1.16	<0.5	<0.5	1.1	30	<0.1	<0.1	<0.1	27	0.12	0.026	2
PM11MP07	Soil		0.2	14.3	5.7	27	<0.1	12.7	5.4	220	1.52	0.7	<0.5	2.1	78	<0.1	0.1	0.1	41	0.35	0.024	12
PM11MP08	Soil		0.3	45.7	5.1	32	0.5	12.4	5.4	386	1.56	0.8	15.3	1.6	45	<0.1	<0.1	0.2	41	0.29	0.030	10
PM11MP09	Soil		0.7	29.5	8.0	173	0.3	16.2	10.2	2530	2.51	2.2	2.9	2.6	320	0.4	0.2	0.2	79	3.19	0.298	11
PM11MP10	Soil		0.3	25.2	3.7	63	<0.1	11.4	11.8	549	3.27	1.7	5.4	4.1	38	<0.1	0.2	0.2	95	0.48	0.102	11
PM11MP11	Soil		0.4	11.6	4.3	59	0.1	8.6	7.6	188	2.33	1.3	1.7	1.5	26	<0.1	<0.1	0.2	61	0.22	0.101	3
PM11MP12	Soil		1.0	6.1	5.1	53	<0.1	6.8	5.9	403	1.90	2.2	<0.5	1.1	14	<0.1	<0.1	0.2	62	0.15	0.118	2
PM11MP13	Soil		0.4	13.1	3.9	64	0.2	8.7	8.8	280	2.64	1.8	263.9	1.7	18	<0.1	<0.1	0.3	87	0.19	0.085	3
PM11MP14	Soil		0.5	14.0	4.4	62	0.2	9.1	8.0	264	2.43	1.7	3.5	1.7	23	<0.1	<0.1	0.2	76	0.24	0.078	4
PM11MP15	Soil		0.3	12.6	4.2	54	0.3	7.2	7.6	337	2.38	1.1	0.6	1.6	29	<0.1	0.1	0.2	80	0.32	0.036	5
PM11MP16	Soil		0.3	11.6	3.8	49	0.1	7.6	7.0	174	2.49	1.2	0.7	0.9	32	<0.1	<0.1	0.1	81	0.35	0.040	3
PM11MP17	Soil		0.4	11.2	4.4	53	<0.1	12.3	7.6	258	2.26	1.1	<0.5	1.1	31	<0.1	<0.1	0.1	70	0.26	0.051	4
PM11MP18	Soil		0.4	25.1	5.5	59	<0.1	12.7	11.8	636	2.98	1.8	3.5	2.3	53	<0.1	0.2	0.3	104	0.52	0.061	10
PM11MP19	Soil		0.4	11.2	4.5	63	<0.1	9.5	8.7	310	2.74	<0.5	<0.5	1.1	32	<0.1	0.1	0.1	100	0.30	0.053	3
PM11MP20	Soil		0.4	7.1	4.4	62	<0.1	13.2	5.9	322	1.78	<0.5	<0.5	0.8	24	<0.1	<0.1	<0.1	59	0.20	0.041	2
PM11MP21	Soil		0.4	8.9	4.3	72	<0.1	11.6	6.7	439	2.03	0.7	<0.5	1.0	36	<0.1	<0.1	0.2	67	0.21	0.058	2
PM11MP22	Soil		0.4	8.5	4.7	60	<0.1	15.3	6.1	374	1.64	<0.5	<0.5	0.9	28	<0.1	<0.1	0.1	57	0.18	0.032	2
PM11MP23	Soil		0.3	9.3	4.3	43	<0.1	13.4	5.3	315	1.57	<0.5	<0.5	0.9	29	<0.1	<0.1	0.1	52	0.16	0.027	3
PM11MP24	Soil		0.4	8.3	4.4	40	<0.1	12.2	5.3	224	1.49	<0.5	<0.5	0.9	32	<0.1	<0.1	0.1	58	0.19	0.044	2
PM11MP25	Soil		0.4	8.9	4.6	49	<0.1	16.6	5.3	409	1.31	<0.5	0.7	1.0	29	<0.1	<0.1	<0.1	46	0.16	0.039	3
PM11MP26	Soil		0.3	8.7	3.8	37	<0.1	14.1	6.2	299	1.73	<0.5	<0.5	1.3	38	<0.1	<0.1	<0.1	64	0.21	0.021	4

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Project: PLACER MTN.
 Report Date: August 03, 2011

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CERTIFICATE OF ANALYSIS

VAN11003257.1

Method Analyte	Unit	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
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	
PM11RP348	Soil	22	0.20	114	0.076	1	1.88	0.018	0.05	<0.1	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2
PM11RP349	Soil	19	0.15	84	0.075	<1	1.85	0.027	0.05	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11RP350	Soil	16	0.12	79	0.079	<1	1.98	0.021	0.03	<0.1	0.03	1.6	<0.1	<0.05	5	<0.5	<0.2
PMS15	Rock Pulp	19	0.02	915	0.008	<1	0.15	0.006	0.06	2.5	2.74	0.5	9.8	0.12	<1	1.3	<0.2
PM11MP01	Soil	17	0.20	87	0.099	<1	2.85	0.018	0.04	<0.1	0.05	1.8	<0.1	<0.05	8	<0.5	<0.2
PM11MP02	Soil	11	0.11	56	0.095	1	2.03	0.017	0.03	<0.1	0.05	1.7	<0.1	<0.05	7	<0.5	<0.2
PM11MP03	Soil	21	0.59	136	0.147	<1	1.60	0.019	0.31	<0.1	0.02	2.8	0.2	<0.05	5	<0.5	<0.2
PM11MP04	Soil	11	0.31	107	0.150	2	2.06	0.019	0.13	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11MP05	Soil	14	0.43	92	0.178	<1	2.39	0.015	0.09	<0.1	0.04	1.3	<0.1	<0.05	7	<0.5	<0.2
PM11MP06	Soil	11	0.23	81	0.095	<1	1.35	0.021	0.06	<0.1	0.02	1.1	<0.1	<0.05	4	<0.5	<0.2
PM11MP07	Soil	26	0.38	119	0.108	<1	1.27	0.027	0.13	<0.1	0.02	3.4	0.1	<0.05	4	<0.5	<0.2
PM11MP08	Soil	15	0.32	130	0.099	<1	1.74	0.022	0.11	<0.1	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11MP09	Soil	22	0.91	446	0.133	27	2.00	0.185	0.75	0.2	<0.01	3.8	0.1	0.06	7	<0.5	<0.2
PM11MP10	Soil	18	0.83	202	0.187	<1	2.09	0.016	0.40	0.2	0.01	3.7	0.2	<0.05	7	<0.5	<0.2
PM11MP11	Soil	11	0.35	109	0.126	<1	2.34	0.017	0.08	0.2	0.02	2.0	<0.1	<0.05	7	<0.5	<0.2
PM11MP12	Soil	9	0.22	113	0.124	<1	1.53	0.017	0.08	0.5	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
PM11MP13	Soil	11	0.36	162	0.147	<1	2.10	0.016	0.14	0.3	0.01	1.9	<0.1	<0.05	7	<0.5	<0.2
PM11MP14	Soil	11	0.34	134	0.146	1	2.19	0.020	0.12	0.3	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
PM11MP15	Soil	11	0.38	66	0.151	2	1.70	0.019	0.14	0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
PM11MP16	Soil	12	0.36	64	0.130	<1	1.91	0.020	0.10	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2
PM11MP17	Soil	16	0.32	94	0.120	<1	1.98	0.019	0.07	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
PM11MP18	Soil	18	0.70	112	0.154	<1	2.06	0.022	0.20	0.2	0.03	4.8	<0.1	<0.05	7	<0.5	0.3
PM11MP19	Soil	15	0.39	112	0.144	<1	2.29	0.015	0.10	<0.1	0.01	2.1	<0.1	<0.05	7	<0.5	<0.2
PM11MP20	Soil	17	0.25	89	0.103	<1	1.79	0.019	0.08	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11MP21	Soil	15	0.27	138	0.105	1	2.06	0.020	0.09	<0.1	0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11MP22	Soil	23	0.24	106	0.093	<1	1.87	0.020	0.09	<0.1	<0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11MP23	Soil	19	0.24	73	0.090	2	1.59	0.025	0.06	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PM11MP24	Soil	21	0.22	89	0.094	<1	1.59	0.023	0.09	<0.1	0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11MP25	Soil	20	0.21	105	0.088	<1	1.71	0.022	0.07	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11MP26	Soil	26	0.26	72	0.101	1	1.20	0.026	0.08	<0.1	0.01	3.2	<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	
PM11MP27	Soil		0.3	13.0	3.5	40	<0.1	26.1	7.2	227	1.93	<0.5	<0.5	1.7	65	<0.1	<0.1	<0.1	65	0.28	0.018	4
PM11MP28	Soil		0.2	7.2	3.0	31	<0.1	9.3	4.4	225	1.12	<0.5	<0.5	0.8	40	<0.1	<0.1	<0.1	39	0.23	0.020	2
PM11MP29	Soil		0.2	7.6	3.0	27	<0.1	12.1	4.1	92	1.36	<0.5	<0.5	1.0	35	<0.1	<0.1	<0.1	44	0.19	0.025	2
PM11MP30	Soil		0.3	13.0	2.8	55	<0.1	23.1	9.1	270	2.53	<0.5	<0.5	2.1	53	<0.1	<0.1	<0.1	90	0.37	0.045	9
PM11MP31	Soil		0.6	27.0	6.3	68	<0.1	25.3	13.6	1144	2.91	2.0	<0.5	1.9	86	<0.1	0.1	0.2	117	0.63	0.090	10
PM11MP32	Soil		0.3	7.7	3.3	36	<0.1	9.5	4.5	177	1.73	0.7	<0.5	1.4	42	<0.1	<0.1	0.1	59	0.28	0.022	4
PM11MP33	Soil		0.2	7.6	3.1	50	<0.1	14.5	4.3	138	1.38	0.5	<0.5	1.0	39	<0.1	<0.1	0.1	49	0.31	0.043	4
PM11MP34	Soil		0.4	8.2	3.7	51	<0.1	9.6	4.1	391	1.28	<0.5	<0.5	0.9	44	<0.1	<0.1	0.1	45	0.27	0.025	3
PM11MP35	Soil		0.4	6.6	4.1	37	<0.1	11.7	5.0	249	1.33	<0.5	<0.5	1.0	41	<0.1	<0.1	<0.1	51	0.25	0.015	2
PM11MP36	Soil		0.2	7.7	3.4	33	<0.1	7.8	5.3	202	1.27	<0.5	<0.5	0.8	33	<0.1	<0.1	<0.1	48	0.20	0.021	2
PM11MP37	Soil		0.3	8.3	3.9	45	<0.1	9.6	4.5	417	1.19	<0.5	<0.5	0.7	25	<0.1	<0.1	<0.1	44	0.16	0.039	2
PM11MP38	Soil		0.2	7.2	3.7	29	<0.1	8.8	4.0	400	1.08	<0.5	0.6	0.6	28	<0.1	<0.1	<0.1	44	0.18	0.028	3
PM11MP39	Soil		0.3	6.4	3.4	24	<0.1	8.1	3.1	135	0.97	<0.5	<0.5	0.4	16	<0.1	<0.1	<0.1	36	0.10	0.029	1
PM11MP40	Soil		0.1	8.8	3.5	29	<0.1	12.4	3.6	266	1.07	<0.5	<0.5	0.7	28	<0.1	<0.1	<0.1	35	0.16	0.017	4
PM11MP40D	Soil		0.2	8.8	3.4	30	<0.1	11.8	3.8	278	1.06	<0.5	<0.5	0.6	29	<0.1	<0.1	<0.1	37	0.18	0.016	4
PM11JC01	Soil		0.4	49.0	3.3	104	<0.1	34.8	9.4	283	2.04	4.8	<0.5	0.6	21	<0.1	0.2	<0.1	63	0.31	0.019	5
PM11JC02	Soil		0.5	55.3	5.2	34	0.2	58.3	10.7	153	2.15	6.4	<0.5	1.1	18	<0.1	0.1	<0.1	62	0.24	0.090	4
PM11JC03	Soil		0.4	50.2	3.0	43	<0.1	46.0	13.1	241	2.59	4.5	<0.5	1.3	26	<0.1	0.2	<0.1	86	0.36	0.025	5
PM11JC04	Soil		0.2	56.4	3.4	33	0.2	46.5	9.1	175	1.82	4.3	2.8	0.8	17	<0.1	0.1	<0.1	55	0.26	0.021	6
PM11JC05	Soil		0.2	48.0	3.6	35	0.1	48.2	10.5	262	1.92	8.2	16.6	0.7	24	<0.1	<0.1	<0.1	58	0.36	0.016	4
PM11JC06	Soil		0.4	35.9	3.2	33	0.1	35.5	8.9	300	1.88	7.3	0.9	0.7	17	<0.1	0.2	<0.1	49	0.21	0.074	3
PM11JC07	Soil		0.5	20.8	3.6	33	0.1	23.4	7.3	204	1.65	3.2	<0.5	0.9	14	<0.1	0.1	<0.1	43	0.13	0.065	3
PM11JC08	Soil		0.5	24.2	4.3	29	0.1	17.2	6.9	189	1.58	4.0	0.9	0.9	10	<0.1	<0.1	0.1	40	0.10	0.073	3
PM11JC09	Soil		0.3	34.3	2.8	32	<0.1	23.1	7.2	151	1.60	3.1	1.1	0.7	14	<0.1	0.2	<0.1	44	0.17	0.024	3
PM11JC10	Soil		0.5	15.4	3.5	26	<0.1	18.5	6.4	117	1.50	3.2	0.5	0.7	11	<0.1	<0.1	<0.1	40	0.17	0.028	3
PM11JC11	Soil		0.5	58.8	3.1	33	0.2	29.4	8.8	193	2.03	5.6	1.4	1.1	17	<0.1	0.2	<0.1	53	0.45	0.024	9
PM11JC12	Soil		0.5	15.5	4.2	32	0.2	13.2	5.6	266	1.47	3.4	1.4	0.8	10	0.1	<0.1	<0.1	38	0.13	0.065	3
PM11JC13	Soil		0.4	13.4	3.7	29	0.2	18.0	6.3	135	1.40	2.6	<0.5	0.7	10	<0.1	<0.1	<0.1	35	0.11	0.063	2
PM11JC14	Soil		0.5	20.3	4.4	37	0.1	18.0	6.3	241	1.55	3.6	<0.5	1.1	10	<0.1	0.1	0.1	37	0.09	0.088	3
PM11JC15	Soil		0.5	16.4	4.2	31	0.1	17.5	6.0	129	1.46	3.5	<0.5	0.7	17	<0.1	0.1	<0.1	37	0.16	0.081	2

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Project: PLACER MTN.
 Report Date: August 03, 2011

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CERTIFICATE OF ANALYSIS

VAN11003257.1

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	
PM11MP27	Soil			39	0.35	82	0.094	2	1.19	0.041	0.12	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
PM11MP28	Soil			22	0.17	62	0.068	<1	0.89	0.027	0.09	<0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
PM11MP29	Soil			36	0.25	59	0.088	<1	1.20	0.026	0.07	<0.1	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
PM11MP30	Soil			60	0.51	84	0.099	3	1.29	0.037	0.15	<0.1	0.02	5.2	<0.1	<0.05	4	<0.5	<0.2
PM11MP31	Soil			62	1.29	93	0.084	2	1.18	0.069	0.06	<0.1	0.03	5.8	<0.1	<0.05	4	<0.5	<0.2
PM11MP32	Soil			28	0.27	116	0.074	<1	1.06	0.033	0.09	<0.1	0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
PM11MP33	Soil			24	0.20	129	0.069	<1	1.32	0.028	0.07	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11MP34	Soil			19	0.20	128	0.065	2	1.12	0.027	0.10	<0.1	0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
PM11MP35	Soil			20	0.22	84	0.076	1	1.10	0.033	0.08	<0.1	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
PM11MP36	Soil			15	0.21	51	0.074	1	1.03	0.030	0.06	<0.1	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
PM11MP37	Soil			15	0.19	77	0.070	<1	1.19	0.023	0.08	<0.1	<0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11MP38	Soil			11	0.19	55	0.061	<1	1.02	0.024	0.04	<0.1	0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
PM11MP39	Soil			12	0.12	55	0.062	<1	0.94	0.022	0.03	<0.1	0.01	1.0	<0.1	<0.05	3	<0.5	<0.2
PM11MP40	Soil			16	0.17	67	0.071	2	1.17	0.032	0.04	<0.1	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
PM11MP40D	Soil			17	0.18	67	0.074	<1	1.15	0.025	0.05	<0.1	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
PM11JC01	Soil			54	0.45	81	0.086	<1	1.52	0.030	0.05	<0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
PM11JC02	Soil			68	0.48	160	0.102	<1	2.44	0.024	0.06	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
PM11JC03	Soil			92	1.00	109	0.092	<1	1.80	0.028	0.13	<0.1	<0.01	4.3	0.1	<0.05	6	<0.5	<0.2
PM11JC04	Soil			72	0.58	109	0.087	<1	1.68	0.028	0.05	<0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11JC05	Soil			94	0.79	99	0.099	<1	1.68	0.029	0.08	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
PM11JC06	Soil			54	0.53	102	0.063	1	1.53	0.018	0.05	<0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11JC07	Soil			32	0.34	99	0.072	<1	1.44	0.018	0.04	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
PM11JC08	Soil			26	0.26	70	0.089	1	1.85	0.019	0.03	<0.1	0.04	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11JC09	Soil			46	0.48	82	0.074	1	1.26	0.018	0.03	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PM11JC10	Soil			32	0.31	70	0.073	<1	1.38	0.020	0.04	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11JC11	Soil			56	0.58	90	0.073	<1	1.56	0.023	0.06	<0.1	0.02	3.6	<0.1	0.05	4	<0.5	<0.2
PM11JC12	Soil			22	0.21	69	0.087	2	1.55	0.022	0.03	<0.1	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11JC13	Soil			20	0.22	73	0.083	1	1.61	0.024	0.03	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2
PM11JC14	Soil			22	0.22	77	0.099	1	2.24	0.021	0.03	<0.1	0.03	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11JC15	Soil			24	0.26	76	0.078	<1	1.55	0.020	0.03	<0.1	0.04	1.3	<0.1	<0.05	5	<0.5	<0.2

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 Report Date: August 03, 2011

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CERTIFICATE OF ANALYSIS

VAN11003257.1

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	
PM11JC16	Soil			0.4	12.9	3.9	32	0.2	14.2	5.9	147	1.47	3.6	1.0	0.8	9	<0.1	<0.1	<0.1	37	0.11	0.089	3
PM11JC17	Soil			0.3	26.8	4.1	26	0.1	21.3	6.8	162	1.61	3.4	1.7	0.5	12	<0.1	0.1	<0.1	48	0.20	0.026	2
PM11JC18	Soil			0.5	14.8	6.3	29	0.2	15.6	6.3	243	1.74	3.8	<0.5	1.2	11	<0.1	<0.1	0.1	43	0.12	0.202	2
PM11JC19	Soil			0.3	9.8	5.6	31	<0.1	16.9	5.7	69	1.76	1.1	6.1	1.1	26	<0.1	<0.1	0.1	44	0.10	0.080	4
PM11JC20	Soil			0.2	3.7	5.6	17	<0.1	3.0	1.3	27	1.27	1.6	0.7	0.9	11	<0.1	<0.1	0.1	25	0.05	0.330	4
PM11JC21	Soil			0.2	2.6	4.6	19	<0.1	2.8	1.8	63	1.39	1.4	3.4	0.6	12	<0.1	<0.1	0.1	36	0.07	0.146	2
PM11JC22	Soil			<0.1	4.2	5.1	25	<0.1	4.2	2.2	93	1.48	0.9	<0.5	0.9	43	0.1	<0.1	0.1	30	0.20	0.342	3
PM11JC23	Soil			0.3	30.3	8.4	38	0.1	28.9	6.9	744	1.54	1.9	<0.5	0.7	75	0.3	<0.1	0.1	34	0.31	0.148	28
PM11JC24	Soil			0.2	5.0	5.5	32	<0.1	10.1	3.6	166	1.43	1.2	<0.5	1.1	13	<0.1	<0.1	0.1	34	0.09	0.123	4
PM11JC25	Soil			0.2	3.1	5.1	22	<0.1	3.5	2.3	64	1.62	0.8	2.4	0.4	10	<0.1	<0.1	0.1	39	0.07	0.196	3
PM11JC26	Soil			0.1	2.8	4.2	25	<0.1	3.5	2.0	78	1.10	<0.5	<0.5	0.4	11	<0.1	<0.1	<0.1	31	0.11	0.084	2
PM11JC27	Soil			0.2	3.4	5.9	25	<0.1	4.9	1.6	41	1.17	1.1	<0.5	0.7	19	<0.1	<0.1	0.1	22	0.09	0.224	3
PM11JC28	Soil			0.4	45.7	5.1	51	1.0	27.6	5.5	292	1.64	1.2	0.7	1.4	30	0.2	0.1	0.1	31	0.55	0.020	10
PM11JC29	Soil			<0.1	1.6	3.6	11	<0.1	1.4	0.8	23	0.42	<0.5	0.9	<0.1	8	<0.1	<0.1	<0.1	13	0.04	0.014	2
PM11JC30	Soil			0.1	2.9	4.2	26	<0.1	2.5	1.7	67	1.02	<0.5	<0.5	0.3	14	<0.1	<0.1	<0.1	25	0.09	0.151	3
PM11JC31	Soil			0.1	3.0	3.7	23	<0.1	2.7	1.7	55	1.03	<0.5	0.5	0.3	16	<0.1	<0.1	<0.1	25	0.09	0.120	3
PM11JC32	Soil			0.2	4.4	5.9	26	<0.1	6.2	2.1	70	1.49	1.2	1.7	1.2	16	<0.1	<0.1	0.1	30	0.12	0.408	3
PM11JC33	Soil			0.2	9.9	6.7	29	<0.1	13.7	3.6	184	1.00	<0.5	<0.5	0.5	22	<0.1	<0.1	0.1	24	0.10	0.064	4
PM11JC34	Soil			0.4	7.9	5.5	32	0.2	18.2	4.0	61	1.47	1.1	<0.5	0.8	20	0.1	<0.1	0.1	33	0.10	0.111	2
PM11JC35	Soil			0.5	8.9	4.9	43	0.2	20.8	5.0	79	1.44	1.4	<0.5	1.1	22	<0.1	<0.1	0.1	33	0.17	0.186	3
PM11JC36	Soil			0.4	5.6	5.4	41	0.2	12.6	3.0	59	1.19	0.8	6.1	0.8	12	<0.1	<0.1	0.1	28	0.06	0.143	3
PM11JC37	Soil			1.1	5.9	4.2	18	<0.1	9.6	4.1	222	1.47	17.3	0.9	0.8	30	<0.1	<0.1	<0.1	74	0.37	0.077	3
PM11JC38	Soil			0.5	10.3	5.8	45	0.2	20.5	4.1	85	1.45	1.9	<0.5	1.0	26	<0.1	<0.1	0.1	35	0.18	0.124	4
PM11JC39	Soil			0.4	14.3	5.6	56	0.1	26.8	5.6	175	1.78	1.3	<0.5	0.7	32	<0.1	<0.1	0.1	49	0.20	0.030	4
PM11JC40	Soil			0.9	35.3	5.2	69	0.1	54.6	10.9	282	2.77	4.7	1.3	2.0	57	0.2	0.2	0.1	86	0.41	0.058	10
PM11JC41	Soil			0.8	25.7	6.0	60	0.3	45.6	7.7	238	2.05	2.5	3.3	1.3	53	0.2	<0.1	<0.1	50	0.48	0.024	5
PM11JC42	Soil			0.4	20.0	5.5	61	<0.1	41.1	9.2	177	2.14	2.4	2.3	1.3	43	0.3	0.1	<0.1	59	0.38	0.043	4
PM11JC43	Soil			0.2	12.9	6.1	41	0.2	30.2	4.9	108	1.55	1.4	1.2	0.9	26	<0.1	<0.1	0.1	38	0.17	0.099	3
PM11JC44	Soil			0.4	9.8	5.4	58	0.1	23.5	6.4	153	1.74	1.4	<0.5	1.4	15	<0.1	<0.1	0.1	41	0.13	0.246	3
PM11JC45	Soil			0.5	8.2	5.1	40	<0.1	23.3	4.5	86	1.33	0.9	3.3	0.9	11	<0.1	<0.1	<0.1	32	0.07	0.127	2

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CERTIFICATE OF ANALYSIS

VAN11003257.1

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	
PM11JC16	Soil	22	0.22	46	0.088	<1	1.89	0.020	0.02	<0.1	0.04	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11JC17	Soil	41	0.41	64	0.083	2	1.58	0.022	0.03	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11JC18	Soil	21	0.19	58	0.109	1	2.85	0.021	0.03	0.1	0.04	1.8	<0.1	<0.05	7	<0.5	<0.2
PM11JC19	Soil	22	0.19	96	0.100	<1	2.06	0.018	0.04	<0.1	0.03	1.5	<0.1	<0.05	7	<0.5	<0.2
PM11JC20	Soil	11	0.03	52	0.098	1	1.94	0.016	0.02	<0.1	0.05	1.2	<0.1	<0.05	7	<0.5	<0.2
PM11JC21	Soil	8	0.06	32	0.095	1	1.17	0.019	0.02	<0.1	0.03	0.7	<0.1	<0.05	6	<0.5	<0.2
PM11JC22	Soil	8	0.11	139	0.096	1	1.43	0.020	0.07	<0.1	0.02	1.0	<0.1	<0.05	6	<0.5	<0.2
PM11JC23	Soil	27	0.37	213	0.079	2	2.29	0.027	0.05	<0.1	0.06	2.7	<0.1	<0.05	6	<0.5	<0.2
PM11JC24	Soil	12	0.12	59	0.107	1	1.64	0.022	0.03	<0.1	0.02	1.1	<0.1	<0.05	6	<0.5	<0.2
PM11JC25	Soil	9	0.07	29	0.084	<1	1.18	0.019	0.03	<0.1	0.03	0.7	<0.1	<0.05	6	<0.5	<0.2
PM11JC26	Soil	7	0.09	26	0.085	<1	0.70	0.023	0.01	<0.1	0.01	0.6	<0.1	<0.05	5	<0.5	<0.2
PM11JC27	Soil	10	0.06	53	0.092	1	1.52	0.017	0.02	0.1	0.03	1.0	<0.1	<0.05	7	<0.5	<0.2
PM11JC28	Soil	16	0.22	147	0.084	1	1.87	0.033	0.05	<0.1	0.04	2.3	<0.1	<0.05	4	0.7	<0.2
PM11JC29	Soil	4	0.02	18	0.043	<1	0.19	0.017	0.01	<0.1	0.01	0.2	<0.1	<0.05	2	<0.5	<0.2
PM11JC30	Soil	7	0.04	38	0.069	<1	0.70	0.015	0.02	<0.1	0.03	0.6	<0.1	<0.05	4	<0.5	<0.2
PM11JC31	Soil	7	0.05	35	0.064	<1	0.62	0.019	0.02	<0.1	0.04	0.6	<0.1	<0.05	4	<0.5	<0.2
PM11JC32	Soil	12	0.06	70	0.108	2	2.24	0.018	0.03	0.1	0.03	1.1	<0.1	<0.05	8	<0.5	<0.2
PM11JC33	Soil	17	0.18	83	0.068	1	0.69	0.017	0.03	<0.1	0.02	0.9	<0.1	<0.05	5	<0.5	<0.2
PM11JC34	Soil	15	0.21	94	0.102	<1	1.76	0.017	0.04	<0.1	0.03	1.3	<0.1	<0.05	7	<0.5	<0.2
PM11JC35	Soil	14	0.17	106	0.100	2	2.18	0.019	0.04	<0.1	0.04	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11JC36	Soil	11	0.10	86	0.093	<1	1.54	0.016	0.03	<0.1	0.02	1.0	<0.1	<0.05	6	<0.5	<0.2
PM11JC37	Soil	11	0.17	60	0.095	1	1.36	0.032	0.08	<0.1	0.04	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11JC38	Soil	15	0.19	100	0.094	<1	1.84	0.016	0.04	<0.1	0.03	1.4	<0.1	<0.05	7	<0.5	<0.2
PM11JC39	Soil	25	0.41	128	0.110	<1	1.83	0.018	0.08	<0.1	0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
PM11JC40	Soil	52	0.91	234	0.150	2	2.15	0.024	0.25	<0.1	0.02	6.9	0.2	<0.05	6	<0.5	<0.2
PM11JC41	Soil	35	0.53	145	0.104	<1	2.10	0.037	0.08	<0.1	0.04	4.1	<0.1	<0.05	6	<0.5	<0.2
PM11JC42	Soil	40	0.61	154	0.121	<1	2.01	0.025	0.16	<0.1	0.02	3.2	0.1	<0.05	6	<0.5	<0.2
PM11JC43	Soil	22	0.22	126	0.095	<1	2.25	0.021	0.04	<0.1	0.02	1.7	<0.1	<0.05	8	<0.5	<0.2
PM11JC44	Soil	17	0.14	90	0.101	2	2.66	0.018	0.05	<0.1	0.04	1.8	<0.1	<0.05	7	<0.5	<0.2
PM11JC45	Soil	12	0.10	54	0.099	<1	2.27	0.018	0.03	0.1	0.02	0.9	<0.1	<0.05	7	<0.5	<0.2

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Project: PLACER MTN.
Report Date: August 03, 2011

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CERTIFICATE OF ANALYSIS

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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	
PM11JC46	Soil	0.6	6.4	4.7	42	<0.1	11.9	5.3	116	1.50	0.7	<0.5	0.8	10	<0.1	<0.1	<0.1	41	0.09	0.100	2
PM11JC47	Soil	0.8	13.5	5.7	59	<0.1	21.2	6.2	477	1.76	1.4	<0.5	1.3	14	<0.1	<0.1	0.1	41	0.10	0.094	3
PM11JC48	Soil	0.6	9.7	4.8	45	<0.1	14.6	5.0	173	1.35	1.2	2.0	1.2	12	<0.1	<0.1	0.1	38	0.08	0.084	3
PM11JC49	Soil	0.6	6.0	5.9	48	<0.1	9.0	3.6	213	1.39	0.9	<0.5	1.1	9	<0.1	<0.1	0.1	37	0.08	0.076	2
PM11JC50	Soil	0.6	12.2	6.3	40	<0.1	17.2	6.1	154	1.53	1.5	1.4	1.3	11	<0.1	<0.1	0.1	38	0.08	0.069	2



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VAN11003257.1

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
PM11JC46	Soil	13	0.12	44	0.089	<1	2.02	0.018	0.03	<0.1	0.04	1.0	<0.1	<0.05	7	<0.5	<0.2
PM11JC47	Soil	17	0.18	114	0.116	<1	2.90	0.021	0.05	<0.1	0.03	1.5	<0.1	<0.05	8	<0.5	<0.2
PM11JC48	Soil	15	0.15	78	0.104	1	2.07	0.021	0.06	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11JC49	Soil	9	0.10	59	0.113	<1	2.19	0.021	0.03	<0.1	0.04	1.0	<0.1	<0.05	7	<0.5	<0.2
PM11JC50	Soil	20	0.24	117	0.127	<1	2.82	0.019	0.04	0.1	0.03	1.4	<0.1	<0.05	8	<0.5	<0.2



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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	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																					
PM11RP268	Soil	0.4	13.4	4.0	37	<0.1	12.7	6.6	115	1.92	1.4	1.2	2.2	25	<0.1	<0.1	<0.1	56	0.21	0.070	5
REP PM11RP268	QC	0.3	13.6	3.8	37	<0.1	12.7	6.8	117	1.99	1.5	<0.5	2.2	25	<0.1	<0.1	<0.1	58	0.22	0.068	5
PM11RP281	Soil	1.0	13.0	7.2	34	<0.1	18.9	6.8	83	2.64	2.2	1.2	1.1	30	<0.1	<0.1	0.1	61	0.18	0.170	6
REP PM11RP281	QC	1.0	13.4	7.6	34	<0.1	19.5	6.7	85	2.68	2.0	0.8	1.1	30	<0.1	<0.1	0.1	62	0.17	0.169	6
PM11RP308	Soil	0.3	8.4	3.5	43	<0.1	20.7	5.3	163	1.26	0.9	1.2	0.8	14	<0.1	0.1	0.1	31	0.09	0.115	3
REP PM11RP308	QC	0.3	8.7	3.5	44	<0.1	21.4	5.3	158	1.28	0.9	1.8	0.8	15	<0.1	0.1	0.1	31	0.10	0.113	3
PM11RP327	Soil	<0.1	7.8	2.4	18	<0.1	8.2	4.3	148	0.95	0.6	1.0	0.4	22	<0.1	<0.1	<0.1	26	0.17	0.015	3
REP PM11RP327	QC	<0.1	7.9	2.3	18	<0.1	8.6	4.3	145	0.96	0.7	<0.5	0.4	22	<0.1	<0.1	<0.1	25	0.18	0.014	3
PM11RP332	Soil	0.4	14.0	4.5	40	<0.1	20.5	5.4	176	1.77	2.8	1.1	1.2	19	<0.1	<0.1	0.1	40	0.16	0.193	3
REP PM11RP332	QC	0.4	13.6	4.6	41	<0.1	21.2	5.5	170	1.74	2.8	<0.5	1.2	20	<0.1	<0.1	0.1	38	0.17	0.179	3
PM11MP08	Soil	0.3	45.7	5.1	32	0.5	12.4	5.4	386	1.56	0.8	15.3	1.6	45	<0.1	<0.1	0.2	41	0.29	0.030	10
REP PM11MP08	QC	0.2	47.0	5.2	32	0.5	12.3	5.6	400	1.60	0.7	3.5	1.7	47	<0.1	<0.1	0.1	41	0.30	0.034	10
PM11MP23	Soil	0.3	9.3	4.3	43	<0.1	13.4	5.3	315	1.57	<0.5	<0.5	0.9	29	<0.1	<0.1	0.1	52	0.16	0.027	3
REP PM11MP23	QC	0.3	9.8	4.5	46	<0.1	15.4	6.1	364	1.65	<0.5	<0.5	0.9	29	<0.1	<0.1	<0.1	58	0.18	0.028	3
PM11JC05	Soil	0.2	48.0	3.6	35	0.1	48.2	10.5	262	1.92	8.2	16.6	0.7	24	<0.1	<0.1	<0.1	58	0.36	0.016	4
REP PM11JC05	QC	0.2	47.9	3.7	36	0.1	47.0	10.7	259	1.90	8.0	1.0	0.8	22	<0.1	0.1	<0.1	62	0.35	0.018	4
PM11JC09	Soil	0.3	34.3	2.8	32	<0.1	23.1	7.2	151	1.60	3.1	1.1	0.7	14	<0.1	0.2	<0.1	44	0.17	0.024	3
REP PM11JC09	QC	0.4	35.2	2.8	32	<0.1	23.9	7.4	155	1.61	3.1	1.7	0.7	14	<0.1	0.1	<0.1	44	0.18	0.024	3
PM11JC25	Soil	0.2	3.1	5.1	22	<0.1	3.5	2.3	64	1.62	0.8	2.4	0.4	10	<0.1	<0.1	0.1	39	0.07	0.196	3
REP PM11JC25	QC	0.1	3.4	5.2	23	<0.1	3.6	2.2	66	1.60	0.9	0.6	0.4	10	<0.1	<0.1	0.1	39	0.07	0.193	3
Reference Materials																					
STD DS8	Standard	14.3	111.3	127.6	320	1.9	39.3	7.8	616	2.49	27.2	127.0	7.1	66	2.6	5.6	6.5	44	0.72	0.080	15
STD DS8	Standard	12.9	111.7	129.4	318	1.9	37.6	7.7	613	2.48	26.5	120.6	6.9	66	2.4	5.7	6.7	43	0.68	0.081	15
STD DS8	Standard	12.2	93.9	125.4	286	1.7	32.6	6.6	564	2.26	25.6	108.3	7.2	68	2.1	6.0	6.6	38	0.65	0.075	14
STD DS8	Standard	12.3	96.5	122.6	287	1.7	32.4	6.5	552	2.22	24.4	102.2	7.1	64	2.0	5.8	6.5	38	0.63	0.079	14
STD DS8	Standard	13.2	113.1	133.0	320	1.9	38.7	7.8	610	2.49	27.1	120.3	7.3	59	2.3	5.1	5.8	42	0.67	0.082	14
STD DS8	Standard	13.6	110.0	131.9	315	1.9	38.2	7.6	601	2.44	26.7	132.0	7.5	62	2.4	5.0	5.8	43	0.68	0.078	14
STD DS8	Standard	11.4	98.7	122.0	297	1.8	33.3	6.6	583	2.36	25.8	109.2	5.6	59	2.3	5.1	6.0	38	0.67	0.078	13



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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																	
PM11RP268	Soil	18	0.33	116	0.093	<1	1.65	0.018	0.03	<0.1	0.03	1.9	<0.1	<0.05	6	<0.5	<0.2
REP PM11RP268	QC	19	0.32	115	0.097	<1	1.62	0.019	0.03	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
PM11RP281	Soil	28	0.31	115	0.125	1	2.84	0.022	0.03	<0.1	0.05	2.3	<0.1	<0.05	12	<0.5	<0.2
REP PM11RP281	QC	28	0.31	114	0.128	1	2.87	0.022	0.03	<0.1	0.04	2.1	<0.1	<0.05	12	<0.5	<0.2
PM11RP308	Soil	25	0.18	87	0.067	<1	1.55	0.016	0.03	<0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
REP PM11RP308	QC	25	0.19	89	0.069	<1	1.59	0.017	0.03	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11RP327	Soil	19	0.19	66	0.053	<1	1.04	0.024	0.03	<0.1	<0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
REP PM11RP327	QC	19	0.20	67	0.053	<1	1.04	0.024	0.03	<0.1	<0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11RP332	Soil	21	0.19	123	0.069	<1	2.08	0.016	0.05	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
REP PM11RP332	QC	21	0.19	126	0.070	<1	2.07	0.017	0.05	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
PM11MP08	Soil	15	0.32	130	0.099	<1	1.74	0.022	0.11	<0.1	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2
REP PM11MP08	QC	16	0.33	129	0.105	<1	1.79	0.022	0.11	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11MP23	Soil	19	0.24	73	0.090	2	1.59	0.025	0.06	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
REP PM11MP23	QC	21	0.26	76	0.088	1	1.70	0.025	0.06	<0.1	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
PM11JC05	Soil	94	0.79	99	0.099	<1	1.68	0.029	0.08	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
REP PM11JC05	QC	98	0.78	100	0.098	2	1.71	0.027	0.07	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
PM11JC09	Soil	46	0.48	82	0.074	1	1.26	0.018	0.03	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
REP PM11JC09	QC	44	0.48	82	0.074	<1	1.27	0.020	0.03	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11JC25	Soil	9	0.07	29	0.084	<1	1.18	0.019	0.03	<0.1	0.03	0.7	<0.1	<0.05	6	<0.5	<0.2
REP PM11JC25	QC	9	0.07	29	0.083	1	1.19	0.019	0.03	<0.1	0.03	0.7	<0.1	<0.05	7	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	120	0.63	274	0.120	2	0.94	0.090	0.42	2.6	0.23	2.3	5.4	0.18	5	4.8	5.2
STD DS8	Standard	120	0.61	268	0.119	2	0.92	0.093	0.42	2.7	0.22	2.1	5.5	0.18	5	6.2	5.1
STD DS8	Standard	101	0.58	261	0.110	3	0.86	0.084	0.39	2.8	0.17	1.9	5.1	0.16	4	4.7	4.7
STD DS8	Standard	102	0.58	252	0.104	2	0.84	0.082	0.39	2.8	0.19	1.8	5.0	0.19	4	4.5	4.2
STD DS8	Standard	118	0.63	287	0.101	3	0.92	0.101	0.44	3.0	0.21	2.5	5.4	0.16	5	5.4	4.9
STD DS8	Standard	118	0.60	282	0.106	3	0.90	0.101	0.44	2.9	0.22	2.5	5.4	0.14	5	5.0	5.1
STD DS8	Standard	103	0.59	279	0.097	2	0.85	0.086	0.41	2.8	0.17	2.1	5.2	0.10	4	5.8	5.0

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



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		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	11.7	98.1	114.4	297	1.8	33.9	6.7	575	2.33	25.0	103.7	5.6	58	2.2	5.0	5.8	39	0.66	0.073	14
STD DS8	Standard	13.0	112.6	121.2	311	1.8	38.6	8.0	599	2.43	27.6	103.8	6.4	67	2.5	5.8	6.6	42	0.66	0.079	13
STD DS8	Standard	13.2	111.5	120.3	312	1.8	38.8	7.7	602	2.49	26.2	106.2	6.5	65	2.6	5.6	6.6	42	0.64	0.083	13
STD DS8	Standard	13.9	111.0	125.9	310	1.8	37.7	7.5	619	2.40	26.1	120.1	7.7	68	2.4	5.6	6.4	50	0.69	0.076	15
STD DS8	Standard	13.5	108.5	125.8	306	1.7	37.5	7.4	580	2.41	26.8	108.9	7.4	69	2.2	5.4	6.3	51	0.71	0.080	16
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: PLACER MTN.
 Report Date: August 03, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

VAN11003257.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	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	104	0.59	278	0.100	2	0.87	0.083	0.39	2.8	0.19	2.0	5.0	0.10	4	5.1	4.6
STD DS8	Standard	117	0.60	267	0.124	3	0.88	0.085	0.41	2.9	0.20	2.1	5.4	0.18	5	4.9	5.2
STD DS8	Standard	120	0.61	270	0.119	3	0.88	0.081	0.42	2.9	0.20	2.0	5.2	0.17	5	4.8	4.6
STD DS8	Standard	119	0.56	285	0.120	3	0.93	0.097	0.44	2.9	0.20	2.2	5.3	0.09	4	4.9	4.8
STD DS8	Standard	115	0.55	282	0.122	1	0.93	0.094	0.42	3.0	0.21	2.1	5.1	0.10	5	4.1	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



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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: July 18, 2011
Report Date: August 04, 2011
Page: 1 of 10

CERTIFICATE OF ANALYSIS

VAN11003258.1

CLIENT JOB INFORMATION

Project: PLACER MTN.
Shipment ID: Shipment #3
P.O. Number
Number of Samples: 247

SAMPLE DISPOSAL

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

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

Invoice To: Mammoth Geological Ltd.
2446 Bidston Road
Bill 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 (247), SS80 (242), 1DX2 (245) 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: PLACER MTN.
 Report Date: August 04, 2011

Page: 2 of 10 Part 1

CERTIFICATE OF ANALYSIS

VAN11003258.1

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	
PM11JF311	Soil		0.2	7.6	5.4	18	<0.1	8.8	3.8	132	1.14	0.9	<0.5	0.6	48	<0.1	<0.1	0.1	27	0.29	0.025	7
PM11JF312	Soil		0.2	7.3	4.1	22	<0.1	6.9	3.6	101	1.14	0.9	1.5	0.7	43	<0.1	<0.1	<0.1	31	0.27	0.030	6
PM11JF313	Soil		0.1	4.7	3.8	13	<0.1	6.5	2.7	54	0.87	1.1	1.1	0.4	31	<0.1	<0.1	<0.1	20	0.16	0.021	6
PM11JF314	Soil		0.2	13.9	4.1	27	<0.1	17.8	5.3	261	1.48	1.6	0.7	1.1	73	<0.1	<0.1	<0.1	39	0.45	0.045	18
PM11JF315	Soil		0.3	9.7	6.1	25	<0.1	12.5	7.0	246	1.35	1.6	<0.5	0.6	38	<0.1	<0.1	<0.1	40	0.18	0.025	9
PM11JF316	Soil		0.3	6.8	5.5	30	<0.1	9.0	3.2	585	0.73	1.2	1.1	0.5	44	<0.1	<0.1	<0.1	22	0.22	0.029	7
PM11JF317	Soil		0.3	5.1	5.4	22	<0.1	6.9	2.5	282	0.63	1.1	0.7	0.4	33	<0.1	<0.1	<0.1	19	0.17	0.028	5
PM11JF318	Soil		0.4	4.9	5.0	20	<0.1	6.1	1.9	36	0.77	1.4	<0.5	0.7	10	<0.1	<0.1	0.1	21	0.05	0.071	4
PM11JF319	Soil		0.8	7.0	5.8	23	<0.1	6.9	3.3	56	1.59	2.7	1.0	1.4	13	<0.1	<0.1	0.1	36	0.08	0.221	2
PM11JF320	Soil		0.8	6.7	5.7	21	<0.1	6.7	2.9	52	1.58	2.6	<0.5	1.3	17	<0.1	<0.1	0.1	37	0.10	0.204	2
PM11JF321	Soil		0.8	10.4	4.3	29	<0.1	14.0	5.4	82	1.92	2.3	<0.5	1.2	12	<0.1	<0.1	<0.1	50	0.09	0.129	3
PM11JF322	Soil		0.9	11.1	4.6	30	<0.1	14.9	6.0	81	1.97	2.5	0.9	1.7	11	<0.1	<0.1	<0.1	49	0.09	0.132	3
PM11JF323	Soil		0.8	12.8	4.8	32	<0.1	16.7	6.6	87	2.03	2.9	<0.5	1.7	13	<0.1	<0.1	<0.1	50	0.10	0.150	3
PM11JF324	Soil		0.9	10.1	4.1	28	<0.1	14.0	5.6	78	1.90	2.3	<0.5	1.4	13	<0.1	<0.1	<0.1	49	0.09	0.116	3
PM11JF325	Soil		0.3	19.6	8.2	26	0.1	14.9	5.5	99	1.44	1.9	1.4	0.9	48	0.2	<0.1	0.2	40	0.23	0.042	13
PM11JF326	Soil		0.1	4.0	3.7	12	<0.1	3.8	2.0	42	0.62	0.5	1.2	0.4	11	<0.1	<0.1	<0.1	18	0.08	0.009	2
PM11JF327	Soil		0.2	6.1	4.7	15	<0.1	5.8	2.9	57	0.87	0.5	1.4	0.6	17	<0.1	<0.1	<0.1	24	0.11	0.010	3
PM11JF328	Soil		0.2	8.2	3.9	23	0.1	8.8	4.2	77	1.26	0.8	<0.5	0.5	26	<0.1	<0.1	<0.1	35	0.25	0.020	4
PM11JF329	Soil		0.2	9.5	4.1	27	<0.1	10.3	5.1	98	1.41	0.8	<0.5	0.6	26	<0.1	<0.1	<0.1	39	0.26	0.022	4
PM11JF330	Soil		<0.1	3.6	3.2	16	<0.1	3.8	2.3	55	0.94	<0.5	<0.5	0.3	15	<0.1	<0.1	<0.1	26	0.15	0.008	2
PM11JF331	Soil		0.1	6.1	3.1	20	<0.1	5.9	3.2	81	1.28	<0.5	<0.5	0.5	23	<0.1	<0.1	<0.1	35	0.21	0.012	3
PM11JF332	Soil		0.1	4.5	2.6	16	<0.1	3.8	2.5	60	1.00	0.6	<0.5	0.4	16	<0.1	<0.1	<0.1	28	0.15	0.008	3
PM11JF333	Soil		0.2	13.8	3.5	28	<0.1	13.9	6.4	239	1.89	1.1	<0.5	0.7	29	<0.1	<0.1	<0.1	49	0.36	0.013	5
PM11JF334	Soil		0.2	13.3	3.2	29	<0.1	12.6	5.9	226	1.89	0.9	0.6	0.8	28	<0.1	<0.1	<0.1	48	0.33	0.012	5
PM11JF335	Soil		0.4	25.4	5.1	36	<0.1	22.9	6.4	301	2.17	1.5	0.6	1.2	36	0.1	<0.1	<0.1	50	0.52	0.019	15
PM11JF336	Soil		0.5	16.5	4.1	27	0.1	17.0	5.0	149	2.18	1.8	<0.5	1.3	31	<0.1	<0.1	<0.1	46	0.45	0.015	5
PM11JF337	Soil		0.5	17.2	4.4	27	0.1	17.0	4.9	139	2.13	1.8	<0.5	1.2	32	<0.1	<0.1	<0.1	45	0.47	0.016	5
PM11JF338	Soil		0.3	16.0	4.2	32	<0.1	24.1	6.3	148	1.97	1.7	<0.5	0.9	31	<0.1	0.1	<0.1	53	0.33	0.017	5
PM11JF339	Soil		0.4	18.3	4.0	34	<0.1	25.5	6.7	154	2.10	1.9	<0.5	1.0	33	<0.1	0.1	<0.1	56	0.34	0.018	5
PM11JF340	Soil		0.7	21.9	4.7	32	0.2	18.3	6.8	294	1.62	2.7	0.9	0.6	30	<0.1	0.1	<0.1	45	0.32	0.053	3

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



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Project: PLACER MTN.
 Report Date: August 04, 2011

Page: 2 of 10 Part 2

CERTIFICATE OF ANALYSIS

VAN11003258.1

Method Analyte Unit MDL	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		
PM11JF311	Soil	14	0.23	113	0.067	1	1.64	0.025	0.06	<0.1	0.01	1.6	<0.1	<0.05	6	0.5	<0.2	
PM11JF312	Soil	14	0.27	87	0.076	2	1.03	0.019	0.05	<0.1	0.03	1.3	<0.1	<0.05	4	<0.5	<0.2	
PM11JF313	Soil	12	0.16	72	0.058	2	1.04	0.020	0.05	<0.1	<0.01	1.1	<0.1	<0.05	4	<0.5	<0.2	
PM11JF314	Soil	30	0.35	150	0.069	<1	1.46	0.025	0.09	<0.1	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2	
PM11JF315	Soil	17	0.27	118	0.075	<1	1.67	0.022	0.04	<0.1	<0.01	1.6	<0.1	<0.05	6	<0.5	<0.2	
PM11JF316	Soil	12	0.15	100	0.062	<1	1.13	0.019	0.04	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2	
PM11JF317	Soil	9	0.11	84	0.062	1	0.97	0.028	0.03	<0.1	0.01	1.1	<0.1	<0.05	5	<0.5	<0.2	
PM11JF318	Soil	7	0.07	53	0.060	<1	0.94	0.012	0.04	<0.1	0.02	0.8	<0.1	<0.05	5	0.6	<0.2	
PM11JF319	Soil	10	0.11	61	0.097	<1	1.94	0.012	0.03	<0.1	0.03	1.2	<0.1	<0.05	8	<0.5	<0.2	
PM11JF320	Soil	10	0.10	61	0.095	<1	2.11	0.012	0.03	0.1	0.04	1.3	<0.1	<0.05	8	<0.5	<0.2	
PM11JF321	Soil	16	0.18	45	0.087	<1	2.10	0.015	0.03	<0.1	0.02	1.5	<0.1	<0.05	7	<0.5	<0.2	
PM11JF322	Soil	16	0.18	50	0.095	<1	2.52	0.016	0.03	<0.1	0.02	1.9	<0.1	<0.05	7	0.7	<0.2	
PM11JF323	Soil	18	0.20	62	0.102	<1	2.82	0.016	0.03	<0.1	0.03	1.9	<0.1	<0.05	8	<0.5	<0.2	
PM11JF324	Soil	17	0.17	46	0.092	1	2.41	0.014	0.03	<0.1	0.04	1.8	<0.1	<0.05	7	<0.5	<0.2	
PM11JF325	Soil	41	0.27	109	0.081	2	1.57	0.016	0.05	<0.1	0.04	2.7	<0.1	<0.05	6	<0.5	<0.2	
PM11JF326	Soil	6	0.09	31	0.065	<1	0.73	0.018	0.03	<0.1	0.01	0.7	<0.1	<0.05	4	<0.5	<0.2	
PM11JF327	Soil	10	0.16	50	0.075	<1	1.03	0.020	0.04	<0.1	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2	
PM11JF328	Soil	14	0.23	56	0.085	<1	1.11	0.018	0.03	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2	
PM11JF329	Soil	16	0.28	64	0.085	<1	1.20	0.019	0.04	<0.1	0.01	1.5	<0.1	<0.05	5	<0.5	<0.2	
PM11JF330	Soil	7	0.10	27	0.063	<1	0.59	0.019	0.02	<0.1	<0.01	0.7	<0.1	<0.05	4	<0.5	<0.2	
PM11JF331	Soil	10	0.18	51	0.075	<1	0.92	0.026	0.03	<0.1	0.01	1.0	<0.1	<0.05	5	<0.5	<0.2	
PM11JF332	Soil	6	0.13	37	0.063	<1	0.64	0.027	0.02	<0.1	<0.01	0.9	<0.1	<0.05	4	<0.5	<0.2	
PM11JF333	Soil	25	0.37	99	0.103	<1	1.49	0.025	0.06	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2	
PM11JF334	Soil	22	0.31	98	0.100	<1	1.44	0.031	0.06	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2	
PM11JF335	Soil	27	0.38	161	0.097	<1	2.07	0.021	0.06	<0.1	0.03	3.7	<0.1	<0.05	6	<0.5	<0.2	
PM11JF336	Soil	21	0.29	154	0.091	<1	1.99	0.033	0.06	<0.1	0.02	3.5	<0.1	<0.05	6	<0.5	<0.2	
PM11JF337	Soil	21	0.30	159	0.090	<1	1.97	0.031	0.06	<0.1	0.02	3.3	<0.1	<0.05	6	0.6	<0.2	
PM11JF338	Soil	26	0.40	127	0.105	<1	1.71	0.022	0.09	<0.1	<0.01	2.8	<0.1	<0.05	6	<0.5	<0.2	
PM11JF339	Soil	29	0.47	136	0.111	1	1.78	0.023	0.11	<0.1	<0.01	3.0	<0.1	<0.05	6	<0.5	<0.2	
PM11JF340	Soil	28	0.33	131	0.085	<1	1.55	0.019	0.07	<0.1	0.04	2.0	<0.1	<0.05	6	<0.5	<0.2	

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Project: PLACER MTN.
 Report Date: August 04, 2011

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CERTIFICATE OF ANALYSIS

VAN11003258.1

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	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1
PM11JF341	Soil		0.7	22.5	4.2	31	0.1	19.4	7.0	212	1.61	2.5	<0.5	0.6	27	<0.1	0.2	<0.1	46	0.29	0.044	3
PM11JF342	Soil		0.3	12.0	4.6	28	0.2	10.7	3.7	178	1.34	1.7	<0.5	0.6	15	<0.1	<0.1	<0.1	33	0.13	0.128	2
PM11JF343	Soil		0.8	12.5	5.1	27	0.4	10.2	5.4	141	1.48	2.2	<0.5	0.6	16	<0.1	<0.1	0.1	35	0.20	0.132	2
PM11JF344	Soil		0.6	13.9	4.8	26	0.3	10.7	5.4	154	1.45	2.0	<0.5	0.6	17	<0.1	<0.1	<0.1	36	0.23	0.116	2
PM11JF345	Soil		0.7	12.1	5.0	26	0.3	10.6	5.1	145	1.56	2.1	0.9	0.8	17	<0.1	<0.1	0.1	36	0.20	0.150	2
PM11JF346	Soil		0.4	18.2	4.5	29	0.2	12.2	5.3	150	1.40	3.6	1.8	0.4	13	<0.1	<0.1	0.2	37	0.15	0.080	1
PM11JF347	Soil		0.5	24.4	4.0	31	0.1	24.8	8.4	114	1.70	6.1	0.8	0.4	11	<0.1	0.1	0.1	50	0.17	0.036	2
PM11JF348	Soil		0.4	24.1	3.8	30	0.1	24.7	8.2	106	1.68	5.5	0.9	0.5	10	<0.1	0.1	<0.1	47	0.14	0.037	2
PM11JF349	Soil		0.5	23.5	3.7	28	0.1	22.5	7.1	101	1.55	4.5	0.8	0.4	9	<0.1	0.1	0.1	47	0.14	0.036	2
PM11JF350	Soil		0.5	22.8	3.9	27	0.1	19.5	6.8	96	1.51	4.7	1.2	0.5	9	<0.1	0.1	<0.1	41	0.13	0.042	2
PM11JF351	Soil		0.3	3.9	3.4	19	<0.1	3.9	2.6	77	1.31	2.3	0.9	0.3	8	<0.1	<0.1	0.1	39	0.10	0.038	1
PM11JF352	Soil		0.5	14.5	3.5	26	0.1	18.9	6.4	80	1.55	4.4	1.8	0.6	12	<0.1	<0.1	<0.1	40	0.14	0.087	2
PM11JF353	Soil		0.4	16.3	3.8	29	0.1	16.7	5.7	123	1.52	4.1	0.5	0.5	10	<0.1	<0.1	<0.1	43	0.16	0.046	2
PM11JF354	Soil		0.4	23.9	3.5	32	0.1	21.8	7.1	129	1.61	5.5	2.3	0.7	12	<0.1	0.1	<0.1	46	0.19	0.052	3
PM11JF355	Soil		0.6	25.2	5.7	31	0.2	16.5	5.9	154	1.69	4.6	<0.5	1.2	9	0.1	0.1	0.1	38	0.11	0.083	3
PM11JF356	Soil		0.4	20.3	3.3	25	<0.1	18.4	5.9	106	1.48	3.1	<0.5	0.8	11	<0.1	<0.1	<0.1	40	0.15	0.041	4
PM11JF357	Soil		0.5	18.3	4.8	30	<0.1	19.5	6.4	248	1.50	3.0	<0.5	1.5	10	<0.1	0.1	<0.1	32	0.10	0.103	4
PM11JF358	Soil		0.5	34.3	4.8	37	0.1	19.4	7.9	320	1.86	3.3	0.6	0.7	10	<0.1	0.1	<0.1	48	0.14	0.067	1
PM11JF359	Soil		0.6	53.3	5.5	43	0.2	23.0	9.7	345	2.29	3.8	1.3	0.8	11	<0.1	0.1	0.1	54	0.16	0.079	2
PM11JF360	Soil		0.5	18.8	4.2	38	0.1	22.0	8.4	123	1.75	3.2	0.9	0.7	10	<0.1	0.1	0.1	45	0.13	0.049	2
PMS13	Rock Pulp		17.3	60.2	16.9	17	0.1	15.7	2.5	105	4.18	440.6	214.6	0.8	26	0.3	23.9	0.2	9	0.99	0.006	2
PM11JF361	Soil		0.6	23.1	5.3	36	0.2	24.7	7.6	239	1.69	5.1	<0.5	0.8	11	<0.1	<0.1	0.1	42	0.14	0.048	2
PM11JF362	Soil		0.3	5.9	2.8	25	0.1	7.7	4.1	96	1.59	1.8	1.7	0.4	11	<0.1	<0.1	<0.1	46	0.13	0.043	<1
PM11JF362D	Soil		0.3	4.5	3.1	23	<0.1	7.9	4.2	106	1.48	1.8	2.6	0.4	10	<0.1	<0.1	<0.1	44	0.11	0.050	1
PM11JF363	Soil		0.3	19.6	3.7	33	0.1	27.0	7.5	209	1.72	2.4	1.7	0.8	20	<0.1	0.1	<0.1	46	0.27	0.077	3
PM11JF364	Soil		0.5	12.5	4.9	25	<0.1	20.2	6.1	99	1.51	3.1	<0.5	0.7	8	<0.1	0.1	<0.1	38	0.11	0.043	2
PM11JF365	Soil		0.3	24.0	5.1	27	0.1	28.5	6.5	144	1.63	2.5	1.1	0.6	17	<0.1	<0.1	<0.1	38	0.26	0.036	3
PM11JF366	Soil		0.3	30.3	6.1	33	0.2	32.4	8.6	92	1.70	3.1	1.1	0.8	14	<0.1	<0.1	<0.1	39	0.17	0.035	2
PM11JF367	Soil		0.3	42.6	4.4	29	0.1	34.7	7.3	182	1.78	2.9	0.7	0.6	21	<0.1	<0.1	<0.1	46	0.30	0.027	5
PM11JF368	Soil		0.4	7.3	3.7	21	<0.1	8.3	3.9	72	1.57	2.3	1.5	0.7	13	<0.1	<0.1	<0.1	41	0.12	0.150	1

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Project: PLACER MTN.
 Report Date: August 04, 2011

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CERTIFICATE OF ANALYSIS

VAN11003258.1

Method Analyte	Unit	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
MDL		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	
PM11JF341	Soil	30	0.37	121	0.082	1	1.45	0.016	0.08	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11JF342	Soil	13	0.12	94	0.083	<1	1.46	0.020	0.03	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
PM11JF343	Soil	13	0.14	73	0.081	<1	1.79	0.024	0.04	<0.1	0.04	1.3	<0.1	<0.05	6	<0.5	<0.2
PM11JF344	Soil	14	0.16	77	0.080	1	1.70	0.019	0.04	<0.1	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2
PM11JF345	Soil	13	0.13	81	0.085	<1	1.98	0.019	0.04	<0.1	0.05	1.3	<0.1	<0.05	6	<0.5	<0.2
PM11JF346	Soil	18	0.21	68	0.078	2	1.34	0.017	0.04	<0.1	0.05	1.3	<0.1	0.10	5	<0.5	<0.2
PM11JF347	Soil	33	0.38	86	0.098	2	1.86	0.015	0.04	<0.1	0.03	1.8	<0.1	0.06	6	<0.5	<0.2
PM11JF348	Soil	30	0.35	84	0.094	2	1.90	0.016	0.04	<0.1	0.03	1.5	<0.1	0.05	6	<0.5	<0.2
PM11JF349	Soil	28	0.34	80	0.086	2	1.73	0.015	0.04	<0.1	0.03	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11JF350	Soil	26	0.29	76	0.084	2	1.65	0.017	0.03	<0.1	0.03	1.8	<0.1	<0.05	5	<0.5	<0.2
PM11JF351	Soil	10	0.07	21	0.070	2	0.74	0.013	0.01	<0.1	0.03	0.9	<0.1	<0.05	5	<0.5	<0.2
PM11JF352	Soil	23	0.21	64	0.078	2	1.92	0.016	0.02	0.1	0.05	2.0	<0.1	<0.05	6	<0.5	<0.2
PM11JF353	Soil	22	0.21	50	0.075	2	1.43	0.022	0.03	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11JF354	Soil	28	0.26	65	0.079	1	1.79	0.019	0.03	<0.1	0.03	2.0	<0.1	<0.05	5	<0.5	<0.2
PM11JF355	Soil	18	0.19	63	0.098	2	2.65	0.016	0.03	0.1	0.04	1.6	<0.1	<0.05	7	<0.5	<0.2
PM11JF356	Soil	27	0.27	71	0.078	1	1.65	0.021	0.03	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11JF357	Soil	18	0.17	111	0.101	<1	2.62	0.020	0.03	<0.1	0.04	2.1	<0.1	<0.05	6	<0.5	<0.2
PM11JF358	Soil	19	0.26	56	0.095	1	2.01	0.016	0.03	<0.1	0.03	1.5	<0.1	<0.05	6	0.5	<0.2
PM11JF359	Soil	25	0.33	71	0.103	2	2.43	0.017	0.04	<0.1	0.03	1.9	<0.1	<0.05	7	<0.5	<0.2
PM11JF360	Soil	28	0.31	90	0.090	2	2.07	0.018	0.03	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PMS13	Rock Pulp	22	0.02	872	0.010	1	0.16	0.006	0.07	2.5	3.11	0.7	11.2	0.17	<1	2.2	<0.2
PM11JF361	Soil	23	0.24	72	0.100	2	2.23	0.018	0.04	<0.1	0.02	1.7	0.1	<0.05	6	<0.5	<0.2
PM11JF362	Soil	9	0.08	30	0.081	1	1.14	0.022	0.02	<0.1	0.03	1.1	<0.1	<0.05	5	<0.5	<0.2
PM11JF362D	Soil	10	0.07	34	0.079	2	1.12	0.019	0.02	<0.1	0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
PM11JF363	Soil	33	0.34	93	0.082	<1	1.66	0.019	0.06	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11JF364	Soil	22	0.22	54	0.086	1	1.69	0.021	0.04	<0.1	0.03	1.5	<0.1	<0.05	6	0.9	<0.2
PM11JF365	Soil	33	0.25	104	0.084	<1	2.11	0.021	0.05	<0.1	0.02	1.7	<0.1	<0.05	7	<0.5	<0.2
PM11JF366	Soil	34	0.31	132	0.094	<1	2.42	0.018	0.04	<0.1	0.02	1.7	<0.1	<0.05	7	<0.5	<0.2
PM11JF367	Soil	45	0.42	81	0.076	2	1.75	0.023	0.05	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11JF368	Soil	15	0.08	47	0.084	1	1.95	0.019	0.02	0.1	0.02	1.4	<0.1	<0.05	6	0.7	<0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	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	
PM11JF369	Soil		0.2	7.8	3.0	23	<0.1	7.9	4.0	68	1.51	1.8	1.2	0.6	7	<0.1	<0.1	0.1	35	0.08	0.176	2
PM11JF370	Soil		0.5	9.2	3.7	30	<0.1	19.7	6.9	219	1.57	1.9	1.1	0.7	13	<0.1	<0.1	<0.1	41	0.13	0.116	2
PM11JF371	Soil		0.2	9.2	3.7	24	<0.1	14.8	5.3	127	1.48	2.2	<0.5	0.6	10	<0.1	<0.1	<0.1	39	0.12	0.100	2
PM11JF372	Soil		0.4	29.8	3.0	33	<0.1	26.4	8.1	148	1.88	3.5	2.2	0.9	26	<0.1	0.2	<0.1	51	0.24	0.025	5
PM11JF373	Soil		0.3	7.6	4.3	19	0.1	12.5	4.8	129	1.36	2.0	<0.5	0.5	9	<0.1	<0.1	<0.1	35	0.13	0.093	2
PM11JF374	Soil		0.6	24.6	4.3	41	<0.1	28.0	9.6	272	2.10	3.4	<0.5	1.0	14	<0.1	0.2	<0.1	56	0.18	0.063	3
PM11JF375	Soil		0.5	26.2	2.6	29	<0.1	29.7	9.1	154	1.96	3.8	<0.5	0.7	15	<0.1	0.2	<0.1	54	0.19	0.060	3
PM11JF376	Soil		0.2	19.2	3.9	25	<0.1	22.7	7.7	119	1.70	1.6	1.4	0.7	16	<0.1	<0.1	<0.1	43	0.20	0.037	3
PM11JF377	Soil		0.2	22.6	2.0	26	<0.1	23.8	6.8	141	1.71	2.0	1.4	0.8	17	<0.1	0.1	<0.1	49	0.26	0.009	3
PM11JF378	Soil		0.1	20.1	4.4	22	0.1	18.3	5.3	212	1.43	1.6	<0.5	0.5	18	<0.1	0.1	<0.1	37	0.31	0.020	5
PM11JF379	Soil		0.2	7.9	4.8	19	<0.1	9.5	3.4	52	1.13	0.6	1.1	0.5	23	<0.1	<0.1	0.1	30	0.10	0.021	3
PM11JF380	Soil		0.6	9.1	5.6	29	<0.1	13.7	4.8	68	1.70	2.3	2.9	1.5	12	<0.1	<0.1	0.1	42	0.06	0.147	5
PM11JF381	Soil		0.2	4.3	5.4	13	<0.1	3.1	1.2	20	0.86	1.3	1.3	0.7	8	<0.1	<0.1	0.2	23	0.03	0.108	3
PM11JF382	Soil		0.5	10.3	4.5	26	<0.1	18.4	5.4	83	1.64	2.1	0.8	1.4	35	<0.1	<0.1	0.1	44	0.19	0.089	5
PM11JF383	Soil		0.4	9.0	4.5	25	<0.1	15.0	5.1	79	1.53	1.9	2.5	1.3	31	<0.1	<0.1	0.1	42	0.15	0.086	5
PM11JF384	Soil		0.5	4.1	5.3	18	<0.1	5.2	2.5	63	1.65	2.2	1.5	1.0	8	<0.1	<0.1	0.1	48	0.06	0.134	2
PM11JF385	Soil		0.4	6.3	5.5	24	<0.1	10.2	3.1	55	1.69	2.0	1.0	1.2	9	<0.1	<0.1	0.1	38	0.06	0.225	3
PM11JF386	Soil		0.2	2.4	4.2	17	<0.1	2.7	1.6	56	0.82	1.3	2.2	0.7	8	<0.1	<0.1	0.1	24	0.05	0.128	1
PM11JF387	Soil		0.2	3.9	4.7	18	<0.1	4.8	2.2	32	1.58	2.4	<0.5	1.7	20	<0.1	<0.1	0.1	33	0.12	0.322	2
PM11JF388	Soil		0.2	3.9	5.0	19	<0.1	5.2	2.2	37	1.66	2.1	<0.5	1.5	15	<0.1	<0.1	0.1	36	0.10	0.298	2
PM11JF389	Soil		0.3	3.5	5.3	15	<0.1	5.5	2.3	167	1.35	1.6	0.9	0.8	15	<0.1	<0.1	0.1	31	0.10	0.214	3
PM11JF390	Soil		0.3	5.6	5.6	20	<0.1	6.5	2.5	48	1.69	2.3	0.7	1.7	13	<0.1	<0.1	0.2	35	0.09	0.365	5
PM11JF391	Soil		0.3	7.6	5.7	24	<0.1	9.9	3.5	63	1.70	2.1	1.7	1.7	14	<0.1	<0.1	0.1	37	0.10	0.356	6
PM11JF392	Soil		<0.1	3.4	2.9	15	<0.1	2.4	1.9	52	0.92	<0.5	0.8	0.5	27	<0.1	<0.1	<0.1	23	0.12	0.210	2
PM11JF393	Soil		0.2	4.4	5.3	21	<0.1	7.5	2.7	58	1.43	1.3	0.8	1.1	22	<0.1	<0.1	0.1	26	0.14	0.314	5
PM11JF394	Soil		0.3	8.7	5.9	36	<0.1	11.5	3.7	61	1.49	1.2	<0.5	1.3	9	<0.1	<0.1	0.1	29	0.06	0.269	2
PM11JF395	Soil		0.1	9.4	6.0	34	<0.1	13.4	4.5	68	1.20	1.3	<0.5	0.9	14	<0.1	<0.1	0.2	32	0.08	0.072	5
PM11JF396	Soil		0.3	4.7	4.5	31	<0.1	5.4	2.7	52	1.27	1.2	<0.5	0.8	8	<0.1	<0.1	<0.1	31	0.08	0.164	2
PM11JF397	Soil		0.4	5.9	4.1	36	<0.1	8.2	3.7	66	1.47	1.9	<0.5	1.2	10	<0.1	<0.1	0.1	35	0.09	0.242	2
PM11JF398	Soil		0.4	9.8	4.2	32	<0.1	11.9	6.0	107	1.86	1.7	<0.5	1.0	12	<0.1	<0.1	<0.1	50	0.13	0.099	3

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Project: PLACER MTN.
 Report Date: August 04, 2011

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CERTIFICATE OF ANALYSIS

VAN11003258.1

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	
PM11JF369	Soil			22	0.12	46	0.070	1	1.33	0.018	0.02	<0.1	0.03	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11JF370	Soil			22	0.19	70	0.075	1	1.69	0.020	0.03	<0.1	0.02	1.6	<0.1	<0.05	5	0.6	<0.2
PM11JF371	Soil			26	0.19	61	0.064	1	1.39	0.018	0.03	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11JF372	Soil			48	0.49	154	0.085	1	1.54	0.031	0.05	<0.1	0.01	2.9	<0.1	<0.05	4	0.8	<0.2
PM11JF373	Soil			25	0.19	59	0.062	<1	1.25	0.015	0.03	<0.1	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11JF374	Soil			50	0.48	107	0.082	1	1.97	0.019	0.04	<0.1	0.01	2.6	<0.1	<0.05	6	<0.5	<0.2
PM11JF375	Soil			53	0.49	173	0.068	<1	1.65	0.022	0.04	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
PM11JF376	Soil			37	0.37	145	0.068	<1	1.67	0.019	0.04	<0.1	<0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11JF377	Soil			57	0.59	89	0.076	<1	1.15	0.025	0.03	<0.1	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
PM11JF378	Soil			29	0.25	98	0.059	<1	1.33	0.017	0.04	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
PM11JF379	Soil			18	0.12	87	0.077	2	1.04	0.019	0.02	<0.1	0.02	1.0	<0.1	0.05	5	<0.5	<0.2
PM11JF380	Soil			16	0.13	52	0.111	<1	2.75	0.018	0.04	<0.1	0.04	1.8	<0.1	<0.05	7	<0.5	<0.2
PM11JF381	Soil			7	0.03	37	0.063	<1	1.28	0.014	0.01	<0.1	0.03	0.9	<0.1	<0.05	6	<0.5	<0.2
PM11JF382	Soil			23	0.18	107	0.087	3	1.81	0.030	0.05	<0.1	0.04	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11JF383	Soil			20	0.15	97	0.083	<1	1.64	0.016	0.05	<0.1	0.03	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11JF384	Soil			8	0.08	40	0.110	1	1.43	0.014	0.03	<0.1	0.03	0.9	<0.1	<0.05	8	<0.5	<0.2
PM11JF385	Soil			13	0.10	47	0.094	1	2.33	0.013	0.02	<0.1	0.05	1.2	<0.1	<0.05	8	<0.5	<0.2
PM11JF386	Soil			5	0.03	33	0.073	1	1.14	0.014	0.02	<0.1	0.02	0.6	<0.1	<0.05	5	<0.5	<0.2
PM11JF387	Soil			10	0.03	38	0.100	<1	3.82	0.016	0.01	0.1	0.05	1.2	<0.1	<0.05	7	<0.5	<0.2
PM11JF388	Soil			9	0.03	40	0.102	1	3.09	0.017	0.01	<0.1	0.05	1.2	<0.1	<0.05	8	<0.5	<0.2
PM11JF389	Soil			11	0.04	82	0.100	1	1.91	0.018	0.03	<0.1	0.04	1.0	<0.1	<0.05	8	0.5	<0.2
PM11JF390	Soil			13	0.07	45	0.095	2	2.85	0.014	0.02	<0.1	0.05	1.6	<0.1	<0.05	8	<0.5	<0.2
PM11JF391	Soil			17	0.12	53	0.092	<1	2.53	0.013	0.03	<0.1	0.06	2.0	<0.1	<0.05	7	<0.5	<0.2
PM11JF392	Soil			6	0.04	93	0.062	<1	0.61	0.016	0.03	<0.1	0.02	0.8	<0.1	<0.05	3	<0.5	<0.2
PM11JF393	Soil			12	0.05	63	0.084	1	2.20	0.016	0.02	<0.1	0.04	1.2	<0.1	<0.05	7	<0.5	<0.2
PM11JF394	Soil			13	0.12	71	0.096	1	1.94	0.014	0.04	<0.1	0.04	1.3	<0.1	<0.05	8	<0.5	<0.2
PM11JF395	Soil			14	0.15	88	0.088	<1	1.55	0.018	0.03	<0.1	0.02	1.2	<0.1	<0.05	7	<0.5	<0.2
PM11JF396	Soil			9	0.07	42	0.083	<1	1.35	0.015	0.03	<0.1	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2
PM11JF397	Soil			11	0.09	49	0.093	<1	2.06	0.016	0.03	<0.1	0.04	1.3	<0.1	<0.05	6	<0.5	<0.2
PM11JF398	Soil			17	0.23	64	0.104	<1	1.36	0.015	0.05	<0.1	0.03	1.6	<0.1	<0.05	7	0.5	<0.2

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CERTIFICATE OF ANALYSIS

VAN11003258.1

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	
PM11JF399	Soil		0.5	12.7	4.3	37	<0.1	16.8	7.7	138	2.28	2.5	<0.5	1.4	15	<0.1	0.1	0.1	64	0.18	0.130	4
PM11JF400	Soil		0.5	14.1	4.3	40	0.1	18.7	8.6	140	2.34	2.7	2.2	1.4	18	<0.1	0.1	<0.1	67	0.20	0.128	4
PM11JF401	Soil		0.5	17.2	5.6	39	0.2	22.1	5.8	75	1.76	2.1	<0.5	0.8	24	<0.1	<0.1	0.1	43	0.17	0.087	7
PM11JF402	Soil		0.4	19.4	4.5	37	0.2	21.1	6.6	97	1.84	1.8	0.8	0.9	36	<0.1	<0.1	0.1	50	0.25	0.067	10
PM11JF403	Soil		0.6	20.7	5.2	47	0.1	26.9	7.4	121	1.93	1.7	0.6	0.9	39	<0.1	0.1	<0.1	54	0.30	0.047	10
PM11JF404	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.
PM11JF405	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.
PM11JF406	Soil		0.3	20.3	4.5	48	0.1	28.2	6.7	122	1.89	1.9	0.8	0.7	38	<0.1	<0.1	<0.1	58	0.35	0.032	6
PM11JF407	Soil		0.3	23.6	4.2	51	0.1	33.7	7.7	140	2.14	2.0	1.6	1.0	39	<0.1	0.1	<0.1	68	0.35	0.032	7
PM11JF408	Soil		0.4	12.0	5.2	53	<0.1	20.0	5.9	116	1.67	1.2	1.4	0.9	14	<0.1	<0.1	<0.1	43	0.13	0.101	2
PM11JF409	Soil		0.5	13.0	4.7	44	<0.1	19.0	5.8	113	1.51	1.0	<0.5	0.8	15	<0.1	<0.1	<0.1	39	0.12	0.081	2
PM11JF410	Soil		0.5	14.9	4.4	54	<0.1	23.1	7.3	118	1.82	0.9	<0.5	0.9	20	<0.1	<0.1	<0.1	46	0.15	0.098	3
PMS14	Rock Pulp		122.1	4130	23.0	66	2.4	38.6	21.9	432	4.53	54.5	460.6	2.0	28	0.2	3.3	0.4	136	0.34	0.090	10
PM11JF411	Soil		0.5	11.5	4.3	49	<0.1	20.9	5.5	255	1.37	0.8	1.3	0.8	12	<0.1	<0.1	<0.1	37	0.09	0.074	2
PM11JF412	Soil		0.5	14.0	4.6	56	<0.1	26.2	7.0	267	1.58	1.0	1.8	0.9	13	<0.1	0.1	<0.1	41	0.11	0.076	2
PM11JF413	Soil		0.3	10.3	5.6	42	<0.1	22.5	5.6	231	1.44	1.0	1.7	0.9	41	<0.1	<0.1	0.1	35	0.20	0.027	3
PM11JF414	Soil		0.2	10.9	6.4	40	<0.1	24.3	6.5	347	1.54	0.7	1.4	1.3	54	<0.1	<0.1	0.1	37	0.23	0.027	4
PM11JF415	Soil		0.2	21.9	5.6	33	<0.1	44.5	6.1	209	1.77	0.9	2.0	1.1	60	0.1	<0.1	0.1	43	0.29	0.016	9
PM11JF416	Soil		0.1	20.1	5.7	31	<0.1	20.3	3.4	195	1.43	0.6	2.1	1.0	31	<0.1	<0.1	0.1	36	0.15	0.014	4
PM11JF417	Soil		0.7	9.4	6.0	69	0.1	13.3	6.7	956	1.96	3.2	2.5	1.2	11	<0.1	0.2	0.2	46	0.07	0.193	2
PM11JF417D	Soil		0.7	9.6	5.8	70	0.1	13.3	5.7	679	1.76	2.8	0.9	1.2	10	0.1	0.2	0.2	44	0.07	0.183	3
PM11JF418	Soil		0.5	4.3	4.9	40	0.2	7.6	3.2	143	1.23	1.1	8.1	0.4	16	0.1	<0.1	0.1	30	0.11	0.058	2
PM11JF419	Soil		0.5	5.3	4.3	24	<0.1	4.7	2.8	200	0.98	1.1	0.6	0.7	11	<0.1	<0.1	<0.1	23	0.08	0.088	2
PM11JF420	Soil		0.4	19.0	3.3	40	<0.1	21.4	7.1	259	1.57	2.2	<0.5	0.8	15	<0.1	0.1	<0.1	41	0.16	0.055	3
PM11JF421	Soil		0.6	11.0	3.9	30	<0.1	15.3	5.1	118	1.36	2.1	1.4	0.5	20	<0.1	0.1	<0.1	38	0.15	0.045	2
PM11JF422	Soil		0.6	27.7	4.6	75	0.2	34.6	6.5	278	1.46	1.9	1.1	0.4	32	0.4	0.1	<0.1	41	0.32	0.033	5
PM11JF423	Soil		0.4	13.0	3.7	28	0.1	16.7	4.5	183	1.17	1.0	1.2	0.4	28	<0.1	<0.1	<0.1	32	0.28	0.022	3
PM11JF424	Soil		0.8	45.4	4.6	31	0.2	31.8	4.7	196	1.62	1.9	0.9	0.9	27	<0.1	0.1	<0.1	40	0.25	0.015	10
PM11JF425	Soil		0.3	17.9	3.4	28	0.1	16.5	5.8	217	1.35	2.0	<0.5	0.6	31	<0.1	0.1	<0.1	40	0.28	0.053	4
PM11JF426	Soil		0.4	19.1	4.1	28	0.1	17.5	5.0	214	1.28	2.0	<0.5	0.4	37	0.1	0.1	<0.1	34	0.33	0.052	7

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CERTIFICATE OF ANALYSIS

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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
PM11JF399	Soil	20	0.29	85	0.118	<1	1.97	0.015	0.06	<0.1	0.04	2.0	<0.1	<0.05	7	<0.5	<0.2
PM11JF400	Soil	23	0.31	96	0.121	1	2.26	0.017	0.06	<0.1	0.04	2.2	<0.1	<0.05	7	<0.5	<0.2
PM11JF401	Soil	20	0.23	124	0.107	<1	2.35	0.019	0.05	<0.1	0.03	2.0	<0.1	<0.05	8	0.6	<0.2
PM11JF402	Soil	21	0.30	151	0.103	1	2.03	0.017	0.07	<0.1	0.03	2.2	<0.1	<0.05	7	<0.5	<0.2
PM11JF403	Soil	25	0.39	157	0.110	1	2.12	0.018	0.08	<0.1	0.03	2.6	<0.1	<0.05	7	<0.5	<0.2
PM11JF404	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.
PM11JF405	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.
PM11JF406	Soil	28	0.43	202	0.117	1	1.92	0.030	0.12	<0.1	0.02	2.8	<0.1	<0.05	7	0.7	<0.2
PM11JF407	Soil	35	0.54	220	0.137	<1	2.11	0.030	0.16	<0.1	0.02	3.8	<0.1	<0.05	7	1.3	<0.2
PM11JF408	Soil	22	0.25	103	0.107	<1	2.07	0.020	0.05	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
PM11JF409	Soil	22	0.25	115	0.089	<1	1.99	0.031	0.05	<0.1	0.04	1.6	<0.1	<0.05	7	0.6	<0.2
PM11JF410	Soil	26	0.29	128	0.101	<1	2.49	0.023	0.05	<0.1	0.03	1.8	<0.1	<0.05	8	<0.5	<0.2
PMS14	Rock Pulp	55	0.92	48	0.115	1	1.43	0.041	0.93	4.7	0.07	10.0	0.5	2.09	6	7.0	0.9
PM11JF411	Soil	15	0.12	75	0.088	<1	1.80	0.018	0.04	<0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
PM11JF412	Soil	18	0.17	90	0.102	<1	2.15	0.021	0.05	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11JF413	Soil	25	0.26	333	0.091	2	2.75	0.022	0.07	<0.1	0.01	1.6	<0.1	<0.05	7	<0.5	<0.2
PM11JF414	Soil	30	0.30	254	0.085	<1	3.22	0.024	0.06	<0.1	0.02	1.6	<0.1	<0.05	8	<0.5	<0.2
PM11JF415	Soil	41	0.41	110	0.099	1	2.69	0.030	0.07	<0.1	0.02	3.4	0.1	<0.05	7	<0.5	<0.2
PM11JF416	Soil	20	0.25	86	0.074	1	2.28	0.025	0.06	<0.1	0.02	2.2	0.1	<0.05	6	<0.5	<0.2
PM11JF417	Soil	13	0.15	79	0.106	1	2.51	0.014	0.04	0.1	0.04	1.5	<0.1	<0.05	8	0.6	<0.2
PM11JF417D	Soil	13	0.14	74	0.102	2	2.39	0.015	0.04	0.1	0.04	1.5	<0.1	<0.05	8	0.8	<0.2
PM11JF418	Soil	8	0.09	56	0.080	2	1.20	0.016	0.04	<0.1	0.02	0.8	<0.1	<0.05	6	<0.5	<0.2
PM11JF419	Soil	5	0.06	47	0.064	<1	1.47	0.019	0.02	<0.1	0.03	0.7	<0.1	<0.05	5	<0.5	<0.2
PM11JF420	Soil	27	0.32	88	0.078	<1	1.59	0.021	0.04	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11JF421	Soil	18	0.21	59	0.076	<1	1.33	0.018	0.04	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
PM11JF422	Soil	23	0.31	92	0.074	<1	1.51	0.020	0.08	<0.1	0.03	1.6	<0.1	<0.05	5	0.5	<0.2
PM11JF423	Soil	21	0.28	93	0.068	<1	1.16	0.022	0.07	<0.1	<0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
PM11JF424	Soil	29	0.35	105	0.092	<1	1.92	0.028	0.07	<0.1	0.01	3.3	<0.1	<0.05	5	0.6	<0.2
PM11JF425	Soil	29	0.36	102	0.070	<1	1.12	0.025	0.07	<0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
PM11JF426	Soil	25	0.33	97	0.067	1	1.13	0.025	0.06	<0.1	0.03	1.7	<0.1	<0.05	4	<0.5	<0.2

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Project: PLACER MTN.
 Report Date: August 04, 2011

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CERTIFICATE OF ANALYSIS

VAN11003258.1

Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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	
PM11JF427	Soil	0.3	25.0	4.0	26	0.1	19.2	6.1	290	1.46	2.3	<0.5	0.5	29	<0.1	<0.1	<0.1	40	0.24	0.017	4
PM11JF428	Soil	0.2	16.9	2.4	23	<0.1	15.4	5.9	169	1.34	1.9	0.6	0.7	30	<0.1	<0.1	<0.1	43	0.24	0.006	3
PM11JF429	Soil	1.1	20.7	5.8	65	0.2	26.5	9.7	185	2.17	4.4	<0.5	0.9	20	0.1	0.1	0.2	61	0.17	0.090	3
PM11JF430	Soil	0.2	27.2	2.9	21	<0.1	21.3	4.5	127	1.32	2.0	0.5	0.6	23	<0.1	<0.1	<0.1	37	0.16	0.011	5
PM11JF431	Soil	0.6	62.5	4.9	33	0.2	42.6	6.7	460	1.85	3.0	1.1	0.8	39	0.1	<0.1	0.1	44	0.27	0.018	11
PM11JF432	Soil	0.3	59.0	6.5	45	0.3	62.7	12.4	482	2.46	3.1	1.6	1.7	72	0.2	0.1	0.1	58	0.63	0.046	14
PM11JF433	Soil	0.2	16.0	4.0	33	<0.1	18.4	6.5	246	1.48	2.9	1.2	1.2	16	<0.1	<0.1	<0.1	36	0.18	0.145	3
PM11JF434	Soil	0.5	21.3	4.0	26	<0.1	23.9	8.8	263	1.66	3.3	0.8	0.9	12	<0.1	0.1	0.1	41	0.15	0.080	2
PM11JF435	Soil	0.3	16.5	2.7	25	<0.1	15.7	6.4	168	1.52	2.2	<0.5	0.6	13	<0.1	<0.1	<0.1	41	0.15	0.076	2
PM11JF436	Soil	0.3	19.9	2.6	23	<0.1	15.4	5.8	125	1.41	2.3	<0.5	0.7	9	<0.1	0.1	<0.1	40	0.14	0.053	2
PM11JF437	Soil	0.5	11.4	3.7	26	0.1	7.7	4.5	101	1.54	1.7	<0.5	0.8	9	<0.1	<0.1	<0.1	41	0.08	0.065	2
PM11JF438	Soil	0.3	18.1	4.8	34	<0.1	18.4	7.2	224	1.75	2.7	<0.5	0.8	16	<0.1	<0.1	<0.1	46	0.14	0.086	2
PM11JF439	Soil	0.3	16.3	4.7	29	0.1	18.2	6.8	142	1.57	3.3	<0.5	1.0	10	<0.1	<0.1	0.1	38	0.11	0.112	2
PM11JF440	Soil	0.2	16.0	5.4	17	<0.1	16.4	4.3	130	1.20	1.3	<0.5	0.6	19	<0.1	<0.1	<0.1	28	0.22	0.010	3
PMS16	Rock Pulp	101.9	2990	22.8	58	2.3	30.9	17.5	350	3.75	50.2	447.7	2.0	28	0.3	3.3	0.4	105	0.29	0.083	9
PM11JF441	Soil	0.4	35.8	2.2	31	<0.1	26.2	9.1	237	2.05	6.0	0.5	1.0	21	<0.1	0.3	<0.1	62	0.33	0.017	4
PM11JF442	Soil	0.2	16.7	4.1	27	<0.1	20.4	7.4	152	1.64	3.1	<0.5	0.7	14	<0.1	<0.1	<0.1	44	0.28	0.055	2
PM11JF443	Soil	0.4	18.2	3.8	30	<0.1	19.9	7.3	130	1.63	2.7	<0.5	1.1	13	<0.1	0.1	<0.1	42	0.15	0.090	3
PM11JF444	Soil	0.3	15.4	4.1	27	0.1	15.6	5.3	130	1.44	2.4	<0.5	0.7	12	<0.1	<0.1	<0.1	38	0.16	0.112	3
PM11JF445	Soil	0.1	19.9	3.5	21	<0.1	20.0	6.2	161	1.63	2.4	<0.5	0.9	15	<0.1	0.2	<0.1	42	0.27	0.009	3
PM11JF446	Soil	0.4	27.6	3.6	28	<0.1	24.7	8.2	248	1.89	4.5	1.0	0.5	20	<0.1	0.3	0.1	53	0.37	0.034	3
PM11JF447	Soil	0.3	19.7	3.0	27	<0.1	22.5	7.7	148	1.83	4.1	<0.5	0.5	10	<0.1	0.2	0.1	49	0.19	0.060	2
PM11JF448	Soil	0.2	10.5	3.8	21	<0.1	11.5	4.0	96	1.21	2.2	0.7	0.3	12	<0.1	<0.1	0.1	32	0.15	0.070	2
PM11JF449	Soil	0.1	32.5	4.6	18	0.2	29.1	6.2	131	1.48	3.2	0.6	0.6	25	<0.1	<0.1	<0.1	35	0.31	0.010	3
PM11JF450	Soil	0.4	14.4	3.9	26	0.1	18.0	5.8	116	1.54	2.5	<0.5	0.7	14	<0.1	<0.1	0.1	36	0.14	0.123	2
PM11JC51	Soil	0.5	4.3	4.9	35	<0.1	6.2	3.4	102	1.49	1.4	2.1	0.9	10	<0.1	<0.1	0.2	37	0.07	0.115	2
PM11JC52	Soil	0.5	3.9	4.5	36	<0.1	5.4	3.2	185	1.42	1.0	<0.5	0.8	11	<0.1	<0.1	0.2	37	0.08	0.056	2
PM11JC53	Soil	0.4	6.3	4.5	48	<0.1	8.6	3.4	241	1.16	1.1	1.1	0.8	18	<0.1	<0.1	0.1	27	0.10	0.046	2
PM11JC54	Soil	0.6	9.3	5.1	52	<0.1	16.2	5.6	266	1.45	1.2	0.7	0.8	20	<0.1	<0.1	<0.1	41	0.15	0.027	3
PM11JC55	Soil	0.3	6.9	5.2	54	<0.1	15.7	5.0	321	1.28	0.8	<0.5	0.6	24	<0.1	<0.1	<0.1	30	0.15	0.027	2

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Project: PLACER MTN.
 Report Date: August 04, 2011

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CERTIFICATE OF ANALYSIS

VAN11003258.1

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	
PM11JF427	Soil			29	0.38	101	0.075	<1	1.43	0.032	0.05	<0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
PM11JF428	Soil			32	0.45	80	0.096	<1	1.02	0.034	0.10	<0.1	<0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
PM11JF429	Soil			29	0.43	105	0.085	<1	2.04	0.017	0.04	<0.1	0.02	2.2	<0.1	<0.05	7	0.5	<0.2
PM11JF430	Soil			19	0.26	85	0.074	<1	1.04	0.026	0.04	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
PM11JF431	Soil			29	0.40	166	0.087	1	2.02	0.027	0.07	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
PM11JF432	Soil			55	0.80	190	0.085	1	2.34	0.033	0.10	<0.1	0.03	7.3	<0.1	<0.05	6	0.7	<0.2
PM11JF433	Soil			26	0.29	105	0.083	1	2.24	0.027	0.03	<0.1	0.03	1.8	<0.1	<0.05	5	<0.5	<0.2
PM11JF434	Soil			33	0.36	63	0.090	<1	2.28	0.027	0.03	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
PM11JF435	Soil			28	0.36	38	0.065	<1	1.65	0.025	0.02	<0.1	0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11JF436	Soil			31	0.37	54	0.072	<1	1.24	0.026	0.03	<0.1	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PM11JF437	Soil			15	0.15	31	0.084	<1	1.72	0.023	0.02	<0.1	0.04	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11JF438	Soil			26	0.28	59	0.086	<1	2.09	0.023	0.02	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11JF439	Soil			25	0.24	55	0.081	<1	2.40	0.019	0.03	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11JF440	Soil			28	0.31	121	0.072	<1	1.49	0.028	0.04	<0.1	<0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
PMS16	Rock Pulp			42	0.81	41	0.098	<1	1.21	0.033	0.85	3.7	0.06	7.7	0.5	1.64	5	6.4	0.5
PM11JF441	Soil			60	0.68	138	0.081	<1	1.18	0.031	0.07	<0.1	<0.01	3.6	<0.1	<0.05	3	<0.5	<0.2
PM11JF442	Soil			35	0.36	100	0.080	1	1.65	0.027	0.04	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11JF443	Soil			29	0.30	91	0.080	1	1.78	0.023	0.03	<0.1	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
PM11JF444	Soil			25	0.24	78	0.073	<1	1.46	0.020	0.03	<0.1	0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11JF445	Soil			40	0.46	108	0.083	<1	1.43	0.030	0.05	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
PM11JF446	Soil			51	0.56	132	0.066	2	1.42	0.024	0.06	<0.1	0.03	2.8	<0.1	0.08	5	<0.5	<0.2
PM11JF447	Soil			44	0.46	92	0.066	2	1.43	0.021	0.03	<0.1	0.02	1.8	<0.1	0.06	5	<0.5	<0.2
PM11JF448	Soil			21	0.20	68	0.054	3	1.03	0.017	0.03	<0.1	0.03	1.0	<0.1	0.07	4	<0.5	<0.2
PM11JF449	Soil			42	0.40	170	0.067	2	1.80	0.029	0.04	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PM11JF450	Soil			24	0.23	74	0.068	2	1.55	0.017	0.04	<0.1	0.03	1.5	<0.1	0.05	5	<0.5	<0.2
PM11JC51	Soil			8	0.07	37	0.093	2	1.93	0.018	0.02	<0.1	0.04	1.1	<0.1	<0.05	6	<0.5	<0.2
PM11JC52	Soil			7	0.08	41	0.093	2	1.62	0.024	0.02	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
PM11JC53	Soil			6	0.08	61	0.084	2	1.38	0.024	0.04	<0.1	0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
PM11JC54	Soil			19	0.26	118	0.096	2	1.64	0.019	0.07	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
PM11JC55	Soil			15	0.18	135	0.088	1	2.06	0.021	0.08	<0.1	0.02	1.1	<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	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	
	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	
PM11JC56	Soil	0.6	9.3	7.1	47	<0.1	21.6	6.5	383	1.57	1.1	1.9	0.9	26	<0.1	<0.1	0.1	37	0.15	0.041	2
PM11JC57	Soil	0.9	12.8	4.9	67	<0.1	24.3	7.1	219	1.72	2.6	<0.5	1.2	14	0.1	0.1	0.1	43	0.10	0.104	4
PM11JC58	Soil	0.6	12.1	4.3	36	<0.1	16.4	5.5	183	1.53	2.4	<0.5	0.6	15	0.1	<0.1	<0.1	40	0.14	0.108	2
PM11JC59	Soil	0.2	23.5	4.2	27	0.1	17.8	6.0	194	1.39	3.0	11.5	0.7	40	0.1	0.1	<0.1	41	0.31	0.043	4
PM11JC60	Soil	0.2	13.5	4.1	21	0.1	11.8	3.7	264	1.25	3.9	0.7	0.5	33	<0.1	<0.1	<0.1	36	0.21	0.018	2
PMS17	Rock Pulp	14.7	53.7	15.8	16	0.1	14.3	2.2	101	3.25	416.3	191.6	0.7	28	0.4	25.5	0.1	10	0.86	0.004	1
PM11JC61	Soil	0.4	44.8	3.2	52	<0.1	29.2	9.5	293	2.52	5.1	0.5	1.7	32	<0.1	0.5	<0.1	86	0.30	0.049	6
PM11JC62	Soil	0.3	26.2	3.4	30	<0.1	19.2	5.9	384	1.54	3.6	0.8	0.7	36	0.1	0.1	0.1	49	0.28	0.027	5
PM11JC63	Soil	0.3	18.5	3.3	30	<0.1	21.0	7.2	209	1.62	2.4	0.9	0.9	36	<0.1	0.1	<0.1	51	0.32	0.017	4
PM11JC64	Soil	0.8	16.4	4.8	42	<0.1	18.1	6.0	215	1.48	2.2	0.6	0.8	16	<0.1	0.1	<0.1	39	0.17	0.083	3
PM11JC65	Soil	0.6	21.8	4.5	37	0.1	27.9	7.4	125	1.80	1.9	<0.5	0.7	26	<0.1	<0.1	<0.1	48	0.19	0.027	3
PM11JC66	Soil	0.7	19.2	4.5	35	<0.1	33.0	9.8	134	2.05	2.5	2.2	1.0	25	<0.1	0.1	<0.1	52	0.20	0.051	3
PM11JC67	Soil	0.4	29.0	3.6	36	<0.1	33.7	8.6	199	1.82	1.9	1.4	1.4	38	<0.1	0.1	<0.1	52	0.32	0.019	7
PM11JC68	Soil	0.2	15.0	3.9	43	0.1	26.6	7.7	118	1.72	1.3	0.8	0.8	31	<0.1	<0.1	<0.1	42	0.21	0.081	2
PM11JC69	Soil	0.3	21.0	2.9	31	<0.1	18.8	7.1	115	1.50	2.7	<0.5	0.8	8	<0.1	0.1	0.2	39	0.15	0.089	2
PM11JC70	Soil	0.5	11.7	3.8	30	0.2	13.1	5.9	394	1.30	1.8	<0.5	0.8	7	<0.1	<0.1	<0.1	32	0.09	0.124	2
PM11JC71	Soil	0.4	6.4	4.6	25	0.2	7.7	3.3	270	1.20	1.5	<0.5	0.8	8	<0.1	<0.1	0.1	33	0.08	0.141	2
PM11JC72	Soil	0.4	14.9	4.2	33	0.1	17.2	5.9	168	1.37	2.0	<0.5	1.0	7	<0.1	0.1	<0.1	34	0.10	0.092	3
PM11JC73	Soil	0.5	20.4	4.8	29	0.2	22.9	6.9	125	1.62	3.0	<0.5	1.6	9	<0.1	0.1	0.1	36	0.12	0.089	2
PM11JC74	Soil	0.3	13.0	3.4	33	<0.1	16.0	6.0	175	1.46	1.4	<0.5	0.7	11	<0.1	<0.1	<0.1	36	0.12	0.083	2
PM11JC75	Soil	0.3	14.1	3.6	36	0.2	18.8	6.1	270	1.50	2.2	<0.5	0.9	12	<0.1	0.1	<0.1	39	0.17	0.078	2
PM11JC76	Soil	0.4	44.0	2.7	34	0.1	30.2	10.9	162	1.89	7.1	1.2	1.0	13	<0.1	0.3	<0.1	51	0.19	0.046	3
PM11JC77	Soil	0.4	13.7	3.4	32	0.1	14.1	5.8	276	1.45	1.7	0.8	0.7	10	<0.1	<0.1	<0.1	38	0.14	0.047	2
PM11JC78	Soil	0.4	19.8	4.3	42	0.1	21.4	6.8	360	1.46	2.3	<0.5	0.9	13	<0.1	<0.1	<0.1	37	0.16	0.072	2
PM11JC79	Soil	0.7	39.7	4.7	45	<0.1	33.6	11.6	170	1.92	4.1	1.1	1.2	12	<0.1	0.1	0.1	46	0.14	0.058	2
PM11JC80	Soil	0.5	24.2	4.6	48	0.1	26.1	8.5	225	1.54	3.2	1.6	1.0	11	<0.1	<0.1	<0.1	42	0.15	0.066	2
PM11JC81	Soil	0.7	24.4	4.9	46	<0.1	24.2	8.8	214	1.99	3.6	0.7	0.9	7	<0.1	<0.1	<0.1	51	0.14	0.054	2
PM11JC82	Soil	0.2	23.0	4.4	30	0.1	22.9	5.6	166	1.25	2.1	0.6	0.5	12	<0.1	<0.1	<0.1	39	0.18	0.015	3
PM11JC83	Soil	0.5	30.5	4.3	35	0.1	21.9	7.4	141	1.46	2.9	1.8	1.2	11	<0.1	<0.1	<0.1	40	0.13	0.049	4
PM11JC84	Soil	0.5	15.8	4.6	32	<0.1	15.2	6.1	136	1.31	2.5	<0.5	1.2	8	<0.1	<0.1	<0.1	37	0.09	0.067	3

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Project: PLACER MTN.
 Report Date: August 04, 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	
	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		
PM11JC56	Soil	15	0.20	122	0.099	2	2.33	0.017	0.07	<0.1	0.02	1.2	<0.1	<0.05	7	<0.5	<0.2
PM11JC57	Soil	19	0.27	133	0.112	2	2.35	0.020	0.07	<0.1	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
PM11JC58	Soil	19	0.20	71	0.075	2	1.54	0.018	0.04	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2
PM11JC59	Soil	25	0.36	118	0.067	2	1.36	0.024	0.09	<0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
PM11JC60	Soil	14	0.20	84	0.061	2	1.32	0.029	0.05	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
PMS17	Rock Pulp	19	0.02	935	0.009	3	0.16	0.006	0.06	2.4	2.73	0.4	9.7	0.14	<1	1.0	<0.2
PM11JC61	Soil	49	0.80	243	0.132	2	1.85	0.024	0.38	<0.1	<0.01	5.5	0.1	<0.05	6	<0.5	<0.2
PM11JC62	Soil	24	0.34	128	0.076	2	1.24	0.038	0.09	<0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
PM11JC63	Soil	38	0.51	137	0.104	1	1.30	0.040	0.15	<0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
PM11JC64	Soil	25	0.29	105	0.084	1	1.68	0.027	0.05	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11JC65	Soil	28	0.40	145	0.103	2	2.22	0.025	0.08	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
PM11JC66	Soil	43	0.53	137	0.098	1	2.39	0.031	0.10	<0.1	0.07	2.8	<0.1	<0.05	6	<0.5	<0.2
PM11JC67	Soil	45	0.65	140	0.100	<1	1.54	0.042	0.09	<0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
PM11JC68	Soil	29	0.37	118	0.086	1	2.08	0.028	0.05	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11JC69	Soil	31	0.36	49	0.067	2	1.68	0.028	0.03	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11JC70	Soil	18	0.18	60	0.073	<1	1.83	0.022	0.02	<0.1	0.03	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11JC71	Soil	11	0.09	47	0.076	<1	1.76	0.018	0.02	<0.1	0.03	0.9	<0.1	<0.05	5	<0.5	<0.2
PM11JC72	Soil	23	0.24	47	0.081	2	1.76	0.024	0.04	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11JC73	Soil	26	0.29	41	0.102	2	3.06	0.028	0.04	0.1	0.05	1.8	<0.1	<0.05	7	<0.5	<0.2
PM11JC74	Soil	20	0.27	50	0.079	<1	1.61	0.026	0.03	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11JC75	Soil	26	0.29	63	0.081	2	1.79	0.028	0.03	<0.1	0.03	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11JC76	Soil	51	0.59	110	0.083	1	2.17	0.028	0.04	<0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
PM11JC77	Soil	21	0.25	45	0.075	2	1.40	0.025	0.04	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11JC78	Soil	25	0.30	95	0.086	1	1.86	0.027	0.04	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11JC79	Soil	32	0.41	83	0.106	<1	2.47	0.026	0.04	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11JC80	Soil	35	0.35	97	0.092	2	2.08	0.024	0.04	<0.1	0.03	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11JC81	Soil	38	0.40	73	0.099	2	2.28	0.021	0.05	<0.1	0.04	2.0	<0.1	<0.05	7	<0.5	<0.2
PM11JC82	Soil	33	0.34	66	0.081	<1	1.49	0.025	0.04	<0.1	0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11JC83	Soil	34	0.38	121	0.078	<1	2.05	0.021	0.04	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
PM11JC84	Soil	21	0.22	67	0.090	<1	2.17	0.021	0.03	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

VAN11003258.1

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	
PM11JC85	Soil		0.6	15.2	4.9	39	0.1	22.3	6.3	328	1.34	2.7	<0.5	1.1	12	<0.1	<0.1	<0.1	36	0.16	0.097	3
PM11JC86	Soil		0.4	21.9	4.2	38	<0.1	22.4	7.9	244	1.42	3.1	1.0	1.5	13	<0.1	<0.1	<0.1	39	0.17	0.075	4
PM11JC87	Soil		0.7	21.1	4.1	45	0.1	28.2	9.4	174	1.82	3.4	2.4	1.2	9	<0.1	<0.1	<0.1	43	0.13	0.067	3
PM11JC88	Soil		0.2	35.4	3.6	26	<0.1	26.7	7.1	177	1.33	3.0	<0.5	0.7	13	<0.1	0.1	<0.1	39	0.24	0.022	3
PM11JC89	Soil		0.4	99.3	5.1	33	0.2	36.9	7.0	535	1.97	3.5	1.1	0.8	21	<0.1	0.1	<0.1	52	0.35	0.020	9
PM11JC90	Soil		0.4	32.7	4.9	28	0.2	27.7	7.1	151	1.67	3.3	0.6	1.1	11	<0.1	<0.1	<0.1	40	0.18	0.087	3
PM11JC91	Soil		0.6	20.3	4.9	34	0.1	23.9	7.3	146	1.73	3.4	<0.5	0.9	10	<0.1	<0.1	<0.1	46	0.13	0.076	3
PM11JC92	Soil		0.5	23.6	5.1	34	0.1	23.4	6.0	216	1.33	3.1	1.1	0.6	12	<0.1	<0.1	<0.1	36	0.13	0.064	3
PM11JC93	Soil		0.3	37.8	5.0	41	0.1	31.1	6.4	171	1.40	3.3	<0.5	0.7	15	<0.1	<0.1	<0.1	35	0.18	0.037	2
PM11JC94	Soil		0.4	45.6	4.3	42	0.1	42.3	9.3	165	1.99	5.1	<0.5	0.9	15	<0.1	0.1	<0.1	52	0.22	0.036	4
PM11JC95	Soil		0.2	9.1	5.7	26	<0.1	16.9	6.1	228	1.26	0.7	<0.5	0.9	28	<0.1	<0.1	<0.1	33	0.20	0.021	2
PM11JC96	Soil		0.2	47.9	3.9	45	<0.1	55.1	12.2	205	3.08	1.8	0.6	1.9	51	<0.1	0.1	<0.1	82	0.50	0.025	8
PM11JC97	Soil		0.5	11.1	5.1	40	0.3	13.3	4.9	254	1.37	1.8	<0.5	1.0	7	<0.1	<0.1	<0.1	37	0.09	0.065	2
PM11JC98	Soil		0.5	12.4	4.4	36	<0.1	15.3	5.5	232	1.43	1.9	<0.5	1.0	9	<0.1	<0.1	<0.1	39	0.16	0.070	2
PM11JC99	Soil		0.5	9.9	4.7	42	0.2	20.4	5.4	224	1.39	2.1	<0.5	1.3	16	<0.1	<0.1	<0.1	35	0.23	0.099	2
PM11JC100	Soil		0.5	16.3	4.9	44	0.1	23.5	7.7	239	1.70	2.4	<0.5	1.1	10	<0.1	0.1	<0.1	47	0.16	0.060	3
PM11JC101	Soil		0.6	20.1	4.5	44	0.3	29.4	8.5	178	1.64	3.0	<0.5	1.0	10	<0.1	<0.1	<0.1	46	0.14	0.051	2
PM11JC102	Soil		0.5	22.1	4.5	29	0.3	26.9	6.1	126	1.45	3.1	12.6	0.7	8	<0.1	<0.1	<0.1	43	0.13	0.052	2
PM11JC103	Soil		0.1	8.2	3.2	23	0.1	9.9	3.4	126	1.07	0.6	<0.5	0.3	8	<0.1	<0.1	<0.1	30	0.10	0.017	<1
PM11JC104	Soil		0.7	17.2	5.3	36	0.1	23.3	5.5	135	1.83	2.7	<0.5	1.2	9	<0.1	<0.1	<0.1	45	0.11	0.151	2
PM11JC105	Soil		0.6	10.8	4.3	39	<0.1	20.5	5.8	225	1.37	1.6	3.9	1.0	10	<0.1	<0.1	<0.1	34	0.13	0.107	3
PM11JC106	Soil		0.5	21.1	4.3	45	<0.1	23.8	8.3	403	1.71	2.9	<0.5	1.1	15	0.1	0.1	<0.1	47	0.22	0.049	4
PM11JC107	Soil		0.5	19.3	3.6	36	<0.1	25.9	8.6	399	1.76	2.9	0.6	0.9	13	<0.1	0.1	<0.1	47	0.21	0.049	3
PM11JC108	Soil		0.7	12.7	4.6	48	<0.1	21.9	7.1	248	1.52	1.9	<0.5	1.0	13	<0.1	<0.1	<0.1	38	0.18	0.058	3
PM11JC109	Soil		0.4	16.7	4.2	44	0.1	23.6	6.8	331	1.52	2.0	<0.5	1.0	14	<0.1	<0.1	<0.1	40	0.20	0.062	3
PM11JC110	Soil		0.5	26.2	3.6	35	<0.1	23.4	8.7	196	2.06	2.7	7.9	1.1	15	<0.1	0.2	<0.1	54	0.29	0.024	4
PMS18	Rock Pulp		123.7	4055	25.1	64	2.6	35.5	20.1	402	4.54	54.1	478.9	2.2	26	0.2	3.0	0.4	120	0.34	0.094	11
PM11GW01	Soil		0.6	26.2	4.0	45	<0.1	23.0	7.8	203	2.59	1.6	2.2	2.3	49	<0.1	0.2	<0.1	72	0.36	0.021	8
PM11GW02	Soil		0.3	17.3	4.5	53	<0.1	18.0	6.7	157	2.11	0.8	<0.5	1.7	36	<0.1	<0.1	<0.1	51	0.27	0.032	4
PM11GW03	Soil		0.5	16.6	4.7	63	<0.1	19.8	8.0	174	2.27	0.9	7.8	1.6	35	<0.1	0.1	<0.1	56	0.25	0.063	4

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CERTIFICATE OF ANALYSIS

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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
PM11JC85	Soil	22	0.25	85	0.085	2	2.03	0.025	0.05	<0.1	0.03	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11JC86	Soil	35	0.35	122	0.083	<1	2.01	0.021	0.05	<0.1	0.03	2.0	<0.1	<0.05	6	<0.5	<0.2
PM11JC87	Soil	41	0.41	99	0.092	1	2.29	0.021	0.04	<0.1	0.04	2.1	<0.1	<0.05	7	<0.5	<0.2
PM11JC88	Soil	38	0.37	74	0.081	<1	1.49	0.030	0.05	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11JC89	Soil	41	0.36	81	0.082	1	2.24	0.028	0.06	<0.1	0.01	3.5	<0.1	<0.05	6	<0.5	<0.2
PM11JC90	Soil	34	0.29	122	0.086	2	2.52	0.023	0.13	<0.1	0.01	2.3	<0.1	<0.05	8	<0.5	<0.2
PM11JC91	Soil	33	0.32	102	0.092	<1	2.09	0.022	0.04	<0.1	0.01	1.9	<0.1	<0.05	7	<0.5	<0.2
PM11JC92	Soil	25	0.24	95	0.074	<1	1.78	0.017	0.04	<0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
PM11JC93	Soil	33	0.33	117	0.083	<1	2.05	0.026	0.04	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11JC94	Soil	68	0.62	125	0.094	<1	2.22	0.027	0.07	<0.1	0.01	2.8	<0.1	<0.05	7	<0.5	<0.2
PM11JC95	Soil	23	0.25	81	0.085	<1	2.04	0.030	0.06	<0.1	0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
PM11JC96	Soil	76	1.06	153	0.118	2	2.56	0.034	0.18	<0.1	<0.01	7.8	0.1	<0.05	7	<0.5	<0.2
PM11JC97	Soil	13	0.15	48	0.090	1	1.78	0.022	0.03	<0.1	0.03	1.2	<0.1	<0.05	6	<0.5	<0.2
PM11JC98	Soil	21	0.22	51	0.092	2	1.92	0.025	0.03	<0.1	0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11JC99	Soil	16	0.19	62	0.102	3	2.30	0.027	0.06	<0.1	0.02	1.3	<0.1	<0.05	7	<0.5	<0.2
PM11JC100	Soil	33	0.36	83	0.108	1	2.38	0.027	0.04	<0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
PM11JC101	Soil	37	0.37	119	0.109	1	2.20	0.029	0.03	<0.1	0.03	1.8	<0.1	<0.05	7	<0.5	<0.2
PM11JC102	Soil	29	0.28	72	0.085	<1	1.72	0.022	0.04	<0.1	0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11JC103	Soil	12	0.13	37	0.071	<1	0.78	0.025	0.02	<0.1	0.01	0.7	<0.1	<0.05	4	<0.5	<0.2
PM11JC104	Soil	18	0.13	67	0.100	<1	2.59	0.026	0.04	<0.1	0.04	1.7	<0.1	<0.05	8	<0.5	<0.2
PM11JC105	Soil	19	0.21	81	0.084	1	2.03	0.023	0.04	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11JC106	Soil	44	0.47	105	0.089	2	1.73	0.024	0.06	<0.1	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
PM11JC107	Soil	51	0.54	152	0.088	<1	1.78	0.021	0.12	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11JC108	Soil	28	0.33	115	0.091	2	2.08	0.026	0.07	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11JC109	Soil	33	0.36	114	0.095	1	1.99	0.027	0.08	<0.1	0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
PM11JC110	Soil	52	0.60	101	0.095	<1	1.76	0.029	0.08	<0.1	<0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
PMS18	Rock Pulp	49	0.93	47	0.108	2	1.45	0.041	0.96	4.6	0.08	9.8	0.5	1.98	6	7.1	1.0
PM11GW01	Soil	41	0.66	100	0.126	2	1.70	0.043	0.18	<0.1	<0.01	5.4	0.1	<0.05	5	0.5	<0.2
PM11GW02	Soil	29	0.46	138	0.118	<1	1.93	0.033	0.19	<0.1	<0.01	3.3	0.1	<0.05	6	<0.5	<0.2
PM11GW03	Soil	33	0.46	144	0.121	2	2.12	0.029	0.14	<0.1	0.01	2.7	<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
PM11GW04	Soil			0.2	14.3	3.3	34	0.2	10.9	4.7	169	1.41	1.4	1.1	0.7	39	<0.1	0.1	<0.1	34	0.27	0.017	5
PM11GW05	Soil			0.3	13.3	3.8	50	0.1	12.9	5.4	175	1.76	1.3	1.0	1.1	32	<0.1	0.1	<0.1	43	0.24	0.035	4
PM11GW06	Soil			0.3	11.4	3.6	61	<0.1	12.2	5.1	266	1.72	1.6	10.1	0.9	29	<0.1	<0.1	<0.1	41	0.22	0.050	3
PM11GW07	Soil			0.2	15.9	4.8	45	<0.1	14.0	6.7	393	2.02	1.7	<0.5	1.9	46	<0.1	0.1	<0.1	54	0.31	0.017	7
PM11GW08	Soil			0.3	13.9	5.2	59	<0.1	17.0	6.8	165	1.87	1.6	<0.5	1.2	40	<0.1	<0.1	<0.1	42	0.24	0.066	3
PM11GW09	Soil			0.3	20.9	3.8	51	0.1	23.9	7.6	338	2.25	1.9	2.3	1.7	49	<0.1	0.1	<0.1	56	0.33	0.037	9
PM11GW10	Soil			0.5	11.7	4.3	61	<0.1	20.0	5.3	541	1.55	1.5	34.7	0.9	39	<0.1	0.1	<0.1	39	0.29	0.035	4
PM11GW11	Soil			0.7	25.2	4.6	48	<0.1	26.7	8.4	173	2.46	3.1	28.3	1.8	42	<0.1	0.4	0.1	68	0.32	0.024	6
PM11GW12	Soil			0.6	21.3	4.2	64	0.1	36.7	7.5	266	2.37	2.8	8.8	1.7	53	<0.1	0.2	<0.1	61	0.38	0.053	5
PM11GW13	Soil			0.7	20.4	5.2	75	0.2	34.2	8.7	358	2.11	2.9	2.2	1.7	31	<0.1	0.2	0.1	48	0.23	0.200	5
PM11GW14	Soil			0.7	24.1	5.1	61	<0.1	32.7	8.6	162	2.54	3.5	4.2	1.7	41	<0.1	0.3	<0.1	64	0.29	0.059	7
PM11GW15	Soil			0.3	18.9	4.9	66	0.1	29.5	7.5	155	2.20	1.9	<0.5	1.4	34	<0.1	<0.1	0.1	49	0.25	0.092	4
PM11GW16	Soil			0.3	22.9	4.3	51	0.2	31.4	6.1	151	1.80	1.8	1.5	1.1	39	<0.1	<0.1	<0.1	45	0.26	0.023	7
PM11GW17	Soil			0.8	12.7	4.7	73	0.2	20.1	6.2	378	1.69	2.0	1.0	1.2	18	<0.1	<0.1	<0.1	39	0.15	0.136	3
PM11GW18	Soil			0.7	28.0	4.8	84	0.2	26.8	8.6	288	2.48	3.1	5.0	1.3	40	0.1	0.3	<0.1	68	0.33	0.085	7
PM11GW19	Soil			0.3	21.8	4.7	51	<0.1	19.7	7.0	157	2.42	1.6	0.7	1.6	62	<0.1	<0.1	<0.1	64	0.34	0.047	6
PM11GW20	Soil			0.3	17.4	4.5	56	0.2	37.4	8.4	219	2.26	1.5	0.8	1.4	42	<0.1	0.1	<0.1	50	0.27	0.032	4
PM11GW21	Soil			0.5	14.4	4.6	58	0.2	36.2	7.9	169	1.91	2.1	1.8	1.4	27	<0.1	<0.1	<0.1	41	0.16	0.116	3
PM11GW22	Soil			0.2	13.8	4.1	37	0.2	29.7	6.1	104	1.68	1.6	62.5	0.9	30	<0.1	<0.1	<0.1	37	0.21	0.049	3
PM11GW23	Soil			0.3	19.8	2.7	32	<0.1	27.7	6.7	135	2.15	1.7	2.7	1.1	38	<0.1	0.1	<0.1	58	0.32	0.023	5
PM11GW24	Soil			0.4	15.1	4.8	55	<0.1	27.0	6.6	198	1.89	1.9	1.0	1.4	27	<0.1	<0.1	0.1	44	0.20	0.116	5
PM11GW25	Soil			0.3	13.5	4.7	43	<0.1	23.6	4.9	119	1.64	1.5	<0.5	1.1	33	<0.1	<0.1	0.1	39	0.20	0.063	6
PM11GW26	Soil			0.2	17.4	3.9	56	<0.1	29.3	5.7	202	1.89	1.2	<0.5	1.2	54	<0.1	<0.1	<0.1	42	0.24	0.040	10
PM11GW27	Soil			0.2	22.7	6.9	53	<0.1	39.2	7.2	145	2.28	1.7	<0.5	1.5	57	<0.1	<0.1	0.1	43	0.26	0.053	9
PM11GW28	Soil			0.4	17.1	5.5	57	<0.1	33.7	6.4	175	2.06	2.0	0.6	1.5	32	<0.1	<0.1	0.1	43	0.21	0.144	7
PM11GW29	Soil			0.3	17.6	5.1	78	<0.1	39.0	7.3	234	1.98	1.3	<0.5	1.5	28	<0.1	<0.1	0.1	40	0.17	0.101	5
PM11GW30	Soil			0.2	14.3	3.8	54	<0.1	29.4	7.0	161	1.82	1.7	<0.5	1.3	30	<0.1	<0.1	<0.1	40	0.19	0.138	5
PM11GW31	Soil			0.3	21.4	4.5	51	<0.1	35.4	9.0	152	2.47	1.3	<0.5	1.6	46	<0.1	0.1	0.1	59	0.26	0.056	7
PM11GW32	Soil			0.2	9.4	3.7	50	<0.1	28.2	5.8	161	1.55	1.2	<0.5	0.9	23	<0.1	<0.1	<0.1	37	0.17	0.102	3
PM11GW33	Soil			0.3	15.0	3.0	32	<0.1	32.3	6.0	102	1.88	1.2	<0.5	1.0	35	<0.1	<0.1	<0.1	52	0.22	0.019	6

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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
PM11GW04	Soil	19	0.23	56	0.076	1	1.41	0.031	0.07	<0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
PM11GW05	Soil	21	0.33	114	0.083	<1	1.82	0.028	0.10	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
PM11GW06	Soil	19	0.24	127	0.092	1	1.72	0.025	0.10	<0.1	<0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
PM11GW07	Soil	27	0.42	100	0.101	<1	1.80	0.039	0.13	<0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
PM11GW08	Soil	20	0.32	235	0.118	2	2.84	0.028	0.14	<0.1	<0.01	2.6	<0.1	<0.05	8	<0.5	<0.2
PM11GW09	Soil	50	0.49	121	0.091	1	1.74	0.030	0.13	<0.1	0.02	4.8	0.2	<0.05	5	<0.5	<0.2
PM11GW10	Soil	24	0.28	147	0.084	2	1.58	0.035	0.14	<0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
PM11GW11	Soil	44	0.55	168	0.111	<1	1.77	0.025	0.21	0.1	<0.01	4.8	0.1	<0.05	6	<0.5	<0.2
PM11GW12	Soil	42	0.58	176	0.095	1	2.52	0.024	0.22	<0.1	<0.01	5.3	0.2	<0.05	7	<0.5	<0.2
PM11GW13	Soil	32	0.35	221	0.092	1	2.54	0.022	0.11	0.2	0.02	3.5	<0.1	<0.05	7	<0.5	<0.2
PM11GW14	Soil	40	0.49	202	0.110	<1	2.63	0.021	0.17	<0.1	0.01	4.0	0.1	<0.05	7	<0.5	<0.2
PM11GW15	Soil	33	0.42	164	0.099	<1	3.17	0.019	0.12	<0.1	0.02	3.4	0.1	<0.05	9	<0.5	<0.2
PM11GW16	Soil	30	0.33	144	0.090	<1	2.29	0.031	0.07	<0.1	0.01	3.1	<0.1	<0.05	6	<0.5	<0.2
PM11GW17	Soil	17	0.21	125	0.087	1	2.19	0.020	0.09	<0.1	0.03	2.2	<0.1	<0.05	7	<0.5	<0.2
PM11GW18	Soil	30	0.51	158	0.099	<1	2.53	0.016	0.14	<0.1	0.02	4.7	<0.1	<0.05	8	<0.5	<0.2
PM11GW19	Soil	36	0.62	173	0.123	<1	2.95	0.016	0.20	<0.1	0.02	4.4	0.2	<0.05	8	<0.5	<0.2
PM11GW20	Soil	42	0.44	184	0.100	<1	2.51	0.037	0.09	<0.1	0.01	3.7	<0.1	<0.05	7	<0.5	<0.2
PM11GW21	Soil	29	0.24	182	0.095	1	2.90	0.027	0.08	<0.1	0.03	2.6	<0.1	<0.05	8	<0.5	<0.2
PM11GW22	Soil	30	0.25	169	0.083	<1	2.11	0.035	0.05	<0.1	<0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
PM11GW23	Soil	60	0.52	117	0.101	<1	1.61	0.032	0.06	<0.1	<0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
PM11GW24	Soil	44	0.29	128	0.093	1	2.38	0.026	0.06	<0.1	0.01	2.5	<0.1	<0.05	7	<0.5	<0.2
PM11GW25	Soil	44	0.29	158	0.088	<1	1.85	0.026	0.05	<0.1	<0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
PM11GW26	Soil	58	0.33	169	0.086	1	2.36	0.028	0.06	<0.1	0.02	3.6	0.1	<0.05	7	<0.5	<0.2
PM11GW27	Soil	77	0.52	159	0.098	<1	3.61	0.022	0.06	<0.1	0.02	4.1	0.1	<0.05	9	<0.5	<0.2
PM11GW28	Soil	58	0.33	157	0.101	1	3.05	0.022	0.05	<0.1	0.03	2.9	<0.1	<0.05	9	<0.5	<0.2
PM11GW29	Soil	77	0.38	175	0.098	1	3.48	0.023	0.06	<0.1	0.02	2.9	<0.1	<0.05	9	<0.5	<0.2
PM11GW30	Soil	36	0.26	162	0.086	1	2.07	0.024	0.08	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
PM11GW31	Soil	59	0.54	183	0.090	<1	2.51	0.022	0.06	<0.1	0.02	3.4	<0.1	<0.05	7	<0.5	<0.2
PM11GW32	Soil	36	0.19	108	0.081	<1	1.59	0.026	0.05	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11GW33	Soil	73	0.33	111	0.098	<1	1.44	0.027	0.05	<0.1	<0.01	2.5	<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	
		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	
PM11GW34	Soil	0.2	12.4	3.6	38	<0.1	23.4	5.3	183	1.59	1.1	<0.5	0.9	34	<0.1	<0.1	<0.1	38	0.21	0.020	5
PM11GW35	Soil	0.3	21.3	2.5	34	<0.1	37.9	7.3	124	2.05	1.3	<0.5	1.3	40	<0.1	<0.1	<0.1	58	0.28	0.026	8
PM11GW36	Soil	0.2	13.7	2.3	30	<0.1	16.8	4.8	122	1.63	1.2	0.5	0.9	37	<0.1	<0.1	<0.1	44	0.29	0.014	6
PM11GW37	Soil	0.1	9.7	2.8	28	<0.1	13.5	3.4	99	1.30	1.0	<0.5	0.9	30	<0.1	<0.1	<0.1	31	0.25	0.010	5
PM11GW38	Soil	0.1	11.0	3.7	35	<0.1	19.2	3.6	115	1.39	1.2	1.1	0.9	31	<0.1	<0.1	<0.1	29	0.25	0.016	5
PM11GW39	Soil	0.1	8.0	2.2	21	<0.1	14.2	3.6	105	0.92	<0.5	0.5	0.6	21	<0.1	<0.1	<0.1	26	0.18	0.013	4
PM11GW40	Soil	0.2	14.7	2.3	28	<0.1	19.2	4.5	117	1.44	1.2	2.7	0.9	27	<0.1	0.1	<0.1	41	0.20	0.019	6



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Method	Analyte	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	
PM11GW34	Soil	48	0.27	97	0.092	<1	1.56	0.025	0.05	<0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PM11GW35	Soil	98	0.46	76	0.088	<1	1.14	0.040	0.04	<0.1	0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
PM11GW36	Soil	39	0.27	78	0.100	<1	1.19	0.037	0.04	<0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
PM11GW37	Soil	30	0.26	72	0.081	<1	1.25	0.031	0.04	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PM11GW38	Soil	30	0.27	91	0.087	<1	1.81	0.033	0.04	<0.1	<0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11GW39	Soil	27	0.24	70	0.068	2	1.03	0.016	0.03	<0.1	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
PM11GW40	Soil	36	0.31	90	0.075	1	1.04	0.016	0.05	<0.1	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2



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 2446 Bidston Road
 Bill Bay BC V0R 2P4 Canada

Project: PLACER MTN.
Report Date: August 04, 2011

Page: 1 of 2 Part 1

QUALITY CONTROL REPORT

VAN11003258.1

Method	Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																						
PM11JF317	Soil		0.3	5.1	5.4	22	<0.1	6.9	2.5	282	0.63	1.1	0.7	0.4	33	<0.1	<0.1	<0.1	19	0.17	0.028	5
REP PM11JF317	QC		0.3	5.5	5.3	22	<0.1	7.0	2.6	288	0.63	1.0	1.1	0.4	33	<0.1	<0.1	<0.1	18	0.16	0.028	5
PM11JF338	Soil		0.3	16.0	4.2	32	<0.1	24.1	6.3	148	1.97	1.7	<0.5	0.9	31	<0.1	0.1	<0.1	53	0.33	0.017	5
REP PM11JF338	QC		0.4	15.9	4.2	34	<0.1	24.9	6.4	151	2.05	1.7	1.1	1.0	32	<0.1	<0.1	<0.1	55	0.33	0.018	5
PM11JF359	Soil		0.6	53.3	5.5	43	0.2	23.0	9.7	345	2.29	3.8	1.3	0.8	11	<0.1	0.1	0.1	54	0.16	0.079	2
REP PM11JF359	QC		0.6	50.2	5.3	41	0.2	22.9	9.9	338	2.08	3.7	<0.5	0.7	10	<0.1	0.1	0.1	53	0.16	0.072	2
PM11JF365	Soil		0.3	24.0	5.1	27	0.1	28.5	6.5	144	1.63	2.5	1.1	0.6	17	<0.1	<0.1	<0.1	38	0.26	0.036	3
REP PM11JF365	QC		0.3	24.9	4.9	27	<0.1	29.9	6.5	146	1.63	2.8	0.9	0.6	17	<0.1	<0.1	<0.1	37	0.25	0.037	3
PM11JF391	Soil		0.3	7.6	5.7	24	<0.1	9.9	3.5	63	1.70	2.1	1.7	1.7	14	<0.1	<0.1	0.1	37	0.10	0.356	6
REP PM11JF391	QC		0.3	7.6	5.6	24	<0.1	9.6	3.6	63	1.72	2.2	3.6	1.7	14	<0.1	<0.1	0.1	38	0.09	0.361	5
PM11JF397	Soil		0.4	5.9	4.1	36	<0.1	8.2	3.7	66	1.47	1.9	<0.5	1.2	10	<0.1	<0.1	0.1	35	0.09	0.242	2
REP PM11JF397	QC		0.4	6.2	4.5	35	<0.1	7.9	3.6	66	1.49	1.8	<0.5	1.2	10	<0.1	<0.1	<0.1	34	0.09	0.241	2
PM11JF417	Soil		0.7	9.4	6.0	69	0.1	13.3	6.7	956	1.96	3.2	2.5	1.2	11	<0.1	0.2	0.2	46	0.07	0.193	2
REP PM11JF417	QC		0.7	9.2	5.9	67	0.1	13.6	6.4	928	1.89	2.9	0.6	1.3	11	0.1	0.2	0.1	46	0.07	0.194	2
PMS16	Rock Pulp		101.9	2990	22.8	58	2.3	30.9	17.5	350	3.75	50.2	447.7	2.0	28	0.3	3.3	0.4	105	0.29	0.083	9
REP PMS16	QC		103.4	2943	22.7	57	2.3	30.0	18.0	355	3.71	50.8	461.7	2.0	29	0.4	3.5	0.4	109	0.29	0.081	10
PM11JF446	Soil		0.4	27.6	3.6	28	<0.1	24.7	8.2	248	1.89	4.5	1.0	0.5	20	<0.1	0.3	0.1	53	0.37	0.034	3
REP PM11JF446	QC		0.4	26.1	3.6	27	<0.1	23.9	8.4	238	1.82	4.2	2.3	0.5	20	<0.1	0.2	<0.1	53	0.36	0.031	3
PM11JC69	Soil		0.3	21.0	2.9	31	<0.1	18.8	7.1	115	1.50	2.7	<0.5	0.8	8	<0.1	0.1	0.2	39	0.15	0.089	2
REP PM11JC69	QC		0.3	20.9	2.8	34	<0.1	18.1	7.2	117	1.49	2.5	1.3	0.8	9	<0.1	0.1	<0.1	39	0.15	0.084	2
PM11JC86	Soil		0.4	21.9	4.2	38	<0.1	22.4	7.9	244	1.42	3.1	1.0	1.5	13	<0.1	<0.1	<0.1	39	0.17	0.075	4
REP PM11JC86	QC		0.4	22.2	4.3	39	<0.1	21.5	7.4	241	1.38	3.3	0.7	1.5	13	<0.1	<0.1	<0.1	38	0.16	0.080	4
PM11JC107	Soil		0.5	19.3	3.6	36	<0.1	25.9	8.6	399	1.76	2.9	0.6	0.9	13	<0.1	0.1	<0.1	47	0.21	0.049	3
REP PM11JC107	QC		0.5	19.4	3.6	40	<0.1	26.7	9.0	423	1.88	2.8	<0.5	1.0	13	<0.1	0.1	<0.1	49	0.22	0.053	3
PM11GW18	Soil		0.7	28.0	4.8	84	0.2	26.8	8.6	288	2.48	3.1	5.0	1.3	40	0.1	0.3	<0.1	68	0.33	0.085	7
REP PM11GW18	QC		0.8	27.8	4.9	84	0.2	27.3	8.5	275	2.42	2.9	1.3	1.4	40	0.1	0.3	<0.1	67	0.33	0.084	7
PM11GW38	Soil		0.1	11.0	3.7	35	<0.1	19.2	3.6	115	1.39	1.2	1.1	0.9	31	<0.1	<0.1	<0.1	29	0.25	0.016	5
REP PM11GW38	QC		0.1	11.5	3.6	34	<0.1	19.0	3.5	115	1.36	1.0	<0.5	0.8	31	<0.1	<0.1	<0.1	28	0.24	0.016	5

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 Report Date: August 04, 2011

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QUALITY CONTROL REPORT

VAN11003258.1

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																	
PM11JF317	Soil	9	0.11	84	0.062	1	0.97	0.028	0.03	<0.1	0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
REP PM11JF317	QC	9	0.11	86	0.060	<1	0.93	0.021	0.03	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
PM11JF338	Soil	26	0.40	127	0.105	<1	1.71	0.022	0.09	<0.1	<0.01	2.8	<0.1	<0.05	6	<0.5	<0.2
REP PM11JF338	QC	27	0.43	128	0.106	<1	1.78	0.023	0.09	<0.1	<0.01	2.9	<0.1	<0.05	6	<0.5	<0.2
PM11JF359	Soil	25	0.33	71	0.103	2	2.43	0.017	0.04	<0.1	0.03	1.9	<0.1	<0.05	7	<0.5	<0.2
REP PM11JF359	QC	25	0.33	71	0.100	2	2.41	0.016	0.03	<0.1	0.04	1.7	<0.1	<0.05	7	0.5	<0.2
PM11JF365	Soil	33	0.25	104	0.084	<1	2.11	0.021	0.05	<0.1	0.02	1.7	<0.1	<0.05	7	<0.5	<0.2
REP PM11JF365	QC	34	0.25	106	0.083	2	2.10	0.021	0.05	<0.1	0.01	1.6	<0.1	<0.05	7	<0.5	<0.2
PM11JF391	Soil	17	0.12	53	0.092	<1	2.53	0.013	0.03	<0.1	0.06	2.0	<0.1	<0.05	7	<0.5	<0.2
REP PM11JF391	QC	17	0.13	53	0.094	1	2.59	0.015	0.03	<0.1	0.03	1.9	<0.1	<0.05	7	0.6	<0.2
PM11JF397	Soil	11	0.09	49	0.093	<1	2.06	0.016	0.03	<0.1	0.04	1.3	<0.1	<0.05	6	<0.5	<0.2
REP PM11JF397	QC	11	0.09	49	0.092	2	2.06	0.016	0.03	<0.1	0.04	1.2	<0.1	<0.05	6	<0.5	<0.2
PM11JF417	Soil	13	0.15	79	0.106	1	2.51	0.014	0.04	0.1	0.04	1.5	<0.1	<0.05	8	0.6	<0.2
REP PM11JF417	QC	13	0.15	79	0.101	<1	2.44	0.014	0.04	0.1	0.04	1.5	<0.1	<0.05	8	<0.5	<0.2
PMS16	Rock Pulp	42	0.81	41	0.098	<1	1.21	0.033	0.85	3.7	0.06	7.7	0.5	1.64	5	6.4	0.5
REP PMS16	QC	44	0.84	43	0.101	<1	1.19	0.032	0.85	3.9	0.06	8.2	0.5	1.65	5	6.0	0.9
PM11JF446	Soil	51	0.56	132	0.066	2	1.42	0.024	0.06	<0.1	0.03	2.8	<0.1	0.08	5	<0.5	<0.2
REP PM11JF446	QC	50	0.55	136	0.065	2	1.40	0.024	0.06	<0.1	0.03	2.7	<0.1	0.06	5	<0.5	<0.2
PM11JC69	Soil	31	0.36	49	0.067	2	1.68	0.028	0.03	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
REP PM11JC69	QC	31	0.34	48	0.070	1	1.60	0.028	0.03	<0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11JC86	Soil	35	0.35	122	0.083	<1	2.01	0.021	0.05	<0.1	0.03	2.0	<0.1	<0.05	6	<0.5	<0.2
REP PM11JC86	QC	34	0.36	120	0.082	1	2.10	0.021	0.05	<0.1	0.04	2.0	<0.1	<0.05	6	<0.5	<0.2
PM11JC107	Soil	51	0.54	152	0.088	<1	1.78	0.021	0.12	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
REP PM11JC107	QC	53	0.57	156	0.091	1	1.88	0.023	0.12	<0.1	<0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
PM11GW18	Soil	30	0.51	158	0.099	<1	2.53	0.016	0.14	<0.1	0.02	4.7	<0.1	<0.05	8	<0.5	<0.2
REP PM11GW18	QC	28	0.50	158	0.097	<1	2.51	0.016	0.14	<0.1	0.02	4.6	0.1	<0.05	8	<0.5	<0.2
PM11GW38	Soil	30	0.27	91	0.087	<1	1.81	0.033	0.04	<0.1	<0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
REP PM11GW38	QC	30	0.26	90	0.086	<1	1.75	0.031	0.04	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2

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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
Reference Materials																					
STD DS8	Standard	13.3	101.2	104.3	286	1.7	33.5	6.8	574	2.34	25.9	106.0	5.9	61	2.0	5.1	5.5	40	0.66	0.074	14
STD DS8	Standard	13.5	106.6	108.7	299	1.7	37.7	7.5	626	2.46	25.9	105.1	6.3	63	2.2	5.1	6.0	41	0.69	0.078	15
STD DS8	Standard	12.7	105.5	118.8	300	1.6	37.3	7.6	610	2.44	25.4	95.9	6.8	64	2.0	5.0	5.9	42	0.68	0.077	14
STD DS8	Standard	13.3	112.1	121.0	318	1.7	38.2	7.8	631	2.54	25.9	123.7	7.1	66	1.9	5.0	6.0	44	0.73	0.077	15
STD DS8	Standard	12.4	99.5	122.5	296	1.8	34.3	6.8	600	2.69	24.5	127.3	6.8	63	2.2	5.3	6.2	40	0.68	0.078	14
STD DS8	Standard	12.2	97.2	126.5	295	1.7	36.4	7.1	586	2.57	25.3	101.7	6.9	62	2.4	5.1	6.7	40	0.67	0.075	15
STD DS8	Standard	12.9	110.5	127.3	312	1.7	39.0	7.7	617	2.46	27.5	112.7	7.0	65	2.2	5.3	6.3	42	0.69	0.079	13
STD DS8	Standard	12.6	105.0	118.7	296	1.7	37.0	7.3	597	2.35	25.9	99.5	6.6	62	2.0	5.2	5.9	39	0.68	0.074	14
STD DS8	Standard	11.7	94.8	119.0	291	1.6	35.2	6.6	566	2.30	25.4	94.3	6.8	70	2.0	5.8	6.7	37	0.61	0.075	14
STD DS8	Standard	11.5	93.0	117.3	277	1.6	32.4	6.3	540	2.15	24.2	103.0	6.6	69	2.1	5.6	6.5	36	0.61	0.073	14
STD DS8	Standard	13.4	106.2	109.6	314	1.9	35.6	7.3	618	2.47	28.5	118.0	7.0	68	2.4	5.3	6.3	41	0.74	0.079	16
STD DS8	Standard	13.1	105.4	106.7	315	1.9	35.3	7.3	637	2.54	28.7	117.2	7.0	70	2.5	5.5	6.2	42	0.75	0.081	17
STD DS8	Standard	11.6	93.9	119.0	295	1.7	32.9	6.5	575	2.22	25.1	111.0	6.6	67	2.4	5.9	6.4	38	0.61	0.072	13
STD DS8	Standard	11.3	95.1	120.1	284	1.7	32.3	6.6	564	2.23	25.6	106.8	6.7	67	2.0	5.6	6.4	37	0.62	0.070	14
STD DS8	Standard	13.9	102.6	129.8	309	2.0	36.5	7.0	603	2.47	26.3	105.4	7.5	60	2.4	5.0	5.8	42	0.73	0.080	16
STD DS8	Standard	12.9	104.9	129.6	312	1.8	35.7	7.3	620	2.54	25.9	118.0	7.4	59	2.3	4.8	5.6	41	0.71	0.080	15
STD DS8	Standard	13.3	112.2	123.3	317	1.8	38.9	7.7	608	2.49	27.1	112.3	6.6	72	2.2	5.5	6.6	42	0.68	0.080	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	<0.01	<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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		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
Reference Materials																	
STD DS8	Standard	112	0.50	264	0.113	3	0.89	0.088	0.39	2.7	0.20	2.2	4.7	0.19	4	5.5	4.8
STD DS8	Standard	115	0.52	270	0.108	3	0.90	0.091	0.40	2.7	0.20	1.9	5.1	0.16	4	5.7	4.6
STD DS8	Standard	115	0.55	265	0.110	4	0.91	0.098	0.41	2.8	0.19	2.4	5.4	0.16	5	5.7	4.6
STD DS8	Standard	122	0.59	269	0.118	3	0.95	0.116	0.45	3.0	0.18	2.5	5.4	0.17	5	6.4	4.9
STD DS8	Standard	112	0.54	267	0.109	3	0.94	0.097	0.42	2.9	0.18	2.8	5.6	0.15	5	6.7	4.6
STD DS8	Standard	109	0.52	279	0.110	3	0.90	0.093	0.41	2.8	0.23	2.8	5.4	0.14	5	7.2	4.6
STD DS8	Standard	117	0.63	266	0.108	2	0.94	0.104	0.42	3.0	0.23	2.4	5.2	0.16	5	5.5	5.4
STD DS8	Standard	111	0.58	271	0.106	2	0.89	0.097	0.40	2.7	0.18	2.4	4.9	0.15	5	5.1	4.7
STD DS8	Standard	101	0.56	268	0.105	3	0.88	0.089	0.41	2.9	0.18	1.9	5.1	0.18	5	6.1	5.3
STD DS8	Standard	99	0.55	266	0.106	4	0.85	0.095	0.40	2.9	0.19	1.9	5.0	0.17	4	3.7	4.9
STD DS8	Standard	116	0.62	306	0.114	3	0.96	0.095	0.43	3.3	0.22	2.5	5.6	0.13	5	5.1	5.1
STD DS8	Standard	115	0.63	311	0.120	3	0.97	0.094	0.43	3.3	0.22	2.5	5.4	0.13	5	5.2	5.7
STD DS8	Standard	105	0.56	262	0.106	2	0.81	0.081	0.40	2.8	0.18	1.8	4.8	0.14	5	5.6	4.7
STD DS8	Standard	103	0.55	260	0.107	2	0.81	0.078	0.38	2.6	0.18	1.9	4.8	0.15	4	4.7	4.4
STD DS8	Standard	115	0.61	289	0.121	3	0.93	0.084	0.43	3.1	0.22	2.2	5.5	0.18	5	5.1	5.0
STD DS8	Standard	112	0.62	283	0.118	4	0.93	0.090	0.41	3.1	0.22	2.2	5.6	0.18	5	5.4	5.6
STD DS8	Standard	116	0.59	284	0.124	3	0.92	0.099	0.44	2.9	0.21	2.6	5.5	0.12	5	4.9	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
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: July 18, 2011

Report Date: July 30, 2011

Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN11003259.1

CLIENT JOB INFORMATION

Project: PLACER MTN.
Shipment ID: Shipment #3
P.O. Number
Number of Samples: 19

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	19	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX2	19	1:1:1 Aqua Regia digestion ICP-MS analysis	15	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.
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Bill 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: PLACER MTN.
 Report Date: July 30, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN11003259.1

Method	Analyte	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
			Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	MDL	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		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
14808	Rock	1.21	0.2	2.4	0.3	3	<0.1	1.1	0.5	65	0.36	0.9	0.9	<0.1	2	<0.1	<0.1	<0.1	3	0.06	0.009
14809	Rock	1.72	0.3	6.4	0.2	3	<0.1	1.8	0.6	59	0.35	1.1	0.9	<0.1	1	<0.1	<0.1	<0.1	<2	0.01	0.001
14810	Rock	1.34	0.4	27.1	13.9	57	0.2	25.7	8.4	410	1.39	1.8	<0.5	0.8	5	0.6	0.2	<0.1	19	0.06	0.018
14811	Rock	1.45	0.4	8.2	6.7	24	<0.1	7.5	2.7	255	0.67	2.0	<0.5	0.2	4	0.2	0.1	<0.1	5	0.05	0.016
PM11GWR50	Rock	1.06	0.2	7.8	0.7	2	<0.1	2.0	0.8	81	0.33	1.0	4.5	<0.1	7	<0.1	<0.1	<0.1	<2	0.09	0.005
PM11GWR51	Rock	1.66	0.3	7.8	0.6	13	<0.1	7.7	2.9	214	0.68	1.1	1.5	1.0	25	<0.1	<0.1	<0.1	15	0.44	0.029
PM11GWR52	Rock	1.00	0.4	5.4	0.7	4	<0.1	6.9	2.5	290	0.84	4.1	1.2	<0.1	9	<0.1	0.1	<0.1	14	0.05	0.018
PM11GWR53	Rock	1.95	0.8	27.5	1.3	37	<0.1	5.3	4.4	108	0.52	2.5	1.8	1.6	87	0.1	<0.1	<0.1	17	2.47	0.052
PM11GWR54	Rock	1.56	0.1	7.5	2.4	54	<0.1	6.0	2.5	170	0.34	1.6	<0.5	1.5	88	0.4	<0.1	<0.1	15	5.94	0.031
PM11GWR55	Rock	1.98	0.1	0.9	2.9	43	<0.1	0.9	0.5	241	0.49	0.9	<0.5	1.3	100	0.6	<0.1	<0.1	24	8.75	0.042
PM11GWR56	Rock	1.96	0.1	0.5	0.4	<1	<0.1	0.6	0.2	32	0.23	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	0.05	0.007
PM11GWR57	Rock	1.91	25.2	19.9	3.4	57	<0.1	22.3	9.1	496	2.00	5.2	2.8	2.7	30	0.3	<0.1	<0.1	38	0.89	0.057
PM11GWR58	Rock	2.07	0.2	6.4	9.5	17	<0.1	1.9	1.1	140	0.37	1.2	<0.5	36.1	4	0.2	<0.1	<0.1	<2	0.05	0.007
PM11GWR59	Rock	1.96	0.2	1.8	0.6	7	<0.1	3.4	1.6	91	0.50	<0.5	1.0	0.6	12	<0.1	<0.1	<0.1	8	0.21	0.009
PM11GWR60	Rock	2.43	0.4	0.7	0.4	<1	<0.1	0.7	0.3	39	0.31	1.1	<0.5	0.5	2	<0.1	<0.1	<0.1	<2	<0.01	<0.001
PM11GWR61	Rock	1.66	3.0	0.9	0.5	2	<0.1	1.0	0.5	37	0.29	<0.5	0.8	0.1	3	<0.1	<0.1	<0.1	<2	0.07	0.003
PM11GWR62	Rock	2.38	4.6	9.3	0.4	10	<0.1	4.9	1.0	38	0.95	31.7	3.6	0.1	1	<0.1	1.5	<0.1	3	<0.01	0.007
PM11GWR63	Rock	1.18	4.7	6.5	0.8	8	<0.1	4.8	1.4	24	0.57	29.1	3.5	<0.1	<1	<0.1	1.9	0.1	<2	<0.01	0.002
PM11GWR64	Rock	1.50	0.2	2.7	<0.1	2	<0.1	1.5	0.3	26	0.31	0.9	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001



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Project: PLACER MTN.
Report Date: July 30, 2011

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN11003259.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2	
14808	Rock	<1	4	0.02	7	0.001	<1	0.05	0.010	0.01	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
14809	Rock	<1	6	0.02	5	<0.001	<1	0.04	0.008	<0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
14810	Rock	6	16	0.10	31	0.004	1	0.20	0.007	0.07	<0.1	<0.01	1.8	<0.1	<0.05	<1	0.8	<0.2
14811	Rock	2	7	0.04	20	0.002	<1	0.11	0.010	0.03	<0.1	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2
PM11GWR50	Rock	<1	5	<0.01	10	<0.001	<1	0.04	0.007	0.02	<0.1	<0.01	0.1	<0.1	<0.05	<1	0.5	<0.2
PM11GWR51	Rock	4	18	0.17	43	0.058	<1	0.54	0.034	0.05	0.1	<0.01	1.2	<0.1	<0.05	1	<0.5	<0.2
PM11GWR52	Rock	1	7	0.03	17	0.003	<1	0.07	0.015	0.01	<0.1	<0.01	2.2	<0.1	<0.05	<1	<0.5	<0.2
PM11GWR53	Rock	6	5	0.12	44	0.085	<1	1.20	0.039	0.02	0.3	<0.01	1.1	<0.1	0.07	3	<0.5	<0.2
PM11GWR54	Rock	7	5	0.12	70	0.087	1	1.12	0.026	0.03	0.2	<0.01	1.0	<0.1	<0.05	3	<0.5	<0.2
PM11GWR55	Rock	6	7	0.07	32	0.081	<1	1.29	<0.001	<0.01	0.3	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
PM11GWR56	Rock	<1	4	<0.01	2	<0.001	<1	0.02	0.007	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
PM11GWR57	Rock	8	30	0.50	111	0.078	<1	1.19	0.031	0.14	0.3	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
PM11GWR58	Rock	13	2	0.03	42	<0.001	<1	0.24	0.078	0.08	<0.1	<0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2
PM11GWR59	Rock	2	11	0.10	11	0.025	<1	0.28	0.009	0.02	0.1	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2
PM11GWR60	Rock	<1	6	<0.01	17	<0.001	<1	0.05	0.015	0.03	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
PM11GWR61	Rock	<1	6	<0.01	6	0.003	<1	0.05	0.006	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
PM11GWR62	Rock	<1	7	<0.01	5	<0.001	<1	0.02	<0.001	<0.01	<0.1	<0.01	<0.1	0.1	0.11	<1	<0.5	<0.2
PM11GWR63	Rock	<1	6	<0.01	4	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	0.4	0.20	<1	<0.5	<0.2
PM11GWR64	Rock	<1	4	<0.01	1	<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: PLACER MTN.
 Report Date: July 30, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN11003259.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
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																					
PM11GWR63	Rock	1.18	4.7	6.5	0.8	8	<0.1	4.8	1.4	24	0.57	29.1	3.5	<0.1	<1	<0.1	1.9	0.1	<2	<0.01	0.002
REP PM11GWR63	QC		4.6	6.5	0.9	7	<0.1	4.6	1.6	25	0.62	30.6	0.5	<0.1	<1	<0.1	1.9	0.1	<2	<0.01	0.002
Core Reject Duplicates																					
PM11GWR61	Rock	1.66	3.0	0.9	0.5	2	<0.1	1.0	0.5	37	0.29	<0.5	0.8	0.1	3	<0.1	<0.1	<0.1	<2	0.07	0.003
DUP PM11GWR61	QC		2.3	0.5	0.3	1	<0.1	0.8	0.5	39	0.27	<0.5	<0.5	0.2	3	<0.1	<0.1	<0.1	<2	0.07	0.003
Reference Materials																					
STD DS8	Standard		11.6	93.5	110.4	269	1.5	31.8	6.6	552	2.21	22.8	100.0	6.2	55	2.0	4.5	5.5	36	0.60	0.070
STD DS8	Standard		13.5	100.1	119.6	295	1.7	34.7	7.0	581	2.32	24.8	138.1	6.9	59	2.1	5.0	6.0	39	0.66	0.072
STD DS8	Standard		12.3	105.5	123.8	293	1.7	38.3	6.9	603	2.38	24.8	98.1	6.4	60	2.1	4.9	6.0	40	0.69	0.075
STD DS8	Standard		12.4	104.1	120.0	293	1.8	37.6	7.3	585	2.35	24.6	107.0	6.0	58	2.0	4.7	5.8	40	0.67	0.073
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
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	2.5	3.4	41	<0.1	2.5	3.6	527	1.81	<0.5	3.1	6.3	57	<0.1	<0.1	<0.1	34	0.53	0.074
G1	Prep Blank	<0.01	0.2	2.1	3.2	42	<0.1	2.9	3.7	540	1.81	0.5	1.6	6.1	56	<0.1	<0.1	<0.1	33	0.50	0.066



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 Report Date: July 30, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN11003259.1

Method	Analyte	Unit	MDL	1DX15 La	1DX15 Cr	1DX15 Mg	1DX15 Ba	1DX15 Ti	1DX15 B	1DX15 Al	1DX15 Na	1DX15 K	1DX15 W	1DX15 Hg	1DX15 Sc	1DX15 Ti	1DX15 S	1DX15 Ga	1DX15 Se	1DX15 Te
				ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
				1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																				
PM11GWR63	Rock			<1	6	<0.01	4	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	0.4	0.20	<1	<0.5	<0.2
REP PM11GWR63	QC			<1	6	<0.01	4	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	0.4	0.23	<1	1.0	<0.2
Core Reject Duplicates																				
PM11GWR61	Rock			<1	6	<0.01	6	0.003	<1	0.05	0.006	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
DUP PM11GWR61	QC			<1	5	<0.01	5	0.003	<1	0.06	0.006	<0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
Reference Materials																				
STD DS8	Standard			13	102	0.56	233	0.098	3	0.84	0.081	0.35	2.7	0.16	1.7	4.9	0.13	4	5.0	4.9
STD DS8	Standard			16	108	0.59	267	0.116	3	0.91	0.088	0.38	3.0	0.19	2.0	5.1	0.14	5	5.5	5.2
STD DS8	Standard			14	118	0.59	268	0.112	3	0.88	0.081	0.37	2.8	0.19	1.9	5.0	0.16	4	5.1	5.7
STD DS8	Standard			14	117	0.58	259	0.113	2	0.86	0.079	0.38	2.7	0.19	2.0	4.9	0.16	5	4.2	4.2
STD DS8 Expected				14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank			<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank			<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																				
G1	Prep Blank			14	6	0.51	153	0.117	<1	0.99	0.108	0.46	<0.1	<0.01	2.0	0.2	<0.05	5	<0.5	<0.2
G1	Prep Blank			13	7	0.50	151	0.116	<1	0.98	0.109	0.47	<0.1	<0.01	1.9	0.3	<0.05	5	<0.5	<0.2



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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: July 20, 2011
Report Date: August 03, 2011
Page: 1 of 8

CERTIFICATE OF ANALYSIS

VAN11003327.1

CLIENT JOB INFORMATION

Project: PLACER MTN.
Shipment ID:
P.O. Number
Number of Samples: 183

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
Bill 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 methods like Dry at 60C, SS80, and 1DX2.

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. 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: PLACER MTN.
 Report Date: August 03, 2011

Page: 2 of 8 Part 1

CERTIFICATE OF ANALYSIS

VAN11003327.1

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	
PM11-JC 111	Soil			0.6	17.1	4.3	40	<0.1	21.5	8.2	339	1.79	2.2	1.5	0.9	12	<0.1	0.1	0.1	46	0.14	0.048	2
PM11-JC 112	Soil			0.4	27.5	4.0	32	0.2	24.9	6.7	262	1.66	2.3	3.4	0.7	12	<0.1	<0.1	0.1	41	0.16	0.066	3
PM11-JC 113	Soil			0.2	15.3	3.9	20	<0.1	14.7	4.4	167	1.17	1.1	0.6	0.4	13	<0.1	<0.1	<0.1	28	0.16	0.010	2
PM11-JC 114	Soil			0.3	18.5	4.3	35	<0.1	20.1	5.7	84	1.57	1.9	1.5	0.7	12	<0.1	<0.1	0.1	33	0.15	0.057	2
PM11-JC 115	Soil			0.2	18.5	3.4	26	<0.1	31.4	7.1	96	1.73	1.2	<0.5	0.6	27	<0.1	0.1	<0.1	45	0.25	0.026	2
PM11-JC 116	Soil			0.5	12.3	4.5	42	<0.1	20.4	5.8	214	1.48	1.3	<0.5	1.0	16	<0.1	<0.1	0.1	33	0.14	0.074	2
PM11-JC 117	Soil			0.3	12.0	4.1	37	<0.1	21.9	5.8	404	1.35	1.5	<0.5	1.0	14	<0.1	<0.1	<0.1	33	0.15	0.095	2
PM11-JC 118	Soil			0.3	20.6	3.3	36	<0.1	26.4	7.3	243	1.49	1.8	<0.5	0.9	12	<0.1	<0.1	0.1	39	0.16	0.067	3
PM11-JC 119	Soil			0.4	25.0	3.7	40	<0.1	25.4	8.3	294	1.64	2.7	<0.5	1.0	10	<0.1	0.1	0.1	44	0.14	0.093	3
PM11-JC 120	Soil			0.1	13.7	3.7	31	<0.1	18.2	5.6	153	1.35	0.8	0.7	0.5	26	<0.1	<0.1	<0.1	35	0.26	0.018	3
PM11-JC 121	Soil			0.2	15.1	4.6	47	0.1	29.1	5.8	195	1.55	1.3	<0.5	0.9	29	<0.1	<0.1	0.1	36	0.26	0.091	3
PM11-JC 122	Soil			0.1	16.5	3.6	41	<0.1	22.9	5.2	179	1.51	1.1	0.7	0.6	25	<0.1	<0.1	<0.1	39	0.23	0.016	3
PM11-JC 123	Soil			0.3	12.8	4.3	28	0.2	17.2	4.2	39	1.47	2.9	<0.5	1.5	23	<0.1	<0.1	<0.1	39	0.21	0.240	3
PM11-JC 124	Soil			0.3	39.1	5.9	34	<0.1	74.8	14.2	292	2.69	2.7	0.9	2.0	54	<0.1	0.1	<0.1	68	0.50	0.019	5
PM11-JC 125	Soil			0.2	38.0	3.9	28	0.2	30.0	4.8	113	1.69	1.7	0.9	1.1	36	<0.1	<0.1	<0.1	41	0.31	0.022	8
PM11-JC 126	Soil			0.5	17.1	5.3	55	0.1	22.7	7.2	131	1.78	2.1	<0.5	1.0	13	<0.1	<0.1	0.1	40	0.13	0.226	2
PM11-JC 127	Soil			0.4	38.4	4.3	48	<0.1	37.7	9.6	246	2.29	2.2	<0.5	1.3	39	<0.1	0.3	<0.1	77	0.34	0.042	13
PM11-JC 128	Soil			0.5	15.1	4.7	68	0.1	25.3	7.4	201	1.80	1.9	<0.5	1.0	16	<0.1	0.1	<0.1	51	0.16	0.106	3
PM11-JC 129	Soil			0.2	20.4	4.5	27	<0.1	26.9	4.6	256	1.34	0.5	0.6	1.0	35	<0.1	<0.1	<0.1	36	0.23	0.016	7
PM11-JC 130	Soil			0.5	9.9	6.1	35	<0.1	31.7	6.6	193	1.71	1.1	0.6	1.0	22	<0.1	<0.1	0.1	39	0.15	0.187	3
PM11-JC 131	Soil			0.4	22.7	8.1	66	<0.1	67.3	12.8	236	2.47	1.0	<0.5	1.9	38	<0.1	<0.1	0.1	49	0.25	0.079	4
PM11-JC 132	Soil			0.3	14.3	7.8	50	<0.1	61.1	11.8	346	2.05	<0.5	0.7	1.5	29	<0.1	<0.1	0.1	36	0.23	0.054	2
PM11-JC 133	Soil			0.3	14.0	6.5	44	<0.1	40.5	8.5	171	1.87	<0.5	0.5	1.6	39	<0.1	<0.1	<0.1	35	0.22	0.030	4
PM11-JC 134	Soil			0.2	8.4	4.1	32	<0.1	22.3	5.5	140	1.25	<0.5	<0.5	0.6	29	<0.1	<0.1	<0.1	32	0.18	0.025	3
PM11-JC 135	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
PM11-JC 136	Soil			0.3	17.1	5.7	44	<0.1	35.9	10.1	223	2.28	<0.5	0.6	1.3	47	<0.1	<0.1	<0.1	58	0.33	0.020	4
PMS-19	Rock Pulp			15.9	61.2	15.8	17	0.2	16.3	2.6	101	3.58	440.6	211.5	0.7	27	0.4	24.8	0.2	10	0.95	0.005	2
PM11-JC 137	Soil			0.2	10.9	4.1	38	<0.1	17.0	6.2	147	1.57	0.6	<0.5	0.8	27	<0.1	<0.1	<0.1	40	0.18	0.014	3
PM11-JC 138	Soil			0.3	7.0	4.9	35	<0.1	20.6	6.7	208	1.41	0.6	<0.5	0.7	22	<0.1	<0.1	<0.1	34	0.17	0.031	2
PM11-JC 139	Soil			0.3	10.9	5.6	48	<0.1	31.2	8.6	194	1.69	0.6	0.9	1.0	29	<0.1	<0.1	<0.1	35	0.15	0.047	3

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Project: PLACER MTN.
 Report Date: August 03, 2011

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CERTIFICATE OF ANALYSIS

VAN11003327.1

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	
PM11-JC 111	Soil			39	0.40	95	0.084	1	2.00	0.016	0.05	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11-JC 112	Soil			37	0.31	106	0.070	1	1.79	0.017	0.04	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11-JC 113	Soil			26	0.24	86	0.061	<1	1.16	0.019	0.03	<0.1	0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
PM11-JC 114	Soil			32	0.27	94	0.066	<1	1.71	0.017	0.03	<0.1	0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11-JC 115	Soil			44	0.54	103	0.084	<1	1.76	0.019	0.06	<0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
PM11-JC 116	Soil			20	0.22	90	0.086	<1	2.13	0.018	0.05	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
PM11-JC 117	Soil			20	0.18	85	0.082	1	1.94	0.019	0.06	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
PM11-JC 118	Soil			33	0.34	113	0.079	1	1.80	0.024	0.04	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
PM11-JC 119	Soil			34	0.35	110	0.086	<1	2.28	0.023	0.04	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
PM11-JC 120	Soil			30	0.37	86	0.074	2	1.29	0.025	0.04	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JC 121	Soil			26	0.28	151	0.077	<1	1.71	0.019	0.04	<0.1	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2
PM11-JC 122	Soil			29	0.33	111	0.079	<1	1.34	0.025	0.05	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PM11-JC 123	Soil			18	0.13	104	0.085	1	2.03	0.016	0.04	<0.1	0.04	2.4	<0.1	<0.05	6	<0.5	<0.2
PM11-JC 124	Soil			67	1.03	124	0.112	<1	1.82	0.047	0.11	<0.1	0.01	6.1	<0.1	<0.05	5	<0.5	<0.2
PM11-JC 125	Soil			31	0.37	101	0.071	<1	1.63	0.028	0.06	<0.1	0.03	5.1	<0.1	<0.05	5	<0.5	<0.2
PM11-JC 126	Soil			22	0.23	130	0.075	<1	2.25	0.014	0.04	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11-JC 127	Soil			46	0.69	200	0.125	1	2.07	0.018	0.19	<0.1	0.02	5.4	<0.1	<0.05	7	0.6	<0.2
PM11-JC 128	Soil			25	0.35	162	0.112	<1	2.21	0.016	0.11	<0.1	0.03	2.5	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 129	Soil			24	0.28	88	0.073	<1	1.50	0.026	0.07	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JC 130	Soil			21	0.20	105	0.090	<1	2.59	0.015	0.08	<0.1	0.03	1.5	<0.1	<0.05	8	<0.5	<0.2
PM11-JC 131	Soil			43	0.47	208	0.121	<1	3.75	0.014	0.13	<0.1	0.03	3.1	0.1	<0.05	10	<0.5	<0.2
PM11-JC 132	Soil			36	0.40	135	0.107	<1	3.31	0.018	0.09	<0.1	0.02	3.0	<0.1	<0.05	9	<0.5	<0.2
PM11-JC 133	Soil			32	0.30	181	0.117	<1	3.02	0.018	0.08	<0.1	0.02	2.2	0.1	<0.05	8	<0.5	<0.2
PM11-JC 134	Soil			16	0.17	99	0.088	<1	1.49	0.024	0.05	<0.1	0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JC 135	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
PM11-JC 136	Soil			36	0.45	140	0.134	<1	2.61	0.018	0.08	<0.1	0.02	3.3	<0.1	<0.05	8	<0.5	<0.2
PMS-19	Rock Pulp			22	0.02	1312	0.009	1	0.16	0.006	0.06	2.5	2.93	0.5	10.3	0.15	<1	2.0	<0.2
PM11-JC 137	Soil			25	0.28	167	0.109	<1	1.81	0.020	0.10	<0.1	0.01	2.1	0.1	<0.05	6	<0.5	<0.2
PM11-JC 138	Soil			22	0.24	118	0.099	1	1.83	0.019	0.09	<0.1	0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11-JC 139	Soil			26	0.25	196	0.110	<1	2.52	0.021	0.10	<0.1	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2

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Project: PLACER MTN.
 Report Date: August 03, 2011

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CERTIFICATE OF ANALYSIS

VAN11003327.1

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
		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
PM11-JC 140	Soil	0.3	6.6	5.2	44	<0.1	22.2	5.6	134	1.37	<0.5	<0.5	0.6	18	<0.1	<0.1	<0.1	29	0.14	0.064	2
PM11-JC 141	Soil	0.4	9.8	5.7	49	<0.1	26.9	7.7	256	1.60	<0.5	2.8	0.9	29	<0.1	<0.1	0.1	32	0.17	0.050	3
PM11-JC 142	Soil	0.2	12.0	4.2	34	<0.1	42.5	8.3	143	2.05	<0.5	0.5	0.9	39	<0.1	<0.1	<0.1	46	0.19	0.022	3
PM11-JC 143	Soil	0.3	21.4	8.6	45	<0.1	51.3	11.3	498	2.43	<0.5	0.5	1.4	54	<0.1	<0.1	0.1	52	0.29	0.038	5
PM11-JC 144	Soil	0.2	28.2	6.4	44	<0.1	57.1	10.6	181	2.41	<0.5	<0.5	2.0	65	<0.1	<0.1	0.2	57	0.30	0.033	9
PM11-JC 145	Soil	0.3	15.2	6.8	53	<0.1	43.4	10.8	174	2.00	<0.5	0.8	1.3	30	<0.1	<0.1	0.2	39	0.17	0.077	3
PM11-JC 146	Soil	0.1	18.2	7.2	53	<0.1	48.8	10.8	211	2.27	1.7	0.7	1.8	48	<0.1	<0.1	0.2	44	0.26	0.051	7
PM11-JC 147	Soil	0.4	19.9	8.4	53	<0.1	58.9	10.8	216	2.35	1.5	<0.5	1.7	38	<0.1	<0.1	0.2	46	0.23	0.096	4
PM11-JC 148	Soil	0.4	14.5	7.8	58	<0.1	61.1	10.6	260	2.18	1.5	<0.5	1.7	27	<0.1	<0.1	0.2	37	0.15	0.104	3
PM11-JC 149	Soil	0.3	14.7	7.5	38	<0.1	48.6	7.7	57	2.09	2.0	0.8	1.6	36	<0.1	<0.1	0.2	33	0.24	0.183	2
PM11-JC 150	Soil	0.1	8.7	4.9	27	<0.1	27.3	5.3	186	1.50	0.9	0.9	0.7	27	<0.1	<0.1	<0.1	32	0.20	0.014	2
PM11-JC 151	Soil	0.2	13.3	6.7	40	<0.1	53.7	9.3	119	1.95	1.5	<0.5	1.8	27	<0.1	<0.1	0.1	35	0.18	0.133	2
PM11-JC 152	Soil	0.2	37.9	5.0	42	0.2	82.8	10.2	293	2.60	2.2	<0.5	2.4	83	0.1	0.2	0.1	48	1.06	0.032	16
PM11-JC 153	Soil	0.2	46.0	6.4	38	0.2	76.8	8.9	402	2.31	2.5	1.2	1.7	73	0.1	0.2	0.1	45	0.87	0.041	17
PM11-JC 154	Soil	0.2	18.8	7.8	37	<0.1	53.4	11.4	168	2.57	1.5	6.5	1.7	40	<0.1	<0.1	0.1	44	0.43	0.035	3
PM11-JC 155	Soil	0.2	19.4	7.5	29	<0.1	39.0	8.1	100	2.06	2.2	0.5	1.5	39	<0.1	<0.1	0.1	38	0.30	0.055	3
PM11-JC 156	Soil	0.1	7.2	4.5	29	<0.1	18.1	3.8	199	1.50	1.2	<0.5	0.8	26	<0.1	<0.1	<0.1	35	0.23	0.015	2
PM11-JC 157	Soil	0.2	12.2	5.2	29	<0.1	30.8	5.1	378	1.44	1.5	4.8	0.8	33	<0.1	<0.1	<0.1	29	0.35	0.020	5
PM11-JC 158	Soil	0.3	28.7	9.7	51	<0.1	111.5	18.9	227	3.58	1.6	<0.5	3.6	84	<0.1	<0.1	0.1	59	0.47	0.044	5
PM11-JC 159	Soil	0.6	12.1	6.6	48	<0.1	29.1	5.1	471	1.38	1.5	<0.5	1.4	17	0.1	<0.1	0.1	27	0.13	0.086	3
PM11-JC 160	Soil	0.3	10.0	4.9	38	<0.1	15.1	3.9	119	1.40	1.2	1.5	0.8	10	<0.1	<0.1	<0.1	32	0.08	0.159	2
PM11-JC 161	Soil	0.4	14.5	5.1	55	0.2	27.6	6.5	136	1.71	2.1	1.2	1.2	14	<0.1	<0.1	0.1	38	0.13	0.181	3
PM11-JC 162	Soil	0.7	11.5	5.5	44	0.1	23.8	6.0	100	1.65	1.7	<0.5	1.2	10	<0.1	<0.1	0.1	35	0.08	0.098	2
PM11-JC 163	Soil	0.4	11.7	5.4	49	0.2	22.4	5.0	67	1.50	2.4	1.0	1.4	8	<0.1	<0.1	0.2	33	0.08	0.189	3
PM11-JC 164	Soil	0.1	5.1	3.1	20	<0.1	8.4	1.9	38	0.77	<0.5	<0.5	0.2	8	<0.1	<0.1	<0.1	17	0.06	0.014	1
PM11-JC 165	Soil	<0.1	11.0	7.4	13	<0.1	15.9	3.7	78	0.98	1.0	<0.5	0.8	16	0.1	<0.1	0.1	21	0.14	0.015	2
PM11-JC 166	Soil	0.3	14.9	3.6	36	0.1	22.3	6.2	119	1.49	2.1	<0.5	0.9	11	<0.1	0.1	<0.1	36	0.16	0.106	2
PMS-23	Rock Pulp	15.5	57.4	17.5	16	0.2	14.9	2.1	107	3.50	441.7	202.4	0.8	30	0.4	27.5	0.2	9	0.95	0.004	1
PM11-JC 167	Soil	0.5	9.7	4.7	36	<0.1	21.6	5.9	117	1.51	2.0	<0.5	0.8	9	<0.1	<0.1	<0.1	36	0.11	0.073	2
PM11-JC 168	Soil	0.3	6.2	6.2	33	<0.1	17.9	4.2	70	1.21	<0.5	<0.5	0.5	24	<0.1	<0.1	<0.1	23	0.15	0.038	1

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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	
PM11-JC 140	Soil			15	0.16	97	0.095	<1	1.96	0.017	0.10	<0.1	0.02	0.8	<0.1	<0.05	6	<0.5	<0.2
PM11-JC 141	Soil			23	0.23	144	0.099	<1	2.40	0.018	0.08	<0.1	0.03	1.4	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 142	Soil			22	0.37	146	0.111	<1	2.18	0.021	0.05	<0.1	0.02	1.5	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 143	Soil			33	0.45	193	0.133	2	3.29	0.025	0.09	<0.1	0.02	2.7	<0.1	<0.05	9	<0.5	<0.2
PM11-JC 144	Soil			35	0.44	134	0.154	2	2.86	0.025	0.08	<0.1	0.01	3.1	0.1	<0.05	8	<0.5	<0.2
PM11-JC 145	Soil			24	0.30	151	0.143	<1	2.80	0.021	0.10	<0.1	0.02	1.4	<0.1	<0.05	8	<0.5	<0.2
PM11-JC 146	Soil			32	0.44	174	0.134	2	2.56	0.027	0.11	<0.1	<0.01	3.2	<0.1	0.05	8	<0.5	<0.2
PM11-JC 147	Soil			36	0.36	146	0.131	2	3.15	0.021	0.12	<0.1	0.01	2.6	<0.1	<0.05	9	<0.5	<0.2
PM11-JC 148	Soil			30	0.33	187	0.101	<1	3.42	0.020	0.06	<0.1	0.02	2.2	<0.1	<0.05	9	0.7	<0.2
PM11-JC 149	Soil			32	0.32	157	0.092	1	3.47	0.020	0.09	<0.1	0.02	2.4	<0.1	<0.05	8	<0.5	<0.2
PM11-JC 150	Soil			22	0.25	87	0.071	1	1.63	0.027	0.05	<0.1	<0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
PM11-JC 151	Soil			28	0.35	133	0.088	1	2.88	0.022	0.06	<0.1	0.02	2.4	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 152	Soil			70	0.92	119	0.069	3	3.69	0.020	0.06	<0.1	0.06	11.8	<0.1	<0.05	9	0.5	<0.2
PM11-JC 153	Soil			57	0.78	138	0.070	2	3.13	0.025	0.07	<0.1	0.07	9.6	<0.1	<0.05	7	1.0	<0.2
PM11-JC 154	Soil			48	0.67	130	0.087	2	2.49	0.037	0.10	<0.1	0.02	3.7	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 155	Soil			29	0.41	173	0.096	<1	2.76	0.031	0.09	<0.1	0.01	2.7	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 156	Soil			14	0.18	82	0.073	<1	1.49	0.029	0.03	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-JC 157	Soil			22	0.29	78	0.064	<1	1.79	0.027	0.05	<0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JC 158	Soil			73	1.08	214	0.117	2	4.03	0.025	0.21	<0.1	0.02	6.6	<0.1	<0.05	10	<0.5	<0.2
PM11-JC 159	Soil			16	0.19	110	0.085	2	2.36	0.021	0.08	<0.1	0.04	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11-JC 160	Soil			15	0.17	74	0.074	<1	1.31	0.015	0.03	<0.1	0.03	1.2	<0.1	<0.05	5	<0.5	<0.2
PM11-JC 161	Soil			19	0.21	88	0.080	2	2.07	0.017	0.06	<0.1	0.04	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11-JC 162	Soil			18	0.20	88	0.086	<1	2.19	0.018	0.04	<0.1	0.02	1.5	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 163	Soil			16	0.15	80	0.086	1	2.47	0.018	0.04	0.1	0.03	1.5	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 164	Soil			8	0.09	25	0.043	<1	0.79	0.018	0.01	<0.1	<0.01	0.7	<0.1	<0.05	3	<0.5	<0.2
PM11-JC 165	Soil			18	0.19	96	0.060	<1	1.25	0.028	0.04	<0.1	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
PM11-JC 166	Soil			29	0.33	69	0.073	<1	1.65	0.027	0.05	<0.1	0.03	1.7	<0.1	<0.05	5	<0.5	<0.2
PMS-23	Rock Pulp			20	0.02	1166	0.008	<1	0.16	0.006	0.06	2.5	3.00	0.5	10.4	0.12	<1	1.5	<0.2
PM11-JC 167	Soil			23	0.26	53	0.078	<1	1.78	0.024	0.04	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
PM11-JC 168	Soil			12	0.14	61	0.058	1	1.74	0.021	0.08	<0.1	0.03	1.0	<0.1	<0.05	6	<0.5	<0.2

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 Report Date: August 03, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	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	
PM11-JC 169	Soil			0.2	23.6	7.9	49	<0.1	57.9	8.6	708	1.99	1.1	1.1	2.0	65	<0.1	<0.1	0.1	42	0.46	0.043	7
PM11-JC 170	Soil			0.5	15.9	5.6	51	0.1	33.8	6.9	378	1.73	1.7	<0.5	1.5	14	<0.1	<0.1	0.1	37	0.10	0.090	4
PM11-JC 171	Soil			0.5	7.8	4.6	44	<0.1	14.7	5.2	182	1.43	1.4	0.7	0.7	11	<0.1	<0.1	<0.1	35	0.09	0.074	2
PM11-JC 172	Soil			0.6	10.4	6.4	61	<0.1	25.4	5.0	319	1.50	1.7	<0.5	1.1	11	<0.1	<0.1	0.1	33	0.11	0.103	2
PM11-JC 173	Soil			0.4	11.6	5.7	43	<0.1	21.2	5.1	154	1.47	1.5	<0.5	1.3	15	0.2	<0.1	0.2	33	0.16	0.116	3
PM11-JC 174	Soil			0.5	13.6	6.3	52	<0.1	44.9	7.3	191	1.73	1.3	<0.5	1.5	15	<0.1	<0.1	0.2	34	0.10	0.098	2
PM11-JC 175	Soil			0.3	19.2	5.9	44	<0.1	41.8	8.1	178	2.14	1.1	1.1	1.2	23	<0.1	<0.1	<0.1	44	0.18	0.046	3
PM11-JC 176	Soil			0.5	15.5	5.6	56	<0.1	30.5	6.5	108	1.73	1.7	<0.5	1.1	15	<0.1	<0.1	0.1	40	0.11	0.133	2
PM11-JC 177	Soil			0.2	6.7	4.8	55	<0.1	14.1	3.2	836	1.16	0.5	<0.5	0.6	24	<0.1	<0.1	<0.1	26	0.15	0.048	2
PM11-JC 178	Soil			<0.1	9.6	5.3	50	<0.1	23.4	5.1	112	1.43	<0.5	<0.5	0.8	32	<0.1	<0.1	0.1	31	0.19	0.024	2
PM11-JC 179	Soil			0.1	11.8	5.0	30	<0.1	26.2	5.6	256	1.80	<0.5	<0.5	1.1	46	<0.1	<0.1	0.1	37	0.29	0.014	2
PM11-JC 180	Soil			0.4	14.2	5.8	64	<0.1	42.0	8.4	127	2.03	1.2	<0.5	1.1	21	<0.1	<0.1	0.1	39	0.14	0.141	3
PM11-JC 181	Soil			0.6	10.1	5.8	49	<0.1	35.5	6.4	139	1.96	0.7	<0.5	0.8	14	<0.1	<0.1	0.1	37	0.09	0.063	2
PM11-JC 182	Soil			0.2	8.8	4.7	47	<0.1	27.9	4.9	489	1.23	0.6	<0.5	1.0	17	<0.1	<0.1	0.1	29	0.14	0.117	2
PM11-JC 183	Soil			0.3	13.6	6.2	45	<0.1	75.7	12.5	122	2.23	1.0	<0.5	0.9	34	<0.1	<0.1	0.3	35	0.21	0.048	2
PM11-JC 184	Soil			0.2	19.9	5.4	36	<0.1	72.3	11.5	105	2.47	0.9	<0.5	1.0	40	<0.1	<0.1	0.2	45	0.25	0.044	3
PM11-JC 185	Soil			0.4	8.8	5.4	43	<0.1	39.5	6.5	208	1.71	0.8	0.7	0.9	18	<0.1	<0.1	0.1	30	0.17	0.107	2
PM11-JC 186	Soil			0.4	16.9	6.3	43	<0.1	59.9	10.5	158	2.38	0.8	<0.5	1.1	25	<0.1	<0.1	0.1	41	0.22	0.060	3
PM11-JC 187	Soil			0.5	12.2	5.9	56	<0.1	51.5	9.4	895	1.91	1.1	<0.5	0.9	18	<0.1	<0.1	0.1	35	0.13	0.087	3
PM11-JC 188	Soil			0.3	27.7	7.2	51	<0.1	111.7	14.9	232	3.33	0.8	<0.5	1.4	64	<0.1	<0.1	0.1	60	0.40	0.046	4
PM11-JC 189	Soil			0.4	16.7	7.0	53	<0.1	69.5	11.8	141	2.39	1.0	<0.5	1.2	18	0.1	<0.1	0.1	43	0.13	0.087	3
PM11-JC 190	Soil			0.2	26.7	8.6	68	<0.1	109.4	16.4	194	3.64	0.7	<0.5	1.6	41	<0.1	<0.1	<0.1	57	0.21	0.043	4
PM11-JC 191	Soil			0.3	13.0	6.0	53	<0.1	48.3	7.9	77	2.21	<0.5	0.5	0.7	29	<0.1	<0.1	0.1	38	0.18	0.062	2
PM11-JC 192	Soil			0.4	11.3	5.8	43	<0.1	51.1	7.4	106	2.04	0.6	<0.5	0.7	20	<0.1	<0.1	0.1	37	0.16	0.056	2
PM11-JC 193	Soil			0.3	27.1	9.6	52	<0.1	131.8	19.3	251	3.45	0.7	<0.5	1.6	57	0.1	<0.1	0.1	60	0.37	0.034	3
PM11-JC 194	Soil			0.4	15.7	7.3	50	<0.1	65.5	11.3	182	2.40	0.7	<0.5	0.9	23	<0.1	<0.1	<0.1	44	0.15	0.051	2
PM11-JC 195	Soil			0.2	12.5	4.3	36	0.1	29.6	5.1	237	1.55	2.1	0.7	0.5	30	<0.1	<0.1	<0.1	34	0.18	0.021	4
PM11-JC 196	Soil			0.3	15.2	5.7	37	0.4	40.1	6.4	80	1.83	1.7	<0.5	0.7	35	<0.1	<0.1	0.1	36	0.21	0.043	3
PM11-JC 197	Soil			1.1	22.0	6.1	57	0.4	51.6	9.2	130	2.41	2.9	<0.5	1.1	39	0.1	0.1	0.1	54	0.23	0.073	4
PM11-JC 198	Soil			1.1	13.1	6.4	46	0.4	35.8	6.6	81	1.85	1.6	<0.5	0.9	16	0.2	<0.1	0.1	38	0.11	0.134	2

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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	
PM11-JC 169	Soil			45	0.44	176	0.098	<1	2.85	0.040	0.15	<0.1	0.02	5.4	0.2	<0.05	7	<0.5	<0.2
PM11-JC 170	Soil			22	0.26	215	0.099	<1	2.75	0.021	0.05	<0.1	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 171	Soil			16	0.17	63	0.075	<1	1.70	0.018	0.05	<0.1	0.03	1.0	<0.1	<0.05	6	<0.5	<0.2
PM11-JC 172	Soil			17	0.18	89	0.095	<1	2.21	0.015	0.05	<0.1	0.05	1.3	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 173	Soil			15	0.17	95	0.083	<1	2.07	0.020	0.08	<0.1	0.03	1.5	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 174	Soil			22	0.18	153	0.092	<1	2.93	0.020	0.06	<0.1	0.02	1.7	<0.1	<0.05	8	<0.5	<0.2
PM11-JC 175	Soil			39	0.47	168	0.091	<1	2.86	0.021	0.07	<0.1	0.01	2.6	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 176	Soil			26	0.29	105	0.083	<1	2.47	0.017	0.06	<0.1	0.04	1.6	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 177	Soil			11	0.15	64	0.064	<1	1.72	0.030	0.04	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
PM11-JC 178	Soil			20	0.26	99	0.079	<1	1.92	0.026	0.05	<0.1	<0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JC 179	Soil			24	0.28	63	0.097	<1	1.54	0.040	0.04	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JC 180	Soil			24	0.24	109	0.078	1	3.20	0.018	0.07	<0.1	0.02	1.8	<0.1	<0.05	9	<0.5	<0.2
PM11-JC 181	Soil			24	0.24	72	0.071	<1	2.49	0.012	0.05	<0.1	0.02	1.4	<0.1	<0.05	8	<0.5	<0.2
PM11-JC 182	Soil			19	0.17	132	0.059	<1	2.02	0.017	0.05	<0.1	0.01	1.9	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 183	Soil			31	0.33	166	0.097	1	3.82	0.027	0.06	<0.1	0.01	2.4	0.1	<0.05	10	<0.5	<0.2
PM11-JC 184	Soil			48	0.58	191	0.092	<1	3.61	0.023	0.06	<0.1	0.01	3.6	<0.1	<0.05	9	<0.5	<0.2
PM11-JC 185	Soil			20	0.18	128	0.086	1	2.69	0.019	0.08	<0.1	0.02	1.6	<0.1	<0.05	8	<0.5	<0.2
PM11-JC 186	Soil			36	0.43	135	0.088	<1	3.42	0.019	0.09	<0.1	0.03	2.4	<0.1	<0.05	9	<0.5	<0.2
PM11-JC 187	Soil			25	0.26	128	0.084	<1	2.84	0.021	0.06	<0.1	0.03	1.7	<0.1	<0.05	8	<0.5	<0.2
PM11-JC 188	Soil			69	1.18	163	0.091	<1	4.79	0.017	0.13	<0.1	0.03	4.8	<0.1	<0.05	11	<0.5	<0.2
PM11-JC 189	Soil			36	0.38	146	0.092	1	3.70	0.020	0.08	<0.1	0.03	2.2	<0.1	<0.05	10	<0.5	<0.2
PM11-JC 190	Soil			74	1.51	163	0.081	<1	4.58	0.026	0.12	<0.1	0.02	4.6	<0.1	<0.05	10	<0.5	<0.2
PM11-JC 191	Soil			35	0.39	89	0.082	<1	2.96	0.021	0.06	<0.1	0.02	2.2	<0.1	<0.05	9	<0.5	<0.2
PM11-JC 192	Soil			32	0.31	90	0.082	<1	2.50	0.019	0.05	<0.1	0.05	2.0	<0.1	<0.05	9	<0.5	<0.2
PM11-JC 193	Soil			76	0.89	174	0.097	<1	4.42	0.025	0.12	<0.1	0.03	5.1	<0.1	<0.05	11	<0.5	<0.2
PM11-JC 194	Soil			39	0.46	162	0.088	<1	3.40	0.023	0.05	<0.1	0.02	2.6	<0.1	<0.05	9	<0.5	<0.2
PM11-JC 195	Soil			22	0.28	107	0.072	<1	1.56	0.027	0.05	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
PM11-JC 196	Soil			30	0.47	127	0.073	<1	1.95	0.023	0.06	<0.1	0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
PM11-JC 197	Soil			36	0.56	181	0.078	<1	2.58	0.022	0.07	<0.1	0.02	3.4	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 198	Soil			23	0.26	140	0.080	<1	2.14	0.018	0.05	<0.1	0.04	2.0	<0.1	<0.05	8	<0.5	<0.2

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 Report Date: August 03, 2011

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CERTIFICATE OF ANALYSIS

VAN11003327.1

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	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	
PM11-JC 199	Soil			1.1	10.0	4.9	44	0.3	24.5	5.5	87	1.78	1.6	<0.5	0.8	12	0.1	<0.1	0.1	41	0.06	0.103	2
PM11-JC 200	Soil			1.2	30.9	7.9	63	0.3	84.5	13.4	162	3.25	6.0	<0.5	1.8	34	0.2	0.2	0.1	72	0.17	0.103	4
PM11-JC 201	Soil			0.6	19.2	7.5	64	0.1	75.7	11.5	202	2.49	2.4	<0.5	1.6	30	0.1	0.1	0.2	47	0.19	0.111	4
PM11-JC 202	Soil			0.6	17.1	7.6	74	<0.1	55.7	9.8	211	2.41	2.5	<0.5	1.4	34	0.2	0.1	0.1	52	0.18	0.089	4
PM11-JC 203	Soil			0.8	10.3	6.3	46	<0.1	28.5	8.0	242	2.02	1.9	<0.5	1.1	25	<0.1	0.1	0.1	50	0.16	0.039	3
PM11-JC 204	Soil			0.4	10.1	4.5	49	<0.1	19.2	6.1	250	1.88	0.7	<0.5	0.6	20	<0.1	<0.1	<0.1	49	0.14	0.043	2
PM11-JC 205	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
PM11-JC 206	Soil			0.4	8.8	4.3	37	<0.1	11.8	3.9	157	1.52	0.9	<0.5	1.1	12	<0.1	<0.1	0.1	33	0.07	0.109	3
PM11-JC 207	Soil			0.3	5.5	5.0	33	<0.1	10.2	3.7	98	1.15	0.8	<0.5	0.9	11	0.1	<0.1	<0.1	28	0.06	0.095	2
PM11-JC 208	Soil			0.4	10.3	6.2	44	<0.1	12.3	4.3	168	1.56	1.3	<0.5	1.5	15	<0.1	<0.1	0.1	32	0.09	0.102	4
PM11-JC 209	Soil			0.4	6.4	5.2	41	<0.1	8.1	3.4	412	1.48	1.1	<0.5	1.0	18	0.1	<0.1	<0.1	31	0.11	0.143	3
PM11-JC 210	Soil			0.3	9.7	5.8	44	<0.1	14.0	3.8	180	1.48	1.2	<0.5	1.3	20	0.1	<0.1	0.1	30	0.13	0.119	3
PM11-JC 211	Soil			0.7	9.8	6.4	45	<0.1	13.6	6.0	125	1.87	1.3	<0.5	1.3	19	<0.1	<0.1	0.1	40	0.10	0.119	5
PM11-JC 212	Soil			0.5	6.9	6.1	62	<0.1	18.1	5.1	301	1.56	0.6	<0.5	1.1	20	<0.1	<0.1	0.1	34	0.10	0.122	5
PM11-JC 213	Soil			0.6	8.9	10.0	59	<0.1	23.9	8.3	363	2.14	<0.5	<0.5	1.3	31	0.2	<0.1	0.1	48	0.14	0.050	5
PM11-JC 214	Soil			0.3	13.0	6.2	75	<0.1	16.2	7.6	332	2.39	0.7	<0.5	2.0	24	0.2	<0.1	0.1	62	0.16	0.081	4
PM11-JC 215	Soil			0.3	6.8	5.4	95	<0.1	20.8	5.8	427	1.55	<0.5	<0.5	1.4	21	<0.1	<0.1	0.1	35	0.10	0.118	4
PM11-JC 216	Soil			0.8	6.5	6.4	67	<0.1	17.1	5.1	372	1.46	1.7	<0.5	1.5	15	<0.1	<0.1	0.2	31	0.08	0.124	3
PM11-JC 217	Soil			0.7	5.5	5.7	61	<0.1	8.4	3.2	439	1.20	1.1	<0.5	1.1	14	<0.1	<0.1	0.2	30	0.08	0.103	3
PM11-JC 218	Soil			0.5	5.1	3.9	53	<0.1	4.8	3.6	312	1.51	1.3	<0.5	0.9	11	<0.1	<0.1	0.2	37	0.09	0.138	2
PM11-JC 219	Soil			0.5	3.1	5.1	36	<0.1	5.6	2.9	162	1.19	0.7	1.4	0.8	11	<0.1	<0.1	0.2	31	0.07	0.054	2
PM11-JC 220	Soil			0.3	4.6	5.5	46	<0.1	7.0	2.8	312	1.10	1.0	<0.5	1.1	18	<0.1	<0.1	0.2	26	0.11	0.142	2
PM11-JC 221	Soil			0.4	7.9	4.8	58	<0.1	15.9	5.6	344	1.52	0.6	<0.5	1.0	21	<0.1	<0.1	0.1	37	0.11	0.073	3
PM11-JC 222	Soil			0.4	8.0	5.5	48	<0.1	6.9	3.4	266	1.30	1.1	<0.5	1.6	19	<0.1	<0.1	0.1	31	0.11	0.102	4
PM11-JC 223	Soil			0.7	10.2	5.4	74	<0.1	10.8	4.8	253	1.55	1.0	<0.5	1.4	17	0.1	<0.1	0.1	40	0.08	0.131	4
PM11-JC 224	Soil			0.6	10.4	5.9	76	<0.1	12.3	5.2	154	1.77	1.3	<0.5	1.3	20	<0.1	<0.1	0.2	45	0.11	0.119	3
PM11-JC 225	Soil			0.6	4.4	4.7	23	<0.1	5.2	2.1	123	0.93	0.7	<0.5	0.8	13	<0.1	<0.1	0.1	24	0.05	0.084	2
PM11-JC 226	Soil			0.8	8.5	7.4	56	<0.1	17.0	4.4	173	1.53	2.6	<0.5	1.0	19	0.1	0.1	0.2	33	0.08	0.168	2
PM11-JC 227	Soil			0.3	11.0	6.3	64	<0.1	13.4	4.4	1189	1.43	1.3	<0.5	1.1	35	0.1	<0.1	0.2	45	0.13	0.054	4
PM11-JC 228	Soil			0.4	11.9	5.0	43	<0.1	15.0	5.3	120	1.67	0.8	<0.5	1.6	34	<0.1	<0.1	0.1	44	0.11	0.057	3

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Project: PLACER MTN.
 Report Date: August 03, 2011

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CERTIFICATE OF ANALYSIS

VAN11003327.1

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	
PM11-JC 199	Soil			18	0.18	85	0.075	<1	2.10	0.019	0.03	<0.1	0.03	1.8	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 200	Soil			52	0.81	157	0.092	<1	3.62	0.016	0.08	<0.1	0.02	4.9	<0.1	<0.05	10	<0.5	<0.2
PM11-JC 201	Soil			39	0.51	176	0.106	<1	3.40	0.018	0.08	<0.1	0.04	3.8	<0.1	<0.05	10	<0.5	<0.2
PM11-JC 202	Soil			39	0.37	212	0.106	<1	3.54	0.021	0.08	<0.1	0.02	3.3	<0.1	<0.05	10	<0.5	<0.2
PM11-JC 203	Soil			23	0.22	104	0.084	<1	2.20	0.020	0.05	<0.1	0.02	2.0	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 204	Soil			29	0.24	70	0.092	<1	2.28	0.017	0.03	<0.1	0.02	1.6	<0.1	<0.05	8	<0.5	<0.2
PM11-JC 205	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
PM11-JC 206	Soil			20	0.15	71	0.080	<1	2.16	0.017	0.03	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 207	Soil			11	0.09	57	0.089	<1	2.16	0.018	0.03	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
PM11-JC 208	Soil			13	0.11	84	0.104	<1	2.67	0.020	0.03	0.1	0.03	1.8	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 209	Soil			9	0.07	70	0.087	<1	2.06	0.020	0.03	0.1	0.04	1.2	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 210	Soil			21	0.16	98	0.109	1	2.50	0.021	0.04	0.1	0.05	2.0	<0.1	<0.05	8	<0.5	<0.2
PM11-JC 211	Soil			15	0.22	96	0.104	1	2.06	0.018	0.08	<0.1	0.04	1.3	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 212	Soil			11	0.13	98	0.099	1	2.20	0.022	0.06	0.1	0.03	1.2	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 213	Soil			14	0.21	143	0.134	<1	2.59	0.021	0.05	<0.1	0.02	1.1	<0.1	<0.05	8	<0.5	<0.2
PM11-JC 214	Soil			15	0.27	114	0.126	1	2.26	0.019	0.12	0.1	0.02	1.8	<0.1	<0.05	8	<0.5	<0.2
PM11-JC 215	Soil			14	0.17	111	0.092	<1	1.78	0.017	0.05	0.1	0.03	1.2	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 216	Soil			12	0.11	81	0.113	3	2.36	0.017	0.04	0.2	0.03	1.2	<0.1	<0.05	7	0.8	<0.2
PM11-JC 217	Soil			7	0.07	70	0.093	2	1.74	0.021	0.03	0.1	0.03	0.8	<0.1	<0.05	6	1.5	<0.2
PM11-JC 218	Soil			6	0.08	31	0.084	3	1.83	0.023	0.02	<0.1	0.05	1.0	<0.1	<0.05	5	1.4	<0.2
PM11-JC 219	Soil			9	0.08	59	0.083	2	1.20	0.017	0.03	<0.1	0.02	0.7	<0.1	<0.05	5	1.2	<0.2
PM11-JC 220	Soil			13	0.08	62	0.083	2	1.58	0.018	0.03	<0.1	0.03	1.1	<0.1	<0.05	5	1.2	<0.2
PM11-JC 221	Soil			32	0.17	66	0.080	2	1.87	0.018	0.03	<0.1	0.03	1.4	<0.1	<0.05	6	0.7	<0.2
PM11-JC 222	Soil			8	0.11	72	0.091	3	2.16	0.020	0.04	<0.1	0.02	1.3	<0.1	<0.05	6	1.0	<0.2
PM11-JC 223	Soil			12	0.17	97	0.096	2	2.04	0.016	0.06	0.1	0.03	1.6	<0.1	<0.05	6	0.7	<0.2
PM11-JC 224	Soil			12	0.18	92	0.102	2	2.18	0.016	0.05	<0.1	0.03	1.5	<0.1	<0.05	7	0.8	<0.2
PM11-JC 225	Soil			6	0.06	52	0.066	1	1.40	0.014	0.03	<0.1	0.02	0.8	<0.1	<0.05	5	0.5	<0.2
PM11-JC 226	Soil			13	0.15	78	0.090	2	2.21	0.015	0.06	<0.1	0.04	1.0	<0.1	<0.05	7	0.9	<0.2
PM11-JC 227	Soil			26	0.21	169	0.076	2	1.83	0.021	0.05	<0.1	<0.01	2.1	<0.1	<0.05	6	0.9	<0.2
PM11-JC 228	Soil			22	0.21	117	0.104	2	2.20	0.019	0.05	<0.1	0.02	1.5	<0.1	<0.05	6	1.0	<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		
				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
PM11-JC 229	Soil			0.3	6.7	6.1	28	<0.1	8.1	2.7	56	1.12	1.0	<0.5	1.0	14	<0.1	<0.1	0.1	28	0.07	0.098	3
PM11-JC 230	Soil			0.7	6.4	5.3	31	<0.1	10.2	3.0	110	1.31	1.0	<0.5	1.1	12	<0.1	<0.1	0.1	31	0.06	0.083	2
PM11-JC 231	Soil			0.4	4.9	5.4	29	<0.1	6.4	2.6	165	1.11	0.7	<0.5	0.9	14	<0.1	<0.1	0.1	28	0.07	0.084	2
PM11-JC 232	Soil			0.4	6.9	6.4	42	<0.1	24.1	5.4	156	1.57	0.6	<0.5	0.9	21	<0.1	<0.1	0.1	37	0.10	0.058	2
PM11-JC 233	Soil			0.2	9.8	5.5	42	<0.1	32.5	5.3	96	1.64	1.1	<0.5	0.9	27	<0.1	<0.1	0.1	35	0.12	0.095	2
PM11-JC 234	Soil			0.1	6.9	4.7	25	<0.1	14.3	3.3	188	1.21	<0.5	<0.5	0.7	41	<0.1	<0.1	0.1	28	0.15	0.013	3
PM11-JC 235	Soil			0.1	11.1	4.6	30	<0.1	18.7	4.0	313	1.38	0.5	4.5	0.9	44	<0.1	<0.1	0.1	32	0.22	0.014	4
PM11-JC 236	Soil			0.2	8.9	5.4	36	<0.1	25.3	5.7	97	1.75	<0.5	<0.5	0.8	67	<0.1	<0.1	0.1	33	0.19	0.046	3
PM11-JC 237	Soil			0.2	15.6	6.2	31	<0.1	39.4	7.5	238	2.32	<0.5	<0.5	1.6	135	<0.1	0.1	0.1	43	0.31	0.018	8
PM11-JC 238	Soil			0.3	13.0	7.4	58	<0.1	34.7	6.9	352	1.88	0.9	<0.5	1.1	28	<0.1	<0.1	0.1	42	0.19	0.083	2
PM11-JC 239	Soil			0.4	9.0	6.3	37	<0.1	26.4	5.3	85	1.65	0.7	0.7	0.8	21	<0.1	<0.1	0.1	35	0.08	0.111	2
PM11-JC 240	Soil			0.1	10.5	3.9	32	<0.1	23.1	4.5	268	1.46	<0.5	<0.5	0.8	51	<0.1	<0.1	<0.1	32	0.16	0.014	5
PM11-JC 241	Soil			<0.1	13.9	3.7	30	<0.1	28.0	5.4	377	1.57	<0.5	<0.5	1.4	50	<0.1	<0.1	<0.1	35	0.22	0.015	11
PM11-JC 242	Soil			0.5	10.1	4.3	60	<0.1	21.5	6.4	815	1.70	<0.5	1.7	0.9	131	<0.1	<0.1	0.1	27	0.23	0.070	3
PM11-JC 243	Soil			0.2	8.7	5.1	47	<0.1	21.8	6.2	356	1.69	<0.5	<0.5	0.8	48	<0.1	<0.1	<0.1	32	0.15	0.046	2
PM11-JC 244	Soil			<0.1	14.6	7.1	42	<0.1	46.4	8.9	207	2.17	<0.5	<0.5	1.6	132	<0.1	<0.1	<0.1	32	0.25	0.029	2
PM11-JC 245	Soil			<0.1	9.1	4.8	28	<0.1	21.8	4.5	95	1.55	<0.5	<0.5	0.8	64	<0.1	<0.1	<0.1	29	0.20	0.020	2
PM11-JC 246	Soil			0.1	9.2	4.6	36	<0.1	23.8	4.1	105	1.27	0.5	0.6	0.9	22	<0.1	<0.1	0.1	28	0.14	0.086	3
PM11-JC 247	Soil			0.3	14.0	5.9	42	<0.1	43.1	7.9	101	2.00	0.6	<0.5	1.0	44	<0.1	<0.1	0.1	37	0.21	0.114	3
PMS-26	Rock Pulp			111.5	3252	24.4	63	2.5	33.5	18.7	397	4.19	56.8	470.1	2.1	31	0.5	3.9	0.5	116	0.31	0.095	10
PM11-JC 248	Soil			0.3	18.4	5.5	48	<0.1	40.4	9.2	121	2.04	1.3	<0.5	1.5	34	<0.1	<0.1	0.1	43	0.17	0.090	3
PM11-JC 249	Soil			0.4	12.8	5.1	50	<0.1	21.1	6.5	287	1.59	1.1	1.7	1.1	22	<0.1	<0.1	0.1	36	0.15	0.084	3
PM11-JC 250	Soil			0.1	7.5	3.9	38	<0.1	14.6	3.7	54	1.28	1.2	<0.5	0.6	12	<0.1	<0.1	<0.1	29	0.09	0.096	2
PM11-JC 251	Soil			<0.1	8.4	3.1	23	<0.1	15.6	3.8	158	1.14	0.8	<0.5	0.5	27	<0.1	<0.1	<0.1	28	0.18	0.016	2
PM11-JC 252	Soil			0.4	20.0	5.7	49	<0.1	39.4	9.1	92	1.92	0.7	<0.5	1.1	15	<0.1	<0.1	0.1	43	0.11	0.085	2
PM11-JC 253	Soil			0.3	12.3	5.8	47	<0.1	37.0	6.9	87	1.70	0.9	0.6	1.1	17	<0.1	<0.1	0.1	37	0.15	0.194	2
PM11-JC 254	Soil			0.2	74.7	6.2	55	0.3	104.2	12.4	503	3.51	2.3	<0.5	2.6	97	0.2	0.2	0.1	67	0.99	0.065	33
PM11-JC 255	Soil			0.1	20.2	4.1	30	<0.1	27.3	4.8	126	1.68	0.6	1.0	1.0	37	<0.1	<0.1	<0.1	41	0.26	0.011	4
PM11-JC 256	Soil			0.1	16.5	4.4	38	<0.1	24.9	5.4	137	1.64	0.8	0.7	1.3	53	<0.1	<0.1	<0.1	43	0.30	0.010	5
PM11-JC 257	Soil			0.1	9.6	2.9	27	<0.1	15.7	3.5	143	1.13	<0.5	0.5	0.5	21	<0.1	<0.1	<0.1	31	0.20	0.011	3

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Project: PLACER MTN.
 Report Date: August 03, 2011

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CERTIFICATE OF ANALYSIS

VAN11003327.1

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	
PM11-JC 229	Soil			9	0.09	75	0.078	1	1.81	0.018	0.04	<0.1	0.03	1.1	<0.1	<0.05	6	0.6	<0.2
PM11-JC 230	Soil			8	0.07	38	0.088	<1	1.98	0.016	0.03	<0.1	0.02	0.8	<0.1	<0.05	6	0.9	<0.2
PM11-JC 231	Soil			7	0.06	39	0.076	<1	1.55	0.015	0.03	<0.1	0.03	0.7	<0.1	<0.05	6	1.1	<0.2
PM11-JC 232	Soil			17	0.17	85	0.098	2	2.23	0.015	0.05	<0.1	0.01	0.8	<0.1	<0.05	7	0.5	<0.2
PM11-JC 233	Soil			21	0.24	102	0.081	1	2.35	0.017	0.05	<0.1	<0.01	1.4	<0.1	<0.05	8	1.4	<0.2
PM11-JC 234	Soil			18	0.21	56	0.070	<1	1.31	0.027	0.04	<0.1	<0.01	1.4	<0.1	<0.05	4	0.8	<0.2
PM11-JC 235	Soil			24	0.29	59	0.072	<1	1.69	0.031	0.05	<0.1	<0.01	2.6	<0.1	<0.05	5	0.5	<0.2
PM11-JC 236	Soil			26	0.28	100	0.087	<1	1.82	0.026	0.07	<0.1	<0.01	1.5	<0.1	<0.05	6	0.7	<0.2
PM11-JC 237	Soil			45	0.53	140	0.099	1	1.87	0.044	0.10	<0.1	<0.01	3.5	<0.1	<0.05	5	0.7	<0.2
PM11-JC 238	Soil			25	0.24	92	0.100	3	2.60	0.015	0.09	<0.1	0.03	1.5	<0.1	<0.05	8	0.9	<0.2
PM11-JC 239	Soil			21	0.21	79	0.086	1	2.02	0.016	0.04	<0.1	<0.01	1.3	<0.1	<0.05	7	0.5	<0.2
PM11-JC 240	Soil			23	0.25	81	0.069	1	1.43	0.028	0.04	<0.1	<0.01	2.0	<0.1	<0.05	4	0.8	<0.2
PM11-JC 241	Soil			26	0.31	71	0.068	1	1.51	0.029	0.04	<0.1	0.02	4.9	<0.1	<0.05	5	1.0	<0.2
PM11-JC 242	Soil			25	0.39	136	0.058	1	1.94	0.019	0.06	<0.1	0.02	1.8	<0.1	<0.05	6	0.6	<0.2
PM11-JC 243	Soil			18	0.24	90	0.072	1	1.94	0.021	0.05	<0.1	<0.01	1.1	<0.1	<0.05	6	0.8	<0.2
PM11-JC 244	Soil			41	0.50	85	0.075	1	2.41	0.023	0.07	<0.1	<0.01	3.0	<0.1	<0.05	6	0.9	<0.2
PM11-JC 245	Soil			25	0.28	50	0.070	2	1.67	0.027	0.06	<0.1	<0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-JC 246	Soil			15	0.16	98	0.068	<1	1.87	0.020	0.04	<0.1	0.01	1.3	<0.1	<0.05	6	1.1	<0.2
PM11-JC 247	Soil			38	0.34	147	0.085	<1	3.09	0.020	0.07	<0.1	0.01	1.9	<0.1	<0.05	8	0.6	<0.2
PMS-26	Rock Pulp			48	0.90	45	0.104	1	1.31	0.035	0.93	4.0	0.07	8.7	0.5	1.88	5	7.5	0.9
PM11-JC 248	Soil			40	0.33	132	0.105	<1	3.12	0.022	0.06	<0.1	0.02	2.1	<0.1	<0.05	8	0.5	<0.2
PM11-JC 249	Soil			18	0.24	105	0.093	2	2.29	0.019	0.07	<0.1	0.02	1.4	<0.1	<0.05	7	0.6	<0.2
PM11-JC 250	Soil			16	0.11	66	0.069	<1	1.67	0.015	0.03	<0.1	<0.01	1.2	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 251	Soil			19	0.16	51	0.069	2	1.50	0.029	0.06	<0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
PM11-JC 252	Soil			27	0.28	160	0.105	<1	3.08	0.015	0.04	<0.1	0.02	1.8	<0.1	<0.05	8	<0.5	<0.2
PM11-JC 253	Soil			23	0.19	110	0.087	1	2.57	0.015	0.05	<0.1	0.02	1.5	<0.1	<0.05	7	<0.5	<0.2
PM11-JC 254	Soil			99	0.96	199	0.062	2	5.27	0.013	0.10	<0.1	0.09	14.8	<0.1	<0.05	11	0.7	<0.2
PM11-JC 255	Soil			31	0.30	71	0.083	<1	1.67	0.032	0.04	<0.1	0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
PM11-JC 256	Soil			35	0.41	84	0.088	<1	1.45	0.041	0.05	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PM11-JC 257	Soil			19	0.18	59	0.060	<1	1.19	0.023	0.03	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2

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Project: PLACER MTN.
 Report Date: August 03, 2011

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CERTIFICATE OF ANALYSIS

VAN11003327.1

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	
PM11-JC 258	Soil		0.4	14.8	6.9	40	<0.1	29.4	5.4	126	1.66	1.8	<0.5	1.1	16	<0.1	<0.1	0.1	41	0.15	0.144	3
PM11-JC 259	Soil		0.3	8.7	4.2	28	<0.1	23.0	4.5	63	1.44	0.7	<0.5	0.6	16	<0.1	<0.1	<0.1	35	0.11	0.068	2
PM11-JC 260	Soil		0.4	19.1	5.2	36	<0.1	34.9	8.2	142	1.80	1.3	1.1	1.3	15	<0.1	<0.1	0.1	43	0.14	0.107	4
PM11-JC 261	Soil		0.6	10.6	5.0	55	<0.1	34.6	7.4	262	1.72	0.9	<0.5	0.9	8	<0.1	<0.1	0.1	40	0.08	0.124	2
PM11-JC 262	Soil		0.4	11.1	4.5	42	<0.1	29.3	6.8	76	1.49	0.9	<0.5	1.1	8	<0.1	<0.1	<0.1	33	0.08	0.112	2
PM11-JC 263	Soil		0.6	6.4	4.3	33	<0.1	16.7	4.5	63	1.40	0.9	<0.5	0.9	6	<0.1	<0.1	<0.1	36	0.06	0.091	1
PM11-JC 264	Soil		0.6	7.0	4.8	36	<0.1	19.5	5.1	75	1.54	1.3	<0.5	1.0	6	<0.1	<0.1	0.1	37	0.05	0.113	1
PM11-JC 265	Soil		0.4	11.6	3.7	42	<0.1	23.1	6.1	115	1.40	0.6	0.9	0.7	8	<0.1	<0.1	<0.1	37	0.08	0.062	2
PM11-JC 266	Soil		0.1	14.0	2.3	24	<0.1	28.6	6.0	123	1.32	<0.5	1.6	0.5	19	<0.1	<0.1	<0.1	42	0.22	0.016	3
PM11-JC 267	Soil		0.1	14.7	3.4	25	<0.1	24.4	3.7	163	1.29	0.6	0.8	0.7	28	<0.1	<0.1	<0.1	34	0.25	0.013	5
PM11-JC 268	Soil		0.2	38.1	5.5	28	<0.1	41.2	6.6	267	1.76	1.7	1.0	1.3	47	0.1	0.1	<0.1	45	0.46	0.025	17
PM11-JC 269	Soil		0.2	15.0	4.5	38	<0.1	33.6	6.5	165	1.71	0.9	5.2	1.0	32	<0.1	0.1	<0.1	42	0.29	0.019	4
PM11-JC 270	Soil		0.1	10.5	3.6	24	<0.1	19.5	4.7	83	1.31	0.5	<0.5	0.6	21	<0.1	<0.1	<0.1	35	0.23	0.014	3
PM11-JC 271	Soil		0.2	8.8	4.1	26	0.1	14.7	3.8	123	1.28	<0.5	0.9	0.3	26	<0.1	<0.1	0.1	32	0.21	0.023	3
PM11-JC 272	Soil		0.1	17.0	5.5	18	<0.1	25.7	3.5	99	1.31	<0.5	1.1	1.0	44	<0.1	0.1	0.3	26	0.35	0.021	4
PM11-JC 273	Soil		0.1	13.1	4.8	15	<0.1	18.8	2.6	80	1.23	<0.5	1.4	0.8	36	<0.1	<0.1	0.2	22	0.27	0.019	3
PM11-JC 274	Soil		0.1	12.2	4.7	28	<0.1	22.2	4.3	216	1.32	<0.5	18.4	0.5	31	<0.1	<0.1	0.1	26	0.22	0.013	3
PM11-JC 275	Soil		0.2	13.9	4.8	31	<0.1	43.8	6.7	121	1.72	<0.5	2.5	0.6	35	<0.1	<0.1	0.1	28	0.24	0.037	2
PM11-JC 276	Soil		0.1	5.6	4.1	18	<0.1	13.2	2.1	38	1.03	<0.5	3.0	0.2	17	<0.1	<0.1	<0.1	20	0.08	0.012	2
PM11-JC 277	Soil		0.2	31.6	7.5	40	<0.1	90.4	11.5	135	2.54	<0.5	2.1	1.7	68	<0.1	<0.1	0.1	53	0.45	0.025	7
PM11-JC 278	Soil		0.2	18.2	4.7	34	<0.1	47.3	8.6	134	1.90	<0.5	1.0	0.9	47	<0.1	0.1	<0.1	42	0.40	0.022	5
PM11-JC 279	Soil		0.3	35.6	5.0	48	0.1	61.5	6.5	558	2.36	0.9	1.1	1.6	72	<0.1	0.1	0.1	53	0.53	0.090	15
PM11-JC 280	Soil		0.1	11.9	3.9	23	<0.1	19.6	3.1	190	1.27	<0.5	0.7	0.8	29	<0.1	<0.1	<0.1	29	0.22	0.013	4
PM11-JC 281	Soil		0.4	9.2	5.0	41	<0.1	29.3	5.4	105	1.69	0.5	0.6	1.1	12	<0.1	<0.1	0.1	35	0.10	0.158	3
PM11-JC 282	Soil		0.2	7.2	4.2	29	<0.1	18.2	3.3	80	1.33	<0.5	2.1	0.3	8	<0.1	<0.1	<0.1	31	0.07	0.020	1
PM11-JC 283	Soil		0.3	19.1	6.0	58	<0.1	70.2	9.2	112	2.23	1.9	<0.5	1.6	27	<0.1	<0.1	0.2	58	0.16	0.130	3
PM11-JC 284	Soil		0.3	9.6	4.8	28	<0.1	27.9	4.8	57	1.50	<0.5	0.8	0.8	16	<0.1	<0.1	0.1	34	0.10	0.137	3
PM11-JC 285	Soil		0.2	24.2	3.7	33	<0.1	41.4	7.6	250	1.94	<0.5	1.6	1.0	53	<0.1	0.1	0.1	45	0.39	0.016	10
PM11-JC 286	Soil		0.4	9.1	5.3	25	<0.1	14.5	3.1	43	1.48	0.8	1.0	0.9	17	<0.1	<0.1	0.1	36	0.08	0.182	3
PM11-JC 287	Soil		0.3	9.4	5.5	23	<0.1	14.5	2.5	43	1.30	0.7	<0.5	0.9	17	<0.1	<0.1	0.1	31	0.08	0.148	3

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Project: PLACER MTN.
Report Date: August 03, 2011

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CERTIFICATE OF ANALYSIS

VAN11003327.1

Method Analyte Unit MDL	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			
PM11-JC 258	Soil	22	0.21	92	0.100	<1	2.66	0.015	0.06	<0.1	0.02	1.9	<0.1	<0.05	9	<0.5	<0.2	
PM11-JC 259	Soil	17	0.17	60	0.078	<1	1.65	0.016	0.03	<0.1	0.02	1.2	<0.1	<0.05	7	<0.5	<0.2	
PM11-JC 260	Soil	30	0.30	116	0.091	<1	2.91	0.017	0.05	<0.1	0.03	1.9	<0.1	<0.05	7	<0.5	<0.2	
PM11-JC 261	Soil	22	0.19	70	0.089	<1	2.42	0.015	0.04	<0.1	0.02	1.4	<0.1	<0.05	7	<0.5	<0.2	
PM11-JC 262	Soil	22	0.17	61	0.083	<1	2.42	0.016	0.03	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2	
PM11-JC 263	Soil	11	0.09	37	0.084	<1	2.06	0.017	0.02	<0.1	0.02	0.9	<0.1	<0.05	6	<0.5	<0.2	
PM11-JC 264	Soil	13	0.11	41	0.087	<1	2.24	0.014	0.02	<0.1	0.02	0.9	<0.1	<0.05	6	<0.5	<0.2	
PM11-JC 265	Soil	22	0.19	46	0.073	<1	1.51	0.015	0.03	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2	
PM11-JC 266	Soil	39	0.41	67	0.068	<1	1.20	0.024	0.03	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2	
PM11-JC 267	Soil	27	0.27	75	0.065	<1	1.38	0.027	0.04	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2	
PM11-JC 268	Soil	44	0.49	141	0.066	2	2.03	0.033	0.07	<0.1	0.03	5.7	<0.1	<0.05	5	<0.5	<0.2	
PM11-JC 269	Soil	39	0.39	82	0.088	<1	1.82	0.023	0.06	<0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2	
PM11-JC 270	Soil	33	0.32	47	0.073	<1	1.32	0.022	0.04	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2	
PM11-JC 271	Soil	20	0.20	41	0.064	1	1.20	0.021	0.04	<0.1	0.03	1.3	<0.1	<0.05	4	<0.5	<0.2	
PM11-JC 272	Soil	29	0.41	91	0.078	2	1.83	0.041	0.06	<0.1	0.02	3.1	<0.1	<0.05	5	0.5	<0.2	
PM11-JC 273	Soil	22	0.27	74	0.066	<1	1.57	0.037	0.04	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2	
PM11-JC 274	Soil	27	0.31	87	0.075	<1	1.69	0.038	0.04	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2	
PM11-JC 275	Soil	38	0.55	60	0.072	1	2.08	0.037	0.07	<0.1	0.01	2.7	<0.1	<0.05	6	<0.5	<0.2	
PM11-JC 276	Soil	14	0.15	33	0.059	<1	1.09	0.026	0.02	<0.1	<0.01	1.0	<0.1	<0.05	4	<0.5	<0.2	
PM11-JC 277	Soil	59	1.42	109	0.090	2	2.48	0.049	0.09	<0.1	0.03	6.5	<0.1	<0.05	6	<0.5	<0.2	
PM11-JC 278	Soil	50	0.71	77	0.092	1	1.49	0.049	0.06	<0.1	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2	
PM11-JC 279	Soil	57	0.54	174	0.077	<1	2.95	0.035	0.07	<0.1	0.05	6.0	<0.1	<0.05	8	<0.5	<0.2	
PM11-JC 280	Soil	22	0.26	69	0.068	<1	1.28	0.035	0.03	<0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2	
PM11-JC 281	Soil	22	0.18	89	0.091	<1	2.11	0.021	0.04	<0.1	0.02	1.8	<0.1	<0.05	7	<0.5	<0.2	
PM11-JC 282	Soil	19	0.17	23	0.075	1	1.13	0.016	0.03	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2	
PM11-JC 283	Soil	35	0.38	154	0.116	<1	3.63	0.024	0.06	<0.1	0.01	2.2	<0.1	<0.05	9	<0.5	<0.2	
PM11-JC 284	Soil	19	0.16	61	0.088	<1	1.78	0.020	0.03	<0.1	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2	
PM11-JC 285	Soil	58	0.65	85	0.088	<1	1.60	0.041	0.06	<0.1	0.02	4.4	<0.1	<0.05	4	<0.5	<0.2	
PM11-JC 286	Soil	13	0.11	50	0.089	<1	1.97	0.018	0.03	<0.1	0.03	1.2	<0.1	<0.05	7	<0.5	<0.2	
PM11-JC 287	Soil	14	0.12	55	0.083	<1	1.79	0.018	0.04	<0.1	0.03	1.2	<0.1	<0.05	7	<0.5	<0.2	

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CERTIFICATE OF ANALYSIS

VAN11003327.1

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	
PM11-JC 288	Soil	0.5	7.5	3.7	26	<0.1	15.8	4.1	82	1.44	<0.5	1.3	0.8	10	<0.1	<0.1	0.1	37	0.09	0.100	2
PM11-JC 289	Soil	<0.1	10.1	5.8	19	<0.1	12.9	2.6	59	1.10	<0.5	0.8	0.3	28	<0.1	<0.1	0.1	18	0.14	0.013	3
PM11-JC 290	Soil	0.1	7.1	3.7	19	<0.1	10.5	2.5	49	1.07	<0.5	<0.5	0.1	16	<0.1	<0.1	<0.1	21	0.09	0.016	2



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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
PM11-JC 288	Soil	25	0.20	34	0.086	<1	1.44	0.024	0.03	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
PM11-JC 289	Soil	17	0.18	72	0.077	<1	1.51	0.031	0.03	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
PM11-JC 290	Soil	15	0.16	37	0.054	<1	1.08	0.025	0.03	<0.1	0.01	0.7	<0.1	<0.05	4	<0.5	<0.2



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QUALITY CONTROL REPORT

VAN11003327.1

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																					
PM11-JC 123	Soil	0.3	12.8	4.3	28	0.2	17.2	4.2	39	1.47	2.9	<0.5	1.5	23	<0.1	<0.1	<0.1	39	0.21	0.240	3
REP PM11-JC 123	QC	0.2	12.9	4.4	27	0.2	16.5	4.0	38	1.46	2.7	<0.5	1.5	23	<0.1	<0.1	0.1	39	0.20	0.242	3
PM11-JC 129	Soil	0.2	20.4	4.5	27	<0.1	26.9	4.6	256	1.34	0.5	0.6	1.0	35	<0.1	<0.1	<0.1	36	0.23	0.016	7
REP PM11-JC 129	QC	0.2	21.0	4.6	26	<0.1	27.1	4.5	255	1.40	0.6	0.6	1.1	36	<0.1	<0.1	<0.1	38	0.24	0.016	7
PM11-JC 147	Soil	0.4	19.9	8.4	53	<0.1	58.9	10.8	216	2.35	1.5	<0.5	1.7	38	<0.1	<0.1	0.2	46	0.23	0.096	4
REP PM11-JC 147	QC	0.3	19.7	7.9	53	<0.1	58.4	10.8	213	2.34	1.4	<0.5	1.9	37	<0.1	<0.1	0.2	45	0.21	0.091	4
PM11-JC 174	Soil	0.5	13.6	6.3	52	<0.1	44.9	7.3	191	1.73	1.3	<0.5	1.5	15	<0.1	<0.1	0.2	34	0.10	0.098	2
REP PM11-JC 174	QC	0.6	13.6	6.8	51	<0.1	44.1	7.3	188	1.75	1.4	<0.5	1.5	15	<0.1	<0.1	0.1	34	0.11	0.097	2
PM11-JC 189	Soil	0.4	16.7	7.0	53	<0.1	69.5	11.8	141	2.39	1.0	<0.5	1.2	18	0.1	<0.1	0.1	43	0.13	0.087	3
REP PM11-JC 189	QC	0.3	16.8	6.5	54	<0.1	69.3	12.1	144	2.40	0.9	<0.5	1.2	17	<0.1	<0.1	0.1	43	0.12	0.087	3
PM11-JC 201	Soil	0.6	19.2	7.5	64	0.1	75.7	11.5	202	2.49	2.4	<0.5	1.6	30	0.1	0.1	0.2	47	0.19	0.111	4
REP PM11-JC 201	QC	0.5	19.7	8.4	64	0.1	76.4	11.5	203	2.42	2.5	<0.5	1.7	30	0.2	0.1	0.1	46	0.16	0.112	4
PM11-JC 218	Soil	0.5	5.1	3.9	53	<0.1	4.8	3.6	312	1.51	1.3	<0.5	0.9	11	<0.1	<0.1	0.2	37	0.09	0.138	2
REP PM11-JC 218	QC	0.5	4.9	4.2	50	<0.1	4.5	3.6	311	1.49	1.3	<0.5	0.8	11	0.1	<0.1	0.1	37	0.09	0.136	2
PM11-JC 235	Soil	0.1	11.1	4.6	30	<0.1	18.7	4.0	313	1.38	0.5	4.5	0.9	44	<0.1	<0.1	0.1	32	0.22	0.014	4
REP PM11-JC 235	QC	<0.1	10.7	4.4	28	<0.1	19.2	4.1	313	1.39	<0.5	<0.5	0.9	45	<0.1	<0.1	<0.1	32	0.22	0.013	4
PM11-JC 256	Soil	0.1	16.5	4.4	38	<0.1	24.9	5.4	137	1.64	0.8	0.7	1.3	53	<0.1	<0.1	<0.1	43	0.30	0.010	5
REP PM11-JC 256	QC	0.1	16.9	4.7	39	<0.1	26.2	5.6	136	1.74	0.6	0.8	1.5	54	<0.1	<0.1	0.1	43	0.32	0.011	5
PM11-JC 272	Soil	0.1	17.0	5.5	18	<0.1	25.7	3.5	99	1.31	<0.5	1.1	1.0	44	<0.1	0.1	0.3	26	0.35	0.021	4
REP PM11-JC 272	QC	0.1	17.2	5.8	19	<0.1	26.6	3.9	105	1.39	<0.5	1.9	1.1	44	<0.1	<0.1	0.2	28	0.36	0.019	5
Reference Materials																					
STD DS8	Standard	13.4	102.0	115.8	299	1.7	37.2	7.7	590	2.38	25.6	104.4	6.2	57	2.4	5.2	6.2	44	0.66	0.074	13
STD DS8	Standard	13.1	103.5	121.4	301	1.8	36.7	7.8	601	2.32	24.9	106.1	6.3	56	2.4	5.2	6.3	44	0.67	0.079	13
STD DS8	Standard	13.7	106.0	137.5	320	1.8	38.3	7.4	621	2.52	25.8	121.1	6.9	78	2.1	6.1	7.2	41	0.70	0.077	15
STD DS8	Standard	13.5	108.0	127.0	312	1.8	39.0	8.1	641	2.52	25.6	124.2	6.8	77	2.1	6.6	7.7	42	0.72	0.078	15
STD DS8	Standard	13.3	101.2	104.3	286	1.7	33.5	6.8	574	2.34	25.9	106.0	5.9	61	2.0	5.1	5.5	40	0.66	0.074	14
STD DS8	Standard	13.5	106.6	108.7	299	1.7	37.7	7.5	626	2.46	25.9	105.1	6.3	63	2.2	5.1	6.0	41	0.69	0.078	15
STD DS8	Standard	12.3	101.5	124.5	300	1.8	36.3	6.7	580	2.39	26.0	115.1	6.7	69	2.1	5.9	7.1	38	0.64	0.082	13

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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																	
PM11-JC 123	Soil	18	0.13	104	0.085	1	2.03	0.016	0.04	<0.1	0.04	2.4	<0.1	<0.05	6	<0.5	<0.2
REP PM11-JC 123	QC	18	0.13	102	0.081	<1	2.02	0.016	0.04	<0.1	0.04	2.2	<0.1	<0.05	6	<0.5	<0.2
PM11-JC 129	Soil	24	0.28	88	0.073	<1	1.50	0.026	0.07	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
REP PM11-JC 129	QC	25	0.29	87	0.077	<1	1.56	0.028	0.07	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JC 147	Soil	36	0.36	146	0.131	2	3.15	0.021	0.12	<0.1	0.01	2.6	<0.1	<0.05	9	<0.5	<0.2
REP PM11-JC 147	QC	35	0.35	142	0.123	3	3.12	0.021	0.12	<0.1	0.02	2.7	<0.1	<0.05	9	<0.5	<0.2
PM11-JC 174	Soil	22	0.18	153	0.092	<1	2.93	0.020	0.06	<0.1	0.02	1.7	<0.1	<0.05	8	<0.5	<0.2
REP PM11-JC 174	QC	22	0.19	157	0.095	<1	2.95	0.023	0.06	<0.1	0.02	1.7	<0.1	<0.05	8	<0.5	<0.2
PM11-JC 189	Soil	36	0.38	146	0.092	1	3.70	0.020	0.08	<0.1	0.03	2.2	<0.1	<0.05	10	<0.5	<0.2
REP PM11-JC 189	QC	36	0.39	146	0.092	<1	3.72	0.019	0.08	<0.1	0.04	2.2	<0.1	<0.05	9	<0.5	<0.2
PM11-JC 201	Soil	39	0.51	176	0.106	<1	3.40	0.018	0.08	<0.1	0.04	3.8	<0.1	<0.05	10	<0.5	<0.2
REP PM11-JC 201	QC	39	0.50	168	0.104	1	3.31	0.019	0.08	<0.1	0.03	3.7	<0.1	<0.05	9	<0.5	<0.2
PM11-JC 218	Soil	6	0.08	31	0.084	3	1.83	0.023	0.02	<0.1	0.05	1.0	<0.1	<0.05	5	1.4	<0.2
REP PM11-JC 218	QC	7	0.08	32	0.081	2	1.77	0.022	0.02	<0.1	0.04	0.9	<0.1	<0.05	5	0.8	<0.2
PM11-JC 235	Soil	24	0.29	59	0.072	<1	1.69	0.031	0.05	<0.1	<0.01	2.6	<0.1	<0.05	5	0.5	<0.2
REP PM11-JC 235	QC	23	0.29	59	0.071	<1	1.69	0.032	0.05	<0.1	<0.01	2.6	<0.1	<0.05	5	1.0	<0.2
PM11-JC 256	Soil	35	0.41	84	0.088	<1	1.45	0.041	0.05	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
REP PM11-JC 256	QC	35	0.43	85	0.090	1	1.52	0.041	0.06	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
PM11-JC 272	Soil	29	0.41	91	0.078	2	1.83	0.041	0.06	<0.1	0.02	3.1	<0.1	<0.05	5	0.5	<0.2
REP PM11-JC 272	QC	31	0.42	95	0.083	<1	1.93	0.043	0.05	<0.1	0.02	3.3	0.1	<0.05	5	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	113	0.59	246	0.110	3	0.87	0.081	0.40	2.8	0.19	2.0	5.3	0.17	5	5.6	4.3
STD DS8	Standard	115	0.61	253	0.108	2	0.87	0.083	0.40	2.7	0.22	2.0	5.4	0.20	4	5.5	4.8
STD DS8	Standard	117	0.65	279	0.134	3	0.93	0.101	0.44	3.1	0.22	2.0	5.5	0.14	5	5.9	4.9
STD DS8	Standard	122	0.64	290	0.136	2	0.94	0.099	0.45	3.1	0.23	2.1	5.7	0.17	5	4.9	5.3
STD DS8	Standard	112	0.50	264	0.113	3	0.89	0.088	0.39	2.7	0.20	2.2	4.7	0.19	4	5.5	4.8
STD DS8	Standard	115	0.52	270	0.108	3	0.90	0.091	0.40	2.7	0.20	1.9	5.1	0.16	4	5.7	4.6
STD DS8	Standard	105	0.60	273	0.105	3	0.87	0.094	0.40	2.9	0.21	1.7	5.3	0.15	5	5.2	4.9

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: August 03, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

VAN11003327.1

		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	97.2	128.3	304	1.9	33.7	6.5	587	2.36	26.2	101.0	6.8	71	2.3	6.1	7.0	38	0.64	0.077	14
STD DS8	Standard	12.4	108.8	116.4	305	1.7	37.1	7.3	597	2.35	25.8	107.1	6.1	59	2.2	5.1	6.0	42	0.65	0.075	13
STD DS8	Standard	13.3	117.3	122.9	323	1.9	40.4	7.6	614	2.48	26.4	124.8	6.4	62	2.3	5.5	6.5	43	0.69	0.081	14
STD DS8	Standard	12.7	102.0	127.4	304	1.8	36.4	7.0	594	2.41	27.2	111.3	7.2	71	2.4	6.2	6.9	41	0.69	0.081	14
STD DS8	Standard	12.9	102.8	131.5	321	1.9	35.3	7.3	605	2.39	27.2	115.8	7.6	71	2.2	6.3	7.4	41	0.68	0.082	14
STD DS8	Standard	11.9	103.0	107.2	305	1.9	36.6	7.1	597	2.42	26.4	125.2	6.0	62	2.3	5.1	6.2	40	0.65	0.079	13
STD DS8	Standard	11.8	102.7	108.7	309	1.8	36.4	7.1	596	2.42	26.4	114.8	5.9	60	2.5	5.2	6.2	39	0.67	0.082	13
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: August 03, 2011

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QUALITY CONTROL REPORT

VAN11003327.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS8	Standard	105	0.58	280	0.107	2	0.90	0.094	0.41	3.0	0.19	1.8	5.3	0.15	5	5.2	5.7
STD DS8	Standard	116	0.58	250	0.110	2	0.86	0.079	0.39	2.9	0.19	2.1	5.1	0.19	5	5.5	4.7
STD DS8	Standard	119	0.63	268	0.114	2	0.92	0.083	0.42	3.0	0.22	2.3	5.5	0.18	5	5.5	5.0
STD DS8	Standard	109	0.61	275	0.112	3	0.88	0.087	0.41	3.0	0.22	1.9	5.1	0.15	5	6.7	5.0
STD DS8	Standard	112	0.62	285	0.116	3	0.92	0.089	0.42	3.0	0.21	1.8	5.3	0.14	5	5.2	4.7
STD DS8	Standard	111	0.60	282	0.101	3	0.90	0.091	0.41	3.0	0.21	2.2	5.3	0.11	5	4.7	5.3
STD DS8	Standard	109	0.60	278	0.098	2	0.86	0.086	0.42	3.1	0.20	2.3	5.3	0.12	5	5.1	4.4
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: July 20, 2011
Report Date: August 06, 2011
Page: 1 of 8

CERTIFICATE OF ANALYSIS

VAN11003328.1

CLIENT JOB INFORMATION

Project: PLACER MTN.
Shipment ID:
P.O. Number
Number of Samples: 188

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
Bill 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	185	Dry at 60C			VAN
SS80	185	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	188	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: PLACER MTN.
 Report Date: August 06, 2011

Page: 2 of 8 Part 1

CERTIFICATE OF ANALYSIS

VAN11003328.1

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		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	
PM11-GW 041	Soil	0.2	13.5	3.8	34	<0.1	19.8	4.6	156	1.31	0.8	3.8	0.9	27	<0.1	<0.1	<0.1	32	0.17	0.044	7
PM11-GW 042	Soil	0.2	13.3	3.2	30	<0.1	20.7	4.6	115	1.36	0.7	1.2	0.8	28	<0.1	<0.1	<0.1	34	0.16	0.042	5
PM11-GW 043	Soil	0.2	8.7	3.6	37	<0.1	12.7	3.2	102	1.06	<0.5	1.3	0.5	22	<0.1	<0.1	<0.1	27	0.13	0.021	4
PM11-GW 044	Soil	0.2	14.0	3.4	35	<0.1	22.5	5.4	119	1.50	0.7	1.0	1.0	33	<0.1	<0.1	<0.1	37	0.22	0.019	6
PM11-GW 045	Soil	0.2	11.8	2.7	23	<0.1	18.6	4.3	105	1.28	0.6	1.6	0.9	27	<0.1	<0.1	<0.1	33	0.20	0.021	5
PM11-GW 046	Soil	0.3	13.3	4.2	46	<0.1	18.5	6.8	134	1.94	<0.5	1.2	1.3	38	<0.1	<0.1	<0.1	51	0.22	0.063	4
PM11-GW 047	Soil	0.3	13.9	4.1	38	<0.1	15.1	5.8	139	1.68	<0.5	1.6	1.0	39	<0.1	<0.1	<0.1	44	0.24	0.028	5
PM11-GW 048	Soil	0.2	8.7	3.4	41	<0.1	12.0	5.1	130	1.48	<0.5	1.0	0.7	25	<0.1	<0.1	<0.1	39	0.15	0.035	3
PM11-GW 049	Soil	0.2	16.8	3.0	44	<0.1	15.3	5.5	124	1.71	<0.5	0.8	1.1	30	<0.1	<0.1	<0.1	41	0.21	0.020	5
PM11-GW 050	Soil	0.3	16.1	3.8	49	<0.1	19.1	6.2	215	1.86	<0.5	1.1	1.3	30	<0.1	<0.1	<0.1	46	0.20	0.032	4
PM11-GW 051	Soil	0.3	8.9	3.9	64	<0.1	14.4	5.2	261	1.41	<0.5	1.1	0.9	24	<0.1	<0.1	<0.1	34	0.16	0.072	3
PM11-GW 052	Soil	0.2	7.1	3.6	60	<0.1	15.7	4.0	166	1.38	<0.5	0.6	1.0	23	<0.1	<0.1	<0.1	30	0.16	0.076	2
PM11-GW 053	Soil	0.2	10.7	3.6	48	<0.1	16.4	5.1	199	1.63	<0.5	<0.5	1.0	32	<0.1	<0.1	<0.1	38	0.18	0.024	5
PM11-GW 054	Soil	0.2	10.3	3.5	37	<0.1	16.6	4.6	119	1.52	<0.5	<0.5	0.9	27	<0.1	<0.1	<0.1	35	0.18	0.029	3
PM11-GW 055	Soil	0.3	6.9	3.7	45	<0.1	13.7	3.6	148	1.30	<0.5	1.2	0.8	25	<0.1	<0.1	<0.1	29	0.19	0.034	3
PMS-24	Rock Pulp	118.9	4146	21.9	63	2.6	35.9	20.7	413	4.43	58.4	463.6	1.9	27	0.3	3.4	0.4	125	0.34	0.096	10
PM11-GW 056	Soil	0.3	10.1	4.2	48	<0.1	16.5	3.9	185	1.30	<0.5	0.9	0.9	24	<0.1	<0.1	<0.1	27	0.15	0.040	3
PM11-GW 057	Soil	0.2	6.2	3.3	67	<0.1	15.1	3.4	201	1.19	<0.5	1.2	0.7	24	<0.1	<0.1	<0.1	27	0.20	0.043	3
PM11-GW 058	Soil	0.2	8.6	3.5	38	<0.1	13.4	4.6	270	1.38	<0.5	1.1	0.8	24	<0.1	<0.1	<0.1	35	0.17	0.021	4
PM11-GW 059	Soil	0.4	11.7	3.3	36	<0.1	16.6	5.4	258	1.52	<0.5	4.3	0.9	29	<0.1	<0.1	<0.1	42	0.20	0.016	4
PM11-GW 060	Soil	0.4	9.3	5.3	46	<0.1	18.7	5.0	170	1.52	<0.5	1.7	1.1	29	<0.1	<0.1	<0.1	34	0.19	0.033	3
PM11-GW 061	Soil	0.2	18.4	3.2	32	0.1	19.1	4.8	225	1.38	0.7	4.7	1.3	39	<0.1	<0.1	<0.1	38	0.27	0.014	7
PM11-GW 062	Soil	0.2	20.2	3.8	39	<0.1	21.2	5.6	126	1.72	1.3	5.3	1.0	33	<0.1	0.1	<0.1	48	0.27	0.028	5
PM11-GW 063	Soil	0.2	14.4	4.8	32	<0.1	15.5	3.5	112	1.28	0.8	4.4	1.0	31	<0.1	<0.1	<0.1	30	0.23	0.016	5
PM11-GW 064	Soil	0.4	25.7	4.0	37	<0.1	26.3	7.0	146	1.94	1.3	1.6	1.2	32	<0.1	0.1	<0.1	53	0.23	0.045	6
PM11-GW 065	Soil	0.3	18.6	3.7	38	<0.1	20.2	5.5	286	1.69	0.9	5.5	0.9	34	<0.1	0.1	<0.1	51	0.28	0.022	6
PM11-GW 066	Soil	0.2	16.8	3.3	26	0.2	14.4	3.2	98	1.25	0.6	15.6	0.8	31	<0.1	<0.1	<0.1	31	0.24	0.011	6
PM11-GW 067	Soil	0.4	18.0	3.8	35	<0.1	25.0	6.1	150	1.61	1.2	5.9	1.2	25	<0.1	0.1	<0.1	42	0.19	0.080	5
PM11-GW 068	Soil	<0.1	11.2	3.4	24	<0.1	15.1	3.0	77	1.14	<0.5	1.9	1.1	27	<0.1	<0.1	<0.1	27	0.21	0.010	5
PM11-GW 069	Soil	0.2	11.3	3.9	35	<0.1	25.0	5.2	89	1.46	0.7	1.1	1.0	24	<0.1	<0.1	<0.1	32	0.15	0.151	4

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 Report Date: August 06, 2011

Page: 2 of 8 Part 2

CERTIFICATE OF ANALYSIS

VAN11003328.1

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	
PM11-GW 041	Soil	27	0.27	125	0.066	<1	1.36	0.017	0.05	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PM11-GW 042	Soil	31	0.33	121	0.063	<1	1.25	0.017	0.04	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-GW 043	Soil	17	0.17	81	0.061	<1	1.07	0.021	0.03	<0.1	0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
PM11-GW 044	Soil	41	0.47	110	0.088	<1	1.47	0.022	0.05	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PM11-GW 045	Soil	33	0.39	86	0.078	<1	1.16	0.020	0.04	<0.1	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
PM11-GW 046	Soil	29	0.33	162	0.096	<1	1.92	0.024	0.09	<0.1	<0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
PM11-GW 047	Soil	31	0.35	132	0.092	<1	1.64	0.023	0.11	<0.1	<0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 048	Soil	24	0.21	90	0.080	<1	1.25	0.025	0.08	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
PM11-GW 049	Soil	37	0.38	114	0.097	<1	1.45	0.021	0.12	<0.1	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
PM11-GW 050	Soil	47	0.39	125	0.103	1	1.65	0.022	0.16	<0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 051	Soil	25	0.18	123	0.078	1	1.58	0.020	0.10	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 052	Soil	19	0.15	153	0.078	<1	1.62	0.021	0.09	<0.1	0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 053	Soil	38	0.24	143	0.091	<1	1.51	0.023	0.10	<0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 054	Soil	41	0.22	112	0.086	<1	1.60	0.022	0.10	<0.1	<0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 055	Soil	22	0.16	130	0.079	1	1.51	0.023	0.14	<0.1	0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
PMS-24	Rock Pulp	52	0.93	47	0.109	1	1.39	0.039	0.94	4.4	0.08	10.2	0.5	1.92	6	6.7	1.0
PM11-GW 056	Soil	23	0.17	170	0.083	<1	1.75	0.023	0.10	<0.1	<0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 057	Soil	20	0.16	159	0.070	<1	1.31	0.023	0.11	<0.1	0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 058	Soil	30	0.23	110	0.076	<1	1.09	0.023	0.15	<0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
PM11-GW 059	Soil	34	0.31	116	0.084	<1	1.08	0.024	0.16	<0.1	0.01	2.4	0.1	<0.05	4	<0.5	<0.2
PM11-GW 060	Soil	27	0.26	144	0.088	<1	1.85	0.028	0.13	<0.1	<0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 061	Soil	29	0.38	96	0.076	<1	1.12	0.033	0.09	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PM11-GW 062	Soil	33	0.44	146	0.086	<1	1.44	0.024	0.09	<0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
PM11-GW 063	Soil	24	0.26	120	0.078	<1	1.53	0.029	0.05	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PM11-GW 064	Soil	49	0.44	123	0.086	<1	1.56	0.017	0.06	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 065	Soil	42	0.37	104	0.093	<1	1.40	0.021	0.06	<0.1	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
PM11-GW 066	Soil	24	0.23	82	0.063	<1	1.09	0.025	0.06	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
PM11-GW 067	Soil	39	0.31	115	0.067	<1	1.48	0.019	0.06	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 068	Soil	36	0.31	74	0.078	<1	1.08	0.026	0.05	<0.1	0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
PM11-GW 069	Soil	36	0.18	108	0.066	<1	1.62	0.017	0.05	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2

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 Report Date: August 06, 2011

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CERTIFICATE OF ANALYSIS

VAN11003328.1

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	
PM11-GW 070	Soil		0.5	10.3	4.6	46	<0.1	22.1	5.6	247	1.46	0.5	1.3	1.1	23	<0.1	<0.1	<0.1	30	0.14	0.105	5
PM11-GW 071	Soil		0.5	10.9	3.9	45	<0.1	20.4	5.3	109	1.44	0.6	1.0	1.0	18	<0.1	<0.1	<0.1	34	0.13	0.084	4
PM11-GW 072	Soil		0.3	15.5	5.6	52	<0.1	42.6	6.6	128	1.94	0.7	0.8	1.5	41	<0.1	<0.1	0.2	37	0.19	0.083	5
PM11-GW 073	Soil		0.2	11.3	4.5	41	<0.1	22.9	5.4	232	1.59	<0.5	0.7	0.9	36	<0.1	<0.1	<0.1	35	0.18	0.055	5
PM11-GW 074	Soil		0.3	11.9	4.0	49	<0.1	24.7	5.2	241	1.48	0.8	1.7	1.2	17	<0.1	<0.1	<0.1	33	0.11	0.113	4
PM11-GW 075	Soil		0.2	9.6	3.3	39	<0.1	21.0	5.2	128	1.28	0.7	3.7	0.9	19	<0.1	<0.1	0.3	39	0.13	0.039	3
PM11-GW 076	Soil		0.2	10.1	2.5	25	<0.1	21.1	5.4	99	1.45	0.6	7.3	0.9	23	<0.1	<0.1	0.2	44	0.16	0.029	4
PM11-GW 077	Soil		0.2	11.1	3.7	34	<0.1	22.3	5.9	124	1.53	0.7	2.1	1.2	23	<0.1	<0.1	0.2	47	0.15	0.037	4
PM11-GW 078	Soil		0.4	11.9	3.8	30	<0.1	20.6	5.1	96	1.42	1.3	1.8	1.2	16	<0.1	<0.1	0.2	38	0.11	0.077	3
PM11-GW 079	Soil		0.1	13.9	4.3	43	<0.1	27.8	5.2	132	1.55	1.4	<0.5	1.3	27	<0.1	<0.1	0.2	43	0.18	0.114	5
PM11-GW 080	Soil		0.1	11.2	4.0	26	<0.1	15.0	3.4	144	1.05	<0.5	2.9	0.8	25	<0.1	<0.1	0.2	32	0.17	0.018	5
PM11-GW 081	Soil		<0.1	10.9	3.6	26	<0.1	15.9	3.1	104	1.03	<0.5	2.7	0.8	29	<0.1	<0.1	0.1	30	0.18	0.015	6
PM11-GW 082	Soil		<0.1	12.2	3.8	24	<0.1	15.4	3.2	113	1.13	<0.5	5.2	1.0	35	<0.1	<0.1	0.1	34	0.21	0.016	7
PM11-GW 083	Soil		<0.1	8.2	3.1	27	<0.1	12.1	2.5	73	0.96	<0.5	0.9	0.7	25	<0.1	<0.1	0.1	28	0.16	0.013	4
PM11-GW 084	Soil		<0.1	6.6	3.6	19	<0.1	8.8	1.5	68	0.68	<0.5	<0.5	0.5	20	<0.1	<0.1	0.1	21	0.14	0.011	2
PM11-GW 085	Soil		<0.1	12.5	3.9	34	<0.1	13.5	3.0	159	1.20	<0.5	<0.5	0.7	28	<0.1	<0.1	0.1	32	0.20	0.015	4
PM11-GW 086	Soil		0.1	13.6	2.8	23	<0.1	20.8	4.4	101	1.12	0.5	2.2	1.2	28	<0.1	<0.1	<0.1	37	0.25	0.027	7
PM11-GW 087	Soil		<0.1	11.7	2.0	21	<0.1	20.2	5.0	115	1.20	0.9	1.3	1.0	24	<0.1	<0.1	<0.1	40	0.24	0.013	5
PM11-GW 088	Soil		0.2	5.7	2.9	34	<0.1	10.8	3.3	143	1.00	0.9	3.8	0.6	16	<0.1	<0.1	<0.1	34	0.12	0.024	3
PM11-GW 089	Soil		0.2	16.2	3.0	31	<0.1	19.0	6.1	198	1.50	0.9	<0.5	0.9	26	<0.1	<0.1	<0.1	48	0.18	0.018	8
PM11-GW 090	Soil		0.1	5.4	2.9	28	<0.1	7.7	2.8	57	0.86	<0.5	11.3	0.4	16	<0.1	<0.1	<0.1	30	0.10	0.021	3
PM11-GW 091	Soil		0.2	8.7	4.8	49	<0.1	9.3	5.6	195	1.73	1.1	<0.5	1.7	18	<0.1	<0.1	0.1	43	0.19	0.101	5
PM11-GW 092	Soil		0.2	17.5	5.1	61	<0.1	15.0	10.6	237	2.27	1.1	<0.5	2.1	36	<0.1	<0.1	<0.1	61	0.27	0.039	7
PM11-GW 093	Soil		0.3	20.6	5.8	63	<0.1	11.8	7.8	314	2.15	1.9	0.8	1.4	32	<0.1	<0.1	0.1	55	0.31	0.078	8
PM11-GW 094	Soil		0.6	54.3	8.3	66	0.4	30.1	15.8	641	3.47	5.4	1.7	4.1	43	<0.1	0.2	0.1	96	0.59	0.052	19
PM11-GW 095	Soil		0.3	14.0	5.5	59	<0.1	12.8	6.9	395	1.86	1.9	1.0	1.4	26	<0.1	<0.1	<0.1	50	0.30	0.058	6
PM11-GW 096	Soil		0.4	19.4	5.7	57	<0.1	16.4	9.5	393	2.37	2.2	<0.5	1.8	29	<0.1	<0.1	<0.1	62	0.28	0.060	10
PM11-GW 097	Soil		0.4	22.3	5.8	62	<0.1	18.4	9.2	491	2.41	2.8	2.1	1.9	26	0.1	0.1	<0.1	66	0.34	0.076	10
PM11-GW 098	Soil		1.4	23.1	7.1	73	<0.1	14.1	9.0	542	2.39	1.7	<0.5	1.3	20	0.1	0.1	0.1	61	0.25	0.071	7
PM11-GW 099	Soil		0.9	21.5	5.7	85	0.1	16.2	9.4	579	2.20	2.0	<0.5	1.5	24	0.2	0.1	0.1	56	0.25	0.095	8

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Project: PLACER MTN.
Report Date: August 06, 2011

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CERTIFICATE OF ANALYSIS

VAN11003328.1

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	
PM11-GW 070	Soil			28	0.18	141	0.080	<1	2.07	0.020	0.05	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-GW 071	Soil			34	0.20	108	0.068	<1	1.53	0.018	0.04	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 072	Soil			49	0.33	201	0.090	<1	2.88	0.020	0.06	<0.1	0.02	2.6	<0.1	<0.05	7	<0.5	<0.2
PM11-GW 073	Soil			36	0.21	138	0.073	<1	1.73	0.020	0.05	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-GW 074	Soil			31	0.21	128	0.075	<1	1.86	0.018	0.04	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11-GW 075	Soil			33	0.24	102	0.070	1	1.36	0.016	0.04	<0.1	<0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
PM11-GW 076	Soil			46	0.29	89	0.075	2	1.22	0.022	0.05	<0.1	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
PM11-GW 077	Soil			38	0.27	122	0.078	2	1.48	0.014	0.04	<0.1	<0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11-GW 078	Soil			27	0.19	96	0.078	2	1.67	0.016	0.06	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 079	Soil			33	0.23	121	0.077	2	1.85	0.018	0.09	<0.1	0.01	2.2	0.1	<0.05	5	<0.5	<0.2
PM11-GW 080	Soil			27	0.19	69	0.067	<1	1.23	0.023	0.04	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-GW 081	Soil			29	0.24	87	0.072	<1	1.33	0.031	0.06	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
PM11-GW 082	Soil			31	0.24	98	0.076	<1	1.36	0.029	0.05	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PM11-GW 083	Soil			22	0.18	73	0.070	<1	0.96	0.030	0.04	<0.1	<0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
PM11-GW 084	Soil			14	0.10	74	0.055	1	1.08	0.032	0.03	<0.1	<0.01	1.2	<0.1	<0.05	3	<0.5	<0.2
PM11-GW 085	Soil			25	0.17	83	0.070	<1	1.47	0.035	0.04	<0.1	<0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 086	Soil			42	0.38	88	0.087	<1	1.07	0.028	0.06	<0.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
PM11-GW 087	Soil			46	0.52	62	0.087	<1	0.95	0.024	0.05	<0.1	<0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
PM11-GW 088	Soil			22	0.17	61	0.073	<1	0.83	0.015	0.03	<0.1	<0.01	1.0	<0.1	<0.05	3	<0.5	<0.2
PM11-GW 089	Soil			28	0.26	71	0.084	<1	1.16	0.020	0.04	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
PM11-GW 090	Soil			12	0.10	48	0.062	<1	0.68	0.018	0.02	<0.1	<0.01	0.7	<0.1	<0.05	3	<0.5	<0.2
PM11-GW 091	Soil			17	0.38	108	0.082	<1	2.06	0.017	0.04	<0.1	0.01	2.1	<0.1	<0.05	7	<0.5	<0.2
PM11-GW 092	Soil			32	0.98	114	0.094	<1	2.22	0.012	0.04	<0.1	<0.01	3.2	<0.1	<0.05	8	<0.5	<0.2
PM11-GW 093	Soil			26	0.65	234	0.080	<1	2.57	0.018	0.04	<0.1	0.03	3.1	<0.1	<0.05	9	<0.5	<0.2
PM11-GW 094	Soil			48	1.08	266	0.099	<1	3.15	0.021	0.08	<0.1	0.04	9.3	<0.1	<0.05	10	<0.5	<0.2
PM11-GW 095	Soil			19	0.35	168	0.083	<1	1.85	0.017	0.06	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
PM11-GW 096	Soil			27	0.62	166	0.075	1	1.83	0.020	0.08	<0.1	<0.01	3.7	<0.1	<0.05	7	<0.5	<0.2
PM11-GW 097	Soil			28	0.74	162	0.081	<1	1.81	0.014	0.10	<0.1	<0.01	4.0	<0.1	<0.05	6	<0.5	<0.2
PM11-GW 098	Soil			19	0.34	327	0.059	<1	1.68	0.014	0.14	<0.1	<0.01	3.8	<0.1	<0.05	6	<0.5	<0.2
PM11-GW 099	Soil			19	0.36	277	0.068	1	1.67	0.014	0.12	<0.1	0.01	3.7	<0.1	<0.05	6	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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	
PM11-GW 100	Soil	0.6	31.3	5.7	51	0.2	23.6	9.2	377	2.49	3.4	4.6	2.0	29	<0.1	0.2	<0.1	65	0.35	0.063	13
PMS-27	Rock Pulp	17.2	68.0	16.0	18	0.2	17.0	2.6	105	3.88	459.8	223.9	0.8	27	0.4	25.3	0.2	10	1.04	0.005	2
PM11-GW 101	Soil	0.6	19.0	4.7	56	0.2	19.4	6.7	243	1.81	2.7	<0.5	1.4	22	<0.1	0.1	<0.1	53	0.20	0.073	8
PM11-GW 102	Soil	0.8	34.2	5.7	58	0.2	24.5	9.6	349	2.66	3.7	3.3	1.7	26	0.2	0.2	<0.1	68	0.29	0.055	13
PM11-GW 103	Soil	1.1	23.6	7.4	78	0.3	24.2	9.4	957	2.18	3.2	0.7	1.1	28	0.2	0.1	0.1	52	0.40	0.074	8
PM11-GW 104	Soil	0.7	29.5	4.8	60	0.2	25.9	8.7	208	2.51	2.5	0.7	1.7	18	0.1	0.2	<0.1	65	0.18	0.041	9
PM11-GW 105	Soil	0.8	19.8	6.1	81	0.4	24.1	6.9	315	2.01	1.9	<0.5	1.8	13	0.1	<0.1	0.1	45	0.11	0.108	5
PM11-GW 106	Soil	0.6	19.6	5.1	64	0.4	22.5	6.8	410	1.98	2.1	<0.5	1.5	20	0.2	<0.1	0.2	48	0.18	0.091	9
PM11-GW 107	Soil	0.6	22.1	5.2	67	0.3	26.4	7.4	314	2.21	1.5	6.9	1.7	17	0.1	0.1	0.1	53	0.17	0.110	8
PM11-GW 108	Soil	0.7	30.5	4.3	52	0.1	26.6	8.3	183	2.65	2.3	32.1	1.9	21	0.1	0.2	<0.1	71	0.21	0.039	10
PM11-GW 109	Soil	1.1	34.1	10.5	84	0.3	30.5	11.4	863	2.38	2.9	2.5	1.1	22	0.5	0.2	0.2	49	0.28	0.088	12
PM11-GW 110	Soil	1.0	38.5	5.2	74	0.1	31.6	9.4	265	3.07	2.4	1.3	2.2	19	0.2	0.2	0.1	60	0.22	0.063	11
PM11-GW 111	Soil	0.6	20.7	4.8	58	0.3	23.1	7.1	254	2.09	1.6	<0.5	1.2	25	0.2	0.2	0.1	46	0.27	0.068	9
PM11-GW 112	Soil	0.7	22.5	3.3	49	0.1	21.1	6.5	185	2.26	2.2	0.8	1.6	19	0.1	0.2	0.1	56	0.23	0.057	9
PM11-GW 113	Soil	0.6	16.2	3.8	57	0.2	18.3	5.5	187	1.92	1.5	0.9	1.4	22	0.2	0.1	0.2	44	0.26	0.106	10
PM11-GW 114	Soil	0.6	20.9	4.4	43	0.1	20.0	9.0	399	2.23	2.2	4.5	1.9	33	0.1	0.1	<0.1	60	0.40	0.076	13
PM11-GW 115	Soil	0.6	31.1	4.7	48	<0.1	23.8	8.7	373	2.45	3.2	2.4	1.9	35	0.1	0.2	<0.1	59	0.36	0.083	16
PM11-GW 116	Soil	0.8	31.8	5.2	58	0.3	27.6	11.0	974	2.15	3.1	2.3	0.9	39	0.2	0.2	0.1	57	0.37	0.085	14
PM11-GW 117	Soil	0.5	15.8	4.5	45	<0.1	16.1	5.8	202	1.61	1.6	<0.5	1.0	35	0.1	<0.1	0.2	35	0.30	0.083	5
PM11-GW 118	Soil	0.6	14.8	4.7	47	0.1	18.1	5.9	255	1.67	1.9	0.8	0.8	36	0.1	<0.1	0.1	36	0.30	0.074	7
PM11-GW 119	Soil	0.7	32.8	4.1	53	<0.1	32.2	8.9	330	2.70	3.8	2.2	2.2	35	<0.1	0.1	0.1	68	0.40	0.079	18
PM11-GW 120	Soil	1.0	26.3	4.5	54	0.1	28.3	7.5	226	2.29	3.5	1.2	1.7	31	0.1	0.2	0.1	57	0.30	0.079	13
PM11-GW 121	Soil	0.8	24.9	3.9	54	<0.1	26.6	8.0	334	2.27	3.0	0.8	1.8	28	<0.1	0.1	<0.1	52	0.29	0.069	11
PM11-GW 122	Soil	1.0	30.6	4.7	73	0.2	35.3	9.5	418	2.33	3.5	1.3	1.4	38	0.3	0.3	<0.1	45	0.32	0.065	13
PM11-GW 123	Soil	0.6	18.7	4.4	50	0.2	20.4	6.8	394	1.61	1.5	0.9	1.0	35	0.1	0.1	<0.1	33	0.34	0.043	9
PM11-GW 124	Soil	0.8	27.1	4.2	60	<0.1	29.0	8.0	259	2.23	2.5	1.5	1.6	32	<0.1	0.1	<0.1	50	0.23	0.048	11
PM11-GW 125	Soil	0.3	30.1	3.6	41	<0.1	25.6	6.4	205	2.27	2.1	1.6	2.0	40	<0.1	<0.1	0.1	51	0.38	0.068	14
PM11-GW 126	Soil	0.3	23.2	5.1	48	<0.1	26.1	5.1	156	1.84	1.5	1.1	1.9	36	<0.1	<0.1	0.1	36	0.21	0.037	11
PM11-GW 127	Soil	0.8	27.6	3.5	51	<0.1	29.9	7.9	196	2.50	3.6	1.4	1.8	31	<0.1	0.2	<0.1	59	0.20	0.034	10
PM11-GW 128	Soil	0.9	25.7	4.8	54	<0.1	32.9	7.6	183	2.45	4.2	1.5	1.8	30	<0.1	0.1	<0.1	55	0.16	0.038	9

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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	0.05	1	0.5	0.2	
PM11-GW 100	Soil	32	0.51	116	0.063	<1	1.36	0.019	0.08	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
PMS-27	Rock Pulp	22	0.02	1117	0.012	2	0.16	0.006	0.07	2.8	3.13	0.7	10.9	0.13	<1	1.4	<0.2
PM11-GW 101	Soil	23	0.33	129	0.079	<1	1.51	0.019	0.07	<0.1	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 102	Soil	33	0.61	95	0.066	<1	1.37	0.018	0.09	<0.1	0.03	3.7	<0.1	<0.05	5	0.8	<0.2
PM11-GW 103	Soil	21	0.35	166	0.071	<1	1.71	0.016	0.08	<0.1	0.06	2.2	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 104	Soil	36	0.57	101	0.071	<1	1.30	0.013	0.11	<0.1	<0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 105	Soil	17	0.25	140	0.094	1	2.21	0.019	0.05	<0.1	0.03	2.0	<0.1	<0.05	7	<0.5	<0.2
PM11-GW 106	Soil	20	0.29	135	0.069	1	1.79	0.017	0.07	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
PM11-GW 107	Soil	25	0.34	147	0.080	1	1.77	0.017	0.07	<0.1	0.03	2.4	<0.1	<0.05	6	<0.5	<0.2
PM11-GW 108	Soil	34	0.45	98	0.075	<1	1.10	0.014	0.10	<0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
PM11-GW 109	Soil	27	0.52	155	0.059	2	1.49	0.014	0.16	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
PM11-GW 110	Soil	36	0.75	97	0.057	1	1.42	0.011	0.16	<0.1	<0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 111	Soil	25	0.42	139	0.060	1	1.49	0.014	0.13	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 112	Soil	28	0.46	81	0.052	<1	0.99	0.014	0.09	<0.1	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
PM11-GW 113	Soil	20	0.28	135	0.060	2	1.40	0.017	0.10	<0.1	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 114	Soil	31	0.59	104	0.059	<1	1.32	0.020	0.09	<0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 115	Soil	33	0.64	104	0.057	<1	1.24	0.025	0.11	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 116	Soil	30	0.49	179	0.051	1	1.53	0.019	0.10	<0.1	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 117	Soil	19	0.29	160	0.063	2	1.60	0.021	0.08	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 118	Soil	20	0.31	150	0.056	2	1.36	0.018	0.09	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 119	Soil	48	0.78	126	0.063	<1	1.48	0.020	0.17	<0.1	0.02	5.0	<0.1	<0.05	6	<0.5	<0.2
PM11-GW 120	Soil	39	0.56	115	0.058	<1	1.42	0.016	0.10	<0.1	0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 121	Soil	36	0.65	113	0.060	<1	1.31	0.013	0.15	<0.1	<0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 122	Soil	31	0.52	157	0.059	2	1.47	0.016	0.12	<0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 123	Soil	18	0.28	174	0.059	<1	1.36	0.020	0.06	<0.1	0.04	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 124	Soil	33	0.53	131	0.067	<1	1.46	0.016	0.09	<0.1	0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 125	Soil	44	0.64	145	0.061	<1	1.45	0.021	0.12	<0.1	<0.01	4.9	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 126	Soil	32	0.43	157	0.081	<1	1.83	0.026	0.09	<0.1	<0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 127	Soil	42	0.55	116	0.074	<1	1.26	0.012	0.12	<0.1	<0.01	3.6	<0.1	<0.05	5	<0.5	<0.2
PM11-GW 128	Soil	43	0.52	103	0.054	<1	1.04	0.012	0.11	<0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2

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 Report Date: August 06, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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	
PM11-GW 129	Soil		0.6	38.1	3.6	60	<0.1	47.9	10.7	296	2.89	3.8	1.7	2.4	44	0.1	0.2	<0.1	72	0.34	0.075	16
PM11-GW 130	Soil		0.8	31.2	4.0	59	<0.1	37.1	9.2	245	2.87	4.5	1.2	2.0	30	<0.1	0.2	<0.1	65	0.21	0.043	12
PM11-RP 351	Soil		0.2	14.1	4.3	37	<0.1	24.0	5.9	100	1.68	0.7	0.6	1.3	31	<0.1	<0.1	<0.1	39	0.18	0.032	6
PM11-RP 352	Soil		0.3	16.4	5.8	48	<0.1	29.2	6.3	242	1.92	1.0	0.5	1.6	56	<0.1	<0.1	0.1	47	0.26	0.068	11
PM11-RP 353	Soil		0.3	15.5	6.2	49	<0.1	22.9	9.2	106	2.53	1.7	<0.5	2.2	38	<0.1	<0.1	0.1	55	0.17	0.328	5
PM11-RP 354	Soil		0.1	14.4	4.6	36	<0.1	14.5	6.1	185	2.17	0.6	0.7	1.8	79	<0.1	<0.1	<0.1	49	0.32	0.027	6
PM11-RP 355	Soil		0.1	6.9	4.4	19	<0.1	7.5	3.3	76	1.08	<0.5	1.3	0.8	50	<0.1	<0.1	<0.1	28	0.20	0.011	3
PM11-RP 356	Soil		0.1	14.4	6.0	27	<0.1	13.5	4.9	166	1.56	0.5	1.0	1.7	83	0.1	<0.1	<0.1	41	0.33	0.024	10
PM11-RP 357	Soil		<0.1	7.1	3.5	22	<0.1	7.8	3.3	85	1.05	<0.5	0.7	1.3	41	<0.1	<0.1	<0.1	27	0.20	0.013	5
PM11-RP 358	Soil		0.3	6.7	4.6	29	<0.1	7.8	4.0	59	1.37	0.7	<0.5	1.1	23	<0.1	<0.1	<0.1	29	0.11	0.145	4
PM11-RP 359	Soil		0.1	18.0	5.4	34	<0.1	14.9	7.0	230	1.94	0.7	1.7	2.5	60	<0.1	<0.1	0.1	51	0.29	0.033	16
PM11-RP 360	Soil		0.2	19.4	4.7	32	0.2	11.7	6.4	165	1.75	0.6	3.0	2.1	60	<0.1	<0.1	<0.1	46	0.34	0.031	11
PM11-RP 361	Soil		0.9	10.2	6.1	49	0.2	8.8	6.6	109	3.25	2.2	<0.5	4.5	17	<0.1	<0.1	0.2	59	0.12	0.618	6
PM11-RP 362	Soil		0.8	12.5	4.3	39	0.1	9.2	5.9	175	2.10	1.3	1.0	1.6	18	<0.1	<0.1	0.1	48	0.16	0.221	4
PM11-RP 363	Soil		0.4	32.3	3.8	66	0.1	9.4	11.6	299	3.17	1.2	<0.5	2.2	20	<0.1	<0.1	0.1	83	0.26	0.173	4
PM11-RP 364	Soil		0.8	15.8	5.8	59	0.2	10.2	10.4	208	2.82	1.2	<0.5	1.7	21	<0.1	<0.1	0.1	79	0.24	0.099	3
PM11-RP 365	Soil		0.3	16.4	4.7	47	0.1	10.5	10.1	197	2.82	1.4	<0.5	1.5	35	<0.1	0.1	0.3	79	0.41	0.071	3
PM11-RP 366	Soil		0.1	12.0	4.2	29	0.2	6.6	5.9	191	1.94	1.0	0.6	1.1	29	<0.1	<0.1	0.2	51	0.28	0.013	6
PM11-RP 367	Soil		0.2	16.2	4.5	40	0.2	10.5	9.3	268	2.48	1.5	38.3	1.2	47	<0.1	0.1	0.3	76	0.46	0.023	4
PM11-RP 368	Soil		0.6	15.9	4.6	66	0.2	10.8	7.9	264	2.02	1.6	<0.5	1.2	20	<0.1	<0.1	0.1	51	0.21	0.138	4
PM11-RP 369	Soil		0.3	17.2	3.4	71	0.1	9.6	9.3	309	2.50	1.5	<0.5	1.1	26	<0.1	<0.1	0.1	73	0.32	0.116	3
PM11-RP 370	Soil		0.4	28.1	3.3	46	<0.1	15.4	10.6	215	2.83	2.1	1.7	1.6	51	<0.1	0.1	0.4	92	0.41	0.067	5
PM11-RP 371	Soil		2.9	180.6	2.2	73	0.1	45.5	14.3	773	5.63	7.0	4.4	1.3	100	0.1	0.5	<0.1	171	1.08	0.102	9
PM11-RP 372	Soil		0.4	30.1	3.6	44	0.1	18.6	9.9	268	2.23	1.3	0.7	0.8	37	<0.1	<0.1	<0.1	66	0.32	0.051	2
PM11-RP 373	Soil		0.3	11.5	4.4	42	<0.1	17.1	6.7	194	1.70	0.5	<0.5	0.8	39	<0.1	<0.1	<0.1	49	0.20	0.033	2
PM11-RP 374	Soil		0.3	15.0	4.4	42	<0.1	17.4	7.7	165	2.07	0.6	0.7	1.5	61	<0.1	0.1	<0.1	70	0.24	0.023	4
PM11-RP 375	Soil		0.3	11.2	4.6	41	<0.1	15.5	6.6	220	1.85	<0.5	<0.5	1.3	44	<0.1	<0.1	<0.1	56	0.22	0.022	3
PM11-RP 376	Soil		0.4	37.0	3.2	50	<0.1	46.9	13.0	300	3.11	1.5	1.0	2.6	88	<0.1	0.1	<0.1	89	0.53	0.055	12
PM11-RP 377	Soil		0.3	11.7	3.3	34	<0.1	14.6	6.0	148	1.68	0.6	<0.5	1.2	33	<0.1	<0.1	<0.1	53	0.18	0.014	4
PM11-RP 378	Soil		0.4	20.6	3.5	40	<0.1	25.9	8.8	182	2.12	0.7	<0.5	1.7	52	<0.1	<0.1	<0.1	72	0.27	0.021	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	
PM11-GW 129	Soil			62	0.87	185	0.067	<1	1.65	0.017	0.21	<0.1	0.01	5.9	<0.1	<0.05	6	<0.5	<0.2
PM11-GW 130	Soil			52	0.69	111	0.068	<1	1.22	0.017	0.14	<0.1	<0.01	4.7	<0.1	<0.05	4	<0.5	<0.2
PM11-RP 351	Soil			47	0.36	80	0.096	<1	1.60	0.021	0.06	<0.1	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-RP 352	Soil			32	0.38	133	0.108	<1	2.32	0.026	0.10	<0.1	0.02	2.9	<0.1	<0.05	7	<0.5	<0.2
PM11-RP 353	Soil			23	0.33	139	0.132	1	3.49	0.014	0.13	<0.1	0.03	2.6	<0.1	<0.05	9	<0.5	<0.2
PM11-RP 354	Soil			24	0.58	122	0.137	<1	1.83	0.027	0.24	<0.1	<0.01	3.4	0.2	<0.05	5	<0.5	<0.2
PM11-RP 355	Soil			13	0.22	75	0.087	<1	1.15	0.028	0.09	<0.1	<0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PM11-RP 356	Soil			25	0.44	121	0.118	<1	1.43	0.035	0.15	<0.1	<0.01	4.1	0.2	<0.05	5	<0.5	<0.2
PM11-RP 357	Soil			14	0.25	77	0.094	<1	1.20	0.037	0.10	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PM11-RP 358	Soil			12	0.17	79	0.102	<1	1.99	0.017	0.06	<0.1	0.01	1.3	<0.1	<0.05	7	<0.5	<0.2
PM11-RP 359	Soil			29	0.40	150	0.132	<1	1.72	0.029	0.10	<0.1	0.02	4.4	0.1	<0.05	6	<0.5	<0.2
PM11-RP 360	Soil			21	0.44	135	0.134	1	1.50	0.032	0.16	<0.1	0.02	3.5	0.1	<0.05	5	<0.5	<0.2
PM11-RP 361	Soil			15	0.23	188	0.160	1	3.46	0.013	0.11	0.2	0.04	2.9	<0.1	<0.05	11	<0.5	<0.2
PM11-RP 362	Soil			10	0.22	136	0.111	1	2.08	0.020	0.09	0.2	0.03	2.1	<0.1	<0.05	7	<0.5	<0.2
PM11-RP 363	Soil			11	0.70	202	0.220	<1	2.53	0.020	0.37	0.5	0.02	2.9	0.2	<0.05	9	<0.5	<0.2
PM11-RP 364	Soil			12	0.45	136	0.204	3	2.32	0.016	0.13	0.3	0.03	1.8	<0.1	<0.05	8	<0.5	<0.2
PM11-RP 365	Soil			14	0.50	182	0.191	3	2.27	0.020	0.13	0.3	0.02	2.5	<0.1	<0.05	7	<0.5	<0.2
PM11-RP 366	Soil			11	0.31	49	0.138	2	1.57	0.029	0.06	0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
PM11-RP 367	Soil			15	0.53	70	0.182	2	1.93	0.028	0.09	0.1	0.02	4.0	<0.1	<0.05	6	<0.5	<0.2
PM11-RP 368	Soil			12	0.32	106	0.117	2	2.27	0.022	0.07	<0.1	0.04	2.7	<0.1	<0.05	7	<0.5	<0.2
PM11-RP 369	Soil			12	0.45	126	0.124	1	2.27	0.021	0.10	<0.1	0.02	2.6	<0.1	<0.05	7	<0.5	<0.2
PM11-RP 370	Soil			21	0.58	123	0.113	1	2.39	0.024	0.15	<0.1	0.01	4.4	0.1	<0.05	7	<0.5	0.2
PM11-RP 371	Soil			56	1.10	154	0.077	2	3.06	0.016	0.06	0.1	0.02	12.7	<0.1	<0.05	9	<0.5	0.2
PM11-RP 372	Soil			18	0.44	104	0.102	1	1.86	0.023	0.09	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-RP 373	Soil			22	0.31	101	0.106	1	1.56	0.027	0.07	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-RP 374	Soil			28	0.43	106	0.125	2	1.68	0.034	0.10	<0.1	0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
PM11-RP 375	Soil			23	0.35	92	0.113	2	1.62	0.026	0.09	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
PM11-RP 376	Soil			54	1.04	96	0.102	2	1.87	0.042	0.06	0.1	0.02	9.6	<0.1	<0.05	5	<0.5	<0.2
PM11-RP 377	Soil			22	0.32	58	0.109	1	1.28	0.033	0.06	<0.1	0.02	3.3	<0.1	<0.05	3	<0.5	<0.2
PM11-RP 378	Soil			38	0.55	57	0.108	2	1.41	0.039	0.06	<0.1	0.02	5.4	<0.1	<0.05	4	<0.5	<0.2

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 Report Date: August 06, 2011

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CERTIFICATE OF ANALYSIS

VAN11003328.1

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
PM11-RP 379	Soil			0.3	26.9	2.9	41	<0.1	42.6	10.2	195	2.50	1.3	<0.5	2.3	80	<0.1	<0.1	<0.1	78	0.40	0.035	10
PM11-RP 380	Soil			0.5	17.2	3.0	49	<0.1	28.0	8.5	173	2.49	0.7	1.8	1.6	59	<0.1	<0.1	<0.1	90	0.27	0.022	6
PMS-22	Rock Pulp			143.4	3979	24.5	72	2.8	40.9	22.2	446	4.71	57.9	454.2	2.3	31	0.3	3.9	0.4	136	0.36	0.096	12
PM11-RP 381	Soil			0.4	11.9	2.5	55	<0.1	21.9	6.8	167	2.18	1.1	<0.5	1.1	43	<0.1	<0.1	<0.1	66	0.26	0.060	3
PM11-RP 382	Soil			0.4	8.0	3.5	61	<0.1	11.8	4.3	249	1.53	0.6	<0.5	0.9	30	<0.1	<0.1	<0.1	42	0.19	0.052	3
PM11-RP 383	Soil			0.3	8.1	4.5	59	<0.1	13.8	4.8	303	1.47	<0.5	<0.5	0.8	23	<0.1	<0.1	<0.1	37	0.15	0.045	2
PM11-RP 384	Soil			0.4	12.4	4.8	52	<0.1	20.7	6.5	134	1.77	0.6	<0.5	0.9	30	<0.1	<0.1	<0.1	46	0.17	0.039	2
PM11-RP 385	Soil			0.3	9.0	3.6	45	<0.1	13.8	5.1	162	1.57	<0.5	<0.5	0.9	32	<0.1	<0.1	<0.1	44	0.16	0.051	2
PM11-RP 386	Soil			0.2	13.2	3.1	32	<0.1	17.6	6.6	104	1.73	1.1	0.7	1.2	38	<0.1	<0.1	<0.1	57	0.19	0.034	3
PM11-RP 387	Soil			0.2	11.4	3.5	36	<0.1	13.6	4.5	187	1.40	<0.5	0.7	0.7	29	<0.1	<0.1	<0.1	40	0.18	0.018	4
PM11-RP 388	Soil			0.3	8.6	4.0	34	<0.1	11.6	4.3	133	1.25	<0.5	<0.5	0.6	25	<0.1	<0.1	<0.1	35	0.15	0.024	2
PM11-RP 389	Soil			0.4	9.3	4.7	67	<0.1	18.7	5.6	331	1.47	0.6	<0.5	1.0	24	<0.1	<0.1	<0.1	34	0.16	0.111	3
PM11-RP 390	Soil			0.2	13.8	4.4	38	<0.1	18.7	5.4	109	1.60	<0.5	<0.5	1.0	34	<0.1	<0.1	<0.1	44	0.21	0.019	4
PM11-RP 391	Soil			0.4	11.1	4.4	57	<0.1	15.4	5.3	241	1.48	<0.5	<0.5	0.8	25	<0.1	<0.1	<0.1	35	0.17	0.135	3
PM11-RP 392	Soil			0.3	9.8	4.9	64	<0.1	17.1	5.1	368	1.36	<0.5	0.6	1.1	22	<0.1	<0.1	<0.1	27	0.13	0.096	3
PM11-RP 393	Soil			0.3	15.5	6.0	57	<0.1	18.6	6.9	364	1.68	<0.5	0.9	1.0	31	<0.1	<0.1	0.1	36	0.18	0.053	3
PM11-RP 394	Soil			0.2	10.7	4.1	47	<0.1	16.3	6.0	152	1.43	<0.5	<0.5	0.7	24	<0.1	<0.1	<0.1	34	0.15	0.038	2
PM11-RP 395	Soil			0.3	10.7	5.4	50	<0.1	15.9	6.2	338	1.50	<0.5	0.5	1.0	29	<0.1	<0.1	<0.1	34	0.18	0.026	3
PM11-RP 396	Soil			0.3	13.4	5.0	43	<0.1	15.1	7.1	309	1.63	<0.5	1.9	1.3	41	<0.1	<0.1	<0.1	40	0.24	0.023	4
PM11-RP 397	Soil			0.5	11.7	4.1	36	<0.1	16.9	5.5	202	1.61	<0.5	5.1	0.9	29	<0.1	0.1	<0.1	42	0.19	0.021	3
PM11-RP 398	Soil			0.5	8.3	4.3	51	<0.1	15.9	5.3	279	1.43	0.6	2.1	0.8	19	<0.1	<0.1	0.1	35	0.12	0.085	2
PM11-RP 399	Soil			0.5	11.0	4.7	51	<0.1	21.5	5.5	214	1.58	1.2	11.3	1.0	24	<0.1	0.1	0.1	37	0.17	0.116	3
PM11-RP 400	Soil			0.6	9.9	4.6	43	0.1	18.4	5.6	133	1.54	1.3	140.1	1.3	18	<0.1	<0.1	0.1	36	0.13	0.145	3
PM11-RP 401	Soil			0.4	14.7	4.6	52	<0.1	25.4	5.7	156	1.68	1.1	0.9	1.4	24	<0.1	0.1	0.1	38	0.15	0.173	4
PM11-RP 402	Soil			0.4	11.8	4.9	45	<0.1	27.6	5.2	171	1.70	1.5	<0.5	1.3	25	<0.1	<0.1	0.1	34	0.13	0.250	4
PM11-RP 403	Soil			0.7	12.4	5.4	44	0.2	32.5	6.5	123	1.69	1.3	2.3	1.4	23	<0.1	0.1	0.1	38	0.13	0.108	3
PM11-RP 404	Soil			0.4	11.0	4.8	46	0.2	24.3	5.6	244	1.52	1.3	<0.5	1.3	26	<0.1	<0.1	0.1	33	0.16	0.199	3
PM11-RP 405	Soil			0.2	31.6	4.6	31	0.1	24.0	4.0	185	1.56	1.8	6.2	1.3	39	<0.1	0.1	0.1	37	0.25	0.016	8
PM11-RP 406	Soil			0.2	25.0	4.6	20	<0.1	20.0	4.8	107	1.05	1.2	0.8	1.3	93	<0.1	<0.1	<0.1	33	0.47	0.044	23
PM11-RP 407	Soil			<0.1	10.3	5.2	17	<0.1	12.4	4.4	76	1.03	<0.5	<0.5	1.7	74	<0.1	<0.1	0.1	21	0.28	0.017	10

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Project: PLACER MTN.
Report Date: August 06, 2011

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CERTIFICATE OF ANALYSIS

VAN11003328.1

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
PM11-RP 379	Soil	46	0.80	92	0.110	1	1.69	0.046	0.06	<0.1	0.01	8.2	<0.1	<0.05	4	<0.5	<0.2
PM11-RP 380	Soil	56	0.52	112	0.111	<1	1.66	0.038	0.08	<0.1	0.01	5.3	<0.1	<0.05	4	<0.5	<0.2
PMS-22	Rock Pulp	54	1.04	50	0.119	<1	1.50	0.037	1.08	5.3	0.08	9.3	0.6	2.15	6	7.5	1.1
PM11-RP 381	Soil	43	0.49	96	0.077	<1	1.68	0.027	0.07	<0.1	0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
PM11-RP 382	Soil	20	0.26	121	0.080	<1	1.73	0.026	0.08	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-RP 383	Soil	17	0.25	117	0.098	<1	1.73	0.023	0.06	<0.1	0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-RP 384	Soil	24	0.32	146	0.105	<1	2.17	0.021	0.07	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-RP 385	Soil	19	0.24	106	0.094	<1	1.59	0.025	0.03	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-RP 386	Soil	25	0.37	86	0.102	<1	1.26	0.030	0.07	<0.1	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
PM11-RP 387	Soil	18	0.27	67	0.086	<1	1.32	0.027	0.05	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PM11-RP 388	Soil	17	0.22	65	0.084	<1	1.29	0.024	0.06	<0.1	0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11-RP 389	Soil	17	0.22	102	0.097	<1	1.88	0.020	0.07	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11-RP 390	Soil	30	0.37	86	0.116	<1	1.55	0.024	0.08	<0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
PM11-RP 391	Soil	20	0.25	118	0.096	<1	1.56	0.019	0.06	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-RP 392	Soil	16	0.20	127	0.097	<1	2.00	0.017	0.05	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
PM11-RP 393	Soil	22	0.32	156	0.120	1	2.29	0.018	0.06	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-RP 394	Soil	20	0.24	124	0.103	<1	1.73	0.018	0.06	<0.1	<0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-RP 395	Soil	22	0.29	134	0.114	<1	2.00	0.017	0.08	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-RP 396	Soil	23	0.34	133	0.110	<1	1.93	0.017	0.11	<0.1	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PM11-RP 397	Soil	24	0.30	97	0.099	<1	1.42	0.017	0.10	0.2	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PM11-RP 398	Soil	14	0.18	106	0.075	<1	1.50	0.016	0.06	0.2	0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
PM11-RP 399	Soil	19	0.23	144	0.074	1	1.73	0.015	0.09	0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-RP 400	Soil	17	0.18	109	0.080	1	1.84	0.017	0.07	0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-RP 401	Soil	21	0.21	148	0.080	2	1.93	0.017	0.09	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
PM11-RP 402	Soil	18	0.19	182	0.082	1	2.08	0.017	0.06	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
PM11-RP 403	Soil	19	0.24	160	0.091	1	2.39	0.021	0.11	<0.1	0.03	2.0	<0.1	<0.05	7	<0.5	<0.2
PM11-RP 404	Soil	17	0.18	153	0.082	<1	1.95	0.018	0.07	<0.1	0.03	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11-RP 405	Soil	27	0.31	97	0.084	<1	1.87	0.028	0.08	<0.1	0.01	3.5	0.1	<0.05	5	<0.5	<0.2
PM11-RP 406	Soil	41	0.31	80	0.076	<1	1.29	0.028	0.06	<0.1	0.03	4.9	<0.1	<0.05	4	<0.5	<0.2
PM11-RP 407	Soil	23	0.26	68	0.085	1	1.32	0.029	0.11	<0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	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	
PM11-RP 408	Soil		<0.1	9.1	5.1	23	<0.1	10.2	5.5	150	1.50	0.7	<0.5	1.8	59	<0.1	<0.1	<0.1	40	0.26	0.014	4
PM11-RP 409	Soil		0.7	6.0	4.3	31	<0.1	7.5	4.6	100	1.73	0.8	2.5	1.8	16	<0.1	<0.1	0.1	45	0.10	0.142	2
PM11-RP 410	Soil		0.4	5.2	4.2	34	<0.1	8.1	6.0	156	2.07	1.1	<0.5	2.4	17	<0.1	<0.1	0.1	51	0.13	0.171	3
PM11-RP 411	Soil		0.2	15.5	3.1	54	<0.1	11.1	12.0	308	3.13	0.6	<0.5	4.5	33	<0.1	<0.1	<0.1	86	0.24	0.048	4
PM11-RP 412	Soil		0.3	17.7	3.7	46	<0.1	15.3	9.7	245	2.94	1.0	<0.5	4.5	42	<0.1	<0.1	0.1	84	0.28	0.075	6
PM11-RP 413	Soil		0.6	11.9	6.8	42	<0.1	15.8	6.5	83	2.84	2.2	<0.5	3.5	26	<0.1	<0.1	0.2	67	0.13	0.368	6
PM11-RP 414	Soil		0.7	13.9	4.6	48	<0.1	13.9	9.3	213	2.46	1.3	<0.5	3.2	24	<0.1	<0.1	0.1	61	0.17	0.110	4
PM11-RP 415	Soil		0.7	15.4	4.8	50	<0.1	14.8	9.2	156	2.46	1.3	0.5	2.8	25	<0.1	<0.1	0.1	60	0.18	0.139	4
PM11-RP 416	Soil		0.2	17.7	5.8	37	<0.1	17.0	8.7	338	2.25	0.6	1.8	3.0	74	<0.1	<0.1	0.1	53	0.39	0.036	14
PM11-RP 417	Soil		0.2	24.8	5.1	35	0.1	14.7	7.5	350	2.15	1.0	1.4	3.4	73	<0.1	<0.1	0.1	58	0.41	0.037	19
PM11-RP 418	Soil		0.2	18.5	3.9	34	<0.1	13.5	6.8	217	2.11	0.9	1.2	2.5	68	<0.1	<0.1	<0.1	60	0.42	0.046	9
PM11-RP 419	Soil		0.5	36.4	5.1	29	0.2	15.7	9.4	374	3.24	3.1	1.4	3.1	52	<0.1	<0.1	0.2	75	0.48	0.033	10
PM11-RP 420	Soil		0.8	33.7	3.9	100	0.2	15.0	12.0	3672	2.71	5.6	1.4	2.2	409	<0.1	0.4	<0.1	100	4.96	0.450	14
PM11-RP 421	Soil		1.0	17.5	1.0	32	<0.1	12.1	10.5	1171	2.44	10.9	0.7	1.8	159	<0.1	0.5	<0.1	126	2.55	0.233	12
PM11-RP 422	Soil		0.6	75.5	1.2	50	<0.1	11.9	9.5	211	3.82	6.9	3.9	0.8	47	<0.1	0.2	<0.1	95	0.51	0.115	6
PM11-RP 423	Soil		0.9	48.4	2.5	58	<0.1	22.8	11.0	272	3.64	4.1	1.8	1.7	54	<0.1	0.2	<0.1	97	0.52	0.077	7
PM11-RP 424	Soil		1.5	35.3	3.1	72	0.2	22.3	8.6	229	2.64	3.1	<0.5	1.2	32	<0.1	0.1	0.1	66	0.31	0.114	4
PM11-RP 425	Soil		1.3	33.8	3.1	71	0.2	20.9	8.9	264	2.64	2.7	<0.5	1.3	37	<0.1	0.1	0.1	73	0.28	0.071	4
PM11-RP 426	Soil		2.8	74.4	1.3	50	0.1	16.6	7.2	209	3.88	8.6	1.0	1.4	52	<0.1	0.1	0.1	79	0.52	0.109	10
PM11-RP 427	Soil		1.8	24.1	3.5	80	<0.1	18.4	8.8	277	2.12	2.4	<0.5	1.4	22	0.1	<0.1	0.1	48	0.21	0.139	5
PM11-RP 428	Soil		1.7	29.0	2.8	65	<0.1	15.7	8.0	199	3.20	3.8	<0.5	1.2	28	<0.1	0.1	0.2	78	0.31	0.057	5
PM11-RP 429	Soil		1.5	31.9	3.0	64	<0.1	16.4	9.4	329	3.27	6.0	<0.5	1.8	28	<0.1	0.2	0.2	76	0.69	0.078	6
PM11-RP 430	Soil		0.7	36.3	3.2	43	0.2	16.3	8.1	129	2.84	2.8	0.9	1.1	47	<0.1	0.2	0.1	71	0.36	0.069	4
PM11-RP 431	Soil		0.4	12.7	3.4	42	<0.1	18.4	7.0	149	1.84	<0.5	<0.5	1.0	38	<0.1	<0.1	0.1	53	0.20	0.054	4
PM11-RP 432	Soil		0.3	9.0	4.1	54	<0.1	16.0	5.7	301	1.56	<0.5	0.6	0.9	28	<0.1	<0.1	<0.1	41	0.15	0.051	3
PM11-RP 433	Soil		0.4	11.1	4.2	40	0.1	16.2	5.7	131	1.63	1.2	0.8	0.8	23	<0.1	<0.1	<0.1	45	0.16	0.053	2
PM11-RP 434	Soil		0.3	7.9	3.1	34	<0.1	11.6	5.4	155	1.48	0.6	<0.5	0.7	25	<0.1	<0.1	<0.1	41	0.15	0.044	2
PM11-RP 435	Soil		0.3	12.1	3.7	42	<0.1	17.8	6.7	166	1.95	<0.5	<0.5	1.0	31	<0.1	<0.1	<0.1	62	0.19	0.032	3
PM11-RP 436	Soil		0.4	12.1	4.4	66	<0.1	20.0	6.7	320	1.80	1.1	2.1	1.0	30	<0.1	<0.1	<0.1	42	0.21	0.093	2
PM11-RP 437	Soil		0.2	6.8	2.7	44	<0.1	11.7	4.2	90	1.61	<0.5	1.2	0.7	25	<0.1	<0.1	<0.1	42	0.15	0.031	2

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Project: PLACER MTN.
 Report Date: August 06, 2011

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				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	
PM11-RP 408	Soil			18	0.34	75	0.120	1	1.52	0.028	0.14	<0.1	0.01	2.2	0.2	<0.05	4	<0.5	<0.2
PM11-RP 409	Soil			9	0.17	60	0.110	1	1.54	0.014	0.06	0.1	0.03	1.1	<0.1	<0.05	6	<0.5	<0.2
PM11-RP 410	Soil			9	0.15	55	0.132	<1	2.01	0.023	0.07	0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
PM11-RP 411	Soil			13	0.81	135	0.255	<1	2.00	0.015	0.37	<0.1	<0.01	1.8	0.3	<0.05	8	<0.5	<0.2
PM11-RP 412	Soil			19	0.61	165	0.164	<1	1.96	0.015	0.28	0.1	0.01	2.5	0.2	<0.05	6	<0.5	<0.2
PM11-RP 413	Soil			16	0.20	132	0.141	<1	3.54	0.018	0.07	0.1	0.03	2.6	<0.1	<0.05	11	<0.5	<0.2
PM11-RP 414	Soil			14	0.42	138	0.162	<1	2.63	0.017	0.15	0.1	0.03	2.1	0.1	<0.05	8	<0.5	<0.2
PM11-RP 415	Soil			16	0.42	140	0.152	1	2.57	0.015	0.14	0.1	0.03	2.1	0.1	<0.05	8	<0.5	<0.2
PM11-RP 416	Soil			29	0.59	145	0.155	1	2.13	0.022	0.20	<0.1	0.03	5.8	0.2	<0.05	6	<0.5	<0.2
PM11-RP 417	Soil			26	0.57	141	0.153	1	1.80	0.024	0.21	<0.1	0.02	5.7	0.2	<0.05	6	<0.5	<0.2
PM11-RP 418	Soil			26	0.55	152	0.147	<1	1.46	0.032	0.19	0.2	0.02	4.0	0.2	<0.05	5	<0.5	<0.2
PM11-RP 419	Soil			23	0.42	239	0.112	<1	2.41	0.034	0.11	0.1	0.03	6.3	<0.1	<0.05	7	<0.5	<0.2
PM11-RP 420	Soil			18	0.89	503	0.094	34	1.66	0.204	0.70	0.5	<0.01	5.6	<0.1	<0.05	7	<0.5	0.3
PM11-RP 421	Soil			17	0.55	166	0.081	9	1.51	0.138	0.08	1.0	<0.01	5.6	<0.1	<0.05	6	<0.5	0.5
PM11-RP 422	Soil			26	0.62	80	0.115	<1	2.11	0.017	0.08	0.1	<0.01	4.1	<0.1	<0.05	6	<0.5	0.4
PM11-RP 423	Soil			31	0.85	133	0.140	<1	2.40	0.021	0.25	<0.1	0.01	7.0	0.1	<0.05	7	<0.5	<0.2
PM11-RP 424	Soil			17	0.45	239	0.107	2	2.02	0.019	0.16	0.1	0.02	3.7	<0.1	<0.05	6	<0.5	<0.2
PM11-RP 425	Soil			21	0.51	208	0.111	<1	2.23	0.018	0.15	<0.1	<0.01	4.0	<0.1	<0.05	7	<0.5	<0.2
PM11-RP 426	Soil			19	0.64	179	0.084	<1	2.01	0.019	0.15	<0.1	0.02	6.0	<0.1	<0.05	6	<0.5	0.5
PM11-RP 427	Soil			14	0.32	183	0.090	<1	1.85	0.021	0.08	0.1	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
PM11-RP 428	Soil			18	0.54	192	0.138	<1	1.72	0.015	0.19	0.3	0.01	3.9	0.1	<0.05	6	<0.5	<0.2
PM11-RP 429	Soil			19	0.51	150	0.101	<1	1.68	0.012	0.14	0.2	<0.01	4.2	0.1	<0.05	6	<0.5	<0.2
PM11-RP 430	Soil			20	0.50	184	0.107	<1	1.81	0.025	0.14	<0.1	<0.01	3.7	0.2	<0.05	6	<0.5	<0.2
PM11-RP 431	Soil			21	0.33	106	0.088	1	1.62	0.025	0.08	<0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
PM11-RP 432	Soil			18	0.24	99	0.085	<1	1.57	0.020	0.08	<0.1	<0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-RP 433	Soil			20	0.23	80	0.086	2	1.79	0.021	0.11	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-RP 434	Soil			18	0.19	56	0.072	2	1.36	0.021	0.06	<0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
PM11-RP 435	Soil			27	0.30	76	0.091	1	1.70	0.022	0.09	<0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
PM11-RP 436	Soil			21	0.24	151	0.093	2	2.54	0.019	0.11	<0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
PM11-RP 437	Soil			25	0.24	72	0.078	2	1.50	0.024	0.04	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2

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Project: PLACER MTN.
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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	
PM11-RP 438	Soil	0.3	5.0	2.1	55	<0.1	10.1	4.9	153	1.41	<0.5	<0.5	0.5	22	<0.1	<0.1	<0.1	37	0.14	0.061	2
PM11-RP 439	Soil	0.2	9.5	3.1	33	<0.1	14.2	4.2	133	1.47	0.5	<0.5	0.7	26	<0.1	<0.1	<0.1	40	0.16	0.023	3
PM11-RP 440	Soil	0.3	9.7	4.4	57	<0.1	16.4	6.5	341	1.59	0.7	<0.5	0.8	24	<0.1	<0.1	<0.1	37	0.18	0.065	2
PM11-RP 441	Soil	0.3	19.2	3.3	38	<0.1	19.2	7.0	240	2.03	0.8	<0.5	1.6	44	<0.1	0.1	<0.1	56	0.30	0.032	8
PM11-RP 442	Soil	0.6	13.2	4.7	63	0.2	20.6	5.1	119	1.61	2.6	1.6	1.1	12	<0.1	<0.1	<0.1	35	0.10	0.204	3
PM11-RP 443	Soil	0.8	13.4	4.5	67	0.3	23.5	6.1	291	1.74	1.8	<0.5	1.1	10	<0.1	<0.1	<0.1	39	0.09	0.145	3
PM11-RP 444	Soil	0.9	11.8	4.0	57	0.2	29.1	6.5	601	1.59	1.0	<0.5	1.0	16	<0.1	<0.1	<0.1	33	0.14	0.106	3
PM11-RP 445	Soil	0.2	37.3	4.0	21	0.3	31.5	3.5	90	1.42	1.9	8.2	1.1	37	<0.1	0.1	<0.1	31	0.27	0.017	9



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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	
PM11-RP 438	Soil	24	0.20	61	0.062	2	1.43	0.019	0.03	<0.1	0.03	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-RP 439	Soil	18	0.20	69	0.074	2	1.47	0.024	0.05	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PM11-RP 440	Soil	17	0.21	109	0.088	<1	2.02	0.019	0.11	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-RP 441	Soil	31	0.48	94	0.079	1	1.57	0.025	0.13	<0.1	0.01	4.7	<0.1	<0.05	5	<0.5	<0.2
PM11-RP 442	Soil	16	0.13	97	0.080	<1	2.25	0.015	0.04	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-RP 443	Soil	20	0.17	76	0.090	3	2.47	0.018	0.03	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
PM11-RP 444	Soil	21	0.18	123	0.074	1	2.35	0.016	0.05	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11-RP 445	Soil	30	0.27	142	0.065	1	1.94	0.032	0.05	<0.1	0.02	3.9	<0.1	<0.05	5	0.5	<0.2



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QUALITY CONTROL REPORT

VAN11003328.1

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																					
PM11-GW 045	Soil	0.2	11.8	2.7	23	<0.1	18.6	4.3	105	1.28	0.6	1.6	0.9	27	<0.1	<0.1	<0.1	33	0.20	0.021	5
REP PM11-GW 045	QC	0.2	11.5	3.0	22	<0.1	17.5	4.3	100	1.24	<0.5	1.7	0.9	27	<0.1	<0.1	<0.1	32	0.18	0.020	5
PM11-GW 070	Soil	0.5	10.3	4.6	46	<0.1	22.1	5.6	247	1.46	0.5	1.3	1.1	23	<0.1	<0.1	<0.1	30	0.14	0.105	5
REP PM11-GW 070	QC	0.3	9.7	4.7	45	<0.1	21.5	5.5	241	1.43	<0.5	0.7	1.1	22	<0.1	<0.1	<0.1	29	0.13	0.100	5
PM11-GW 088	Soil	0.2	5.7	2.9	34	<0.1	10.8	3.3	143	1.00	0.9	3.8	0.6	16	<0.1	<0.1	<0.1	34	0.12	0.024	3
REP PM11-GW 088	QC	0.3	5.7	3.0	35	<0.1	11.0	3.4	150	0.97	<0.5	2.9	0.6	16	<0.1	<0.1	<0.1	36	0.13	0.025	3
PM11-GW 105	Soil	0.8	19.8	6.1	81	0.4	24.1	6.9	315	2.01	1.9	<0.5	1.8	13	0.1	<0.1	0.1	45	0.11	0.108	5
REP PM11-GW 105	QC	0.8	19.4	6.1	79	0.4	23.7	6.6	340	1.94	1.8	0.8	1.9	12	0.2	0.1	0.1	45	0.12	0.106	5
PM11-GW 112	Soil	0.7	22.5	3.3	49	0.1	21.1	6.5	185	2.26	2.2	0.8	1.6	19	0.1	0.2	0.1	56	0.23	0.057	9
REP PM11-GW 112	QC	0.6	21.2	4.0	46	<0.1	19.2	6.2	180	2.17	2.0	1.2	1.5	19	0.2	0.2	0.1	54	0.24	0.056	9
PM11-RP 353	Soil	0.3	15.5	6.2	49	<0.1	22.9	9.2	106	2.53	1.7	<0.5	2.2	38	<0.1	<0.1	0.1	55	0.17	0.328	5
REP PM11-RP 353	QC	0.3	15.4	6.3	51	<0.1	22.6	9.1	108	2.60	1.8	<0.5	2.1	39	<0.1	<0.1	0.1	55	0.18	0.334	5
PM11-RP 377	Soil	0.3	11.7	3.3	34	<0.1	14.6	6.0	148	1.68	0.6	<0.5	1.2	33	<0.1	<0.1	<0.1	53	0.18	0.014	4
REP PM11-RP 377	QC	0.3	12.0	3.3	34	<0.1	14.8	6.1	149	1.71	0.5	<0.5	1.2	35	<0.1	<0.1	<0.1	54	0.18	0.014	4
PM11-RP 386	Soil	0.2	13.2	3.1	32	<0.1	17.6	6.6	104	1.73	1.1	0.7	1.2	38	<0.1	<0.1	<0.1	57	0.19	0.034	3
REP PM11-RP 386	QC	0.3	12.2	3.0	30	<0.1	17.0	6.2	101	1.68	<0.5	<0.5	1.2	36	<0.1	<0.1	<0.1	54	0.19	0.032	3
PM11-RP 406	Soil	0.2	25.0	4.6	20	<0.1	20.0	4.8	107	1.05	1.2	0.8	1.3	93	<0.1	<0.1	<0.1	33	0.47	0.044	23
REP PM11-RP 406	QC	0.1	24.6	4.7	20	<0.1	19.7	4.5	109	1.04	1.0	1.0	1.3	90	<0.1	<0.1	0.1	33	0.47	0.043	23
PM11-RP 430	Soil	0.7	36.3	3.2	43	0.2	16.3	8.1	129	2.84	2.8	0.9	1.1	47	<0.1	0.2	0.1	71	0.36	0.069	4
REP PM11-RP 430	QC	0.6	36.8	3.5	44	0.2	16.3	8.3	134	2.97	3.0	<0.5	1.2	47	<0.1	0.3	0.1	72	0.38	0.073	4
Reference Materials																					
STD DS8	Standard	13.3	101.2	104.3	286	1.7	33.5	6.8	574	2.34	25.9	106.0	5.9	61	2.0	5.1	5.5	40	0.66	0.074	14
STD DS8	Standard	13.5	106.6	108.7	299	1.7	37.7	7.5	626	2.46	25.9	105.1	6.3	63	2.2	5.1	6.0	41	0.69	0.078	15
STD DS8	Standard	13.1	111.7	123.0	313	1.8	38.7	7.7	635	2.51	27.4	120.4	6.4	62	2.5	5.7	6.3	43	0.70	0.085	14
STD DS8	Standard	13.3	109.3	108.6	315	1.8	37.2	7.4	624	2.48	27.5	122.2	6.6	63	2.3	5.3	6.2	43	0.70	0.084	14
STD DS8	Standard	12.4	109.8	116.5	301	1.8	36.3	7.2	597	2.38	25.9	118.8	6.8	63	2.4	5.2	6.3	47	0.66	0.077	13
STD DS8	Standard	12.2	111.2	121.0	312	1.8	38.7	7.5	582	2.52	26.9	111.6	7.0	66	2.3	5.5	6.4	49	0.70	0.084	14
STD DS8	Standard	12.0	104.8	111.2	310	1.7	35.7	7.2	613	2.46	27.0	103.7	6.7	64	2.5	5.3	6.3	41	0.70	0.078	15

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Project: PLACER MTN.
Report Date: August 06, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

VAN11003328.1

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																	
PM11-GW 045	Soil	33	0.39	86	0.078	<1	1.16	0.020	0.04	<0.1	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
REP PM11-GW 045	QC	33	0.36	87	0.073	<1	1.10	0.019	0.04	<0.1	<0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
PM11-GW 070	Soil	28	0.18	141	0.080	<1	2.07	0.020	0.05	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
REP PM11-GW 070	QC	27	0.16	139	0.071	<1	1.91	0.019	0.05	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11-GW 088	Soil	22	0.17	61	0.073	<1	0.83	0.015	0.03	<0.1	<0.01	1.0	<0.1	<0.05	3	<0.5	<0.2
REP PM11-GW 088	QC	23	0.18	61	0.073	1	0.82	0.015	0.03	<0.1	<0.01	1.0	<0.1	<0.05	3	<0.5	<0.2
PM11-GW 105	Soil	17	0.25	140	0.094	1	2.21	0.019	0.05	<0.1	0.03	2.0	<0.1	<0.05	7	<0.5	<0.2
REP PM11-GW 105	QC	18	0.24	141	0.092	<1	2.20	0.019	0.05	<0.1	0.04	2.1	<0.1	<0.05	7	<0.5	<0.2
PM11-GW 112	Soil	28	0.46	81	0.052	<1	0.99	0.014	0.09	<0.1	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
REP PM11-GW 112	QC	27	0.42	79	0.049	<1	0.99	0.013	0.09	<0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
PM11-RP 353	Soil	23	0.33	139	0.132	1	3.49	0.014	0.13	<0.1	0.03	2.6	<0.1	<0.05	9	<0.5	<0.2
REP PM11-RP 353	QC	24	0.33	140	0.129	<1	3.48	0.015	0.13	<0.1	0.03	2.6	<0.1	<0.05	10	<0.5	<0.2
PM11-RP 377	Soil	22	0.32	58	0.109	1	1.28	0.033	0.06	<0.1	0.02	3.3	<0.1	<0.05	3	<0.5	<0.2
REP PM11-RP 377	QC	23	0.32	62	0.110	1	1.30	0.035	0.06	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
PM11-RP 386	Soil	25	0.37	86	0.102	<1	1.26	0.030	0.07	<0.1	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
REP PM11-RP 386	QC	25	0.36	83	0.093	<1	1.23	0.028	0.07	<0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
PM11-RP 406	Soil	41	0.31	80	0.076	<1	1.29	0.028	0.06	<0.1	0.03	4.9	<0.1	<0.05	4	<0.5	<0.2
REP PM11-RP 406	QC	40	0.30	80	0.075	<1	1.28	0.027	0.06	<0.1	0.03	5.0	<0.1	<0.05	4	<0.5	<0.2
PM11-RP 430	Soil	20	0.50	184	0.107	<1	1.81	0.025	0.14	<0.1	<0.01	3.7	0.2	<0.05	6	<0.5	<0.2
REP PM11-RP 430	QC	20	0.53	190	0.111	1	1.94	0.027	0.14	<0.1	0.01	3.9	0.2	<0.05	6	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	112	0.50	264	0.113	3	0.89	0.088	0.39	2.7	0.20	2.2	4.7	0.19	4	5.5	4.8
STD DS8	Standard	115	0.52	270	0.108	3	0.90	0.091	0.40	2.7	0.20	1.9	5.1	0.16	4	5.7	4.6
STD DS8	Standard	117	0.63	294	0.113	3	0.92	0.093	0.43	3.2	0.20	2.2	5.7	0.14	5	5.5	5.3
STD DS8	Standard	116	0.62	287	0.111	1	0.91	0.090	0.44	3.2	0.22	2.2	5.6	0.14	5	5.3	5.3
STD DS8	Standard	115	0.54	259	0.114	3	0.89	0.110	0.43	2.9	0.19	2.4	5.3	0.11	5	5.9	4.6
STD DS8	Standard	118	0.59	281	0.119	2	0.97	0.106	0.44	3.0	0.19	2.6	5.6	0.10	5	6.4	4.4
STD DS8	Standard	109	0.62	282	0.107	2	0.91	0.090	0.43	2.9	0.21	2.2	5.4	0.13	5	5.0	5.5

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Report Date: August 06, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

VAN11003328.1

		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	12.8	107.0	111.2	315	1.8	37.8	7.2	627	2.50	26.9	115.4	6.7	64	2.4	5.2	6.2	41	0.69	0.082	15
STD DS8	Standard	12.4	108.0	117.8	303	1.8	37.0	7.3	592	2.41	26.0	108.4	6.7	65	2.4	5.3	6.9	41	0.67	0.076	14
STD DS8	Standard	12.6	103.9	117.0	299	1.8	36.6	7.1	587	2.37	25.5	142.5	6.9	67	2.4	5.4	6.8	39	0.66	0.077	15
STD DS8	Standard	14.0	118.9	120.9	312	1.8	41.7	8.2	601	2.41	27.1	106.8	6.9	67	2.4	5.6	6.5	44	0.67	0.079	14
STD DS8	Standard	13.0	113.0	121.2	298	1.6	38.8	7.6	594	2.33	25.4	105.8	6.5	65	2.2	5.2	6.2	41	0.66	0.076	14
STD DS8	Standard	13.6	105.5	131.4	311	1.9	37.5	7.5	637	2.48	25.6	105.4	6.9	70	2.3	5.6	6.4	45	0.68	0.081	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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Report Date: August 06, 2011

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QUALITY CONTROL REPORT

VAN11003328.1

		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	113	0.62	278	0.106	3	0.92	0.090	0.42	2.9	0.20	2.2	5.4	0.13	5	5.8	5.1
STD DS8	Standard	112	0.60	272	0.112	2	0.87	0.085	0.41	3.0	0.20	2.1	5.4	0.12	5	5.3	4.5
STD DS8	Standard	109	0.58	277	0.114	3	0.89	0.082	0.39	2.9	0.20	2.1	5.2	0.12	5	5.2	4.7
STD DS8	Standard	123	0.60	269	0.132	4	0.91	0.081	0.39	2.7	0.19	2.1	5.3	0.16	4	5.2	5.0
STD DS8	Standard	119	0.58	265	0.133	2	0.87	0.079	0.38	2.7	0.19	2.1	5.1	0.12	4	5.2	4.6
STD DS8	Standard	117	0.62	289	0.111	2	0.91	0.099	0.42	3.1	0.21	2.0	5.5	0.18	5	5.5	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: July 20, 2011
Report Date: July 27, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN11003329.1

CLIENT JOB INFORMATION

Project: PLACER MTN.
Shipment ID:
P.O. Number
Number of Samples: 9

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Contains two rows of sample preparation data.

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.
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Bill Bay BC V0R 2P4
Canada

CC: Steve Butrenchuk



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Project: PLACER MTN.
 Report Date: July 27, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN11003329.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
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	
PM11-GWR65	Rock	2.90	1.5	14.0	95.2	3	26.1	1.4	1.1	107	0.57	9.5	5536	<0.1	2	<0.1	6.2	1.7	7	<0.01	0.005
PM11-GWR66	Rock	2.53	0.3	4.6	10.5	<1	52.6	0.6	0.4	49	0.28	2.6	25653	<0.1	1	<0.1	5.2	1.0	<2	<0.01	0.001
PM11-GWR67	Rock	2.32	2.2	32.0	16.2	2	>100	1.2	0.9	78	0.44	6.8	60708	<0.1	<1	<0.1	20.1	1.2	4	<0.01	0.002
PM11-GWR68	Rock	2.11	0.3	5.0	3.9	3	26.6	2.1	1.1	187	0.29	1.4	65938	<0.1	3	<0.1	1.2	0.2	2	<0.01	0.002
PM11-GWR69	Rock	2.63	0.8	5.4	4.9	2	64.3	1.7	0.6	179	0.40	2.6	47900	<0.1	1	<0.1	5.8	0.2	2	<0.01	0.002
PM11-GWR70	Rock	0.86	0.1	0.4	0.7	2	0.2	1.4	0.7	118	0.27	1.3	176.2	<0.1	2	0.1	<0.1	<0.1	<2	0.03	0.010
PM11-GWR71	Rock	1.95	0.3	1.6	0.4	2	0.3	2.8	0.7	76	0.39	1.0	106.0	<0.1	1	<0.1	0.1	<0.1	<2	0.01	0.002
PM11-GWR72	Rock	2.94	2.3	21.6	6.9	40	0.2	21.0	5.7	105	0.80	1.3	24.6	0.3	2	1.3	0.1	<0.1	7	0.02	0.010
PM11-GWR73	Rock	3.14	0.9	14.3	2.9	31	0.2	10.5	2.7	84	0.70	1.0	18.5	0.2	2	0.7	<0.1	<0.1	7	0.02	0.008



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Project: PLACER MTN.
 Report Date: July 27, 2011

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CERTIFICATE OF ANALYSIS

VAN11003329.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
PM11-GWR65	Rock	<1	2	<0.01	9	<0.001	<1	0.02	0.003	<0.01	<0.1	0.02	<0.1	<0.1	0.08	<1	1.2	4.5
PM11-GWR66	Rock	<1	2	<0.01	6	<0.001	<1	0.02	0.002	<0.01	<0.1	0.15	<0.1	<0.1	<0.05	<1	<0.5	9.5
PM11-GWR67	Rock	<1	2	<0.01	7	<0.001	<1	0.03	0.002	<0.01	<0.1	0.23	<0.1	<0.1	<0.05	<1	1.1	19.0
PM11-GWR68	Rock	<1	2	0.01	12	0.002	<1	0.10	0.002	<0.01	<0.1	0.09	0.4	<0.1	<0.05	<1	<0.5	3.0
PM11-GWR69	Rock	<1	3	<0.01	9	0.001	<1	0.04	0.002	<0.01	<0.1	0.20	0.2	<0.1	<0.05	<1	<0.5	2.3
PM11-GWR70	Rock	<1	2	0.02	14	<0.001	<1	0.06	0.011	0.02	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
PM11-GWR71	Rock	<1	3	0.02	5	<0.001	<1	0.03	0.006	<0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
PM11-GWR72	Rock	2	3	0.01	24	0.001	1	0.10	0.006	0.04	<0.1	<0.01	0.5	<0.1	<0.05	<1	1.2	<0.2
PM11-GWR73	Rock	1	3	0.01	22	<0.001	<1	0.08	0.006	0.04	<0.1	<0.01	0.4	<0.1	<0.05	<1	0.7	<0.2



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Report Date: July 27, 2011

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QUALITY CONTROL REPORT

VAN11003329.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
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	
Core Reject Duplicates																					
PM11-GWR65	Rock	2.90	1.5	14.0	95.2	3	26.1	1.4	1.1	107	0.57	9.5	5536	<0.1	2	<0.1	6.2	1.7	7	<0.01	0.005
DUP PM11-GWR65	QC		1.8	14.8	106.9	3	29.4	1.6	1.3	121	0.71	11.0	4590	<0.1	2	<0.1	6.9	1.9	7	<0.01	0.006
Reference Materials																					
STD DS8	Standard		11.6	93.5	110.4	269	1.5	31.8	6.6	552	2.21	22.8	100.0	6.2	55	2.0	4.5	5.5	36	0.60	0.070
STD DS8	Standard		13.5	100.1	119.6	295	1.7	34.7	7.0	581	2.32	24.8	138.1	6.9	59	2.1	5.0	6.0	39	0.66	0.072
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	1.7	2.5	39	<0.1	2.1	3.5	516	1.75	<0.5	1.7	4.9	53	<0.1	<0.1	<0.1	33	0.44	0.069



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Report Date: July 27, 2011

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QUALITY CONTROL REPORT

VAN11003329.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Core Reject Duplicates																		
PM11-GWR65	Rock	<1	2	<0.01	9	<0.001	<1	0.02	0.003	<0.01	<0.1	0.02	<0.1	<0.1	0.08	<1	1.2	4.5
DUP PM11-GWR65	QC	<1	3	<0.01	10	<0.001	<1	0.02	0.003	<0.01	<0.1	0.01	<0.1	<0.1	0.09	<1	0.7	5.1
Reference Materials																		
STD DS8	Standard	13	102	0.56	233	0.098	3	0.84	0.081	0.35	2.7	0.16	1.7	4.9	0.13	4	5.0	4.9
STD DS8	Standard	16	108	0.59	267	0.116	3	0.91	0.088	0.38	3.0	0.19	2.0	5.1	0.14	5	5.5	5.2
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	3	0.46	144	0.107	<1	0.88	0.096	0.45	<0.1	<0.01	1.8	0.3	<0.05	4	<0.5	<0.2



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Submitted By: Tim Henneberry

Receiving Lab: Canada-Vancouver

Received: July 20, 2011

Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

VAN11003341.1

CLIENT JOB INFORMATION

Project: PLACER MTN.
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
Bill 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	170	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



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: PLACER MTN.
 Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

VAN11003341.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	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	
PM11-MP 041	Soil			0.3	16.9	7.7	41	<0.1	26.5	9.6	223	2.26	<0.5	<0.5	2.2	52	<0.1	<0.1	0.1	63	0.18	0.034	7
PM11-MP 042	Soil			0.2	14.8	5.7	41	<0.1	14.7	9.8	211	2.44	<0.5	<0.5	2.5	56	<0.1	<0.1	<0.1	68	0.24	0.043	5
PM11-MP 043	Soil			0.2	13.4	6.6	53	<0.1	34.3	10.0	328	2.16	<0.5	<0.5	1.6	46	<0.1	<0.1	<0.1	49	0.20	0.070	3
PM11-MP 044	Soil			0.3	7.0	4.9	20	<0.1	11.2	4.6	50	1.26	<0.5	<0.5	1.0	27	<0.1	<0.1	<0.1	29	0.11	0.107	3
PM11-MP 045	Soil			0.1	16.2	7.2	20	<0.1	14.3	3.5	223	1.07	<0.5	<0.5	1.3	59	<0.1	<0.1	0.1	31	0.28	0.025	14
PM11-MP 046	Soil			<0.1	14.3	6.1	32	<0.1	16.8	5.4	141	1.51	0.6	<0.5	1.7	52	<0.1	<0.1	0.1	39	0.25	0.032	10
PM11-MP 047	Soil			0.1	11.5	4.7	24	<0.1	10.7	3.6	101	1.22	0.7	0.9	0.9	48	<0.1	<0.1	0.1	28	0.25	0.017	7
PM11-MP 048	Soil			0.5	15.3	4.7	52	<0.1	17.2	7.8	254	2.09	1.3	2.7	2.1	29	<0.1	<0.1	0.1	56	0.21	0.117	6
PM11-MP 049	Soil			0.8	9.9	4.9	49	0.1	13.6	6.2	364	1.57	0.8	1.3	1.6	17	<0.1	<0.1	0.1	38	0.12	0.099	4
PM11-MP 050	Soil			0.6	11.0	4.7	46	<0.1	10.5	5.9	301	1.69	0.9	0.7	1.3	19	<0.1	<0.1	0.1	44	0.15	0.092	3
PM11-MP 051	Soil			0.6	11.9	4.8	76	<0.1	11.5	8.1	613	2.35	1.0	1.5	1.7	14	<0.1	<0.1	0.1	61	0.12	0.096	3
PM11-MP 052	Soil			1.3	12.2	7.0	102	<0.1	15.0	8.6	761	2.49	1.2	1.0	1.6	18	<0.1	0.1	0.2	61	0.16	0.096	3
PM11-MP 053	Soil			0.7	16.1	5.2	74	<0.1	15.5	7.1	300	2.21	1.5	3.3	2.2	17	<0.1	<0.1	0.2	50	0.14	0.174	4
PM11-MP 054	Soil			0.7	6.3	3.6	67	<0.1	9.6	7.4	516	2.18	0.7	2.8	1.4	17	<0.1	<0.1	0.2	59	0.16	0.071	2
PM11-MP 055	Soil			0.5	19.4	5.0	89	<0.1	14.0	9.0	423	2.64	1.0	3.5	2.8	21	<0.1	0.2	1.9	66	0.18	0.091	3
PMS-20	Rock Pulp			133.1	4188	23.3	64	2.6	39.4	22.2	432	4.57	56.8	525.3	2.1	28	0.3	3.4	0.4	132	0.35	0.095	10
PM11-MP 056	Soil			0.4	14.0	3.7	68	<0.1	13.8	9.5	315	2.83	0.6	1.7	2.2	33	<0.1	0.1	0.1	81	0.27	0.060	4
PM11-MP 057	Soil			0.3	14.1	4.6	51	<0.1	15.3	8.4	250	2.50	<0.5	0.8	1.8	52	<0.1	0.1	0.1	72	0.29	0.037	4
PM11-MP 058	Soil			0.4	11.6	4.3	48	<0.1	15.5	7.9	251	2.28	0.6	1.0	1.2	36	<0.1	0.1	0.1	65	0.27	0.093	3
PM11-MP 059	Soil			0.3	19.4	3.7	57	<0.1	16.9	10.4	323	3.14	1.1	<0.5	2.4	55	<0.1	0.2	0.1	94	0.47	0.052	7
PM11-MP 060	Soil			0.3	18.9	4.0	62	<0.1	14.2	11.3	439	3.23	1.2	<0.5	2.2	55	<0.1	0.2	0.1	93	0.56	0.073	7
PM11-MP 061	Soil			0.3	5.7	4.1	62	<0.1	11.9	3.8	214	1.18	<0.5	1.0	1.0	17	<0.1	<0.1	0.1	28	0.13	0.085	2
PM11-MP 062	Soil			0.4	10.4	4.8	48	<0.1	16.0	4.8	176	1.55	0.7	1.5	1.4	36	<0.1	<0.1	0.1	40	0.20	0.066	4
PM11-MP 063	Soil			0.3	10.1	5.8	45	<0.1	16.4	5.5	319	1.60	<0.5	0.6	1.0	34	<0.1	<0.1	0.1	36	0.17	0.051	3
PM11-MP 064	Soil			0.6	8.4	4.4	43	<0.1	12.5	5.0	250	1.52	<0.5	1.3	1.5	30	<0.1	<0.1	<0.1	41	0.21	0.037	4
PM11-MP 065	Soil			0.2	3.6	2.2	49	<0.1	4.9	3.3	101	1.50	<0.5	0.6	0.6	15	<0.1	<0.1	<0.1	39	0.13	0.111	2
PM11-MP 066	Soil			0.3	6.5	3.4	33	<0.1	11.6	4.1	197	1.35	<0.5	2.0	0.7	32	<0.1	<0.1	<0.1	31	0.19	0.021	3
PM11-MP 067	Soil			0.2	10.2	5.1	35	<0.1	24.6	7.8	398	1.95	<0.5	0.6	1.6	53	<0.1	<0.1	0.1	48	0.30	0.013	5
PM11-MP 068	Soil			0.4	13.7	7.9	39	<0.1	29.6	9.1	677	2.15	<0.5	1.2	2.3	57	<0.1	<0.1	0.1	57	0.26	0.021	12
PM11-MP 069	Soil			0.4	20.1	5.7	44	<0.1	47.0	9.1	217	2.27	1.0	0.6	2.1	50	<0.1	<0.1	0.1	55	0.28	0.077	6

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CERTIFICATE OF ANALYSIS

VAN11003341.1

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	
PM11-MP 041	Soil	33	0.39	173	0.146	<1	3.38	0.018	0.05	<0.1	<0.01	2.8	<0.1	<0.05	9	<0.5	<0.2
PM11-MP 042	Soil	22	0.48	197	0.166	<1	2.13	0.019	0.19	<0.1	0.01	2.2	0.1	<0.05	6	<0.5	<0.2
PM11-MP 043	Soil	24	0.38	172	0.157	<1	2.68	0.017	0.13	<0.1	0.02	1.8	0.1	<0.05	8	<0.5	<0.2
PM11-MP 044	Soil	13	0.15	94	0.089	<1	1.61	0.019	0.05	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 045	Soil	25	0.23	93	0.083	<1	1.39	0.025	0.05	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 046	Soil	30	0.28	113	0.104	<1	1.54	0.024	0.08	<0.1	<0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 047	Soil	23	0.26	99	0.085	2	1.31	0.030	0.08	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 048	Soil	20	0.31	140	0.124	<1	2.09	0.014	0.10	0.1	0.03	2.1	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 049	Soil	16	0.18	111	0.097	2	1.75	0.013	0.05	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 050	Soil	11	0.21	118	0.113	1	1.71	0.015	0.07	<0.1	0.03	1.2	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 051	Soil	13	0.31	106	0.145	1	2.28	0.015	0.07	0.1	0.04	1.5	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 052	Soil	14	0.38	108	0.169	2	2.85	0.013	0.10	0.1	0.04	1.7	<0.1	<0.05	10	<0.5	<0.2
PM11-MP 053	Soil	14	0.28	108	0.127	2	2.89	0.023	0.11	0.1	0.02	2.2	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 054	Soil	9	0.22	92	0.115	2	1.66	0.016	0.06	<0.1	0.02	1.0	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 055	Soil	14	0.40	160	0.121	1	2.66	0.013	0.12	1.2	0.03	2.0	<0.1	<0.05	8	<0.5	0.9
PMS-20	Rock Pulp	55	0.96	44	0.113	2	1.44	0.035	0.94	4.1	0.07	10.6	0.5	2.10	6	7.0	1.1
PM11-MP 056	Soil	20	0.50	129	0.145	1	2.04	0.017	0.18	<0.1	0.01	2.6	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 057	Soil	24	0.41	176	0.134	<1	2.27	0.022	0.12	<0.1	0.01	2.9	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 058	Soil	19	0.34	143	0.113	<1	2.31	0.018	0.08	<0.1	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 059	Soil	25	0.64	116	0.129	<1	2.13	0.021	0.19	<0.1	0.02	4.9	0.1	<0.05	7	<0.5	<0.2
PM11-MP 060	Soil	19	0.67	113	0.121	<1	2.18	0.019	0.22	<0.1	0.02	4.7	0.1	<0.05	7	<0.5	<0.2
PM11-MP 061	Soil	9	0.10	90	0.090	<1	1.36	0.022	0.04	<0.1	0.02	1.1	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 062	Soil	21	0.19	192	0.107	1	1.95	0.023	0.07	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 063	Soil	21	0.20	175	0.104	<1	2.63	0.020	0.06	<0.1	0.03	1.5	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 064	Soil	23	0.20	114	0.103	1	1.45	0.021	0.08	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 065	Soil	8	0.08	47	0.082	1	1.04	0.023	0.02	<0.1	0.02	0.9	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 066	Soil	22	0.17	122	0.085	<1	1.33	0.018	0.07	<0.1	0.02	1.3	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 067	Soil	36	0.24	188	0.114	<1	1.42	0.031	0.07	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 068	Soil	36	0.28	144	0.108	<1	3.23	0.015	0.06	<0.1	0.03	3.5	0.1	<0.05	8	<0.5	<0.2
PM11-MP 069	Soil	43	0.42	176	0.112	1	3.07	0.022	0.12	<0.1	0.03	3.8	<0.1	<0.05	8	<0.5	<0.2

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Project: PLACER MTN.
 Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

VAN11003341.1

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	%	%	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	1
PM11-MP 070	Soil		0.7	16.2	5.9	43	<0.1	32.0	9.7	322	2.25	0.7	<0.5	1.6	24	<0.1	0.1	0.1	59	0.16	0.045	4
PM11-MP 071	Soil		0.5	14.8	5.6	40	<0.1	37.1	10.5	184	2.40	<0.5	0.7	1.5	37	<0.1	<0.1	0.1	61	0.17	0.029	3
PM11-MP 072	Soil		0.3	20.8	5.6	32	<0.1	40.6	11.3	332	2.32	0.5	0.5	2.5	108	<0.1	<0.1	<0.1	62	0.41	0.026	18
PM11-MP 073	Soil		0.2	23.1	8.1	42	<0.1	32.7	12.4	832	2.63	1.2	0.7	4.5	73	<0.1	0.1	0.1	71	0.43	0.041	31
PM11-MP 074	Soil		0.3	12.4	5.0	29	<0.1	19.4	8.1	636	1.75	<0.5	<0.5	2.3	56	<0.1	<0.1	<0.1	43	0.29	0.012	14
PM11-MP 075	Soil		0.2	10.3	2.0	41	<0.1	16.3	6.0	170	1.89	<0.5	<0.5	1.0	29	<0.1	<0.1	<0.1	47	0.21	0.030	2
PM11-MP 076	Soil		0.3	7.2	3.1	44	<0.1	13.3	4.3	231	1.44	<0.5	<0.5	0.8	33	<0.1	<0.1	<0.1	35	0.23	0.027	2
PM11-MP 077	Soil		0.4	21.9	4.2	45	<0.1	34.4	9.5	222	2.40	0.6	0.8	2.8	63	<0.1	<0.1	<0.1	67	0.32	0.021	9
PM11-MP 078	Soil		0.3	32.4	3.4	39	<0.1	52.1	11.0	255	2.57	1.2	1.7	2.2	67	<0.1	0.1	<0.1	72	0.41	0.031	9
PM11-MP 079	Soil		0.3	18.9	4.1	39	<0.1	30.2	7.9	135	1.99	<0.5	<0.5	1.4	44	<0.1	<0.1	<0.1	49	0.26	0.030	5
PM11-MP 080	Soil		0.2	18.3	3.3	31	<0.1	29.6	7.9	182	1.79	0.6	0.6	1.4	44	<0.1	<0.1	<0.1	50	0.27	0.022	6
PM11-MP 081	Soil		0.3	10.4	4.0	57	<0.1	19.2	5.5	397	1.59	0.8	<0.5	0.8	31	0.2	0.2	0.2	36	0.19	0.040	2
PM11-MP 082	Soil		0.3	13.3	5.8	43	<0.1	26.1	7.4	198	1.89	0.9	2.6	1.2	34	<0.1	<0.1	0.1	37	0.23	0.050	3
PM11-MP 083	Soil		0.2	7.7	3.9	46	<0.1	18.4	4.7	122	1.50	1.0	<0.5	1.0	15	<0.1	<0.1	<0.1	32	0.09	0.177	2
PM11-MP 084	Soil		0.5	9.0	4.6	57	<0.1	16.9	4.8	260	1.31	1.9	0.6	1.1	15	0.2	0.3	0.2	32	0.13	0.164	3
PM11-MP 085	Soil		0.4	9.1	4.6	57	<0.1	20.5	5.1	263	1.33	1.0	<0.5	0.8	16	0.2	0.1	0.1	33	0.10	0.098	3
PM11-MP 086	Soil		0.4	16.2	5.3	41	<0.1	37.2	7.4	184	2.00	1.2	52.5	1.0	30	<0.1	<0.1	<0.1	46	0.21	0.055	4
PM11-MP 087	Soil		0.4	7.2	4.4	43	<0.1	23.7	5.1	69	1.65	1.5	<0.5	1.0	16	<0.1	<0.1	0.1	37	0.14	0.137	2
PM11-MP 088	Soil		0.2	14.6	3.5	29	<0.1	32.3	6.0	159	1.80	0.8	3.8	1.2	40	<0.1	<0.1	<0.1	44	0.28	0.017	4
PM11-MP 089	Soil		0.2	9.8	3.6	39	<0.1	20.3	4.5	90	1.24	0.5	4.4	0.7	27	0.2	0.1	<0.1	34	0.18	0.023	3
PM11-MP 090	Soil		0.3	16.7	5.1	48	0.1	26.4	6.1	228	1.49	1.0	0.6	1.1	30	0.1	0.2	0.1	36	0.20	0.051	6
PM11-MP 091	Soil		0.7	17.2	6.2	68	0.1	43.7	8.5	522	2.11	2.0	<0.5	0.9	37	<0.1	0.1	0.1	43	0.39	0.148	2
PM11-MP 092	Soil		0.3	30.9	5.2	40	0.1	54.1	8.4	116	2.32	2.3	0.7	1.3	38	0.1	0.2	0.1	51	0.31	0.087	10
PM11-MP 093	Soil		0.3	9.4	4.1	35	<0.1	19.0	4.7	52	1.52	1.2	0.6	1.0	20	<0.1	<0.1	<0.1	32	0.18	0.194	3
PM11-MP 094	Soil		1.3	29.6	5.0	104	0.2	23.2	6.6	251	2.75	5.2	2.3	1.4	35	0.3	0.4	<0.1	72	0.33	0.064	8
PM11-MP 095	Soil		0.3	20.6	3.5	43	0.1	25.0	6.0	402	1.80	0.9	2.2	0.8	40	0.2	0.1	<0.1	46	0.36	0.020	7
PM11-MP 096	Soil		0.5	11.3	4.7	44	<0.1	26.8	6.8	248	1.75	1.2	92.5	1.1	18	0.1	0.2	0.1	40	0.15	0.136	3
PM11-MP 097	Soil		0.4	9.1	4.9	46	<0.1	19.5	5.1	141	1.64	1.3	<0.5	0.9	17	0.1	<0.1	0.1	38	0.16	0.144	3
PM11-MP 098	Soil		0.4	13.5	4.4	40	<0.1	25.6	6.7	154	1.76	1.8	1.0	1.2	23	<0.1	<0.1	<0.1	38	0.11	0.150	3
PM11-MP 099	Soil		0.4	12.1	4.6	48	<0.1	23.9	7.9	271	1.96	0.8	<0.5	0.9	26	<0.1	<0.1	<0.1	44	0.17	0.053	3

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Project: PLACER MTN.
 Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

VAN11003341.1

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	
PM11-MP 070	Soil			37	0.29	97	0.101	1	2.67	0.019	0.08	<0.1	0.03	3.0	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 071	Soil			38	0.35	107	0.101	<1	2.99	0.018	0.05	<0.1	0.03	2.4	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 072	Soil			53	0.55	129	0.100	1	2.07	0.032	0.11	<0.1	0.03	7.3	0.1	<0.05	5	<0.5	<0.2
PM11-MP 073	Soil			50	0.53	100	0.097	1	2.90	0.024	0.10	<0.1	0.03	12.9	0.3	<0.05	8	<0.5	<0.2
PM11-MP 074	Soil			31	0.28	102	0.085	<1	1.43	0.033	0.10	<0.1	0.02	5.0	0.1	<0.05	4	<0.5	<0.2
PM11-MP 075	Soil			32	0.37	67	0.073	1	1.44	0.024	0.07	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 076	Soil			21	0.19	81	0.079	2	1.42	0.023	0.10	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 077	Soil			51	0.54	129	0.121	<1	2.21	0.046	0.12	<0.1	0.01	7.4	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 078	Soil			59	0.75	118	0.107	<1	2.08	0.044	0.10	<0.1	0.01	7.3	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 079	Soil			35	0.38	106	0.104	<1	2.17	0.031	0.10	<0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 080	Soil			38	0.40	82	0.100	<1	1.58	0.038	0.08	<0.1	0.02	4.2	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 081	Soil			22	0.24	98	0.075	2	1.67	0.024	0.08	<0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 082	Soil			31	0.31	104	0.093	2	2.73	0.018	0.09	<0.1	0.03	2.2	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 083	Soil			13	0.11	85	0.073	2	2.02	0.021	0.03	0.1	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 084	Soil			12	0.12	77	0.082	1	2.27	0.018	0.06	0.1	0.04	1.6	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 085	Soil			17	0.15	85	0.071	<1	1.82	0.017	0.04	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 086	Soil			35	0.31	114	0.087	<1	2.89	0.021	0.07	<0.1	0.02	2.7	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 087	Soil			19	0.14	56	0.085	<1	2.29	0.019	0.05	0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 088	Soil			41	0.39	89	0.089	<1	1.55	0.035	0.05	<0.1	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 089	Soil			20	0.20	95	0.074	<1	1.40	0.028	0.05	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 090	Soil			23	0.26	151	0.079	1	2.10	0.027	0.07	0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 091	Soil			27	0.28	164	0.103	3	3.27	0.022	0.15	<0.1	0.04	2.0	<0.1	<0.05	9	<0.5	<0.2
PM11-MP 092	Soil			38	0.43	139	0.094	<1	2.63	0.024	0.10	<0.1	0.02	4.5	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 093	Soil			24	0.16	93	0.072	<1	1.82	0.021	0.06	<0.1	0.03	2.0	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 094	Soil			20	0.47	121	0.076	<1	1.60	0.014	0.19	0.1	0.03	3.6	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 095	Soil			34	0.32	95	0.082	2	1.41	0.030	0.07	0.1	0.03	3.3	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 096	Soil			34	0.28	102	0.075	<1	1.79	0.020	0.06	<0.1	0.02	2.2	<0.1	<0.05	6	0.5	<0.2
PM11-MP 097	Soil			22	0.19	74	0.080	<1	1.82	0.021	0.04	0.1	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 098	Soil			26	0.19	119	0.084	<1	3.17	0.024	0.03	<0.1	0.04	2.0	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 099	Soil			31	0.29	100	0.081	<1	3.37	0.020	0.06	<0.1	0.02	2.4	<0.1	<0.05	9	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	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	
PM11-MP 100	Soil		0.4	14.4	4.8	41	<0.1	30.6	6.5	171	1.82	0.8	1.8	1.0	33	<0.1	0.1	<0.1	44	0.22	0.052	5
PMS-21	Rock Pulp		15.8	61.8	15.7	19	0.2	16.7	2.4	97	3.71	461.7	217.6	0.7	28	0.3	25.9	0.2	10	0.99	0.006	2
PM11-MP 101	Soil		0.3	17.4	5.5	55	<0.1	49.0	8.3	119	2.19	4.7	<0.5	1.0	30	<0.1	0.1	0.1	46	0.22	0.103	3
PM11-MP 102	Soil		0.2	19.4	4.8	40	<0.1	41.8	7.0	78	1.80	1.6	0.7	1.1	37	<0.1	<0.1	<0.1	31	0.19	0.096	3
PM11-MP 103	Soil		0.4	26.4	7.1	61	<0.1	84.0	12.1	144	2.96	1.1	<0.5	1.3	43	<0.1	<0.1	0.1	52	0.28	0.056	3
PM11-MP 104	Soil		0.5	15.0	5.7	42	<0.1	36.3	6.6	105	1.82	1.1	<0.5	0.7	26	<0.1	0.1	<0.1	36	0.21	0.090	2
PM11-MP 105	Soil		0.4	37.7	3.9	40	<0.1	42.2	11.2	307	2.77	2.4	<0.5	1.9	50	0.1	0.2	<0.1	62	0.47	0.032	9
PM11-MP 106	Soil		0.4	7.6	4.7	32	<0.1	13.8	3.6	88	1.22	1.5	<0.5	0.8	12	<0.1	<0.1	<0.1	32	0.12	0.167	2
PM11-MP 107	Soil		0.2	14.8	4.8	41	<0.1	26.0	6.0	152	1.83	1.8	<0.5	1.2	19	<0.1	<0.1	<0.1	39	0.17	0.235	5
PM11-MP 108	Soil		0.2	8.2	3.7	34	<0.1	13.4	4.1	121	1.17	0.6	<0.5	0.4	21	<0.1	<0.1	<0.1	31	0.16	0.020	2
PM11-MP 109	Soil		0.3	20.8	5.7	42	<0.1	38.2	6.7	77	2.15	2.8	<0.5	1.4	24	0.1	<0.1	0.1	44	0.16	0.221	4
PM11-MP 110	Soil		0.2	9.1	4.1	39	<0.1	21.9	4.3	132	1.03	0.6	<0.5	0.4	25	<0.1	<0.1	<0.1	25	0.19	0.024	4
PM11-MP 111	Soil		0.5	15.3	4.1	51	<0.1	25.5	6.7	114	1.74	1.3	0.9	1.1	16	<0.1	<0.1	<0.1	38	0.15	0.121	4
PM11-MP 112	Soil		0.1	10.2	5.4	27	<0.1	13.0	2.7	45	0.89	0.6	<0.5	0.3	23	<0.1	<0.1	<0.1	20	0.15	0.021	3
PM11-MP 113	Soil		0.1	11.5	3.1	27	<0.1	14.3	3.8	156	1.28	0.9	<0.5	0.5	23	<0.1	<0.1	<0.1	32	0.18	0.015	3
PM11-MP 114	Soil		0.2	13.4	3.6	30	<0.1	17.6	4.3	211	1.31	0.8	<0.5	0.7	31	<0.1	0.1	<0.1	32	0.27	0.019	5
PM11-MP 115	Soil		0.2	12.8	3.2	24	<0.1	15.1	5.0	254	1.33	0.7	1.8	0.7	31	<0.1	<0.1	<0.1	32	0.24	0.013	5
PM11-MP 116	Soil		<0.1	10.0	4.5	22	<0.1	10.4	2.9	186	1.09	<0.5	1.4	0.6	24	<0.1	<0.1	<0.1	22	0.17	0.016	3
PM11-MP 117	Soil		0.3	15.0	4.6	29	<0.1	15.0	4.7	234	1.25	1.2	0.9	0.8	26	<0.1	<0.1	<0.1	29	0.18	0.062	4
PM11-MP 118	Soil		0.2	12.3	2.8	24	<0.1	14.1	6.5	285	1.29	0.8	2.1	1.0	25	<0.1	<0.1	<0.1	33	0.22	0.021	5
PM11-MP 119	Soil		0.1	12.0	4.6	25	<0.1	10.1	6.7	274	1.11	1.0	<0.5	0.5	23	<0.1	<0.1	0.1	29	0.17	0.024	4
PM11-MP 120	Soil		0.1	7.7	3.8	18	<0.1	5.8	1.9	61	0.64	<0.5	<0.5	0.2	12	<0.1	<0.1	<0.1	15	0.08	0.016	2
PM11-MP 120 D	Soil		0.1	10.0	4.2	24	<0.1	8.4	2.5	65	0.81	<0.5	<0.5	0.3	15	<0.1	<0.1	<0.1	19	0.10	0.018	2
PM11-MP 121	Soil		0.1	15.8	3.5	19	<0.1	12.3	3.4	85	1.18	<0.5	1.1	1.0	24	<0.1	<0.1	<0.1	29	0.20	0.025	5
PM11-MP 122	Soil		0.7	7.8	5.1	34	<0.1	11.2	3.3	85	1.28	1.1	<0.5	0.8	8	<0.1	<0.1	0.1	31	0.06	0.099	2
PM11-MP 123	Soil		0.6	10.5	5.0	45	<0.1	14.4	4.4	531	1.29	1.5	<0.5	1.1	10	<0.1	<0.1	<0.1	28	0.08	0.202	2
PM11-MP 124	Soil		0.8	23.3	4.5	49	0.1	24.3	7.2	87	2.18	3.6	<0.5	1.8	14	<0.1	0.1	0.1	48	0.11	0.191	3
PM11-MP 125	Soil		0.1	10.9	3.7	26	<0.1	10.9	2.6	63	1.06	0.9	3.2	0.5	19	<0.1	<0.1	<0.1	22	0.13	0.020	2
PM11-MP 126	Soil		0.6	22.7	3.2	38	<0.1	22.8	7.8	233	1.90	2.8	3.4	1.3	18	<0.1	0.2	<0.1	47	0.18	0.048	5
PM11-MP 127	Soil		0.2	15.2	4.5	31	<0.1	18.3	5.6	107	1.49	1.8	1.2	0.7	19	<0.1	<0.1	0.1	33	0.15	0.057	3

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Project: PLACER MTN.
 Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

VAN11003341.1

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	
PM11-MP 100	Soil	47	0.36	85	0.089	<1	1.92	0.019	0.05	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2
PMS-21	Rock Pulp	21	0.02	1061	0.009	<1	0.21	0.006	0.07	2.4	3.12	0.6	11.0	0.12	<1	1.8	<0.2
PM11-MP 101	Soil	44	0.43	136	0.098	1	3.00	0.024	0.05	<0.1	<0.01	2.4	0.1	<0.05	9	<0.5	<0.2
PM11-MP 102	Soil	33	0.30	215	0.082	<1	3.10	0.028	0.05	<0.1	0.04	2.4	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 103	Soil	56	0.65	207	0.120	<1	4.94	0.022	0.08	<0.1	0.04	4.1	<0.1	<0.05	10	<0.5	<0.2
PM11-MP 104	Soil	29	0.25	129	0.081	<1	2.51	0.019	0.06	<0.1	0.05	2.5	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 105	Soil	112	0.92	91	0.085	<1	2.07	0.036	0.07	<0.1	0.03	8.1	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 106	Soil	16	0.11	60	0.077	1	2.02	0.019	0.03	<0.1	0.05	1.5	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 107	Soil	29	0.24	153	0.084	<1	2.62	0.023	0.04	<0.1	0.03	2.5	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 108	Soil	20	0.20	66	0.073	<1	1.31	0.028	0.03	<0.1	0.02	1.4	<0.1	<0.05	5	0.5	<0.2
PM11-MP 109	Soil	32	0.25	168	0.100	1	3.47	0.022	0.07	<0.1	0.03	2.6	<0.1	<0.05	10	<0.5	<0.2
PM11-MP 110	Soil	25	0.26	99	0.074	1	1.43	0.027	0.03	<0.1	0.03	1.1	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 111	Soil	26	0.24	111	0.085	1	2.28	0.024	0.05	<0.1	0.03	2.0	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 112	Soil	14	0.14	79	0.064	<1	1.41	0.027	0.02	<0.1	0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 113	Soil	20	0.20	77	0.069	<1	1.42	0.032	0.03	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 114	Soil	35	0.44	96	0.081	<1	1.51	0.025	0.06	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 115	Soil	32	0.39	97	0.076	<1	1.27	0.024	0.05	<0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 116	Soil	17	0.17	87	0.063	<1	1.22	0.025	0.03	<0.1	<0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 117	Soil	22	0.24	108	0.063	<1	1.39	0.017	0.05	<0.1	0.03	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 118	Soil	35	0.49	91	0.079	<1	1.12	0.018	0.05	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
PM11-MP 119	Soil	21	0.26	84	0.063	<1	1.15	0.022	0.03	<0.1	0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 120	Soil	10	0.10	46	0.044	<1	0.85	0.017	0.02	<0.1	<0.01	0.7	<0.1	<0.05	3	<0.5	<0.2
PM11-MP 120 D	Soil	13	0.13	64	0.060	<1	1.10	0.020	0.02	<0.1	0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 121	Soil	31	0.41	81	0.071	<1	1.14	0.018	0.04	<0.1	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
PM11-MP 122	Soil	15	0.13	62	0.074	<1	1.44	0.014	0.03	<0.1	0.03	1.0	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 123	Soil	13	0.12	98	0.075	<1	1.85	0.016	0.05	<0.1	0.03	1.4	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 124	Soil	29	0.26	77	0.082	<1	2.71	0.018	0.06	<0.1	0.04	2.2	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 125	Soil	19	0.20	73	0.065	<1	1.27	0.024	0.03	<0.1	<0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 126	Soil	42	0.48	116	0.075	<1	1.54	0.017	0.06	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 127	Soil	26	0.28	94	0.075	<1	1.76	0.017	0.06	<0.1	0.01	1.7	<0.1	<0.05	6	<0.5	<0.2

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Project: PLACER MTN.
 Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

VAN11003341.1

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	%	%	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	
PM11-MP 128	Soil		0.5	21.0	5.4	31	<0.1	25.5	5.7	80	1.82	3.3	<0.5	1.5	12	<0.1	<0.1	0.1	41	0.08	0.230	5
PM11-MP 128 D	Soil		0.6	18.9	5.9	34	<0.1	23.1	5.4	78	1.80	3.1	<0.5	1.5	12	<0.1	0.1	0.1	41	0.08	0.209	4
PM11-MP 129	Soil		0.4	8.3	6.5	41	<0.1	13.0	4.7	177	1.50	<0.5	0.6	1.3	37	<0.1	<0.1	0.1	34	0.14	0.080	5
PM11-MP 130	Soil		0.3	9.1	6.2	45	<0.1	11.8	5.1	116	1.57	<0.5	<0.5	1.7	28	<0.1	<0.1	0.1	35	0.13	0.142	6
PM11-MP 131	Soil		0.3	14.1	7.0	59	<0.1	16.6	6.9	315	1.94	<0.5	<0.5	1.5	47	<0.1	<0.1	0.1	42	0.18	0.089	6
PM11-MP 132	Soil		0.4	10.2	7.2	49	<0.1	12.6	5.5	226	1.60	0.7	<0.5	0.9	47	<0.1	<0.1	0.1	36	0.20	0.140	6
PM11-MP 133	Soil		0.4	11.2	7.0	48	<0.1	17.7	6.5	235	1.71	<0.5	<0.5	1.7	43	<0.1	<0.1	0.1	37	0.16	0.079	5
PM11-MP 134	Soil		0.2	10.0	5.2	45	<0.1	15.2	5.9	263	1.79	0.5	<0.5	1.7	35	<0.1	<0.1	0.1	49	0.18	0.069	6
PM11-MP 135	Soil		0.5	9.0	6.0	37	<0.1	16.4	4.9	115	1.58	<0.5	<0.5	1.7	29	<0.1	<0.1	0.1	35	0.15	0.096	6
PM11-MP 136	Soil		0.5	10.0	7.5	42	<0.1	20.9	5.8	168	1.60	0.6	<0.5	1.8	37	0.1	<0.1	0.1	37	0.18	0.095	5
PM11-MP 137	Soil		0.3	7.9	6.7	43	<0.1	17.7	5.7	233	1.60	<0.5	<0.5	1.1	25	<0.1	<0.1	0.1	39	0.13	0.056	3
PM11-MP 138	Soil		0.6	7.5	5.7	29	<0.1	20.8	5.3	100	1.55	1.1	<0.5	1.6	35	<0.1	<0.1	0.1	34	0.18	0.148	4
PM11-MP 139	Soil		0.5	7.7	6.5	33	<0.1	12.7	4.4	127	1.72	1.8	<0.5	1.6	15	<0.1	<0.1	0.2	38	0.10	0.137	3
PM11-MP 140	Soil		0.7	4.8	5.4	32	<0.1	9.2	3.6	76	1.40	0.8	<0.5	0.9	13	<0.1	<0.1	0.1	34	0.08	0.063	2
PM11-MP 141	Soil		0.3	10.9	7.2	38	<0.1	17.4	7.0	463	2.12	<0.5	<0.5	1.4	52	<0.1	<0.1	0.1	49	0.29	0.021	5
PM11-MP 142	Soil		0.3	12.3	6.0	54	<0.1	20.2	9.0	724	2.11	<0.5	<0.5	1.3	48	<0.1	<0.1	<0.1	50	0.30	0.056	6
PM11-MP 143	Soil		0.3	8.7	4.8	63	<0.1	15.7	5.5	112	1.69	<0.5	<0.5	1.0	17	<0.1	<0.1	0.1	35	0.12	0.146	2
PM11-MP 144	Soil		0.4	7.2	4.9	72	<0.1	17.4	4.4	291	1.64	0.8	<0.5	1.4	18	<0.1	<0.1	0.1	35	0.13	0.270	3
PM11-MP 145	Soil		0.4	8.9	6.1	68	<0.1	22.1	5.3	242	1.63	0.7	<0.5	1.3	28	0.1	<0.1	0.1	35	0.18	0.156	3
PM11-MP 146	Soil		0.2	12.1	7.3	41	<0.1	15.7	6.4	198	2.11	<0.5	<0.5	1.2	79	<0.1	<0.1	0.1	50	0.28	0.032	7
PM11-MP 147	Soil		0.3	15.2	5.8	36	<0.1	15.1	6.0	222	2.19	<0.5	<0.5	1.6	63	<0.1	<0.1	0.1	51	0.29	0.033	6
PM11-MP 148	Soil		0.8	3.6	5.0	41	<0.1	4.1	3.1	452	0.98	1.2	0.6	0.5	16	<0.1	<0.1	0.1	26	0.12	0.065	2
PM11-MP 149	Soil		0.2	6.4	4.5	40	<0.1	7.6	4.2	209	1.42	0.7	<0.5	0.7	33	<0.1	<0.1	0.1	33	0.19	0.039	3
PM11-MP 150	Soil		0.2	4.1	4.5	40	<0.1	5.3	2.9	195	1.10	0.6	<0.5	0.6	25	<0.1	<0.1	0.1	25	0.15	0.019	2
PM11-MP 151	Soil		0.4	4.4	5.0	38	<0.1	7.8	3.4	104	1.27	1.1	<0.5	0.9	14	<0.1	<0.1	0.1	30	0.09	0.117	2
PM11-MP 152	Soil		0.3	5.0	4.5	43	<0.1	8.9	4.1	180	1.27	0.5	<0.5	0.8	20	<0.1	<0.1	0.1	32	0.12	0.048	2
PM11-MP 153	Soil		0.5	4.9	5.5	46	<0.1	7.8	3.4	165	1.27	1.1	<0.5	1.0	13	<0.1	<0.1	0.1	30	0.08	0.092	2
PM11-MP 154	Soil		0.7	7.2	5.2	37	<0.1	10.1	4.2	272	1.34	0.9	<0.5	1.0	20	<0.1	<0.1	0.1	33	0.10	0.059	3
PM11-MP 155	Soil		0.4	11.7	6.9	39	<0.1	24.2	6.6	255	1.77	1.2	<0.5	1.6	29	<0.1	<0.1	0.1	37	0.14	0.046	4
PM11-MP 156	Soil		0.5	12.0	7.0	48	<0.1	22.0	6.4	305	1.65	1.2	<0.5	1.6	30	<0.1	<0.1	0.1	34	0.14	0.067	3

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CERTIFICATE OF ANALYSIS

VAN11003341.1

Method	Analyte	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
MDL	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
PM11-MP 128	Soil	25	0.16	98	0.088	<1	3.04	0.018	0.05	<0.1	0.03	2.8	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 128 D	Soil	23	0.16	85	0.092	<1	2.83	0.017	0.04	<0.1	0.03	2.5	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 129	Soil	13	0.15	118	0.106	<1	1.85	0.020	0.06	<0.1	0.03	1.3	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 130	Soil	14	0.15	100	0.107	<1	1.87	0.021	0.05	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 131	Soil	13	0.23	162	0.138	<1	2.75	0.025	0.06	<0.1	0.02	1.7	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 132	Soil	13	0.19	141	0.110	<1	2.10	0.024	0.06	<0.1	0.04	1.5	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 133	Soil	14	0.22	202	0.127	<1	2.45	0.023	0.10	<0.1	0.03	1.5	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 134	Soil	18	0.24	149	0.112	<1	1.78	0.019	0.08	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 135	Soil	14	0.17	167	0.115	<1	2.17	0.021	0.07	<0.1	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 136	Soil	17	0.20	165	0.122	<1	2.06	0.021	0.08	<0.1	0.03	1.4	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 137	Soil	15	0.18	115	0.119	<1	1.98	0.022	0.06	<0.1	0.02	1.1	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 138	Soil	15	0.16	139	0.110	1	2.18	0.020	0.10	0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 139	Soil	12	0.10	182	0.116	1	3.03	0.019	0.04	0.1	0.04	1.4	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 140	Soil	9	0.09	57	0.098	<1	1.70	0.023	0.04	<0.1	0.02	1.1	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 141	Soil	29	0.30	156	0.111	<1	2.47	0.024	0.06	<0.1	0.02	2.8	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 142	Soil	40	0.38	156	0.101	1	1.90	0.026	0.11	<0.1	0.03	3.8	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 143	Soil	14	0.18	95	0.093	<1	2.24	0.020	0.04	<0.1	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 144	Soil	13	0.14	70	0.097	<1	2.41	0.022	0.04	0.1	0.04	1.9	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 145	Soil	18	0.20	126	0.104	<1	2.20	0.019	0.09	<0.1	0.03	1.8	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 146	Soil	27	0.27	192	0.112	<1	2.59	0.033	0.09	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 147	Soil	21	0.34	171	0.111	<1	2.53	0.031	0.11	<0.1	0.02	2.8	0.1	<0.05	7	<0.5	<0.2
PM11-MP 148	Soil	5	0.08	76	0.072	2	0.99	0.017	0.05	0.1	0.04	0.6	<0.1	0.05	4	<0.5	<0.2
PM11-MP 149	Soil	12	0.15	113	0.079	1	1.49	0.025	0.04	<0.1	0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 150	Soil	7	0.11	124	0.077	<1	1.46	0.021	0.04	<0.1	0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 151	Soil	7	0.07	66	0.078	<1	1.48	0.016	0.03	0.2	0.02	0.8	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 152	Soil	11	0.10	101	0.083	<1	1.50	0.022	0.05	<0.1	0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 153	Soil	9	0.07	62	0.086	<1	1.61	0.017	0.03	0.1	0.03	0.9	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 154	Soil	14	0.11	87	0.082	<1	1.73	0.015	0.04	<0.1	0.02	1.0	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 155	Soil	21	0.18	178	0.101	<1	3.10	0.017	0.05	<0.1	0.03	1.5	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 156	Soil	19	0.17	177	0.106	<1	3.17	0.018	0.05	<0.1	0.02	1.5	<0.1	<0.05	8	<0.5	<0.2

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 Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

VAN11003341.1

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	
PM11-MP 157	Soil		0.5	8.8	6.8	45	<0.1	23.7	6.2	407	1.67	1.1	6.2	1.1	24	<0.1	<0.1	0.1	33	0.11	0.040	3
PM11-MP 158	Soil		0.3	8.5	7.1	40	<0.1	15.9	5.4	320	1.72	0.7	<0.5	1.0	45	<0.1	<0.1	0.1	43	0.19	0.026	4
PMS-25	Rock Pulp		17.6	68.4	16.9	19	0.2	18.6	2.8	113	4.01	464.8	216.3	0.8	29	0.3	25.7	0.2	12	1.04	0.006	2
PM11-MP 159	Soil		0.3	10.0	5.5	37	<0.1	16.4	6.1	161	1.71	1.0	<0.5	1.0	33	<0.1	<0.1	<0.1	39	0.16	0.027	3
PM11-MP 160	Soil		0.5	10.0	6.7	61	<0.1	23.0	7.7	569	1.89	1.1	<0.5	1.4	34	<0.1	<0.1	0.1	45	0.18	0.034	4
PM11-MP 161	Soil		0.3	23.2	8.0	46	<0.1	60.7	12.7	523	2.71	1.4	0.6	2.3	77	<0.1	0.1	0.1	62	0.35	0.028	8
PM11-MP 162	Soil		0.3	14.8	6.5	40	<0.1	41.4	9.4	461	2.26	0.9	0.7	1.7	75	<0.1	<0.1	0.1	51	0.33	0.018	6
PM11-MP 163	Soil		0.2	14.7	5.3	31	<0.1	34.6	8.8	284	1.94	0.9	<0.5	2.4	78	<0.1	<0.1	0.1	43	0.35	0.022	7
PM11-MP 164	Soil		0.2	10.8	3.9	39	<0.1	19.3	6.5	213	1.58	0.7	<0.5	0.8	56	<0.1	<0.1	<0.1	36	0.26	0.022	3
PM11-MP 165	Soil		0.2	12.4	3.4	36	<0.1	14.1	6.5	292	1.78	0.7	<0.5	1.2	52	<0.1	<0.1	<0.1	47	0.19	0.014	3
PM11-MP 166	Soil		0.3	19.6	5.6	49	<0.1	34.5	11.0	693	2.13	0.9	1.9	1.5	61	0.1	<0.1	0.1	46	0.34	0.028	6
PM11-MP 167	Soil		0.2	11.6	4.6	41	<0.1	20.9	7.6	536	1.76	0.6	<0.5	1.4	50	<0.1	<0.1	<0.1	43	0.25	0.018	4
PM11-MP 168	Soil		0.2	12.7	4.6	35	<0.1	25.6	7.7	119	1.75	0.7	<0.5	0.8	48	<0.1	<0.1	<0.1	39	0.24	0.039	2
PM11-MP 169	Soil		0.3	12.8	5.4	33	<0.1	26.2	7.2	115	1.76	0.6	<0.5	0.8	51	<0.1	<0.1	<0.1	38	0.26	0.040	3
PM11-MP 170	Soil		0.3	11.3	5.9	46	<0.1	22.1	7.4	279	1.81	<0.5	<0.5	1.0	46	<0.1	<0.1	<0.1	42	0.21	0.032	4
PM11-MP 171	Soil		0.3	16.2	5.3	53	<0.1	34.7	8.7	246	1.79	1.0	<0.5	1.3	23	<0.1	<0.1	<0.1	41	0.16	0.101	3
PM11-MP 172	Soil		0.5	12.9	5.0	47	<0.1	27.1	7.3	149	1.62	1.0	0.5	1.3	18	<0.1	<0.1	<0.1	37	0.12	0.110	3
PM11-MP 173	Soil		0.3	11.9	3.9	31	<0.1	21.0	6.0	274	1.53	0.6	0.7	0.8	24	<0.1	<0.1	<0.1	37	0.19	0.104	2
PM11-MP 174	Soil		0.6	7.1	5.2	54	<0.1	12.2	4.6	479	1.30	0.9	<0.5	0.8	16	<0.1	<0.1	0.1	31	0.12	0.099	2
PM11-MP 175	Soil		0.4	11.1	4.6	46	<0.1	31.6	6.8	143	1.51	0.9	<0.5	1.0	19	<0.1	<0.1	<0.1	35	0.17	0.100	3
PM11-MP 176	Soil		0.2	22.5	4.4	29	<0.1	37.5	8.2	130	1.89	0.9	<0.5	1.2	34	<0.1	<0.1	<0.1	52	0.28	0.017	5
PM11-MP 177	Soil		0.6	18.9	7.2	52	<0.1	45.9	10.6	530	2.51	1.0	1.3	1.1	46	<0.1	<0.1	0.1	54	0.35	0.058	3
PM11-MP 178	Soil		0.3	41.2	6.1	37	<0.1	89.0	13.1	209	2.81	1.7	0.9	2.6	64	<0.1	0.1	0.2	66	0.40	0.033	10
PM11-MP 178 D	Soil		0.5	24.4	6.6	42	<0.1	58.9	10.1	174	2.23	1.2	<0.5	1.7	40	<0.1	<0.1	0.2	50	0.29	0.044	4
PM11-MP 179	Soil		0.2	12.2	3.6	32	<0.1	14.8	4.1	133	1.21	0.6	<0.5	0.7	13	<0.1	<0.1	<0.1	32	0.10	0.052	3
PM11-MP 180	Soil		0.4	13.7	4.6	49	<0.1	26.7	8.3	191	1.68	1.3	<0.5	1.3	12	<0.1	<0.1	<0.1	41	0.11	0.117	3
PM11-MP 181	Soil		0.4	13.0	6.2	52	<0.1	36.5	7.7	505	1.85	1.3	<0.5	1.3	20	<0.1	<0.1	0.1	38	0.15	0.098	3
PM11-MP 182	Soil		0.6	12.1	5.9	44	<0.1	36.9	9.3	207	1.97	1.4	<0.5	1.1	23	<0.1	<0.1	0.1	47	0.17	0.097	2
PM11-MP 183	Soil		0.2	6.2	4.1	25	0.1	16.2	4.4	52	1.28	1.3	<0.5	0.5	16	<0.1	<0.1	<0.1	34	0.11	0.085	1
PM11-MP 184	Soil		0.1	6.9	2.8	22	<0.1	9.2	2.3	79	0.74	1.0	<0.5	0.2	16	<0.1	<0.1	<0.1	19	0.15	0.018	2

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Project: PLACER MTN.
 Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

VAN11003341.1

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	
PM11-MP 157	Soil			18	0.17	144	0.099	<1	2.93	0.018	0.05	<0.1	0.02	1.1	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 158	Soil			25	0.17	156	0.091	<1	2.74	0.019	0.04	<0.1	0.01	1.5	<0.1	<0.05	7	<0.5	<0.2
PMS-25	Rock Pulp			25	0.03	1373	0.010	1	0.18	0.006	0.07	2.8	3.12	0.6	11.1	0.22	<1	1.6	<0.2
PM11-MP 159	Soil			22	0.17	159	0.093	<1	2.49	0.018	0.04	<0.1	0.02	1.2	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 160	Soil			29	0.22	155	0.107	<1	2.77	0.018	0.06	<0.1	0.02	1.7	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 161	Soil			58	0.59	140	0.106	<1	3.58	0.016	0.09	<0.1	0.04	5.0	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 162	Soil			42	0.38	131	0.098	<1	2.08	0.033	0.08	<0.1	0.02	3.9	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 163	Soil			38	0.32	133	0.100	1	1.59	0.034	0.12	<0.1	0.02	4.8	0.1	<0.05	4	<0.5	<0.2
PM11-MP 164	Soil			27	0.26	84	0.074	<1	1.28	0.024	0.08	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 165	Soil			29	0.31	78	0.076	<1	1.12	0.024	0.05	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 166	Soil			37	0.45	141	0.082	<1	1.98	0.024	0.11	<0.1	0.02	5.6	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 167	Soil			27	0.29	103	0.081	<1	1.64	0.024	0.08	<0.1	0.02	3.0	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 168	Soil			34	0.29	117	0.083	<1	1.85	0.022	0.09	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 169	Soil			35	0.29	120	0.085	<1	1.87	0.024	0.08	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 170	Soil			27	0.34	80	0.083	<1	2.22	0.018	0.06	<0.1	0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 171	Soil			29	0.24	121	0.089	<1	2.55	0.017	0.06	<0.1	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 172	Soil			22	0.20	115	0.091	<1	2.33	0.016	0.04	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 173	Soil			27	0.23	84	0.070	<1	1.58	0.021	0.04	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 174	Soil			10	0.11	123	0.086	<1	1.40	0.014	0.05	<0.1	0.02	1.0	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 175	Soil			24	0.20	100	0.083	<1	2.05	0.017	0.06	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 176	Soil			45	0.48	152	0.094	<1	1.66	0.027	0.06	<0.1	0.01	3.9	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 177	Soil			54	0.37	118	0.066	<1	3.22	0.012	0.10	<0.1	0.04	5.1	<0.1	<0.05	9	<0.5	<0.2
PM11-MP 178	Soil			73	0.76	204	0.110	<1	3.30	0.023	0.07	<0.1	0.02	7.7	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 178 D	Soil			43	0.45	158	0.107	1	3.13	0.016	0.12	<0.1	<0.01	3.8	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 179	Soil			15	0.16	95	0.068	<1	1.08	0.016	0.04	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 180	Soil			24	0.23	116	0.089	1	2.24	0.017	0.08	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 181	Soil			21	0.19	176	0.090	3	3.31	0.016	0.08	<0.1	0.03	1.9	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 182	Soil			26	0.20	114	0.088	2	2.50	0.017	0.06	<0.1	0.03	1.8	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 183	Soil			17	0.14	68	0.064	2	1.63	0.016	0.04	<0.1	0.02	0.9	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 184	Soil			10	0.13	48	0.039	1	0.64	0.017	0.02	<0.1	0.02	1.0	<0.1	<0.05	3	<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		
				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	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	
PM11-MP 185	Soil			<0.1	11.4	3.3	25	<0.1	13.3	3.2	82	1.16	1.0	<0.5	0.3	21	<0.1	<0.1	<0.1	29	0.18	0.016	2
PM11-MP 186	Soil			0.2	8.9	3.7	63	<0.1	14.3	3.9	68	1.38	0.8	<0.5	0.4	20	<0.1	<0.1	<0.1	35	0.20	0.022	2
PM11-MP 187	Soil			0.6	22.0	5.0	94	<0.1	24.4	7.8	162	2.23	2.3	<0.5	1.4	14	<0.1	<0.1	0.1	65	0.13	0.165	3
PM11-MP 188	Soil			0.5	19.6	4.4	83	<0.1	21.2	8.1	219	2.12	1.6	1.3	1.3	13	<0.1	<0.1	0.1	62	0.14	0.134	3
PM11-MP 189	Soil			0.8	18.8	5.0	96	0.2	25.5	8.4	126	2.19	2.0	<0.5	1.3	9	<0.1	<0.1	0.1	60	0.08	0.153	2
PM11-MP 190	Soil			0.6	32.3	4.5	97	0.2	35.6	12.5	229	2.98	1.9	<0.5	1.4	20	<0.1	<0.1	<0.1	88	0.20	0.090	4
PM11-MP 191	Soil			0.2	23.1	2.8	31	<0.1	23.0	5.0	100	1.89	1.5	3.4	0.6	28	<0.1	<0.1	<0.1	47	0.27	0.014	3
PM11-MP 192	Soil			0.4	84.9	5.0	40	0.5	53.5	9.8	400	2.78	5.2	2.1	1.2	68	0.2	0.2	<0.1	67	0.95	0.041	25
PM11-MP 193	Soil			0.3	42.3	3.3	30	0.2	28.7	7.3	206	1.94	3.2	<0.5	0.9	37	<0.1	0.1	<0.1	55	0.51	0.021	14
PM11-MP 194	Soil			0.1	34.6	3.6	31	0.2	29.5	6.3	220	1.91	2.5	1.0	0.9	39	<0.1	<0.1	<0.1	48	0.44	0.018	9
PM11-MP 195	Soil			0.2	33.6	3.4	29	0.2	28.5	6.1	221	1.81	2.2	0.8	0.9	40	<0.1	<0.1	<0.1	44	0.43	0.017	11
PM11-MP 196	Soil			0.2	22.5	3.7	30	0.1	18.6	5.3	123	1.78	1.8	<0.5	0.9	30	<0.1	<0.1	<0.1	45	0.34	0.016	6
PM11-MP 197	Soil			0.2	22.0	3.6	29	0.1	18.3	5.2	126	1.85	2.0	<0.5	0.9	29	<0.1	<0.1	<0.1	47	0.33	0.015	5
PM11-MP 198	Soil			0.2	17.1	2.0	26	<0.1	24.4	7.3	173	1.70	2.3	<0.5	1.1	24	<0.1	0.1	<0.1	51	0.37	0.051	5
PM11-MP 199	Soil			0.3	25.1	3.1	34	<0.1	32.6	9.1	292	1.84	2.6	0.5	1.3	32	<0.1	0.1	<0.1	53	0.40	0.054	7
PM11-MP 200	Soil			0.2	20.0	3.4	30	<0.1	23.6	6.8	180	1.57	2.3	3.2	1.1	29	<0.1	<0.1	<0.1	42	0.29	0.033	5
PM11-MP 201	Soil			0.3	18.3	3.4	28	<0.1	21.6	6.2	167	1.44	1.6	<0.5	1.0	26	<0.1	<0.1	<0.1	39	0.27	0.029	5
PM11-MP 202	Soil			0.2	12.1	2.8	28	<0.1	14.8	4.5	86	1.17	1.2	<0.5	0.4	16	<0.1	<0.1	<0.1	30	0.20	0.021	3
PMS-28	Rock Pulp			117.1	3884	23.2	62	2.5	37.7	21.7	403	4.28	54.2	483.0	2.0	28	0.3	3.4	0.4	128	0.33	0.097	10
PM11-MP 203	Soil			0.2	16.7	3.3	27	<0.1	18.0	5.4	157	1.37	1.8	<0.5	0.7	29	<0.1	<0.1	<0.1	40	0.27	0.022	5
PM11-MP 204	Soil			0.3	17.0	3.2	25	<0.1	17.8	5.8	147	1.41	1.4	<0.5	0.6	22	<0.1	<0.1	<0.1	38	0.26	0.016	4
PM11-MP 205	Soil			0.2	28.6	4.2	21	<0.1	18.6	5.6	184	1.45	2.5	<0.5	0.7	25	<0.1	<0.1	<0.1	35	0.26	0.013	4
PM11-JF 451	Soil			0.2	41.7	4.9	23	0.1	32.2	7.4	126	1.61	2.5	<0.5	0.3	21	<0.1	<0.1	<0.1	39	0.24	0.012	2
PM11-JF 452	Soil			0.3	25.9	4.1	21	<0.1	31.4	7.0	75	1.58	2.8	<0.5	0.6	10	<0.1	<0.1	0.1	44	0.13	0.065	2



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Report Date: August 05, 2011

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CERTIFICATE OF ANALYSIS

VAN11003341.1

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	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	
PM11-MP 185	Soil	19	0.22	67	0.055	<1	1.20	0.026	0.03	<0.1	0.02	1.4	<0.1	0.06	4	<0.5	<0.2
PM11-MP 186	Soil	18	0.21	96	0.070	2	1.37	0.015	0.05	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 187	Soil	28	0.45	116	0.121	2	2.72	0.013	0.12	0.1	0.03	3.0	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 188	Soil	27	0.42	110	0.113	3	2.28	0.013	0.12	<0.1	0.03	2.8	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 189	Soil	26	0.35	80	0.117	2	2.83	0.015	0.09	0.1	0.04	2.4	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 190	Soil	46	0.76	184	0.147	<1	3.02	0.014	0.27	<0.1	0.03	4.4	0.1	<0.05	9	<0.5	<0.2
PM11-MP 191	Soil	25	0.31	87	0.076	<1	1.72	0.032	0.05	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 192	Soil	67	0.74	229	0.061	3	3.27	0.023	0.11	<0.1	0.07	8.4	<0.1	0.07	8	0.7	<0.2
PM11-MP 193	Soil	48	0.55	128	0.068	1	1.82	0.025	0.07	<0.1	0.04	5.0	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 194	Soil	49	0.58	142	0.069	<1	2.08	0.027	0.07	<0.1	0.03	4.2	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 195	Soil	50	0.57	146	0.064	2	1.94	0.027	0.06	<0.1	0.03	4.1	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 196	Soil	36	0.41	98	0.074	2	1.56	0.031	0.05	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 197	Soil	35	0.38	95	0.080	2	1.56	0.028	0.05	<0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
PM11-MP 198	Soil	60	0.72	81	0.072	1	1.11	0.024	0.08	<0.1	0.02	3.0	<0.1	0.05	3	<0.5	<0.2
PM11-MP 199	Soil	56	0.66	92	0.070	1	1.30	0.023	0.09	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 200	Soil	42	0.54	93	0.075	2	1.44	0.021	0.04	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 201	Soil	40	0.50	90	0.069	1	1.30	0.024	0.04	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 202	Soil	32	0.41	67	0.061	1	1.09	0.021	0.03	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
PMS-28	Rock Pulp	51	0.95	43	0.106	2	1.38	0.040	0.91	4.2	0.08	9.0	0.5	2.24	6	6.4	1.1
PM11-MP 203	Soil	37	0.44	108	0.068	<1	1.40	0.020	0.03	<0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 204	Soil	36	0.40	81	0.070	<1	1.26	0.019	0.04	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 205	Soil	38	0.36	115	0.066	1	1.70	0.024	0.03	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-JF 451	Soil	47	0.47	128	0.077	<1	2.09	0.025	0.06	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-JF 452	Soil	43	0.32	84	0.087	<1	1.86	0.020	0.03	<0.1	0.03	1.5	<0.1	<0.05	7	<0.5	<0.2



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 Report Date: August 05, 2011

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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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																					
PM11-MP 058	Soil	0.4	11.6	4.3	48	<0.1	15.5	7.9	251	2.28	0.6	1.0	1.2	36	<0.1	0.1	0.1	65	0.27	0.093	3
REP PM11-MP 058	QC	0.4	12.6	4.3	47	<0.1	15.2	7.7	253	2.17	<0.5	1.9	1.2	36	<0.1	<0.1	0.1	60	0.26	0.097	3
PM11-MP 070	Soil	0.7	16.2	5.9	43	<0.1	32.0	9.7	322	2.25	0.7	<0.5	1.6	24	<0.1	0.1	0.1	59	0.16	0.045	4
REP PM11-MP 070	QC	0.6	15.2	5.4	39	<0.1	29.6	9.0	304	2.14	<0.5	0.5	1.6	22	<0.1	<0.1	0.1	56	0.14	0.044	3
PM11-MP 082	Soil	0.3	13.3	5.8	43	<0.1	26.1	7.4	198	1.89	0.9	2.6	1.2	34	<0.1	<0.1	0.1	37	0.23	0.050	3
REP PM11-MP 082	QC	0.2	13.8	6.0	43	<0.1	25.6	7.5	201	1.91	1.1	<0.5	1.2	33	0.1	<0.1	0.1	38	0.23	0.053	3
PM11-MP 104	Soil	0.5	15.0	5.7	42	<0.1	36.3	6.6	105	1.82	1.1	<0.5	0.7	26	<0.1	0.1	<0.1	36	0.21	0.090	2
REP PM11-MP 104	QC	0.5	14.3	5.9	40	<0.1	35.9	6.5	105	1.79	1.0	<0.5	0.8	26	<0.1	<0.1	<0.1	35	0.20	0.094	2
PM11-MP 115	Soil	0.2	12.8	3.2	24	<0.1	15.1	5.0	254	1.33	0.7	1.8	0.7	31	<0.1	<0.1	<0.1	32	0.24	0.013	5
REP PM11-MP 115	QC	0.2	12.8	3.2	24	<0.1	15.0	5.1	255	1.32	0.8	<0.5	0.7	31	<0.1	<0.1	<0.1	32	0.24	0.014	5
PM11-MP 139	Soil	0.5	7.7	6.5	33	<0.1	12.7	4.4	127	1.72	1.8	<0.5	1.6	15	<0.1	<0.1	0.2	38	0.10	0.137	3
REP PM11-MP 139	QC	0.5	8.2	6.9	35	<0.1	13.3	4.4	129	1.73	1.7	<0.5	1.6	16	<0.1	<0.1	0.2	39	0.11	0.134	3
PM11-MP 148	Soil	0.8	3.6	5.0	41	<0.1	4.1	3.1	452	0.98	1.2	0.6	0.5	16	<0.1	<0.1	0.1	26	0.12	0.065	2
REP PM11-MP 148	QC	0.7	3.5	5.1	41	<0.1	4.1	2.9	458	0.99	1.1	<0.5	0.5	15	<0.1	<0.1	0.1	25	0.11	0.065	2
PM11-MP 166	Soil	0.3	19.6	5.6	49	<0.1	34.5	11.0	693	2.13	0.9	1.9	1.5	61	0.1	<0.1	0.1	46	0.34	0.028	6
REP PM11-MP 166	QC	0.3	19.6	6.0	50	<0.1	35.1	10.9	666	2.11	0.8	<0.5	1.5	62	0.2	<0.1	0.1	48	0.34	0.028	6
PM11-MP 184	Soil	0.1	6.9	2.8	22	<0.1	9.2	2.3	79	0.74	1.0	<0.5	0.2	16	<0.1	<0.1	<0.1	19	0.15	0.018	2
REP PM11-MP 184	QC	<0.1	7.3	2.8	22	<0.1	9.2	2.3	77	0.73	1.1	<0.5	0.3	16	<0.1	<0.1	<0.1	20	0.15	0.019	2
PM11-MP 200	Soil	0.2	20.0	3.4	30	<0.1	23.6	6.8	180	1.57	2.3	3.2	1.1	29	<0.1	<0.1	<0.1	42	0.29	0.033	5
REP PM11-MP 200	QC	0.2	19.2	3.3	29	<0.1	22.3	6.8	180	1.53	1.9	2.9	1.0	27	<0.1	<0.1	<0.1	40	0.28	0.030	5
Reference Materials																					
STD DS8	Standard	14.0	114.6	130.5	336	1.9	40.4	8.7	648	2.55	27.1	127.8	6.7	64	2.5	5.5	6.6	46	0.71	0.085	14
STD DS8	Standard	13.6	108.8	127.4	314	1.8	39.1	7.9	618	2.43	25.9	114.9	6.5	63	2.3	5.3	6.4	43	0.69	0.084	14
STD DS8	Standard	13.5	110.8	128.7	305	1.8	38.9	7.6	587	2.40	26.0	111.8	6.9	59	2.2	5.5	6.8	44	0.64	0.078	14
STD DS8	Standard	13.9	109.6	118.2	294	1.8	37.4	7.3	580	2.32	25.7	116.5	6.8	62	2.3	5.5	6.6	43	0.66	0.078	14
STD DS8	Standard	13.1	119.9	129.2	321	1.9	41.8	8.4	641	2.57	27.0	109.4	6.8	63	2.5	5.6	6.7	45	0.71	0.080	14
STD DS8	Standard	14.1	118.4	127.5	331	1.8	41.1	8.5	655	2.64	28.5	118.1	6.9	64	2.4	5.5	6.7	48	0.75	0.082	15
STD DS8	Standard	14.1	117.1	130.1	319	1.9	40.2	8.1	634	2.57	26.5	111.3	7.2	65	2.5	5.5	6.7	45	0.72	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	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																	
PM11-MP 058	Soil	19	0.34	143	0.113	<1	2.31	0.018	0.08	<0.1	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
REP PM11-MP 058	QC	19	0.33	146	0.108	<1	2.33	0.018	0.08	<0.1	0.03	2.1	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 070	Soil	37	0.29	97	0.101	1	2.67	0.019	0.08	<0.1	0.03	3.0	<0.1	<0.05	8	<0.5	<0.2
REP PM11-MP 070	QC	33	0.28	93	0.092	<1	2.47	0.017	0.08	<0.1	0.03	2.7	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 082	Soil	31	0.31	104	0.093	2	2.73	0.018	0.09	<0.1	0.03	2.2	<0.1	<0.05	7	<0.5	<0.2
REP PM11-MP 082	QC	32	0.32	102	0.095	1	2.79	0.019	0.09	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
PM11-MP 104	Soil	29	0.25	129	0.081	<1	2.51	0.019	0.06	<0.1	0.05	2.5	<0.1	<0.05	8	<0.5	<0.2
REP PM11-MP 104	QC	28	0.26	128	0.079	<1	2.52	0.019	0.06	<0.1	0.05	2.5	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 115	Soil	32	0.39	97	0.076	<1	1.27	0.024	0.05	<0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
REP PM11-MP 115	QC	32	0.38	98	0.079	<1	1.25	0.024	0.05	<0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 139	Soil	12	0.10	182	0.116	1	3.03	0.019	0.04	0.1	0.04	1.4	<0.1	<0.05	8	<0.5	<0.2
REP PM11-MP 139	QC	13	0.10	186	0.118	1	3.06	0.020	0.05	0.1	0.05	1.5	<0.1	<0.05	8	<0.5	<0.2
PM11-MP 148	Soil	5	0.08	76	0.072	2	0.99	0.017	0.05	0.1	0.04	0.6	<0.1	0.05	4	<0.5	<0.2
REP PM11-MP 148	QC	5	0.08	77	0.068	2	0.96	0.014	0.06	0.1	0.04	0.5	<0.1	<0.05	4	<0.5	<0.2
PM11-MP 166	Soil	37	0.45	141	0.082	<1	1.98	0.024	0.11	<0.1	0.02	5.6	<0.1	<0.05	5	<0.5	<0.2
REP PM11-MP 166	QC	37	0.45	138	0.082	1	1.95	0.024	0.11	<0.1	0.02	5.7	<0.1	<0.05	6	<0.5	<0.2
PM11-MP 184	Soil	10	0.13	48	0.039	1	0.64	0.017	0.02	<0.1	0.02	1.0	<0.1	<0.05	3	<0.5	<0.2
REP PM11-MP 184	QC	11	0.13	49	0.041	1	0.64	0.018	0.02	<0.1	0.02	1.0	<0.1	<0.05	3	<0.5	<0.2
PM11-MP 200	Soil	42	0.54	93	0.075	2	1.44	0.021	0.04	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
REP PM11-MP 200	QC	40	0.49	92	0.071	1	1.31	0.022	0.04	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	121	0.63	287	0.114	3	1.00	0.095	0.42	3.0	0.23	2.0	5.4	0.21	5	5.3	5.0
STD DS8	Standard	115	0.63	249	0.110	3	0.95	0.090	0.41	3.2	0.22	1.8	5.5	0.20	5	5.8	4.9
STD DS8	Standard	120	0.61	269	0.115	2	0.86	0.082	0.39	2.9	0.20	2.0	5.4	0.18	5	5.1	5.0
STD DS8	Standard	117	0.58	263	0.117	3	0.85	0.082	0.40	2.9	0.19	2.1	5.3	0.17	4	4.7	5.1
STD DS8	Standard	124	0.64	273	0.115	3	0.94	0.086	0.43	3.1	0.21	2.2	5.5	0.22	5	5.7	5.4
STD DS8	Standard	130	0.65	273	0.126	2	0.98	0.090	0.43	3.1	0.20	2.3	5.4	0.23	5	6.1	5.6
STD DS8	Standard	123	0.63	274	0.116	2	0.96	0.088	0.43	3.0	0.21	2.4	5.5	0.18	5	5.6	5.1

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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 2446 Bidston Road
 Bill Bay BC V0R 2P4 Canada

Project: PLACER MTN.
Report Date: August 05, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

VAN11003341.1

		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	14.5	113.2	132.9	312	1.8	39.2	8.0	648	2.60	27.3	112.3	7.3	68	2.4	5.6	6.7	46	0.73	0.078	16
STD DS8	Standard	12.7	104.4	113.7	314	1.8	36.1	7.1	627	2.51	27.3	113.8	6.4	64	2.5	5.5	6.2	42	0.69	0.081	15
STD DS8	Standard	13.7	106.6	117.7	332	1.9	40.1	7.5	644	2.58	27.9	118.9	6.4	69	2.6	5.5	6.4	42	0.74	0.082	16
STD DS8	Standard	13.0	108.4	122.4	309	1.8	36.6	7.6	606	2.45	26.7	99.2	7.0	67	2.2	5.3	7.0	41	0.67	0.080	15
STD DS8	Standard	13.4	108.7	123.8	314	1.8	37.9	7.6	629	2.50	27.3	117.1	7.3	71	2.6	5.8	7.1	41	0.71	0.081	16
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: PLACER MTN.

Report Date: August 05, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

VAN11003341.1

		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	125	0.64	286	0.124	2	0.96	0.093	0.42	3.2	0.21	2.3	5.7	0.19	5	5.3	5.5
STD DS8	Standard	112	0.62	294	0.113	2	0.95	0.092	0.42	3.0	0.20	2.3	5.3	0.16	5	4.6	5.6
STD DS8	Standard	117	0.65	297	0.121	3	0.99	0.098	0.45	3.2	0.23	2.6	5.6	0.16	5	5.8	5.7
STD DS8	Standard	116	0.61	281	0.115	2	0.89	0.086	0.40	3.1	0.20	2.1	5.4	0.15	5	5.1	5.2
STD DS8	Standard	116	0.63	299	0.122	2	0.94	0.093	0.43	3.2	0.19	2.3	5.6	0.16	5	5.3	4.9
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: July 18, 2011

Report Date: July 28, 2011

Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN11003343.1

CLIENT JOB INFORMATION

Project: PLACER MTN.
Shipment ID: #3
P.O. Number
Number of Samples: 3

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
Bill 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	3	Dry at 60C			VAN
SS80	3	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	3	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: PLACER MTN.
Report Date: July 28, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN11003343.1

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		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
PM11GWS01	Silt	0.1	10.2	3.8	25	<0.1	12.2	4.4	279	1.32	<0.5	2.5	1.0	98	<0.1	0.1	<0.1	39	0.61	0.065	10
PM11GWS02	Silt	0.5	28.4	4.8	30	0.1	24.5	8.9	443	2.28	<0.5	0.9	1.6	68	0.1	<0.1	<0.1	62	0.59	0.040	14
PM11SB01	Silt	2.0	32.3	8.4	63	0.2	31.0	11.0	1284	2.61	8.2	3.0	2.0	98	0.3	0.2	0.2	71	0.75	0.065	20



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Project: PLACER MTN.
Report Date: July 28, 2011

Page: 2 of 2 **Part** 2

CERTIFICATE OF ANALYSIS

VAN11003343.1

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	
PM11GWS01	Silt	34	0.34	112	0.072	3	1.23	0.028	0.07	<0.1	0.04	2.1	<0.1	<0.05	4	<0.5	<0.2
PM11GWS02	Silt	36	0.52	155	0.118	2	1.97	0.032	0.08	<0.1	0.03	4.1	<0.1	<0.05	6	<0.5	<0.2
PM11SB01	Silt	53	0.59	255	0.107	1	2.25	0.022	0.17	<0.1	0.04	6.4	0.1	<0.05	6	1.8	<0.2



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Project: PLACER MTN.

Report Date: July 28, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN11003343.1

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	13.7	106.0	137.5	320	1.8	38.3	7.4	621	2.52	25.8	121.1	6.9	78	2.1	6.1	7.2	41	0.70	0.077	15
STD DS8	Standard	13.5	108.0	127.0	312	1.8	39.0	8.1	641	2.52	25.6	124.2	6.8	77	2.1	6.6	7.7	42	0.72	0.078	15
STD DS8	Standard	13.3	113.7	131.3	310	1.8	38.6	7.7	619	2.50	25.9	111.8	7.0	69	2.5	5.7	7.2	42	0.68	0.077	14
STD DS8	Standard	13.5	114.5	131.6	317	1.8	38.6	7.5	631	2.55	27.7	115.6	6.9	70	2.3	5.7	7.0	44	0.73	0.081	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



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Project: PLACER MTN.

Report Date: July 28, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN11003343.1

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	117	0.65	279	0.134	3	0.93	0.101	0.44	3.1	0.22	2.0	5.5	0.14	5	5.9	4.9
STD DS8	Standard	122	0.64	290	0.136	2	0.94	0.099	0.45	3.1	0.23	2.1	5.7	0.17	5	4.9	5.3
STD DS8	Standard	116	0.63	290	0.118	3	0.96	0.099	0.42	2.9	0.24	2.7	5.5	0.12	5	6.6	4.4
STD DS8	Standard	120	0.62	294	0.123	3	0.94	0.107	0.44	2.9	0.21	2.7	5.6	0.15	5	6.5	4.9
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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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: July 25, 2011
Report Date: August 13, 2011
Page: 1 of 9

CERTIFICATE OF ANALYSIS

VAN11003406.1

CLIENT JOB INFORMATION

Project: PLACER MTN.
Shipment ID: Shipment #5
P.O. Number
Number of Samples: 238

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
Bill 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 (233), SS80 (233), 1DX2 (235) 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: PLACER MTN.
 Report Date: August 13, 2011

Page: 2 of 9 Part 1

CERTIFICATE OF ANALYSIS

VAN11003406.1

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
PM11-JC291	Soil			0.1	7.7	5.5	20	<0.1	9.9	2.5	59	0.93	<0.5	0.6	0.1	16	<0.1	<0.1	0.1	21	0.12	0.016	2	
PM11-JC292	Soil			0.2	12.1	4.9	19	<0.1	11.0	2.2	49	0.97	0.9	<0.5	0.3	22	<0.1	<0.1	0.1	19	0.14	0.017	2	
PM11-JC293	Soil			0.1	11.6	4.8	20	<0.1	10.8	2.1	45	0.99	0.9	<0.5	0.3	21	<0.1	<0.1	0.1	19	0.12	0.017	2	
PM11-JC294	Soil			0.1	10.4	3.5	19	<0.1	9.4	2.6	72	0.97	0.9	<0.5	0.2	22	<0.1	<0.1	<0.1	21	0.13	0.019	2	
PM11-JC295	Soil			0.4	32.8	5.3	40	<0.1	22.4	8.5	477	2.05	3.7	<0.5	0.5	47	0.2	<0.1	0.1	55	0.28	0.058	12	
PM11-JC296	Soil			0.3	19.4	3.9	24	<0.1	17.0	3.5	100	1.37	1.3	<0.5	0.5	45	<0.1	<0.1	0.1	28	0.28	0.025	6	
PM11-JC297	Soil			0.2	17.9	4.0	34	<0.1	16.0	4.2	100	1.48	1.2	<0.5	0.6	32	<0.1	<0.1	0.1	32	0.21	0.029	4	
PM11-JC298	Soil			0.3	14.2	4.5	29	<0.1	13.6	4.2	85	1.23	1.5	0.9	0.5	24	<0.1	<0.1	0.1	31	0.16	0.021	3	
PM11-JC299	Soil			0.2	19.6	6.9	22	<0.1	16.4	4.4	74	1.49	0.7	<0.5	2.1	57	<0.1	<0.1	0.1	33	0.25	0.019	11	
PM11-JC300	Soil			0.1	19.9	6.9	21	<0.1	15.0	4.2	77	1.38	<0.5	<0.5	2.0	62	<0.1	<0.1	0.1	32	0.30	0.017	11	
PM11-JC301	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.	
PM11-JC302	Soil			0.2	24.1	3.9	41	<0.1	28.1	10.3	433	2.30	1.0	9.1	2.8	103	<0.1	<0.1	<0.1	79	0.55	0.103	15	
PM11-JC303	Soil			0.1	12.4	5.6	26	<0.1	11.3	5.3	159	1.81	0.7	1.2	1.4	50	<0.1	<0.1	0.1	46	0.29	0.023	5	
PM11-JC304	Soil			0.2	11.6	7.0	25	<0.1	13.7	5.1	68	1.61	1.5	<0.5	1.4	34	<0.1	<0.1	0.1	38	0.18	0.154	4	
PM11-JC305	Soil			0.8	9.0	6.7	25	<0.1	9.2	4.7	89	1.69	1.4	0.5	1.6	17	<0.1	<0.1	0.1	43	0.09	0.202	3	
PMS-30	Rock Pulp			133.4	4214	25.3	68	2.7	43.3	23.5	457	4.88	61.5	470.5	2.3	33	0.2	4.2	0.5	144	0.35	0.103	11	
PM11-JC306	Soil			0.4	12.0	4.8	24	<0.1	10.9	5.4	75	1.66	1.1	<0.5	1.5	24	<0.1	<0.1	0.1	44	0.12	0.185	4	
PM11-JC307	Soil			0.2	27.6	6.6	27	<0.1	24.8	6.2	239	1.65	1.6	1.1	2.2	105	<0.1	0.1	0.1	40	0.56	0.043	21	
PM11-JC308	Soil			0.1	14.6	5.8	18	<0.1	11.9	4.2	88	1.32	0.6	6.4	1.0	51	<0.1	<0.1	0.1	31	0.25	0.020	5	
PM11-JC309	Soil			0.2	19.8	6.1	21	<0.1	14.8	5.5	190	1.40	1.1	0.9	1.4	69	<0.1	<0.1	0.1	37	0.34	0.031	14	
PM11-JC310	Soil			0.2	15.8	5.2	23	<0.1	15.4	5.4	196	1.50	0.9	0.6	1.2	70	<0.1	<0.1	0.1	40	0.36	0.034	13	
PM11-JC311	Soil			0.2	11.0	5.0	23	<0.1	9.0	4.5	101	1.41	<0.5	<0.5	1.1	51	<0.1	<0.1	0.1	36	0.24	0.017	5	
PM11-JC312	Soil			0.2	9.7	4.1	21	<0.1	8.2	4.3	108	1.29	<0.5	3.0	1.3	50	<0.1	<0.1	<0.1	34	0.20	0.044	4	
PM11-JC313	Soil			0.3	10.6	4.2	23	<0.1	8.9	4.8	118	1.43	0.5	1.1	1.3	55	<0.1	<0.1	<0.1	37	0.23	0.039	4	
PM11-JC314	Soil			0.2	9.2	4.5	21	<0.1	8.4	4.0	115	1.32	0.5	4.2	1.1	52	<0.1	<0.1	<0.1	33	0.27	0.018	5	
PM11-JC315	Soil			0.3	13.8	5.0	26	<0.1	11.9	6.4	335	1.57	1.1	0.6	1.1	70	0.1	<0.1	<0.1	48	0.41	0.038	10	
PM11-JC316	Soil			0.4	11.2	6.1	24	<0.1	10.1	3.9	92	1.28	0.6	<0.5	0.8	56	<0.1	<0.1	<0.1	35	0.28	0.029	5	
PM11-JC317	Soil			0.4	14.0	6.2	24	<0.1	11.9	6.0	460	1.52	1.4	1.0	1.1	89	0.1	<0.1	0.1	51	0.58	0.028	11	
PM11-JC318	Soil			1.0	31.0	6.5	57	0.2	18.6	11.0	635	2.90	4.4	<0.5	1.8	52	0.2	0.2	<0.1	86	0.64	0.057	11	
PM11-JC319	Soil			0.3	13.1	6.6	37	0.2	13.2	4.7	94	1.48	1.1	<0.5	1.5	20	0.1	<0.1	0.1	36	0.14	0.025	3	

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Project: PLACER MTN.
Report Date: August 13, 2011

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CERTIFICATE OF ANALYSIS

VAN11003406.1

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
PM11-JC291	Soil	17	0.17	41	0.050	1	0.95	0.024	0.03	<0.1	0.02	0.6	<0.1	<0.05	4	<0.5	<0.2
PM11-JC292	Soil	16	0.19	72	0.057	1	1.32	0.032	0.03	<0.1	0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
PM11-JC293	Soil	16	0.18	73	0.067	1	1.42	0.031	0.03	<0.1	0.02	1.0	<0.1	<0.05	4	<0.5	<0.2
PM11-JC294	Soil	15	0.17	61	0.055	<1	1.10	0.030	0.03	<0.1	0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
PM11-JC295	Soil	39	0.38	150	0.066	1	2.23	0.031	0.04	<0.1	0.03	2.7	<0.1	<0.05	6	<0.5	<0.2
PM11-JC296	Soil	32	0.36	146	0.066	1	1.97	0.037	0.04	<0.1	0.03	2.2	<0.1	<0.05	6	<0.5	<0.2
PM11-JC297	Soil	37	0.43	109	0.076	1	1.70	0.029	0.04	<0.1	0.02	2.1	<0.1	<0.05	5	0.6	<0.2
PM11-JC298	Soil	25	0.33	87	0.086	<1	1.36	0.023	0.03	<0.1	0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11-JC299	Soil	53	0.37	76	0.113	<1	1.95	0.036	0.12	<0.1	0.01	4.7	<0.1	<0.05	5	<0.5	<0.2
PM11-JC300	Soil	50	0.34	81	0.108	2	1.79	0.037	0.09	<0.1	0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
PM11-JC301	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.
PM11-JC302	Soil	41	0.65	238	0.128	2	1.18	0.043	0.15	<0.1	<0.01	3.9	<0.1	<0.05	4	0.6	<0.2
PM11-JC303	Soil	19	0.43	163	0.156	1	1.95	0.037	0.15	<0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JC304	Soil	22	0.23	123	0.134	1	2.62	0.026	0.06	<0.1	0.03	1.7	<0.1	<0.05	8	<0.5	<0.2
PM11-JC305	Soil	14	0.20	69	0.131	1	2.20	0.016	0.06	<0.1	0.05	1.4	<0.1	<0.05	7	<0.5	<0.2
PMS-30	Rock Pulp	61	1.02	51	0.140	1	1.50	0.043	1.01	4.4	0.07	10.7	0.5	2.26	6	7.0	0.9
PM11-JC306	Soil	16	0.18	96	0.120	<1	2.07	0.024	0.04	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-JC307	Soil	65	0.51	119	0.112	2	2.08	0.032	0.15	<0.1	0.02	7.2	<0.1	<0.05	5	<0.5	<0.2
PM11-JC308	Soil	25	0.35	93	0.121	<1	1.46	0.037	0.08	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JC309	Soil	38	0.39	97	0.109	<1	1.64	0.037	0.08	<0.1	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
PM11-JC310	Soil	25	0.37	152	0.104	<1	1.80	0.030	0.08	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JC311	Soil	18	0.36	116	0.142	<1	1.44	0.036	0.07	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JC312	Soil	16	0.33	100	0.118	1	1.16	0.026	0.06	<0.1	0.03	1.6	<0.1	<0.05	4	<0.5	<0.2
PM11-JC313	Soil	18	0.39	101	0.127	2	1.22	0.028	0.07	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JC314	Soil	19	0.33	87	0.113	<1	1.30	0.030	0.08	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JC315	Soil	22	0.40	107	0.103	1	1.41	0.027	0.09	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
PM11-JC316	Soil	20	0.35	108	0.103	1	1.27	0.025	0.07	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11-JC317	Soil	29	0.41	132	0.105	<1	1.73	0.039	0.08	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
PM11-JC318	Soil	25	0.61	283	0.136	1	2.65	0.027	0.15	<0.1	0.03	4.0	0.2	<0.05	7	<0.5	<0.2
PM11-JC319	Soil	11	0.26	137	0.137	<1	1.93	0.032	0.05	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2

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Project: PLACER MTN.
 Report Date: August 13, 2011

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CERTIFICATE OF ANALYSIS

VAN11003406.1

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	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
PM11-JC320	Soil		0.3	10.8	5.2	25	0.1	7.1	5.0	122	1.39	0.9	<0.5	0.9	26	<0.1	<0.1	<0.1	41	0.24	0.029	5	
PM11-JC321	Soil		0.6	7.7	4.0	19	<0.1	5.5	3.1	72	1.27	0.6	3.1	0.6	16	<0.1	<0.1	<0.1	46	0.17	0.030	3	
PM11-JC322	Soil		0.6	4.4	4.6	14	<0.1	3.4	2.0	51	0.85	0.5	<0.5	0.7	8	<0.1	<0.1	0.1	30	0.07	0.037	2	
PM11-JC323	Soil		1.2	15.5	4.0	30	<0.1	11.2	7.0	136	2.19	1.7	0.9	1.5	18	<0.1	<0.1	<0.1	70	0.19	0.088	5	
PM11-JC324	Soil		1.3	16.4	4.7	28	<0.1	12.1	5.1	113	1.64	1.0	1.2	1.3	20	<0.1	0.1	0.1	54	0.22	0.045	6	
PM11-JC325	Soil		0.6	12.7	4.3	32	<0.1	10.7	4.6	118	1.42	<0.5	<0.5	1.0	29	<0.1	<0.1	0.1	43	0.34	0.035	7	
PM11-JC326	Soil		1.1	16.3	5.0	25	0.2	7.9	3.1	62	1.29	<0.5	0.8	0.7	22	0.2	<0.1	0.1	39	0.26	0.048	5	
PM11-JC327	Soil		1.4	21.1	5.3	44	0.2	17.1	6.4	180	2.12	0.7	0.7	1.1	39	<0.1	<0.1	0.1	58	0.62	0.025	8	
PM11-JC328	Soil		1.0	20.4	4.9	37	0.3	14.6	5.7	112	1.78	1.2	<0.5	0.9	20	<0.1	<0.1	<0.1	54	0.19	0.026	8	
PM11-JC329	Soil		0.9	17.2	5.7	38	0.2	21.6	6.6	96	1.64	2.1	<0.5	1.0	23	0.1	<0.1	0.1	45	0.14	0.043	4	
PM11-JC330	Soil		0.4	11.0	4.9	24	0.1	13.0	3.3	58	1.04	0.8	<0.5	0.4	20	<0.1	<0.1	<0.1	31	0.17	0.016	3	
PM11-JC331	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.	
PM11-JC332	Soil		1.6	6.1	6.5	23	<0.1	7.1	2.6	40	1.89	1.4	<0.5	1.6	7	<0.1	<0.1	0.1	42	0.06	0.322	2	
PM11-JC333	Soil		2.3	18.8	4.1	24	0.1	20.6	5.7	159	1.66	1.2	1.1	1.2	30	<0.1	<0.1	<0.1	47	0.36	0.027	5	
PM11-JC334	Soil		1.0	15.6	4.5	27	<0.1	15.2	6.4	112	1.85	1.4	0.7	1.5	44	<0.1	<0.1	<0.1	54	0.41	0.045	4	
PM11-JC335	Soil		0.4	14.7	4.5	40	<0.1	19.6	7.7	85	1.99	0.6	<0.5	1.2	31	<0.1	<0.1	<0.1	55	0.18	0.175	4	
PM11-JC336	Soil		0.3	16.7	3.7	43	<0.1	16.2	7.3	160	2.43	0.8	2.1	2.5	41	<0.1	0.1	<0.1	80	0.27	0.085	6	
PM11-JC337	Soil		0.4	16.8	3.7	45	<0.1	16.9	7.3	155	2.29	0.8	<0.5	2.7	41	<0.1	<0.1	<0.1	74	0.28	0.089	6	
PM11-JC338	Soil		0.2	56.8	6.1	53	0.5	32.5	5.5	218	2.20	2.3	1.5	1.6	90	0.2	0.2	0.1	50	0.75	0.044	42	
PM11-JC339	Soil		0.3	95.9	8.6	98	0.7	69.2	9.5	738	3.48	2.7	2.2	1.7	178	0.4	0.2	0.1	68	1.31	0.088	42	
PM11-JC340	Soil		0.3	76.0	6.2	51	0.6	38.6	6.4	277	2.42	2.5	2.7	1.5	120	0.2	0.5	0.1	60	1.09	0.051	78	
PM11-JC341	Soil		0.2	18.2	4.9	57	0.2	21.3	6.7	117	1.94	0.8	2.1	1.5	33	<0.1	<0.1	0.1	43	0.20	0.123	7	
PM11-JC342	Soil		0.2	16.7	5.1	53	0.1	19.5	6.4	130	1.81	2.0	1.8	1.5	27	<0.1	<0.1	0.1	40	0.16	0.181	6	
PM11-JC343	Soil		0.2	45.6	5.0	41	0.3	31.9	6.1	351	2.20	2.4	<0.5	1.1	120	0.2	0.2	0.1	58	0.97	0.062	22	
PM11-JC344	Soil		0.5	18.5	5.7	69	0.1	35.0	7.7	221	1.93	1.5	1.1	1.6	35	<0.1	<0.1	<0.1	49	0.20	0.138	6	
PM11-JC345	Soil		0.3	9.7	3.7	44	<0.1	16.9	4.2	196	1.34	<0.5	2.8	0.7	28	<0.1	<0.1	<0.1	37	0.16	0.026	3	
PM11-JC346	Soil		0.4	9.8	4.6	70	<0.1	17.3	5.0	367	1.40	0.5	2.1	0.8	22	<0.1	<0.1	<0.1	35	0.15	0.084	2	
PM11-JC347	Soil		0.2	7.5	5.0	54	<0.1	18.1	4.5	202	1.39	<0.5	<0.5	0.8	24	<0.1	<0.1	<0.1	33	0.20	0.053	2	
PM11-JC348	Soil		0.3	16.6	5.7	48	<0.1	21.8	6.0	299	1.63	<0.5	1.1	1.8	40	<0.1	0.1	0.1	40	0.28	0.024	10	
PM11-JC349	Soil		0.2	10.9	3.4	27	<0.1	18.1	4.6	103	1.42	<0.5	1.8	0.8	26	<0.1	<0.1	<0.1	38	0.16	0.023	3	

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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
PM11-JC320	Soil	12	0.32	86	0.113	<1	1.38	0.029	0.04	<0.1	0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JC321	Soil	12	0.19	70	0.099	<1	0.82	0.016	0.03	<0.1	0.02	1.1	<0.1	<0.05	5	<0.5	<0.2
PM11-JC322	Soil	7	0.11	42	0.076	1	0.54	0.016	0.02	<0.1	<0.01	0.7	<0.1	<0.05	4	<0.5	<0.2
PM11-JC323	Soil	16	0.40	82	0.135	<1	1.55	0.020	0.07	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-JC324	Soil	19	0.35	90	0.129	<1	1.35	0.021	0.06	<0.1	0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11-JC325	Soil	16	0.31	146	0.088	<1	1.42	0.019	0.05	<0.1	0.03	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11-JC326	Soil	11	0.15	141	0.074	3	1.20	0.013	0.05	<0.1	0.05	1.6	<0.1	<0.05	5	0.7	<0.2
PM11-JC327	Soil	21	0.38	234	0.112	1	1.83	0.020	0.12	<0.1	0.02	2.6	<0.1	<0.05	6	0.7	<0.2
PM11-JC328	Soil	18	0.32	141	0.109	<1	1.55	0.016	0.07	<0.1	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2
PM11-JC329	Soil	18	0.25	182	0.098	<1	1.85	0.018	0.06	<0.1	0.02	1.8	<0.1	<0.05	7	<0.5	<0.2
PM11-JC330	Soil	14	0.17	159	0.083	<1	0.91	0.021	0.04	<0.1	0.02	1.1	<0.1	<0.05	4	<0.5	<0.2
PM11-JC331	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.
PM11-JC332	Soil	12	0.07	54	0.109	<1	2.75	0.012	0.03	0.1	0.04	1.4	<0.1	<0.05	10	<0.5	<0.2
PM11-JC333	Soil	18	0.29	191	0.090	1	1.72	0.021	0.05	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-JC334	Soil	20	0.35	136	0.105	<1	1.49	0.020	0.05	<0.1	0.03	2.2	<0.1	<0.05	6	0.6	<0.2
PM11-JC335	Soil	27	0.41	113	0.074	<1	2.25	0.020	0.05	<0.1	0.03	2.6	<0.1	<0.05	6	<0.5	<0.2
PM11-JC336	Soil	22	0.35	168	0.098	<1	1.76	0.018	0.11	0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JC337	Soil	22	0.35	166	0.095	<1	1.87	0.020	0.11	0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
PM11-JC338	Soil	50	0.58	166	0.077	2	2.52	0.032	0.09	<0.1	0.06	6.6	<0.1	<0.05	7	<0.5	<0.2
PM11-JC339	Soil	66	0.90	387	0.074	3	4.44	0.034	0.16	<0.1	0.06	10.3	<0.1	<0.05	10	<0.5	<0.2
PM11-JC340	Soil	56	0.67	191	0.079	<1	2.64	0.028	0.10	<0.1	0.09	7.0	<0.1	<0.05	7	1.4	<0.2
PM11-JC341	Soil	36	0.33	157	0.082	<1	2.39	0.022	0.06	<0.1	0.02	3.2	<0.1	<0.05	7	<0.5	<0.2
PM11-JC342	Soil	27	0.24	141	0.082	<1	2.41	0.022	0.05	<0.1	0.03	2.7	<0.1	<0.05	7	<0.5	<0.2
PM11-JC343	Soil	44	0.50	154	0.081	1	2.23	0.033	0.08	<0.1	0.06	4.5	<0.1	<0.05	6	1.0	<0.2
PM11-JC344	Soil	43	0.37	150	0.096	1	2.18	0.023	0.10	<0.1	0.03	3.1	<0.1	<0.05	6	<0.5	<0.2
PM11-JC345	Soil	33	0.23	92	0.069	<1	0.96	0.027	0.06	<0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
PM11-JC346	Soil	20	0.18	114	0.081	<1	1.53	0.020	0.09	<0.1	0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JC347	Soil	22	0.20	117	0.080	2	1.71	0.021	0.11	<0.1	<0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JC348	Soil	50	0.32	129	0.084	2	1.42	0.023	0.10	<0.1	0.03	3.3	<0.1	<0.05	4	0.7	<0.2
PM11-JC349	Soil	37	0.24	89	0.073	<1	1.13	0.019	0.05	<0.1	<0.01	1.5	<0.1	<0.05	3	<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	%	%	%	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	
PM11-JC350	Soil	0.3	21.0	3.4	38	0.1	27.1	6.7	374	1.97	1.0	1.5	1.0	35	<0.1	0.1	<0.1	55	0.27	0.019	8
PMS-35	Rock Pulp	18.4	65.8	18.6	18	0.2	18.3	2.6	113	3.82	469.8	233.5	0.8	30	0.3	28.4	0.1	12	1.05	0.006	2
PM11-JC351	Soil	0.1	10.7	3.2	26	<0.1	18.8	3.9	85	1.23	0.9	1.4	0.8	24	<0.1	<0.1	<0.1	37	0.15	0.016	5
PM11-JC352	Soil	0.1	10.5	2.5	24	<0.1	15.3	3.8	118	1.19	<0.5	<0.5	0.7	26	<0.1	<0.1	<0.1	33	0.18	0.009	5
PM11-JC353	Soil	0.2	9.2	4.1	31	<0.1	20.8	4.5	95	1.34	<0.5	<0.5	0.9	22	<0.1	<0.1	<0.1	34	0.14	0.069	3
PM11-JC354	Soil	0.2	9.9	3.3	31	<0.1	21.7	5.5	123	1.53	<0.5	<0.5	1.0	26	<0.1	<0.1	<0.1	40	0.15	0.053	4
PM11-JC355	Soil	0.2	8.7	3.9	35	<0.1	21.5	5.1	192	1.28	<0.5	<0.5	1.1	23	<0.1	<0.1	<0.1	33	0.13	0.055	4
PM11-JC356	Soil	0.3	11.7	3.7	35	<0.1	24.4	5.6	198	1.56	<0.5	<0.5	1.3	27	<0.1	<0.1	<0.1	43	0.19	0.053	5
PM11-JC357	Soil	0.1	7.1	4.7	29	<0.1	15.4	2.6	193	0.88	<0.5	<0.5	0.6	22	<0.1	<0.1	<0.1	22	0.13	0.020	3
PM11-JC358	Soil	0.4	11.4	4.3	39	<0.1	31.4	6.0	107	1.57	0.7	<0.5	1.3	25	<0.1	<0.1	<0.1	38	0.15	0.152	5
PM11-JC359	Soil	0.3	6.9	4.3	36	<0.1	18.0	4.4	59	1.51	4.5	1.6	1.1	19	<0.1	<0.1	0.2	34	0.12	0.295	3
PM11-JC360	Soil	<0.1	10.0	3.0	30	<0.1	14.6	3.7	139	1.40	4.4	<0.5	0.7	26	<0.1	<0.1	0.1	38	0.19	0.013	4
PM11-JC361	Soil	0.2	11.5	4.7	39	<0.1	19.6	3.9	153	1.47	3.5	<0.5	0.9	27	<0.1	<0.1	0.1	41	0.18	0.019	5
PM11-JC362	Soil	0.1	6.7	3.6	24	<0.1	10.9	2.5	55	0.74	3.8	<0.5	0.4	17	<0.1	<0.1	0.1	25	0.11	0.016	4
PM11-JC363	Soil	<0.1	10.7	3.1	26	<0.1	15.5	3.4	153	0.89	4.2	1.0	0.7	27	<0.1	<0.1	0.1	27	0.19	0.015	7
PM11-JC364	Soil	0.5	16.9	3.9	37	<0.1	31.6	6.7	96	1.87	4.3	<0.5	1.2	18	<0.1	<0.1	0.1	46	0.13	0.111	5
PM11-JC365	Soil	<0.1	13.1	4.3	41	<0.1	21.9	4.0	102	1.41	3.4	1.0	0.9	33	<0.1	<0.1	0.1	31	0.18	0.090	5
PM11-JC366	Soil	0.3	12.9	4.5	64	<0.1	31.0	5.6	115	1.56	4.2	<0.5	1.1	25	<0.1	<0.1	0.2	30	0.16	0.156	4
PM11-JC367	Soil	0.2	20.4	4.6	37	<0.1	24.8	5.8	163	1.73	3.7	0.7	2.0	32	<0.1	<0.1	0.1	51	0.22	0.032	10
PM11-JC368	Soil	0.4	19.5	6.5	77	<0.1	32.6	8.1	1153	1.77	3.6	<0.5	1.2	35	<0.1	<0.1	0.1	43	0.20	0.079	10
PM11-JC369	Soil	0.5	18.4	4.8	60	<0.1	38.7	7.4	315	1.77	3.2	0.5	1.3	21	<0.1	<0.1	0.1	41	0.14	0.135	5
PM11-JC370	Soil	0.1	9.8	5.6	24	<0.1	14.8	4.1	71	1.01	2.3	0.9	0.7	48	<0.1	<0.1	0.1	28	0.22	0.030	6
PM11-JC371	Soil	0.4	14.1	6.6	25	0.1	9.2	1.2	136	0.37	8.3	<0.5	0.2	266	0.3	0.2	0.3	25	1.49	0.082	15
PM11-JC372	Soil	0.1	12.4	5.4	26	<0.1	17.2	3.7	113	1.34	3.8	<0.5	0.9	59	<0.1	<0.1	0.1	37	0.31	0.019	6
PM11-JC373	Soil	0.2	11.4	4.6	21	<0.1	11.0	5.4	257	0.99	2.8	0.6	0.6	96	0.1	<0.1	<0.1	34	0.49	0.028	4
PM11-JC374	Soil	<0.1	5.9	5.0	17	<0.1	5.7	2.6	84	0.80	3.0	<0.5	0.6	40	<0.1	<0.1	<0.1	24	0.20	0.018	4
PM11-JC375	Soil	<0.1	4.6	4.5	18	<0.1	5.1	2.5	77	0.81	2.0	<0.5	0.6	31	<0.1	<0.1	<0.1	23	0.18	0.015	3
PM11-JC376	Soil	0.1	6.0	4.5	21	<0.1	5.5	3.0	74	0.90	4.0	<0.5	0.6	26	<0.1	<0.1	<0.1	25	0.14	0.017	3
PM11-JC377	Soil	0.3	18.6	6.2	22	0.1	15.0	7.2	306	1.77	5.8	1.3	1.0	157	0.1	0.1	0.1	61	0.77	0.068	18
PM11-JC378	Soil	0.1	7.1	5.1	34	<0.1	7.8	6.4	184	1.86	2.6	1.8	4.4	45	<0.1	<0.1	<0.1	50	0.27	0.028	4

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Project: PLACER MTN.
 Report Date: August 13, 2011

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CERTIFICATE OF ANALYSIS

VAN11003406.1

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	
PM11-JC350	Soil	41	0.36	84	0.073	<1	1.25	0.017	0.07	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
PMS-35	Rock Pulp	23	0.02	997	0.010	<1	0.18	0.007	0.07	2.7	3.28	0.6	11.4	0.18	<1	1.6	<0.2
PM11-JC351	Soil	27	0.21	100	0.071	<1	1.18	0.031	0.04	<0.1	0.02	1.4	<0.1	<0.05	3	<0.5	<0.2
PM11-JC352	Soil	29	0.21	67	0.062	<1	1.03	0.023	0.04	<0.1	0.02	1.5	<0.1	<0.05	3	<0.5	<0.2
PM11-JC353	Soil	27	0.19	113	0.076	<1	1.42	0.019	0.05	<0.1	0.03	1.2	<0.1	<0.05	5	<0.5	<0.2
PM11-JC354	Soil	40	0.26	97	0.082	<1	1.34	0.021	0.05	<0.1	0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11-JC355	Soil	32	0.21	119	0.070	<1	1.59	0.016	0.05	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
PM11-JC356	Soil	41	0.30	117	0.076	<1	1.42	0.020	0.05	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
PM11-JC357	Soil	18	0.14	89	0.053	<1	1.18	0.023	0.04	<0.1	0.03	0.9	<0.1	<0.05	4	<0.5	<0.2
PM11-JC358	Soil	37	0.25	107	0.081	<1	1.85	0.018	0.06	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11-JC359	Soil	23	0.13	87	0.079	2	1.94	0.014	0.05	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11-JC360	Soil	27	0.18	55	0.072	<1	1.32	0.030	0.04	<0.1	0.02	2.1	<0.1	0.06	4	<0.5	<0.2
PM11-JC361	Soil	28	0.24	78	0.086	<1	1.34	0.024	0.05	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JC362	Soil	16	0.13	53	0.055	<1	0.82	0.019	0.03	<0.1	<0.01	0.8	<0.1	<0.05	3	0.5	<0.2
PM11-JC363	Soil	34	0.29	74	0.066	1	1.03	0.018	0.04	<0.1	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
PM11-JC364	Soil	39	0.28	105	0.078	1	2.01	0.016	0.05	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-JC365	Soil	27	0.15	109	0.068	1	1.53	0.017	0.04	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PM11-JC366	Soil	27	0.20	130	0.074	1	2.01	0.015	0.06	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-JC367	Soil	43	0.37	93	0.096	<1	1.63	0.017	0.07	<0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
PM11-JC368	Soil	45	0.33	150	0.088	1	2.35	0.014	0.06	<0.1	0.02	2.4	<0.1	<0.05	7	<0.5	<0.2
PM11-JC369	Soil	39	0.31	135	0.085	<1	2.09	0.015	0.06	<0.1	0.03	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11-JC370	Soil	18	0.24	130	0.084	1	1.67	0.024	0.06	<0.1	0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JC371	Soil	20	0.29	148	0.020	6	0.69	0.014	0.04	<0.1	0.15	1.6	<0.1	0.20	2	<0.5	<0.2
PM11-JC372	Soil	29	0.29	88	0.093	1	1.65	0.032	0.06	<0.1	0.04	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JC373	Soil	22	0.32	80	0.078	1	1.30	0.026	0.08	<0.1	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
PM11-JC374	Soil	8	0.16	77	0.074	<1	1.09	0.028	0.06	<0.1	0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
PM11-JC375	Soil	8	0.14	67	0.074	<1	1.01	0.036	0.05	<0.1	<0.01	0.8	<0.1	<0.05	3	<0.5	<0.2
PM11-JC376	Soil	9	0.18	66	0.100	<1	1.14	0.020	0.06	<0.1	0.02	1.1	<0.1	<0.05	4	<0.5	<0.2
PM11-JC377	Soil	79	0.34	131	0.084	1	2.45	0.021	0.12	<0.1	0.06	5.5	<0.1	<0.05	6	0.8	<0.2
PM11-JC378	Soil	12	0.42	119	0.176	1	1.85	0.026	0.20	<0.1	0.02	1.7	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		
				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		
				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	
PM11-JC379	Soil			0.1	8.6	5.3	29	<0.1	7.0	5.3	155	1.44	1.8	<0.5	1.3	37	<0.1	<0.1	<0.1	40	0.19	0.027	4
PM11-JC380	Soil			0.3	23.1	5.1	27	0.2	17.5	3.7	162	1.37	6.0	1.1	0.5	386	0.3	0.2	0.1	34	1.86	0.075	28
PM11-JC381	Soil			0.2	10.5	6.8	33	0.1	8.4	5.6	167	1.47	3.8	2.1	1.2	40	<0.1	<0.1	<0.1	39	0.23	0.026	6
PM11-JC382	Soil			0.3	7.3	4.7	26	0.2	4.3	3.6	74	1.46	3.2	0.7	1.2	14	0.1	<0.1	<0.1	40	0.11	0.082	4
PM11-JC383	Soil			0.2	30.8	4.7	62	<0.1	5.1	14.6	667	3.62	6.0	1.6	7.2	45	0.1	0.1	<0.1	102	0.90	0.151	17
PM11-JC384	Soil			0.8	29.9	9.5	62	<0.1	14.4	11.3	422	3.21	9.9	2.2	5.4	28	<0.1	0.4	<0.1	91	0.43	0.096	12
PM11-JC385	Soil			0.6	4.9	5.4	20	0.1	3.1	2.7	79	1.37	3.2	0.6	1.4	9	<0.1	<0.1	0.1	39	0.11	0.108	2
PM11-JC386	Soil			0.8	8.8	7.0	37	0.2	7.9	5.8	138	2.06	3.9	<0.5	2.7	10	<0.1	0.1	0.1	50	0.09	0.252	4
PM11-JC387	Soil			0.9	11.4	6.9	26	0.3	9.8	5.1	56	2.18	5.2	<0.5	3.4	18	<0.1	0.1	0.1	51	0.12	0.217	4
PM11-JC388	Soil			0.6	9.9	6.7	46	0.1	8.8	6.7	127	2.47	3.7	0.6	2.6	21	<0.1	0.1	0.1	65	0.20	0.140	3
PM11-JC389	Soil			0.3	12.9	3.8	65	<0.1	8.3	10.7	249	3.05	3.5	<0.5	3.2	20	0.1	0.1	<0.1	91	0.30	0.057	4
PM11-JC390	Soil			2.3	21.1	9.8	69	0.3	14.0	5.7	242	2.62	13.7	<0.5	2.2	15	0.1	0.6	<0.1	72	0.30	0.158	5
PM11-JC391	Soil			1.3	13.5	5.7	35	0.3	12.7	4.9	147	1.89	9.8	<0.5	1.6	15	<0.1	0.2	0.1	56	0.33	0.057	4
PM11-JC392	Soil			1.5	12.5	4.1	31	0.3	11.1	4.6	126	1.74	9.6	1.8	1.4	11	<0.1	0.2	<0.1	49	0.26	0.045	4
PM11-JC393	Soil			1.0	15.8	4.9	38	0.2	15.9	6.1	176	1.74	6.9	4.0	1.4	20	<0.1	0.2	<0.1	46	0.25	0.060	5
PM11-JC394	Soil			1.0	11.8	4.6	25	0.3	10.7	4.5	121	1.60	5.2	<0.5	1.2	16	<0.1	0.1	0.1	44	0.13	0.077	3
PM11-JC395	Soil			0.6	6.3	5.7	15	0.3	7.4	3.1	55	1.46	3.4	0.9	1.2	17	<0.1	<0.1	0.1	40	0.11	0.087	2
PM11-JC396	Soil			1.4	34.2	4.9	58	0.2	31.7	10.8	285	2.84	5.7	<0.5	1.6	24	<0.1	0.3	<0.1	87	0.18	0.047	4
PM11-JC397	Soil			0.9	31.1	5.4	72	0.2	33.1	11.6	264	2.46	2.5	0.7	1.4	29	<0.1	0.1	0.1	69	0.21	0.062	6
PM11-JC398	Soil			1.7	27.5	3.9	49	0.2	33.2	9.4	177	2.58	4.5	<0.5	1.0	24	<0.1	0.3	<0.1	91	0.15	0.054	3
PM11-JC399	Soil			1.0	17.7	5.3	35	0.1	31.4	9.7	119	1.91	1.9	0.8	1.0	19	<0.1	<0.1	0.1	57	0.14	0.063	3
PM11-JC400	Soil			0.8	10.8	4.3	24	<0.1	29.9	6.9	91	1.46	1.2	<0.5	0.7	15	<0.1	<0.1	<0.1	46	0.12	0.037	2
PM11-JC401	Soil			1.7	28.0	4.3	41	0.2	48.6	12.3	119	2.13	1.7	0.7	1.0	19	<0.1	<0.1	<0.1	68	0.13	0.037	3
PM11-JC402	Soil			1.4	16.8	3.8	40	0.1	29.8	8.5	102	1.66	1.8	<0.5	0.9	13	<0.1	<0.1	<0.1	55	0.11	0.043	2
PM11-JC403	Soil			1.5	33.4	3.0	44	<0.1	23.5	7.1	192	2.31	3.3	<0.5	1.7	20	<0.1	0.2	<0.1	77	0.18	0.043	5
PM11-JC404	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.
PM11-JC405	Soil			0.9	26.2	5.5	48	0.2	20.4	7.9	279	2.07	3.6	<0.5	1.4	51	0.3	0.1	<0.1	57	0.50	0.042	7
PMS-38	Rock Pulp			116.5	3634	24.1	66	2.7	37.4	21.0	433	4.49	56.0	445.9	2.2	30	0.3	3.8	0.4	132	0.35	0.090	11
PM11-JC406	Soil			0.4	17.5	4.9	60	0.2	14.2	5.7	238	1.94	1.8	<0.5	1.2	34	0.1	<0.1	<0.1	53	0.26	0.046	5
PM11-JC407	Soil			0.7	29.6	4.1	61	0.1	18.4	9.2	140	2.54	2.1	<0.5	1.6	16	<0.1	<0.1	<0.1	85	0.11	0.092	4

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Project: PLACER MTN.
 Report Date: August 13, 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	
PM11-JC379	Soil	12	0.24	92	0.094	<1	1.43	0.028	0.05	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JC380	Soil	24	0.54	202	0.048	3	2.34	0.018	0.09	<0.1	0.08	3.3	<0.1	0.12	7	<0.5	<0.2
PM11-JC381	Soil	12	0.27	120	0.104	1	1.62	0.024	0.06	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11-JC382	Soil	8	0.13	42	0.083	1	1.11	0.014	0.04	<0.1	0.03	1.0	<0.1	<0.05	6	<0.5	<0.2
PM11-JC383	Soil	12	0.81	162	0.116	1	2.38	0.013	0.30	<0.1	0.04	5.8	0.2	<0.05	8	<0.5	<0.2
PM11-JC384	Soil	20	0.70	176	0.147	<1	1.95	0.014	0.31	0.1	0.08	4.0	0.3	<0.05	6	<0.5	<0.2
PM11-JC385	Soil	6	0.08	38	0.084	1	1.28	0.012	0.04	<0.1	0.04	0.9	<0.1	<0.05	6	<0.5	<0.2
PM11-JC386	Soil	9	0.13	79	0.115	<1	2.66	0.016	0.04	0.1	0.04	1.3	<0.1	<0.05	8	<0.5	<0.2
PM11-JC387	Soil	12	0.11	73	0.122	1	3.44	0.021	0.04	0.1	0.06	1.8	<0.1	<0.05	8	<0.5	<0.2
PM11-JC388	Soil	11	0.27	88	0.139	<1	2.15	0.015	0.08	<0.1	0.03	1.6	<0.1	<0.05	8	<0.5	<0.2
PM11-JC389	Soil	11	0.76	165	0.201	<1	2.11	0.012	0.25	<0.1	0.02	2.0	0.1	<0.05	6	<0.5	<0.2
PM11-JC390	Soil	16	0.32	100	0.080	<1	1.51	0.007	0.09	0.1	0.05	2.5	0.2	<0.05	6	<0.5	<0.2
PM11-JC391	Soil	14	0.19	79	0.093	1	1.29	0.010	0.07	<0.1	0.12	1.9	0.2	<0.05	7	<0.5	<0.2
PM11-JC392	Soil	13	0.19	62	0.089	1	1.16	0.014	0.06	<0.1	0.16	1.7	0.3	<0.05	5	<0.5	<0.2
PM11-JC393	Soil	16	0.23	140	0.092	1	1.44	0.012	0.08	<0.1	0.07	1.7	0.1	<0.05	6	<0.5	<0.2
PM11-JC394	Soil	11	0.17	77	0.073	<1	1.48	0.012	0.05	<0.1	0.06	1.2	<0.1	0.06	5	<0.5	<0.2
PM11-JC395	Soil	8	0.07	74	0.082	<1	1.63	0.018	0.03	<0.1	0.06	1.1	<0.1	<0.05	6	<0.5	<0.2
PM11-JC396	Soil	48	0.76	202	0.170	<1	2.27	0.014	0.23	<0.1	0.03	4.1	0.1	<0.05	6	<0.5	<0.2
PM11-JC397	Soil	38	0.60	231	0.136	<1	2.30	0.015	0.13	<0.1	0.02	3.1	<0.1	<0.05	7	<0.5	<0.2
PM11-JC398	Soil	74	0.84	163	0.167	<1	1.74	0.012	0.15	<0.1	0.01	3.7	0.1	<0.05	6	<0.5	<0.2
PM11-JC399	Soil	26	0.31	179	0.109	<1	1.66	0.016	0.09	<0.1	0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11-JC400	Soil	27	0.24	188	0.107	<1	1.25	0.014	0.06	<0.1	0.02	1.1	<0.1	<0.05	5	<0.5	<0.2
PM11-JC401	Soil	40	0.42	282	0.149	1	1.92	0.014	0.15	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
PM11-JC402	Soil	27	0.29	171	0.129	1	1.23	0.011	0.11	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-JC403	Soil	34	0.57	252	0.143	<1	1.23	0.010	0.42	<0.1	0.01	3.9	0.2	<0.05	4	0.7	<0.2
PM11-JC404	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.
PM11-JC405	Soil	28	0.46	183	0.120	1	1.91	0.022	0.26	<0.1	0.03	4.1	0.1	<0.05	5	<0.5	<0.2
PMS-38	Rock Pulp	55	0.92	47	0.119	<1	1.37	0.040	0.96	4.8	0.08	9.5	0.5	2.07	5	5.9	1.1
PM11-JC406	Soil	20	0.36	183	0.118	<1	1.83	0.021	0.17	<0.1	0.02	2.9	0.1	<0.05	5	<0.5	<0.2
PM11-JC407	Soil	27	0.54	170	0.190	1	2.39	0.012	0.32	0.1	0.03	5.3	0.1	<0.05	7	<0.5	<0.2

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 Report Date: August 13, 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	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	
PM11-JC408	Soil		0.9	24.5	5.2	42	0.2	22.3	6.0	159	2.14	3.2	<0.5	1.1	68	0.2	0.2	<0.1	50	1.09	0.051	9
PM11-JC409	Soil		1.0	26.8	4.0	50	0.1	22.1	6.7	275	2.05	4.0	<0.5	1.5	79	0.2	0.1	<0.1	64	0.95	0.072	12
PM11-JC410	Soil		0.4	11.8	5.2	34	<0.1	14.2	6.2	104	1.78	1.6	<0.5	1.1	35	0.1	<0.1	<0.1	41	0.28	0.071	5
PM11-JC411	Soil		0.6	22.3	3.7	45	<0.1	18.0	7.9	199	2.39	1.8	0.6	1.7	35	0.1	<0.1	<0.1	60	0.46	0.043	7
PM11-JC412	Soil		0.3	9.0	5.2	30	<0.1	11.1	4.7	107	1.49	2.2	<0.5	0.9	22	<0.1	<0.1	<0.1	37	0.35	0.070	3
PM11-JC413	Soil		0.5	12.1	4.9	37	<0.1	11.8	4.8	196	1.35	1.6	<0.5	0.7	38	0.2	<0.1	<0.1	31	0.74	0.121	4
PM11-JC414	Soil		0.8	9.3	1.3	3	<0.1	2.5	0.7	93	0.16	2.3	<0.5	<0.1	173	0.5	<0.1	<0.1	12	6.08	0.067	<1
PM11-JC415	Soil		0.5	12.0	5.9	24	<0.1	20.8	6.4	89	1.65	3.5	<0.5	1.4	33	<0.1	<0.1	<0.1	36	0.51	0.106	6
PM11-JC416	Soil		0.4	7.5	6.0	27	<0.1	11.6	4.8	62	1.24	1.6	2.8	0.5	29	<0.1	<0.1	0.1	27	0.29	0.036	3
PM11-JC417	Soil		0.5	17.1	5.2	48	<0.1	25.7	7.4	151	1.93	1.5	<0.5	1.7	29	<0.1	0.1	<0.1	47	0.16	0.120	6
PM11-JC418	Soil		0.5	23.1	4.6	47	<0.1	22.4	7.3	182	2.09	1.3	0.7	1.4	43	<0.1	0.2	<0.1	55	0.28	0.052	6
PM11-JC419	Soil		0.4	20.6	5.0	43	<0.1	32.3	9.2	155	2.32	1.1	<0.5	1.7	50	<0.1	0.1	<0.1	61	0.27	0.087	7
PM11-JC420	Soil		0.3	14.2	5.1	41	<0.1	16.7	4.6	105	1.45	<0.5	0.9	0.9	25	<0.1	<0.1	<0.1	36	0.18	0.023	4
PM11-JC421	Soil		0.3	23.1	4.7	41	<0.1	25.2	5.0	106	1.63	<0.5	12.1	1.2	31	<0.1	<0.1	<0.1	41	0.17	0.020	6
PM11-JC422	Soil		0.6	14.1	5.2	54	<0.1	25.6	7.2	211	1.88	<0.5	<0.5	1.5	24	<0.1	<0.1	<0.1	44	0.15	0.140	4
PM11-JC423	Soil		0.3	8.9	4.5	56	<0.1	21.7	4.9	274	1.34	<0.5	<0.5	1.2	26	<0.1	<0.1	<0.1	29	0.16	0.134	3
PM11-JC424	Soil		0.2	10.2	4.3	47	<0.1	20.8	5.1	170	1.57	<0.5	<0.5	1.3	32	<0.1	<0.1	0.1	36	0.25	0.032	4
PM11-RP446	Soil		0.1	19.5	4.2	27	<0.1	26.0	5.0	116	1.49	<0.5	4.8	1.5	41	<0.1	0.1	<0.1	36	0.29	0.016	6
PM11-RP447	Soil		<0.1	15.0	4.5	30	<0.1	25.0	4.3	107	1.34	<0.5	3.7	1.7	41	<0.1	<0.1	0.1	35	0.23	0.014	6
PM11-RP448	Soil		<0.1	12.2	6.1	24	<0.1	18.4	3.3	106	1.13	<0.5	<0.5	1.4	36	<0.1	<0.1	0.1	26	0.18	0.017	7
PM11-RP449	Soil		0.2	12.8	5.2	33	<0.1	17.1	4.6	309	1.22	2.2	0.7	1.1	28	<0.1	<0.1	0.2	33	0.18	0.017	5
PM11-RP450	Soil		0.4	13.1	3.5	41	<0.1	23.8	6.5	96	1.57	3.1	<0.5	1.0	18	<0.1	<0.1	0.1	39	0.15	0.134	4
PM11-RP451	Soil		0.1	15.9	4.0	31	<0.1	19.5	2.7	150	1.11	2.6	1.1	0.9	28	<0.1	<0.1	0.1	26	0.16	0.019	5
PM11-RP452	Soil		0.3	14.3	4.1	39	<0.1	27.1	6.3	115	1.63	2.6	<0.5	1.2	23	<0.1	<0.1	0.1	39	0.13	0.132	5
PM11-RP453	Soil		0.3	14.1	4.1	47	<0.1	24.8	5.7	141	1.43	2.0	<0.5	1.2	19	<0.1	<0.1	0.1	33	0.13	0.136	4
PM11-RP454	Soil		0.4	11.2	3.4	29	<0.1	14.7	4.9	131	1.37	1.2	2.0	0.7	24	<0.1	<0.1	<0.1	36	0.16	0.032	3
PM11-RP455	Soil		0.5	13.3	5.8	43	<0.1	18.0	5.5	229	1.46	1.4	<0.5	1.7	22	<0.1	<0.1	0.1	31	0.12	0.119	5
PM11-RP456	Soil		0.2	13.2	7.2	40	<0.1	33.6	8.0	99	1.90	1.1	<0.5	1.6	123	<0.1	<0.1	0.1	51	0.28	0.050	3
PM11-RP457	Soil		0.2	12.0	6.0	41	<0.1	27.4	7.0	85	1.69	0.9	<0.5	1.3	40	<0.1	<0.1	0.1	43	0.16	0.127	4
PM11-RP458	Soil		0.2	14.9	3.1	42	<0.1	12.8	9.1	193	2.64	1.9	<0.5	3.0	96	<0.1	<0.1	0.1	78	0.26	0.033	5

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

Project: PLACER MTN.
 Report Date: August 13, 2011

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CERTIFICATE OF ANALYSIS

VAN11003406.1

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	
PM11-JC408	Soil			25	0.43	135	0.110	<1	1.81	0.018	0.11	0.1	0.05	3.6	<0.1	<0.05	5	1.2	<0.2
PM11-JC409	Soil			31	0.62	248	0.123	2	1.36	0.029	0.33	0.1	0.02	4.1	0.1	<0.05	4	0.6	<0.2
PM11-JC410	Soil			19	0.35	164	0.122	1	1.75	0.016	0.12	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
PM11-JC411	Soil			26	0.58	134	0.135	2	1.56	0.015	0.29	<0.1	<0.01	4.3	0.1	<0.05	5	0.5	<0.2
PM11-JC412	Soil			14	0.19	63	0.094	2	1.69	0.019	0.07	0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JC413	Soil			18	0.24	82	0.073	3	1.41	0.017	0.07	<0.1	0.05	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JC414	Soil			3	0.07	45	0.005	8	0.22	0.014	0.02	<0.1	0.10	0.4	<0.1	0.20	<1	3.8	<0.2
PM11-JC415	Soil			24	0.25	108	0.093	<1	2.31	0.021	0.06	<0.1	0.02	2.1	<0.1	0.06	6	<0.5	<0.2
PM11-JC416	Soil			17	0.19	91	0.074	<1	1.72	0.019	0.04	<0.1	<0.01	1.2	<0.1	<0.05	7	<0.5	<0.2
PM11-JC417	Soil			32	0.30	130	0.093	2	2.12	0.018	0.07	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2
PM11-JC418	Soil			39	0.59	112	0.107	<1	1.49	0.029	0.08	<0.1	<0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
PM11-JC419	Soil			48	0.51	179	0.112	<1	1.84	0.022	0.13	<0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
PM11-JC420	Soil			25	0.30	97	0.085	1	1.31	0.022	0.07	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
PM11-JC421	Soil			37	0.38	118	0.082	<1	1.60	0.020	0.05	<0.1	<0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-JC422	Soil			34	0.32	108	0.094	<1	2.07	0.023	0.06	<0.1	0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
PM11-JC423	Soil			22	0.19	119	0.074	<1	1.42	0.019	0.07	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JC424	Soil			32	0.24	122	0.083	<1	1.56	0.022	0.10	<0.1	<0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-RP446	Soil			39	0.52	95	0.083	<1	1.34	0.032	0.06	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
PM11-RP447	Soil			41	0.43	89	0.098	<1	1.27	0.024	0.06	<0.1	0.01	2.7	0.1	<0.05	3	0.5	<0.2
PM11-RP448	Soil			31	0.30	103	0.090	<1	1.71	0.022	0.05	<0.1	0.01	2.3	0.1	<0.05	5	0.5	<0.2
PM11-RP449	Soil			28	0.25	102	0.091	<1	1.66	0.023	0.04	<0.1	0.02	1.9	<0.1	0.16	5	<0.5	<0.2
PM11-RP450	Soil			28	0.22	95	0.070	1	1.66	0.017	0.04	<0.1	0.01	1.8	<0.1	0.11	5	<0.5	<0.2
PM11-RP451	Soil			27	0.21	113	0.064	<1	1.57	0.025	0.04	<0.1	<0.01	2.0	<0.1	0.09	4	<0.5	<0.2
PM11-RP452	Soil			39	0.26	120	0.077	<1	1.95	0.018	0.05	<0.1	0.01	1.8	<0.1	0.05	6	0.6	<0.2
PM11-RP453	Soil			30	0.19	124	0.076	2	1.94	0.016	0.04	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-RP454	Soil			30	0.22	82	0.070	<1	1.07	0.015	0.05	<0.1	0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
PM11-RP455	Soil			12	0.17	120	0.105	1	2.47	0.019	0.05	<0.1	0.01	1.7	<0.1	<0.05	7	<0.5	<0.2
PM11-RP456	Soil			32	0.47	193	0.120	<1	3.32	0.013	0.13	<0.1	0.01	2.3	<0.1	<0.05	8	<0.5	<0.2
PM11-RP457	Soil			24	0.24	129	0.086	1	2.50	0.014	0.07	<0.1	0.02	1.7	<0.1	<0.05	7	<0.5	<0.2
PM11-RP458	Soil			20	0.60	164	0.202	<1	1.93	0.016	0.37	<0.1	0.02	1.9	0.3	<0.05	6	<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	%	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	
PM11-RP459	Soil	0.5	13.3	5.3	27	<0.1	15.3	5.7	57	1.96	2.9	<0.5	3.7	15	<0.1	<0.1	0.1	47	0.08	0.264	5
PM11-RP460	Soil	0.3	20.6	4.5	61	0.2	17.5	10.0	369	4.02	3.3	<0.5	3.2	103	<0.1	0.3	0.1	94	0.83	0.117	14
PMS-31	Rock Pulp	16.9	61.4	15.1	17	0.2	15.1	2.4	94	3.43	438.9	206.4	0.7	25	0.3	24.2	0.2	7	0.95	0.005	1
PM11-RP461	Soil	0.1	9.5	2.9	30	<0.1	7.9	6.0	142	1.91	1.7	1.0	1.6	35	<0.1	<0.1	<0.1	58	0.25	0.014	4
PM11-RP462	Soil	0.1	7.5	3.5	26	<0.1	8.6	4.8	104	1.61	0.8	<0.5	1.3	28	<0.1	<0.1	<0.1	42	0.15	0.013	4
PM11-RP463	Soil	0.3	13.2	3.0	44	<0.1	10.1	9.6	217	2.97	1.6	<0.5	3.5	35	<0.1	0.1	<0.1	91	0.28	0.062	4
PM11-RP464	Soil	0.1	9.5	3.0	33	<0.1	10.1	7.3	183	2.17	0.7	0.8	2.7	39	<0.1	<0.1	<0.1	61	0.24	0.018	5
PM11-RP465	Soil	0.2	5.0	3.9	22	<0.1	5.2	3.4	63	1.20	<0.5	<0.5	1.1	20	<0.1	<0.1	<0.1	31	0.14	0.016	2
PM11-RP466	Soil	0.3	14.6	2.7	50	<0.1	10.0	10.8	321	3.62	2.1	<0.5	5.5	40	<0.1	<0.1	<0.1	124	0.57	0.108	10
PM11-RP467	Soil	0.3	11.9	3.4	40	<0.1	10.5	8.8	346	2.29	1.3	<0.5	3.6	48	<0.1	<0.1	<0.1	68	0.45	0.040	8
PM11-RP468	Soil	1.0	12.6	4.4	29	<0.1	9.1	6.6	323	1.77	1.3	2.7	2.4	37	<0.1	<0.1	<0.1	54	0.31	0.030	8
PM11-RP469	Soil	4.4	53.0	7.0	36	0.2	27.7	8.9	1938	2.58	4.5	0.7	2.0	181	0.3	0.3	0.1	64	1.59	0.068	74
PM11-RP470	Soil	2.7	27.5	5.6	39	0.1	20.8	11.7	1375	2.29	2.5	<0.5	2.2	90	0.1	0.1	0.1	60	0.86	0.058	27
PM11-RP471	Soil	0.5	33.3	8.2	44	0.2	25.7	8.1	578	2.24	3.7	<0.5	1.9	151	0.1	0.1	0.1	52	1.04	0.082	39
PM11-RP472	Soil	0.2	22.7	4.8	33	0.1	14.4	7.5	254	1.97	1.5	<0.5	2.8	55	<0.1	<0.1	0.1	51	0.34	0.026	10
PM11-RP473	Soil	0.2	21.4	4.4	39	<0.1	12.2	7.2	320	2.14	1.7	1.3	1.8	41	0.1	<0.1	0.1	60	0.38	0.033	7
PM11-RP474	Soil	2.6	35.4	4.3	33	0.1	20.7	9.3	1983	2.11	4.1	1.2	0.8	64	0.1	<0.1	0.1	69	0.99	0.079	10
PM11-RP475	Soil	1.9	18.7	3.9	46	<0.1	14.3	8.6	153	2.20	2.7	<0.5	1.4	19	<0.1	<0.1	<0.1	59	0.27	0.135	4
PM11-RP476	Soil	1.1	17.1	4.2	58	<0.1	16.0	7.8	357	2.11	2.0	<0.5	1.4	22	<0.1	<0.1	<0.1	53	0.33	0.085	4
PM11-RP477	Soil	0.7	18.9	4.3	59	<0.1	14.4	6.5	190	2.04	2.0	<0.5	1.8	20	<0.1	<0.1	0.1	42	0.33	0.119	5
PM11-RP478	Soil	1.4	14.7	4.7	58	<0.1	15.1	7.1	452	1.85	1.6	1.3	1.3	16	<0.1	<0.1	<0.1	42	0.25	0.092	3
PM11-RP479	Soil	1.5	10.5	3.7	45	<0.1	12.3	6.4	234	1.71	<0.5	<0.5	1.0	15	<0.1	<0.1	<0.1	40	0.15	0.080	3
PM11-RP480	Soil	1.1	12.2	4.4	59	<0.1	16.7	6.3	157	1.67	<0.5	<0.5	1.2	21	<0.1	<0.1	<0.1	41	0.19	0.124	3
PM11-RP481	Soil	0.4	19.8	2.9	38	<0.1	16.7	6.6	254	1.94	<0.5	<0.5	1.3	44	<0.1	0.1	<0.1	60	0.32	0.022	7
PM11-RP482	Soil	0.2	10.1	3.7	28	<0.1	11.3	4.7	89	1.53	<0.5	0.8	0.8	30	<0.1	<0.1	<0.1	43	0.18	0.022	3
PM11-RP483	Soil	0.2	11.6	3.7	37	<0.1	15.0	4.6	83	1.48	0.6	0.8	1.0	29	<0.1	<0.1	<0.1	36	0.17	0.053	4
PM11-RP484	Soil	0.4	15.5	6.3	52	0.1	16.2	6.5	226	1.99	0.7	1.3	1.5	55	<0.1	<0.1	0.1	49	0.24	0.079	4
PM11-RP485	Soil	0.4	15.6	5.3	41	<0.1	15.5	6.8	185	2.05	0.7	<0.5	1.5	68	<0.1	<0.1	0.1	55	0.38	0.061	4
PM11-RP486	Soil	0.2	13.0	4.3	39	<0.1	14.1	4.6	168	1.54	<0.5	<0.5	1.1	33	<0.1	<0.1	<0.1	38	0.17	0.030	5
PM11-RP487	Soil	0.3	9.0	3.8	42	<0.1	14.5	5.5	116	1.59	0.6	<0.5	0.9	25	<0.1	<0.1	<0.1	43	0.12	0.083	2

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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	
PM11-RP459	Soil			17	0.17	80	0.117	1	3.72	0.018	0.06	0.1	0.05	2.9	<0.1	<0.05	8	<0.5	<0.2
PM11-RP460	Soil			41	0.92	72	0.014	<1	2.28	0.008	0.19	0.2	<0.01	6.7	<0.1	<0.05	7	<0.5	<0.2
PMS-31	Rock Pulp			22	0.02	1215	0.009	1	0.17	0.006	0.07	2.5	2.89	0.6	10.3	0.25	<1	2.2	<0.2
PM11-RP461	Soil			15	0.37	89	0.131	<1	1.46	0.018	0.14	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-RP462	Soil			13	0.28	87	0.128	<1	1.66	0.019	0.12	<0.1	<0.01	1.3	0.1	<0.05	5	<0.5	<0.2
PM11-RP463	Soil			17	0.65	102	0.174	<1	1.83	0.013	0.15	<0.1	<0.01	2.5	0.1	<0.05	6	<0.5	<0.2
PM11-RP464	Soil			15	0.52	100	0.157	<1	1.50	0.015	0.22	<0.1	<0.01	2.2	0.2	<0.05	5	<0.5	<0.2
PM11-RP465	Soil			8	0.17	61	0.093	<1	0.98	0.025	0.04	<0.1	<0.01	0.9	<0.1	<0.05	4	<0.5	<0.2
PM11-RP466	Soil			25	0.81	115	0.192	1	1.62	0.019	0.32	<0.1	<0.01	4.0	0.2	<0.05	6	<0.5	<0.2
PM11-RP467	Soil			19	0.69	129	0.176	1	1.80	0.020	0.21	<0.1	<0.01	3.9	0.2	<0.05	5	<0.5	<0.2
PM11-RP468	Soil			16	0.31	109	0.111	<1	1.51	0.027	0.10	<0.1	0.03	3.3	<0.1	<0.05	5	<0.5	<0.2
PM11-RP469	Soil			27	0.57	308	0.085	3	2.63	0.017	0.11	0.1	0.10	6.2	0.1	0.16	7	1.1	<0.2
PM11-RP470	Soil			29	0.52	194	0.107	2	2.02	0.025	0.15	<0.1	0.04	5.6	0.2	0.07	6	<0.5	<0.2
PM11-RP471	Soil			40	0.58	204	0.108	3	2.45	0.022	0.16	<0.1	0.09	7.4	0.2	0.11	7	0.6	<0.2
PM11-RP472	Soil			26	0.53	133	0.133	1	1.67	0.025	0.19	<0.1	<0.01	4.8	0.2	<0.05	5	<0.5	<0.2
PM11-RP473	Soil			22	0.46	110	0.119	1	1.95	0.023	0.07	<0.1	0.01	3.8	<0.1	<0.05	6	<0.5	<0.2
PM11-RP474	Soil			22	0.47	189	0.085	2	1.98	0.033	0.09	0.1	0.04	2.9	0.1	0.06	6	0.9	<0.2
PM11-RP475	Soil			18	0.35	92	0.098	1	1.89	0.016	0.06	0.2	<0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
PM11-RP476	Soil			20	0.32	119	0.104	1	2.05	0.017	0.07	0.2	0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
PM11-RP477	Soil			17	0.27	139	0.107	2	2.38	0.018	0.12	0.2	0.01	2.7	<0.1	<0.05	6	<0.5	<0.2
PM11-RP478	Soil			16	0.24	121	0.100	1	2.15	0.015	0.05	0.2	0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11-RP479	Soil			14	0.20	96	0.091	1	1.43	0.016	0.06	0.1	<0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-RP480	Soil			17	0.24	115	0.091	1	1.88	0.014	0.10	0.2	<0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11-RP481	Soil			29	0.47	77	0.091	<1	1.25	0.029	0.09	<0.1	<0.01	4.6	<0.1	<0.05	4	<0.5	<0.2
PM11-RP482	Soil			18	0.26	105	0.081	<1	1.42	0.020	0.07	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PM11-RP483	Soil			16	0.26	116	0.071	<1	1.61	0.021	0.07	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
PM11-RP484	Soil			20	0.40	241	0.099	<1	2.60	0.023	0.12	<0.1	0.01	2.9	<0.1	<0.05	7	<0.5	<0.2
PM11-RP485	Soil			22	0.50	197	0.096	<1	2.30	0.027	0.16	<0.1	0.02	3.4	<0.1	<0.05	6	<0.5	<0.2
PM11-RP486	Soil			19	0.31	122	0.083	<1	1.61	0.026	0.08	<0.1	0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
PM11-RP487	Soil			24	0.28	111	0.082	<1	1.69	0.020	0.05	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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	
PM11-RP488	Soil		0.3	10.1	3.5	53	<0.1	17.0	5.3	168	1.67	0.6	<0.5	1.1	34	<0.1	<0.1	<0.1	44	0.19	0.097	3
PM11-RP489	Soil		0.3	15.1	4.9	58	<0.1	23.0	7.3	169	1.92	0.8	8.7	1.3	37	<0.1	<0.1	0.1	48	0.20	0.081	4
PM11-RP490	Soil		0.4	17.5	5.1	54	0.1	13.6	7.2	164	2.07	1.4	<0.5	2.2	38	<0.1	<0.1	<0.1	60	0.23	0.047	6
PM11-RP490D	Soil		0.4	18.7	5.0	52	<0.1	15.2	7.3	180	2.24	1.2	0.7	2.3	43	<0.1	<0.1	<0.1	69	0.26	0.042	7
PM11-RP491	Soil		0.4	34.7	3.3	37	<0.1	30.3	10.2	193	2.20	3.3	<0.5	0.8	20	<0.1	0.2	<0.1	56	0.23	0.071	3
PM11-RP491D	Soil		0.5	35.7	3.4	39	<0.1	32.4	10.7	191	2.23	3.3	2.3	0.9	21	<0.1	0.2	<0.1	58	0.24	0.066	4
PM11-RP492	Soil		0.3	22.2	4.2	36	<0.1	24.4	8.3	175	2.02	3.0	<0.5	0.9	14	<0.1	<0.1	0.1	56	0.21	0.115	3
PM11-RP493	Soil		0.3	20.5	5.1	35	0.1	24.9	7.3	98	1.76	1.9	<0.5	0.8	12	<0.1	<0.1	0.1	40	0.13	0.110	3
PM11-RP494	Soil		0.3	17.2	4.5	23	<0.1	20.0	6.2	95	1.73	2.4	<0.5	1.2	14	<0.1	<0.1	<0.1	39	0.17	0.153	3
PM11-RP495	Soil		0.2	35.3	5.2	27	0.1	24.0	5.8	156	1.90	2.9	<0.5	1.1	18	<0.1	<0.1	0.1	47	0.20	0.055	5
PM11-RP496	Soil		0.4	34.4	4.7	33	<0.1	24.3	8.6	266	1.83	3.5	<0.5	0.9	21	<0.1	0.1	<0.1	50	0.28	0.048	3
PM11-RP497	Soil		0.3	71.3	3.4	37	<0.1	39.5	14.1	343	2.37	6.9	1.0	1.3	22	<0.1	0.3	<0.1	69	0.40	0.041	6
PM11-RP498	Soil		0.4	61.9	3.1	41	<0.1	36.1	14.8	434	2.77	6.5	2.2	1.7	26	<0.1	0.2	<0.1	84	0.56	0.060	8
PM11-RP499	Soil		0.3	48.1	2.9	31	<0.1	29.5	10.4	223	1.84	6.3	1.0	0.9	18	<0.1	0.2	<0.1	58	0.51	0.046	4
PM11-RP500	Soil		0.3	26.3	4.0	26	0.1	27.0	7.8	149	1.75	3.9	<0.5	0.7	14	<0.1	0.1	<0.1	47	0.22	0.134	2
PM11-RP501	Soil		0.6	31.6	4.1	37	0.1	26.3	8.7	209	1.96	4.8	1.6	1.0	14	<0.1	0.1	<0.1	51	0.18	0.109	3
PM11-RP502	Soil		0.2	22.1	5.1	20	0.2	17.8	5.1	93	1.69	3.4	<0.5	1.0	17	<0.1	<0.1	0.1	39	0.24	0.104	5
PM11-RP503	Soil		0.4	18.3	3.8	31	0.1	14.7	5.7	115	1.80	2.7	<0.5	0.9	16	<0.1	<0.1	0.1	45	0.17	0.171	2
PM11-RP504	Soil		0.4	20.2	4.2	29	<0.1	16.1	6.2	100	1.74	2.7	1.1	0.9	16	<0.1	<0.1	<0.1	45	0.14	0.098	3
PM11-RP505	Soil		0.3	16.6	4.3	24	0.2	13.9	4.9	123	1.40	2.6	<0.5	0.9	16	<0.1	<0.1	<0.1	34	0.16	0.102	3
PMS-34	Rock Pulp		125.7	3647	23.2	70	2.6	36.9	21.2	423	4.49	60.4	456.2	2.1	31	0.4	4.1	0.4	131	0.34	0.101	12
PM11-RP506	Soil		0.5	32.9	4.0	42	0.1	24.5	8.2	148	2.09	3.7	4.0	1.2	20	<0.1	0.1	0.1	51	0.20	0.117	4
PM11-RP507	Soil		0.7	19.8	4.4	34	0.1	19.7	6.8	106	1.82	4.3	<0.5	1.2	14	<0.1	0.1	<0.1	47	0.14	0.126	4
PM11-RP508	Soil		0.5	24.8	4.6	30	<0.1	18.5	6.7	225	1.78	3.2	<0.5	0.8	19	<0.1	0.1	<0.1	49	0.20	0.092	3
PM11-RP509	Soil		0.5	21.4	4.2	33	0.1	25.0	8.1	108	1.92	4.3	<0.5	1.1	17	<0.1	0.1	<0.1	49	0.20	0.104	3
PM11-RP510	Soil		0.5	26.1	4.0	31	0.1	23.1	8.9	146	1.87	3.9	<0.5	0.7	16	<0.1	0.1	0.1	48	0.18	0.090	4
PM11-RP511	Soil		0.3	13.4	3.5	21	<0.1	14.6	5.5	157	1.42	1.5	0.7	0.5	15	<0.1	<0.1	<0.1	39	0.19	0.020	3
PM11-RP512	Soil		0.6	15.7	4.1	22	0.2	15.5	5.6	84	1.48	2.4	<0.5	0.9	13	<0.1	<0.1	<0.1	37	0.12	0.115	3
PM11-RP513	Soil		0.6	23.4	3.9	26	<0.1	20.8	7.5	145	1.61	2.5	<0.5	0.7	21	<0.1	<0.1	<0.1	46	0.24	0.045	3
PM11-RP514	Soil		0.3	18.3	4.8	22	0.1	24.1	9.2	81	1.82	3.3	<0.5	0.8	34	<0.1	<0.1	0.1	42	0.30	0.062	2

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Project: PLACER MTN.
 Report Date: August 13, 2011

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CERTIFICATE OF ANALYSIS

VAN11003406.1

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	
PM11-RP488	Soil			24	0.33	110	0.083	<1	1.79	0.023	0.05	<0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11-RP489	Soil			30	0.37	163	0.101	<1	2.19	0.022	0.11	<0.1	<0.01	2.7	<0.1	<0.05	6	<0.5	<0.2
PM11-RP490	Soil			21	0.47	143	0.131	<1	1.88	0.024	0.23	<0.1	0.01	3.8	0.1	<0.05	6	<0.5	<0.2
PM11-RP490D	Soil			26	0.59	150	0.142	<1	1.84	0.024	0.30	<0.1	0.01	4.4	0.2	<0.05	6	<0.5	<0.2
PM11-RP491	Soil			54	0.63	154	0.091	<1	2.20	0.025	0.06	<0.1	0.03	2.7	<0.1	<0.05	6	<0.5	<0.2
PM11-RP491D	Soil			60	0.67	160	0.102	<1	2.34	0.025	0.07	<0.1	0.01	2.8	<0.1	<0.05	6	<0.5	<0.2
PM11-RP492	Soil			40	0.35	93	0.101	<1	2.05	0.026	0.03	<0.1	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
PM11-RP493	Soil			33	0.32	97	0.095	<1	2.20	0.020	0.04	<0.1	0.01	1.9	<0.1	<0.05	7	<0.5	<0.2
PM11-RP494	Soil			22	0.21	74	0.095	<1	2.56	0.024	0.04	<0.1	0.03	2.2	<0.1	<0.05	6	<0.5	<0.2
PM11-RP495	Soil			26	0.23	181	0.096	<1	2.66	0.024	0.05	<0.1	0.03	2.0	<0.1	<0.05	8	<0.5	<0.2
PM11-RP496	Soil			40	0.46	113	0.086	<1	1.72	0.026	0.05	<0.1	0.04	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11-RP497	Soil			73	0.95	107	0.103	<1	1.62	0.031	0.12	<0.1	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2
PM11-RP498	Soil			68	0.90	114	0.127	<1	1.83	0.036	0.14	<0.1	<0.01	6.6	<0.1	<0.05	5	<0.5	<0.2
PM11-RP499	Soil			57	0.65	95	0.091	<1	1.49	0.038	0.07	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
PM11-RP500	Soil			36	0.40	103	0.090	<1	2.09	0.028	0.04	<0.1	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2
PM11-RP501	Soil			33	0.37	108	0.093	<1	2.43	0.022	0.04	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
PM11-RP502	Soil			17	0.17	95	0.093	<1	2.41	0.027	0.03	<0.1	0.02	1.7	<0.1	<0.05	7	<0.5	<0.2
PM11-RP503	Soil			22	0.27	92	0.086	<1	1.93	0.022	0.03	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-RP504	Soil			19	0.23	62	0.101	<1	2.04	0.025	0.03	0.1	0.03	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11-RP505	Soil			26	0.24	64	0.097	<1	2.00	0.022	0.03	<0.1	0.05	1.6	<0.1	<0.05	5	<0.5	<0.2
PMS-34	Rock Pulp			52	0.93	48	0.123	<1	1.39	0.039	1.00	4.7	0.06	10.2	0.6	2.10	5	6.8	0.7
PM11-RP506	Soil			31	0.39	114	0.091	1	2.25	0.025	0.04	0.1	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2
PM11-RP507	Soil			26	0.29	71	0.102	<1	2.53	0.022	0.03	<0.1	0.05	2.3	<0.1	<0.05	6	<0.5	<0.2
PM11-RP508	Soil			26	0.34	91	0.085	<1	1.64	0.020	0.04	<0.1	0.04	2.0	<0.1	<0.05	5	<0.5	<0.2
PM11-RP509	Soil			30	0.35	71	0.094	<1	2.51	0.026	0.03	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
PM11-RP510	Soil			34	0.40	104	0.096	<1	2.14	0.027	0.04	<0.1	0.03	2.2	<0.1	<0.05	6	<0.5	<0.2
PM11-RP511	Soil			25	0.31	94	0.087	<1	1.35	0.024	0.04	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-RP512	Soil			21	0.25	51	0.095	<1	2.24	0.026	0.03	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-RP513	Soil			37	0.46	87	0.094	<1	1.63	0.028	0.05	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-RP514	Soil			30	0.30	225	0.102	<1	2.67	0.030	0.05	<0.1	0.03	1.8	<0.1	<0.05	7	<0.5	<0.2

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 Report Date: August 13, 2011

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CERTIFICATE OF ANALYSIS

VAN11003406.1

Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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	0.1	2	0.01	0.001	1
PM11-RP515	Soil	0.4	37.3	4.7	31	0.2	26.9	8.3	206	1.91	13.1	<0.5	1.0	32	0.1	0.1	<0.1	53	0.34	0.016	6
PM11-RP516	Soil	0.7	44.3	5.3	42	0.2	40.0	10.0	571	2.36	2.5	<0.5	1.7	53	<0.1	<0.1	<0.1	61	0.62	0.034	20
PM11-RP517	Soil	0.3	23.2	5.3	35	<0.1	18.8	9.3	260	2.33	<0.5	<0.5	1.6	38	<0.1	<0.1	<0.1	66	0.49	0.020	8
PM11-RP518	Soil	0.3	29.5	5.3	43	<0.1	22.2	9.4	318	2.74	1.3	0.6	1.2	47	<0.1	<0.1	<0.1	78	0.57	0.024	7
PM11-RP519	Soil	0.3	13.3	5.3	28	<0.1	16.2	6.6	100	1.96	1.2	<0.5	1.0	27	0.1	0.1	0.1	47	0.31	0.089	6
PM11-RP520	Soil	0.3	18.5	4.6	35	<0.1	16.2	8.7	201	2.58	1.1	1.2	1.5	29	<0.1	<0.1	0.1	77	0.40	0.031	4
PM11-RP521	Soil	0.2	26.3	6.6	35	<0.1	25.4	8.5	247	1.96	1.2	<0.5	1.0	26	<0.1	<0.1	<0.1	54	0.23	0.060	5
PM11-RP521D	Soil	0.3	23.7	4.6	34	<0.1	24.1	7.8	248	1.86	1.0	<0.5	0.9	24	<0.1	<0.1	<0.1	52	0.22	0.056	5
PM11-RP522	Soil	0.2	6.4	2.8	39	<0.1	14.2	4.1	251	1.30	<0.5	9.9	0.7	23	<0.1	<0.1	<0.1	32	0.17	0.025	3
PM11-RP523	Soil	0.2	10.5	3.8	44	<0.1	20.4	5.6	167	1.60	<0.5	<0.5	1.2	27	<0.1	<0.1	<0.1	42	0.15	0.014	6
PM11-RP524	Soil	0.1	13.8	6.0	51	<0.1	23.3	6.1	238	1.68	<0.5	<0.5	1.7	31	<0.1	<0.1	<0.1	42	0.16	0.025	5
PM11-RP525	Soil	0.1	14.8	4.2	45	<0.1	23.3	5.8	119	1.44	<0.5	<0.5	1.4	19	<0.1	<0.1	<0.1	33	0.10	0.111	5
PM11-RP526	Soil	0.2	15.5	4.1	46	<0.1	24.0	7.2	195	1.66	<0.5	<0.5	1.4	31	<0.1	<0.1	<0.1	40	0.19	0.083	5
PM11-RP527	Soil	0.2	12.6	4.1	44	<0.1	21.9	5.8	134	1.46	<0.5	3.4	1.2	30	<0.1	<0.1	0.1	38	0.17	0.073	4
PM11-RP528	Soil	0.2	13.4	3.8	43	<0.1	20.5	5.8	374	1.62	0.8	9.2	1.1	28	<0.1	<0.1	0.1	48	0.16	0.017	9
PM11-RP529	Soil	0.3	12.3	3.4	43	<0.1	19.0	5.7	274	1.58	<0.5	1.0	1.4	28	<0.1	<0.1	0.1	44	0.19	0.016	8
PM11-RP530	Soil	<0.1	4.0	2.9	60	<0.1	9.2	2.8	200	0.89	1.0	2.0	0.5	35	<0.1	<0.1	<0.1	27	0.15	0.161	2
PM11-RP531	Soil	0.2	13.7	3.1	45	<0.1	23.1	7.4	160	1.42	0.6	2.4	1.1	30	<0.1	<0.1	<0.1	38	0.17	0.059	8
PM11-RP532	Soil	0.2	43.3	4.8	49	0.2	47.8	7.9	552	1.95	1.6	3.7	2.0	63	<0.1	<0.1	<0.1	52	0.37	0.026	34
PM11-RP533	Soil	0.1	16.8	3.2	41	<0.1	22.5	4.1	130	1.30	0.8	2.5	0.9	35	<0.1	<0.1	<0.1	35	0.19	0.014	8
PM11-RP534	Soil	0.3	12.7	3.3	44	<0.1	26.4	5.4	191	1.45	1.1	0.9	1.1	34	<0.1	<0.1	<0.1	36	0.19	0.043	6
PM11-RP535	Soil	0.2	11.7	3.2	44	<0.1	23.1	5.1	166	1.38	<0.5	2.9	1.2	33	<0.1	<0.1	<0.1	34	0.14	0.020	7
PM11-RP536	Soil	0.2	9.0	2.5	61	<0.1	20.1	3.4	241	0.96	1.1	2.9	0.8	51	<0.1	<0.1	<0.1	28	0.24	0.136	4
PM11-RP537	Soil	0.2	12.6	3.6	39	<0.1	24.1	5.6	230	1.43	0.6	2.9	1.0	52	<0.1	<0.1	<0.1	38	0.19	0.018	10
PM11-RP538	Soil	0.3	11.4	3.5	43	<0.1	25.5	4.9	337	1.41	0.5	1.9	1.0	40	<0.1	<0.1	<0.1	38	0.20	0.017	7
PM11-RP539	Soil	0.2	9.7	3.2	44	<0.1	20.0	4.4	132	1.44	0.8	<0.5	0.9	32	<0.1	<0.1	<0.1	36	0.15	0.018	5
PM11-RP540	Soil	0.2	15.3	4.8	42	<0.1	46.3	5.9	145	1.59	<0.5	0.9	1.7	47	<0.1	<0.1	0.1	39	0.18	0.020	19
PM11-RP541	Soil	0.2	8.7	3.1	66	<0.1	29.4	3.6	110	1.04	0.8	<0.5	0.6	29	<0.1	<0.1	<0.1	28	0.17	0.078	5



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

Project: PLACER MTN.
 Report Date: August 13, 2011

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CERTIFICATE OF ANALYSIS

VAN11003406.1

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	
PM11-RP515	Soil	41	0.48	166	0.094	<1	1.83	0.029	0.07	<0.1	<0.01	3.5	<0.1	<0.05	6	<0.5	<0.2
PM11-RP516	Soil	43	0.57	266	0.098	<1	2.14	0.022	0.14	<0.1	0.04	5.8	<0.1	<0.05	7	<0.5	<0.2
PM11-RP517	Soil	32	0.56	131	0.122	<1	1.85	0.022	0.08	<0.1	0.02	4.0	<0.1	<0.05	6	<0.5	<0.2
PM11-RP518	Soil	38	0.65	100	0.126	<1	2.15	0.024	0.08	<0.1	0.02	4.8	<0.1	<0.05	7	<0.5	<0.2
PM11-RP519	Soil	17	0.24	155	0.097	<1	2.26	0.017	0.05	<0.1	0.02	2.0	<0.1	<0.05	9	<0.5	<0.2
PM11-RP520	Soil	29	0.61	101	0.131	<1	1.78	0.019	0.09	<0.1	<0.01	2.8	0.1	<0.05	6	<0.5	<0.2
PM11-RP521	Soil	41	0.46	139	0.085	<1	2.03	0.022	0.04	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
PM11-RP521D	Soil	38	0.42	131	0.082	<1	1.87	0.022	0.04	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
PM11-RP522	Soil	28	0.17	99	0.067	<1	1.06	0.015	0.07	<0.1	<0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
PM11-RP523	Soil	44	0.23	110	0.087	<1	1.12	0.017	0.07	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
PM11-RP524	Soil	34	0.28	171	0.097	<1	2.26	0.013	0.05	<0.1	<0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-RP525	Soil	28	0.24	159	0.074	<1	1.80	0.016	0.04	<0.1	<0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-RP526	Soil	34	0.34	155	0.074	<1	1.77	0.014	0.07	<0.1	<0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
PM11-RP527	Soil	31	0.25	151	0.074	1	1.72	0.013	0.05	<0.1	0.01	1.4	<0.1	0.16	5	<0.5	<0.2
PM11-RP528	Soil	35	0.27	104	0.084	1	1.41	0.015	0.07	<0.1	0.02	2.8	<0.1	0.12	5	<0.5	<0.2
PM11-RP529	Soil	34	0.27	111	0.083	1	1.23	0.015	0.08	<0.1	<0.01	2.5	<0.1	0.11	4	<0.5	<0.2
PM11-RP530	Soil	8	0.07	220	0.056	2	0.76	0.015	0.05	<0.1	<0.01	0.7	<0.1	0.09	4	<0.5	<0.2
PM11-RP531	Soil	34	0.31	109	0.069	<1	1.16	0.020	0.09	<0.1	0.01	2.3	<0.1	0.08	4	<0.5	<0.2
PM11-RP532	Soil	62	0.48	180	0.086	<1	1.68	0.026	0.10	<0.1	0.02	6.6	0.1	0.07	5	<0.5	<0.2
PM11-RP533	Soil	30	0.23	71	0.071	<1	1.13	0.023	0.07	<0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
PM11-RP534	Soil	34	0.25	109	0.073	<1	1.19	0.020	0.10	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-RP535	Soil	33	0.20	112	0.072	<1	0.98	0.021	0.13	<0.1	0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
PM11-RP536	Soil	19	0.13	235	0.057	<1	0.96	0.017	0.09	<0.1	0.02	1.2	<0.1	<0.05	4	<0.5	<0.2
PM11-RP537	Soil	37	0.25	125	0.074	1	0.92	0.031	0.12	<0.1	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
PM11-RP538	Soil	39	0.23	110	0.075	<1	0.89	0.026	0.08	<0.1	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
PM11-RP539	Soil	31	0.16	104	0.074	<1	0.98	0.024	0.10	<0.1	<0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
PM11-RP540	Soil	58	0.22	104	0.084	1	0.84	0.024	0.13	<0.1	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
PM11-RP541	Soil	25	0.12	162	0.060	2	1.13	0.023	0.08	<0.1	<0.01	1.4	<0.1	<0.05	4	<0.5	<0.2



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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
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																					
PM11-JC306	Soil	0.4	12.0	4.8	24	<0.1	10.9	5.4	75	1.66	1.1	<0.5	1.5	24	<0.1	<0.1	0.1	44	0.12	0.185	4
REP PM11-JC306	QC	0.3	11.1	5.1	25	<0.1	11.5	5.4	76	1.65	1.0	<0.5	1.5	25	<0.1	<0.1	0.1	43	0.12	0.182	4
PM11-JC313	Soil	0.3	10.6	4.2	23	<0.1	8.9	4.8	118	1.43	0.5	1.1	1.3	55	<0.1	<0.1	<0.1	37	0.23	0.039	4
REP PM11-JC313	QC	0.2	10.4	4.2	23	<0.1	9.3	4.7	120	1.42	0.6	<0.5	1.4	55	<0.1	<0.1	<0.1	38	0.23	0.040	4
PM11-JC332	Soil	1.6	6.1	6.5	23	<0.1	7.1	2.6	40	1.89	1.4	<0.5	1.6	7	<0.1	<0.1	0.1	42	0.06	0.322	2
REP PM11-JC332	QC	1.6	5.6	6.2	19	<0.1	6.3	2.4	36	1.80	1.4	<0.5	1.5	6	<0.1	<0.1	0.2	44	0.06	0.319	2
PM11-JC355	Soil	0.2	8.7	3.9	35	<0.1	21.5	5.1	192	1.28	<0.5	<0.5	1.1	23	<0.1	<0.1	<0.1	33	0.13	0.055	4
REP PM11-JC355	QC	0.2	9.4	4.0	39	<0.1	24.8	5.5	199	1.37	<0.5	<0.5	1.1	24	<0.1	<0.1	<0.1	34	0.13	0.058	4
PM11-JC369	Soil	0.5	18.4	4.8	60	<0.1	38.7	7.4	315	1.77	3.2	0.5	1.3	21	<0.1	<0.1	0.1	41	0.14	0.135	5
REP PM11-JC369	QC	0.6	17.4	4.8	59	<0.1	36.2	7.3	321	1.67	3.5	<0.5	1.3	20	<0.1	<0.1	0.1	39	0.15	0.139	5
PM11-JC376	Soil	0.1	6.0	4.5	21	<0.1	5.5	3.0	74	0.90	4.0	<0.5	0.6	26	<0.1	<0.1	<0.1	25	0.14	0.017	3
REP PM11-JC376	QC	0.2	5.8	4.5	21	<0.1	5.0	2.8	72	0.84	3.4	<0.5	0.8	26	<0.1	<0.1	<0.1	25	0.14	0.018	3
PM11-JC395	Soil	0.6	6.3	5.7	15	0.3	7.4	3.1	55	1.46	3.4	0.9	1.2	17	<0.1	<0.1	0.1	40	0.11	0.087	2
REP PM11-JC395	QC	0.4	6.6	5.6	17	0.3	8.2	3.1	60	1.50	3.0	<0.5	1.2	17	<0.1	0.1	<0.1	42	0.11	0.087	2
PM11-JC424	Soil	0.2	10.2	4.3	47	<0.1	20.8	5.1	170	1.57	<0.5	<0.5	1.3	32	<0.1	<0.1	0.1	36	0.25	0.032	4
REP PM11-JC424	QC	0.2	10.1	4.3	48	<0.1	20.8	5.0	177	1.64	<0.5	<0.5	1.2	32	<0.1	<0.1	<0.1	37	0.25	0.033	4
PM11-RP462	Soil	0.1	7.5	3.5	26	<0.1	8.6	4.8	104	1.61	0.8	<0.5	1.3	28	<0.1	<0.1	<0.1	42	0.15	0.013	4
REP PM11-RP462	QC	<0.1	7.4	3.6	26	<0.1	8.6	4.4	104	1.54	0.6	<0.5	1.4	28	<0.1	<0.1	<0.1	40	0.15	0.013	4
PM11-RP478	Soil	1.4	14.7	4.7	58	<0.1	15.1	7.1	452	1.85	1.6	1.3	1.3	16	<0.1	<0.1	<0.1	42	0.25	0.092	3
REP PM11-RP478	QC	1.4	13.8	4.6	57	<0.1	14.7	7.2	432	1.87	1.3	<0.5	1.4	17	<0.1	<0.1	0.1	42	0.25	0.086	3
PM11-RP496	Soil	0.4	34.4	4.7	33	<0.1	24.3	8.6	266	1.83	3.5	<0.5	0.9	21	<0.1	0.1	<0.1	50	0.28	0.048	3
REP PM11-RP496	QC	0.4	32.5	4.5	30	<0.1	22.9	8.2	253	1.72	3.2	0.6	0.7	20	<0.1	0.2	<0.1	48	0.27	0.048	3
PM11-RP505	Soil	0.3	16.6	4.3	24	0.2	13.9	4.9	123	1.40	2.6	<0.5	0.9	16	<0.1	<0.1	<0.1	34	0.16	0.102	3
REP PM11-RP505	QC	0.3	17.3	4.6	24	0.2	14.2	5.1	126	1.41	2.8	<0.5	1.0	16	<0.1	<0.1	0.1	35	0.15	0.108	3
PM11-RP516	Soil	0.7	44.3	5.3	42	0.2	40.0	10.0	571	2.36	2.5	<0.5	1.7	53	<0.1	<0.1	<0.1	61	0.62	0.034	20
REP PM11-RP516	QC	0.7	46.0	6.2	42	0.3	41.9	10.3	586	2.44	1.5	<0.5	1.6	55	0.1	<0.1	<0.1	63	0.64	0.036	20
PM11-RP531	Soil	0.2	13.7	3.1	45	<0.1	23.1	7.4	160	1.42	0.6	2.4	1.1	30	<0.1	<0.1	<0.1	38	0.17	0.059	8
REP PM11-RP531	QC	0.2	14.5	3.1	45	0.1	23.6	7.1	172	1.46	0.9	1.1	1.2	30	<0.1	<0.1	<0.1	41	0.18	0.057	8

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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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																	
PM11-JC306	Soil	16	0.18	96	0.120	<1	2.07	0.024	0.04	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
REP PM11-JC306	QC	16	0.18	98	0.123	1	2.08	0.024	0.04	<0.1	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
PM11-JC313	Soil	18	0.39	101	0.127	2	1.22	0.028	0.07	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
REP PM11-JC313	QC	19	0.38	107	0.129	1	1.24	0.028	0.07	<0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
PM11-JC332	Soil	12	0.07	54	0.109	<1	2.75	0.012	0.03	0.1	0.04	1.4	<0.1	<0.05	10	<0.5	<0.2
REP PM11-JC332	QC	9	0.07	50	0.105	1	2.55	0.011	0.03	0.2	0.04	1.2	<0.1	<0.05	9	0.6	<0.2
PM11-JC355	Soil	32	0.21	119	0.070	<1	1.59	0.016	0.05	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
REP PM11-JC355	QC	35	0.23	127	0.074	<1	1.64	0.018	0.05	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2
PM11-JC369	Soil	39	0.31	135	0.085	<1	2.09	0.015	0.06	<0.1	0.03	1.9	<0.1	<0.05	6	<0.5	<0.2
REP PM11-JC369	QC	38	0.30	133	0.081	2	2.07	0.019	0.07	<0.1	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2
PM11-JC376	Soil	9	0.18	66	0.100	<1	1.14	0.020	0.06	<0.1	0.02	1.1	<0.1	<0.05	4	<0.5	<0.2
REP PM11-JC376	QC	9	0.17	63	0.096	<1	1.12	0.021	0.06	<0.1	0.03	1.1	<0.1	<0.05	4	0.5	<0.2
PM11-JC395	Soil	8	0.07	74	0.082	<1	1.63	0.018	0.03	<0.1	0.06	1.1	<0.1	<0.05	6	<0.5	<0.2
REP PM11-JC395	QC	8	0.08	77	0.089	<1	1.72	0.019	0.03	0.1	0.05	1.2	<0.1	<0.05	6	<0.5	<0.2
PM11-JC424	Soil	32	0.24	122	0.083	<1	1.56	0.022	0.10	<0.1	<0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
REP PM11-JC424	QC	34	0.25	117	0.086	<1	1.56	0.019	0.11	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
PM11-RP462	Soil	13	0.28	87	0.128	<1	1.66	0.019	0.12	<0.1	<0.01	1.3	0.1	<0.05	5	<0.5	<0.2
REP PM11-RP462	QC	13	0.27	91	0.130	<1	1.66	0.019	0.11	<0.1	<0.01	1.3	0.1	<0.05	5	<0.5	<0.2
PM11-RP478	Soil	16	0.24	121	0.100	1	2.15	0.015	0.05	0.2	0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
REP PM11-RP478	QC	17	0.23	121	0.103	<1	2.06	0.014	0.05	0.2	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-RP496	Soil	40	0.46	113	0.086	<1	1.72	0.026	0.05	<0.1	0.04	2.4	<0.1	<0.05	5	<0.5	<0.2
REP PM11-RP496	QC	38	0.44	111	0.082	<1	1.67	0.024	0.05	<0.1	0.04	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-RP505	Soil	26	0.24	64	0.097	<1	2.00	0.022	0.03	<0.1	0.05	1.6	<0.1	<0.05	5	<0.5	<0.2
REP PM11-RP505	QC	26	0.25	66	0.097	<1	2.09	0.022	0.03	0.1	0.04	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11-RP516	Soil	43	0.57	266	0.098	<1	2.14	0.022	0.14	<0.1	0.04	5.8	<0.1	<0.05	7	<0.5	<0.2
REP PM11-RP516	QC	43	0.60	273	0.102	<1	2.24	0.023	0.14	<0.1	0.05	6.0	<0.1	<0.05	6	<0.5	<0.2
PM11-RP531	Soil	34	0.31	109	0.069	<1	1.16	0.020	0.09	<0.1	0.01	2.3	<0.1	0.08	4	<0.5	<0.2
REP PM11-RP531	QC	34	0.31	114	0.072	<1	1.14	0.020	0.09	<0.1	<0.01	2.4	<0.1	0.07	4	<0.5	<0.2

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		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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
Reference Materials																					
STD DS8	Standard	14.5	114.2	128.3	318	1.9	40.1	8.2	640	2.59	27.2	126.2	6.8	68	2.6	5.3	6.7	45	0.71	0.082	15
STD DS8	Standard	14.6	121.6	139.0	339	1.9	42.0	8.6	667	2.69	26.1	120.5	6.4	65	2.3	3.8	6.9	46	0.71	0.080	14
STD DS8	Standard	12.9	110.5	138.5	311	1.9	40.3	7.6	625	2.57	26.6	103.5	6.8	66	2.3	5.8	7.0	43	0.68	0.075	13
STD DS8	Standard	14.0	112.2	136.5	318	1.9	39.8	7.6	646	2.60	26.5	113.9	7.4	69	2.2	6.1	6.9	43	0.68	0.077	14
STD DS8	Standard	14.9	125.7	131.6	340	2.0	43.9	8.8	677	2.76	29.7	123.9	7.3	74	2.2	6.4	7.2	48	0.74	0.093	16
STD DS8	Standard	15.4	125.6	131.4	349	1.9	42.8	8.5	700	2.80	28.5	126.8	7.4	76	2.6	6.9	7.2	50	0.76	0.090	16
STD DS8	Standard	14.4	114.2	139.2	324	1.9	40.5	8.0	655	2.53	26.1	120.5	7.1	68	2.2	6.4	7.4	47	0.72	0.077	15
STD DS8	Standard	14.1	113.3	139.3	323	1.9	38.9	8.1	625	2.58	26.4	135.1	7.4	70	2.4	6.0	7.1	45	0.72	0.083	16
STD DS8	Standard	13.4	113.1	126.3	323	1.8	37.7	7.7	639	2.59	28.2	124.9	7.0	70	2.3	6.0	7.2	44	0.72	0.086	15
STD DS8	Standard	12.5	105.3	121.9	314	1.7	36.7	7.4	595	2.42	26.9	117.9	6.4	67	2.3	5.7	7.0	40	0.68	0.083	14
STD DS8	Standard	12.3	104.9	112.1	296	1.7	34.4	7.0	553	2.21	25.3	107.4	6.3	64	2.3	5.6	6.6	38	0.61	0.071	13
STD DS8	Standard	12.1	103.3	108.0	290	1.6	33.9	7.2	566	2.33	25.9	102.3	6.5	60	2.2	5.1	5.8	40	0.67	0.075	14
STD DS8	Standard	13.7	104.7	111.5	304	1.7	35.4	7.0	583	2.29	27.7	109.1	6.7	63	2.5	5.4	6.3	42	0.65	0.079	14
STD DS8	Standard	13.3	110.8	113.5	318	2.0	38.6	7.7	609	2.51	25.9	115.4	6.1	62	2.4	5.5	6.0	44	0.68	0.083	15
STD DS8	Standard	11.9	102.3	107.5	291	1.7	35.4	6.8	570	2.28	23.7	100.0	5.9	60	2.2	4.8	5.7	41	0.62	0.074	14
STD DS8	Standard	13.3	118.1	119.8	316	1.7	41.2	7.9	638	2.59	30.8	110.8	7.0	63	2.5	5.5	6.5	47	0.70	0.080	15
STD DS8	Standard	14.0	111.3	119.9	318	1.7	39.4	8.0	618	2.50	28.3	102.6	6.9	62	2.4	5.2	6.2	44	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	0.03	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

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 2446 Bidston Road
 Bill Bay BC V0R 2P4 Canada

Project: PLACER MTN.
 Report Date: August 13, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

VAN11003406.1

		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
Reference Materials																	
STD DS8	Standard	124	0.63	300	0.115	2	0.94	0.084	0.42	3.0	0.22	2.3	5.6	0.15	5	5.4	5.2
STD DS8	Standard	127	0.64	270	0.105	2	0.89	0.082	0.42	2.6	0.22	2.1	5.9	0.14	5	5.2	5.5
STD DS8	Standard	118	0.62	267	0.110	2	0.90	0.094	0.45	2.8	0.21	2.0	5.5	0.16	4	4.5	5.3
STD DS8	Standard	123	0.62	274	0.113	2	0.93	0.097	0.42	3.0	0.22	2.3	5.6	0.12	5	5.7	5.0
STD DS8	Standard	127	0.68	302	0.134	3	1.02	0.104	0.46	3.2	0.23	2.1	5.5	0.17	5	5.9	5.2
STD DS8	Standard	133	0.68	303	0.142	3	1.02	0.100	0.46	3.1	0.21	2.4	5.6	0.18	5	6.0	5.3
STD DS8	Standard	123	0.62	285	0.119	2	0.93	0.099	0.46	3.1	0.22	2.1	5.6	0.17	5	4.6	5.2
STD DS8	Standard	123	0.64	293	0.119	3	0.97	0.100	0.45	3.2	0.21	2.1	5.8	0.13	5	5.3	5.3
STD DS8	Standard	120	0.64	298	0.125	2	0.94	0.089	0.45	3.0	0.21	2.4	5.5	0.20	5	5.5	4.7
STD DS8	Standard	113	0.62	282	0.116	2	0.88	0.086	0.43	3.0	0.23	2.1	5.4	0.16	5	4.9	4.9
STD DS8	Standard	107	0.55	250	0.109	3	0.85	0.084	0.37	2.8	0.20	2.3	5.0	0.15	4	5.1	4.6
STD DS8	Standard	111	0.57	260	0.111	2	0.86	0.083	0.40	2.7	0.22	2.1	4.9	0.19	4	4.4	4.4
STD DS8	Standard	113	0.60	274	0.110	2	0.89	0.084	0.40	2.7	0.18	2.0	5.2	0.20	5	4.4	4.9
STD DS8	Standard	110	0.63	284	0.113	2	0.90	0.089	0.43	3.1	0.19	1.9	5.3	0.20	5	5.4	5.1
STD DS8	Standard	107	0.56	268	0.105	3	0.83	0.083	0.38	2.8	0.19	1.8	5.1	0.15	4	5.0	4.6
STD DS8	Standard	129	0.64	272	0.119	3	0.95	0.086	0.44	3.0	0.21	2.3	5.5	0.15	5	5.3	4.7
STD DS8	Standard	120	0.61	271	0.117	3	0.91	0.092	0.40	2.8	0.20	2.1	5.4	0.13	5	5.7	5.4
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: July 25, 2011
Report Date: August 26, 2011
Page: 1 of 6

CERTIFICATE OF ANALYSIS

VAN11003407.1

CLIENT JOB INFORMATION

Project: PLACER MTN.
Shipment ID: Shipment #5
P.O. Number
Number of Samples: 145

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 (142), SS80 (142), 1DX2 (144) with 1:1:1 Aqua Regia digestion ICP-MS analysis (15g test weight, Completed status).

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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 2446 Bidston Road
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Project: PLACER MTN.
 Report Date: August 26, 2011

Page: 2 of 6 Part 1

CERTIFICATE OF ANALYSIS

VAN11003407.1

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	
PM11-MP206	Soil		0.3	13.0	5.0	26	<0.1	14.5	3.8	104	1.16	0.7	<0.5	0.4	12	<0.1	<0.1	0.1	29	0.10	0.022	2
PM11-MP207	Soil		0.2	21.1	3.1	24	<0.1	23.1	6.9	220	1.44	1.2	<0.5	0.9	19	<0.1	0.1	<0.1	40	0.21	0.009	4
PM11-MP208	Soil		0.1	18.4	3.4	32	<0.1	17.9	5.8	134	1.34	1.1	<0.5	0.6	18	<0.1	<0.1	<0.1	36	0.19	0.011	3
PM11-MP208D	Soil		0.1	12.8	2.7	29	<0.1	11.9	3.6	70	1.26	0.7	2.4	0.3	16	<0.1	<0.1	<0.1	32	0.15	0.011	1
PM11-MP209	Soil		0.2	24.1	3.4	24	<0.1	22.6	6.8	139	1.41	1.6	1.5	0.7	18	<0.1	<0.1	<0.1	42	0.21	0.009	4
PM11-MP210	Soil		0.2	24.1	3.7	23	<0.1	22.5	4.5	85	1.17	1.6	<0.5	0.4	15	<0.1	<0.1	<0.1	33	0.14	0.012	3
PM11-MP211	Soil		0.5	12.1	4.0	32	<0.1	16.1	5.2	109	1.48	1.5	0.6	0.7	10	<0.1	<0.1	<0.1	42	0.11	0.049	2
PM11-MP212	Soil		0.6	22.9	4.3	42	<0.1	30.8	9.6	158	2.01	2.9	<0.5	1.0	15	<0.1	0.1	<0.1	53	0.14	0.071	3
PM11-MP213	Soil		0.4	26.0	3.3	36	<0.1	28.9	10.2	214	1.95	2.6	<0.5	1.1	18	<0.1	0.2	<0.1	54	0.20	0.032	4
PM11-MP214	Soil		0.6	23.3	3.7	34	<0.1	28.6	8.8	199	1.89	3.0	1.1	1.1	14	<0.1	0.2	<0.1	54	0.17	0.050	4
PM11-MP215	Soil		0.5	27.7	2.7	33	<0.1	27.8	9.1	173	1.99	3.0	0.6	1.0	15	<0.1	0.2	<0.1	58	0.19	0.041	4
PM11-MP216	Soil		0.3	25.7	3.1	32	0.1	27.0	8.0	150	1.79	2.0	1.2	0.8	14	<0.1	0.1	<0.1	52	0.19	0.039	3
PM11-MP217	Soil		0.6	29.9	4.3	40	0.2	30.3	7.8	187	1.82	3.0	0.6	1.1	15	<0.1	<0.1	0.1	48	0.15	0.073	4
PM11-MP218	Soil		0.5	17.6	2.9	34	0.1	29.0	8.3	154	1.68	2.0	<0.5	0.7	12	<0.1	0.1	<0.1	47	0.19	0.044	3
PM11-MP219	Soil		0.6	12.4	4.6	45	0.2	23.9	7.7	255	1.65	1.8	0.7	0.9	10	<0.1	<0.1	0.1	44	0.12	0.081	3
PM11-MP220	Soil		0.8	37.2	5.4	70	0.5	35.3	16.9	240	2.56	4.8	1.5	0.8	11	<0.1	0.2	0.1	75	0.15	0.062	3
PM11-MP221	Soil		0.9	24.7	4.6	99	0.1	40.0	15.3	348	2.48	2.1	<0.5	1.0	14	0.1	<0.1	<0.1	72	0.13	0.074	3
PM11-MP222	Soil		0.6	15.5	4.8	53	0.1	20.8	6.7	198	1.69	1.5	<0.5	1.1	10	<0.1	<0.1	0.1	44	0.09	0.088	2
PM11-MP223	Soil		0.5	10.5	4.9	35	0.2	10.0	4.4	129	1.52	1.6	<0.5	1.1	9	<0.1	<0.1	0.1	40	0.08	0.085	3
PM11-MP224	Soil		0.5	8.5	5.0	34	<0.1	11.1	4.1	143	1.42	1.3	<0.5	1.2	8	<0.1	<0.1	0.1	37	0.06	0.099	2
PM11-MP225	Soil		0.9	10.0	5.0	34	<0.1	16.4	4.4	81	1.71	2.1	<0.5	1.1	12	<0.1	<0.1	0.1	43	0.10	0.116	2
PM11-MP226	Soil		<0.1	12.1	6.0	25	<0.1	23.8	3.5	171	1.21	<0.5	<0.5	0.8	25	<0.1	<0.1	0.1	28	0.19	0.010	3
PM11-MP227	Soil		0.7	19.8	9.9	76	<0.1	57.2	13.9	842	2.40	1.0	<0.5	2.5	23	<0.1	<0.1	0.1	46	0.15	0.075	3
PM11-MP228	Soil		0.2	30.2	2.5	21	<0.1	19.9	4.6	114	1.42	1.0	0.5	0.6	19	<0.1	<0.1	<0.1	37	0.27	0.008	3
PM11-MP229	Soil		0.2	35.5	3.8	25	0.1	27.9	5.6	109	1.45	1.9	0.7	0.5	16	<0.1	0.1	<0.1	37	0.24	0.016	4
PM11-MP230	Soil		0.4	27.8	3.2	32	<0.1	30.7	8.5	161	1.90	2.4	0.8	0.8	17	<0.1	0.1	<0.1	52	0.24	0.026	4
PM11-MP231	Soil		0.3	24.7	2.4	29	<0.1	24.8	8.6	183	1.87	3.0	0.7	0.8	18	<0.1	0.2	<0.1	59	0.30	0.020	4
PM11-MP232	Soil		0.1	13.4	3.4	24	<0.1	16.6	3.8	103	1.18	0.9	0.6	0.5	29	<0.1	<0.1	<0.1	27	0.22	0.020	5
PM11-MP233	Soil		0.1	15.2	4.1	22	<0.1	16.4	3.4	75	1.19	0.8	<0.5	0.6	27	<0.1	<0.1	<0.1	26	0.19	0.020	5
PM11-MP234	Soil		0.2	9.5	4.8	36	<0.1	17.7	2.8	47	1.12	1.0	<0.5	0.3	11	<0.1	<0.1	<0.1	26	0.08	0.042	2

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Page: 2 of 6 Part 2

CERTIFICATE OF ANALYSIS

VAN11003407.1

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	
PM11-MP206	Soil		22	0.23	85	0.071	1	1.18	0.017	0.03	<0.1	0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
PM11-MP207	Soil		51	0.54	86	0.089	1	1.23	0.021	0.05	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PM11-MP208	Soil		34	0.32	91	0.077	1	1.19	0.025	0.03	<0.1	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PM11-MP208D	Soil		21	0.20	75	0.071	<1	1.04	0.030	0.03	<0.1	<0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
PM11-MP209	Soil		45	0.45	87	0.087	1	1.28	0.023	0.04	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PM11-MP210	Soil		27	0.27	73	0.074	1	1.07	0.021	0.03	<0.1	<0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
PM11-MP211	Soil		26	0.24	63	0.086	<1	1.23	0.016	0.02	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
PM11-MP212	Soil		43	0.42	82	0.096	1	2.03	0.020	0.04	<0.1	0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
PM11-MP213	Soil		56	0.56	115	0.086	<1	1.57	0.020	0.07	<0.1	<0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
PM11-MP214	Soil		51	0.48	101	0.093	<1	1.57	0.020	0.05	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11-MP215	Soil		55	0.54	103	0.084	<1	1.57	0.018	0.04	<0.1	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
PM11-MP216	Soil		42	0.45	90	0.093	1	1.54	0.023	0.08	<0.1	<0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-MP217	Soil		33	0.33	114	0.100	2	2.03	0.021	0.04	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11-MP218	Soil		46	0.44	78	0.082	1	1.51	0.023	0.04	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-MP219	Soil		32	0.32	110	0.092	<1	1.58	0.019	0.04	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-MP220	Soil		41	0.49	106	0.124	2	2.33	0.018	0.05	<0.1	0.02	2.5	<0.1	<0.05	7	<0.5	<0.2
PM11-MP221	Soil		39	0.50	125	0.133	1	2.48	0.020	0.07	<0.1	0.01	3.2	<0.1	<0.05	8	<0.5	<0.2
PM11-MP222	Soil		19	0.26	77	0.109	1	2.00	0.018	0.04	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11-MP223	Soil		11	0.12	46	0.106	2	1.86	0.021	0.03	<0.1	0.02	1.1	<0.1	<0.05	6	<0.5	<0.2
PM11-MP224	Soil		12	0.10	44	0.098	1	2.22	0.018	0.03	<0.1	0.03	1.1	<0.1	<0.05	6	<0.5	<0.2
PM11-MP225	Soil		19	0.15	43	0.102	1	1.99	0.018	0.04	<0.1	0.03	1.2	<0.1	<0.05	7	<0.5	<0.2
PM11-MP226	Soil		23	0.24	100	0.099	<1	1.99	0.031	0.05	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11-MP227	Soil		46	0.30	149	0.137	2	4.20	0.014	0.09	<0.1	0.01	4.1	<0.1	<0.05	10	<0.5	<0.2
PM11-MP228	Soil		37	0.41	68	0.079	<1	1.09	0.029	0.03	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PM11-MP229	Soil		38	0.39	91	0.078	<1	1.42	0.025	0.05	<0.1	<0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PM11-MP230	Soil		61	0.63	122	0.094	<1	1.61	0.024	0.05	<0.1	<0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
PM11-MP231	Soil		63	0.67	77	0.093	<1	1.18	0.026	0.04	<0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
PM11-MP232	Soil		30	0.33	82	0.071	<1	1.31	0.026	0.04	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PM11-MP233	Soil		23	0.25	87	0.062	<1	1.35	0.030	0.03	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PM11-MP234	Soil		17	0.14	64	0.076	<1	1.28	0.017	0.02	<0.1	0.01	1.0	<0.1	<0.05	7	<0.5	<0.2

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Project: PLACER MTN.
 Report Date: August 26, 2011

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CERTIFICATE OF ANALYSIS

VAN11003407.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	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	
PM11-MP235	Soil			0.1	9.4	3.5	30	<0.1	17.3	3.8	68	1.10	0.6	0.6	0.6	17	<0.1	<0.1	<0.1	26	0.14	0.015	3
PM11-MP236	Soil			0.3	16.3	1.9	27	<0.1	23.6	6.8	167	1.60	1.5	1.7	1.0	24	<0.1	0.1	<0.1	51	0.31	0.029	4
PM11-MP237	Soil			0.2	19.6	3.0	27	<0.1	26.4	5.0	126	1.60	1.1	<0.5	0.9	33	<0.1	<0.1	<0.1	41	0.33	0.016	7
PM11-MP238	Soil			0.2	19.8	3.9	33	<0.1	33.3	4.8	101	1.65	0.9	<0.5	0.7	35	<0.1	<0.1	<0.1	36	0.30	0.015	5
PM11-MP239	Soil			0.1	8.3	3.9	48	<0.1	25.0	4.2	61	1.39	1.0	1.2	0.5	24	<0.1	<0.1	<0.1	33	0.21	0.044	2
PM11-MP240	Soil			0.2	21.6	4.0	37	<0.1	35.4	7.2	196	1.69	1.1	0.7	0.9	33	<0.1	0.1	<0.1	46	0.30	0.026	8
PM11-MP241	Soil			0.3	17.4	3.6	39	<0.1	28.8	7.5	114	1.75	1.0	1.9	0.8	27	<0.1	0.1	<0.1	48	0.24	0.029	3
PM11-MP242	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
PM11-MP243	Soil			0.1	14.5	5.0	19	<0.1	16.3	4.4	288	1.11	1.0	1.5	0.6	140	0.1	<0.1	<0.1	31	0.77	0.037	29
PM11-MP244	Soil			0.7	5.9	6.4	16	<0.1	5.4	1.8	31	1.70	2.0	<0.5	1.6	11	<0.1	<0.1	0.1	43	0.05	0.236	2
PM11-MP245	Soil			0.5	3.8	5.5	9	<0.1	2.9	1.1	22	1.06	1.3	0.6	1.0	6	<0.1	<0.1	0.1	27	0.03	0.146	2
PM11-MP246	Soil			0.2	2.4	6.8	5	<0.1	2.7	0.8	10	0.82	1.1	<0.5	0.6	19	<0.1	<0.1	0.1	16	0.06	0.161	2
PM11-MP247	Soil			0.2	19.9	8.0	27	<0.1	26.0	6.4	678	1.79	2.1	<0.5	0.6	102	<0.1	<0.1	0.1	58	0.48	0.045	27
PM11-MP248	Soil			0.1	14.0	5.7	25	<0.1	17.5	5.1	144	1.52	0.8	0.7	1.2	60	<0.1	<0.1	<0.1	47	0.29	0.018	12
PM11-MP249	Soil			0.6	13.7	6.3	59	<0.1	21.8	6.8	90	2.32	2.1	0.5	2.2	21	<0.1	<0.1	0.1	51	0.12	0.249	4
PM11-MP250	Soil			0.4	7.4	5.6	14	<0.1	6.2	2.1	33	1.76	2.7	<0.5	1.6	15	<0.1	<0.1	0.1	43	0.07	0.297	5
PM11-MP251	Soil			0.2	2.9	4.3	10	<0.1	2.3	1.1	27	0.48	<0.5	<0.5	0.2	9	<0.1	<0.1	<0.1	12	0.04	0.019	2
PM11-MP252	Soil			0.4	10.6	7.1	36	<0.1	16.2	4.8	69	2.04	2.5	<0.5	1.8	36	<0.1	<0.1	0.2	48	0.15	0.217	8
PM11-MP253	Soil			0.5	24.8	5.8	53	<0.1	26.7	9.0	206	2.50	2.2	2.3	1.6	47	<0.1	0.1	<0.1	69	0.29	0.054	8
PM11-MP254	Soil			0.2	16.1	5.1	36	<0.1	22.5	6.7	155	1.71	1.1	0.6	1.3	40	<0.1	<0.1	<0.1	51	0.27	0.049	13
PM11-MP255	Soil			0.1	23.9	5.9	21	0.2	16.1	4.7	101	1.46	1.8	1.4	0.9	93	<0.1	<0.1	0.1	41	0.50	0.045	8
PM11-MP256	Soil			0.1	16.5	5.9	17	0.2	10.8	3.9	57	1.31	1.5	0.9	0.3	60	<0.1	<0.1	0.1	34	0.28	0.076	5
PM11-MP257	Soil			0.1	4.1	3.6	17	<0.1	3.8	2.4	51	0.95	<0.5	<0.5	0.5	12	<0.1	<0.1	<0.1	26	0.08	0.030	2
PM11-MP258	Soil			0.2	5.5	4.6	17	<0.1	4.5	2.3	46	0.87	<0.5	<0.5	0.5	18	<0.1	<0.1	0.1	22	0.11	0.039	2
PM11-MP259	Soil			0.6	26.3	4.3	50	<0.1	21.4	10.3	304	2.75	2.2	0.8	1.6	44	<0.1	0.1	<0.1	82	0.43	0.065	12
PM11-MP260	Soil			<0.1	7.0	4.0	22	<0.1	4.9	2.5	49	1.12	0.5	<0.5	0.6	10	<0.1	<0.1	0.1	27	0.08	0.023	2
PM11-MP261	Soil			0.1	4.2	3.7	15	<0.1	4.6	2.3	46	0.91	<0.5	<0.5	0.4	8	<0.1	<0.1	<0.1	25	0.06	0.009	3
PM11-MP262	Soil			0.3	19.2	4.6	33	<0.1	14.0	7.8	246	2.26	1.2	0.6	1.4	30	<0.1	<0.1	0.1	63	0.36	0.024	9
PM11-MP263	Soil			0.3	19.1	4.7	36	<0.1	17.3	7.7	159	2.20	1.1	<0.5	1.2	23	<0.1	0.1	0.1	67	0.22	0.019	5
PM11-MP264	Soil			0.2	5.9	4.7	13	<0.1	4.9	2.1	37	0.87	<0.5	<0.5	0.4	7	<0.1	<0.1	0.1	22	0.06	0.028	2

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Project: PLACER MTN.
 Report Date: August 26, 2011

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CERTIFICATE OF ANALYSIS

VAN11003407.1

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	
PM11-MP235	Soil			26	0.28	87	0.073	<1	1.25	0.022	0.03	<0.1	<0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PM11-MP236	Soil			56	0.58	55	0.080	1	0.88	0.031	0.04	<0.1	<0.01	3.0	<0.1	<0.05	3	<0.5	<0.2
PM11-MP237	Soil			39	0.44	71	0.080	<1	1.32	0.032	0.04	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
PM11-MP238	Soil			33	0.41	71	0.071	<1	1.86	0.032	0.05	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
PM11-MP239	Soil			20	0.24	97	0.082	<1	1.70	0.022	0.03	<0.1	0.01	1.4	<0.1	<0.05	7	<0.5	<0.2
PM11-MP240	Soil			46	0.53	86	0.078	2	1.42	0.023	0.06	<0.1	<0.01	4.2	<0.1	<0.05	5	<0.5	<0.2
PM11-MP241	Soil			46	0.52	89	0.087	2	1.35	0.022	0.08	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
PM11-MP242	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
PM11-MP243	Soil			27	0.33	184	0.071	2	1.60	0.024	0.08	<0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
PM11-MP244	Soil			13	0.06	43	0.121	<1	3.50	0.016	0.02	0.1	0.08	1.3	<0.1	<0.05	10	<0.5	<0.2
PM11-MP245	Soil			7	0.03	35	0.086	<1	1.92	0.012	0.01	<0.1	0.06	0.9	<0.1	<0.05	7	<0.5	<0.2
PM11-MP246	Soil			6	0.02	42	0.095	1	1.35	0.017	0.01	<0.1	0.02	0.6	<0.1	<0.05	9	<0.5	<0.2
PM11-MP247	Soil			47	0.40	204	0.090	2	2.40	0.029	0.06	<0.1	0.02	3.6	<0.1	<0.05	7	<0.5	<0.2
PM11-MP248	Soil			31	0.42	118	0.130	1	1.55	0.027	0.05	<0.1	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PM11-MP249	Soil			23	0.27	82	0.125	2	3.48	0.015	0.04	<0.1	0.04	2.3	<0.1	<0.05	9	<0.5	<0.2
PM11-MP250	Soil			9	0.05	44	0.112	<1	3.07	0.016	0.02	0.1	0.04	1.4	<0.1	<0.05	10	<0.5	<0.2
PM11-MP251	Soil			3	0.04	32	0.050	<1	0.38	0.014	0.01	<0.1	<0.01	0.4	<0.1	<0.05	4	<0.5	<0.2
PM11-MP252	Soil			18	0.17	95	0.127	1	3.20	0.020	0.03	0.1	0.03	2.2	<0.1	<0.05	11	<0.5	<0.2
PM11-MP253	Soil			39	0.68	144	0.150	<1	2.33	0.019	0.05	<0.1	0.01	3.3	<0.1	<0.05	8	<0.5	<0.2
PM11-MP254	Soil			24	0.41	155	0.114	<1	1.56	0.017	0.04	<0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
PM11-MP255	Soil			66	0.40	88	0.091	1	1.81	0.025	0.05	<0.1	0.03	2.7	<0.1	<0.05	6	<0.5	<0.2
PM11-MP256	Soil			33	0.23	52	0.079	1	1.60	0.020	0.04	<0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
PM11-MP257	Soil			6	0.09	41	0.077	<1	0.70	0.017	0.03	<0.1	<0.01	0.6	<0.1	<0.05	5	<0.5	<0.2
PM11-MP258	Soil			7	0.11	46	0.078	<1	0.83	0.016	0.04	<0.1	<0.01	0.6	<0.1	<0.05	6	<0.5	<0.2
PM11-MP259	Soil			31	0.73	148	0.157	1	2.02	0.017	0.21	<0.1	0.01	3.6	<0.1	<0.05	7	<0.5	<0.2
PM11-MP260	Soil			8	0.11	60	0.085	<1	1.13	0.018	0.02	<0.1	0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
PM11-MP261	Soil			6	0.08	41	0.080	<1	0.65	0.016	0.02	<0.1	<0.01	0.5	<0.1	<0.05	4	<0.5	<0.2
PM11-MP262	Soil			21	0.44	114	0.132	<1	1.73	0.022	0.07	<0.1	0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
PM11-MP263	Soil			26	0.46	105	0.145	<1	1.73	0.018	0.04	<0.1	0.01	2.7	<0.1	<0.05	6	<0.5	<0.2
PM11-MP264	Soil			8	0.09	34	0.081	<1	0.69	0.014	0.02	<0.1	<0.01	0.5	<0.1	<0.05	6	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

VAN11003407.1

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	%	%	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
PM11-MP265	Soil		0.3	19.5	5.4	29	0.1	17.4	5.4	177	1.97	0.9	1.0	1.1	31	<0.1	<0.1	0.1	46	0.33	0.019	9	
PM11-MP266	Soil		0.3	5.1	4.4	18	<0.1	4.9	2.3	44	0.79	<0.5	<0.5	0.4	8	<0.1	<0.1	0.1	23	0.09	0.019	1	
PM11-MP267	Soil		0.6	30.7	5.6	43	0.2	35.1	7.7	341	2.34	2.4	1.4	1.5	52	0.1	0.1	0.1	61	0.46	0.020	9	
PM11-MP268	Soil		0.5	29.8	5.6	41	0.2	34.6	7.7	344	2.32	2.5	1.5	1.6	50	<0.1	0.1	<0.1	61	0.44	0.021	9	
PM11-MP269	Soil		1.1	22.5	7.8	60	0.1	33.5	9.1	542	2.15	2.4	<0.5	0.7	44	0.3	0.1	0.1	62	0.45	0.042	6	
PM11-MP270	Soil		0.9	32.9	5.7	50	0.3	39.4	8.9	294	2.18	3.0	0.9	1.1	50	0.3	0.1	<0.1	66	0.56	0.032	9	
PMS-36	Rock Pulp		121.5	3718	24.8	65	2.5	38.5	21.3	406	4.30	54.5	464.1	2.1	29	0.3	3.5	0.5	127	0.34	0.090	11	
PM11-MP271	Soil		0.6	23.9	6.0	48	0.2	29.6	7.1	200	2.23	3.0	<0.5	0.8	34	0.1	<0.1	0.1	58	0.33	0.033	5	
PM11-MP272	Soil		0.9	43.9	5.1	54	<0.1	31.9	11.7	254	2.51	7.3	1.0	1.3	30	<0.1	0.3	<0.1	80	0.28	0.045	6	
PM11-MP273	Soil		0.6	21.6	6.2	28	<0.1	23.4	6.7	149	1.60	2.7	<0.5	0.8	23	<0.1	<0.1	0.1	44	0.21	0.069	5	
PM11-MP274	Soil		0.5	26.2	4.8	44	<0.1	25.9	8.6	188	1.97	3.7	0.6	0.9	27	<0.1	0.3	<0.1	59	0.20	0.064	4	
PM11-MP275	Soil		0.5	21.0	4.8	48	0.1	24.2	8.0	164	1.87	3.6	<0.5	1.0	23	<0.1	0.3	0.1	55	0.17	0.080	4	
PM11-MP276	Soil		0.2	29.1	5.1	42	0.1	29.2	7.4	529	1.74	1.8	<0.5	1.1	48	0.3	0.2	<0.1	61	0.30	0.021	13	
PM11-MP277	Soil		0.4	4.1	4.6	20	0.3	3.8	1.9	54	1.16	1.0	<0.5	0.5	9	<0.1	<0.1	0.1	30	0.06	0.080	1	
PM11-MP278	Soil		0.5	11.5	4.2	37	0.2	15.6	5.1	95	1.44	2.4	0.7	0.7	12	<0.1	0.2	0.1	39	0.08	0.078	2	
PM11-MP279	Soil		0.5	21.4	5.2	39	0.1	19.9	6.9	242	1.46	2.6	<0.5	0.7	24	<0.1	0.2	<0.1	43	0.19	0.060	3	
PM11-MP280	Soil		0.6	8.4	5.4	35	0.1	14.3	5.3	438	1.35	1.4	<0.5	1.1	10	<0.1	<0.1	0.1	31	0.07	0.131	3	
PM11-MP281	Soil		0.4	10.5	4.3	43	<0.1	9.8	5.8	358	1.46	1.5	<0.5	0.8	10	<0.1	<0.1	0.1	40	0.09	0.064	2	
PM11-MP282	Soil		0.5	11.9	5.6	41	0.2	10.9	6.1	344	1.47	2.8	<0.5	0.9	12	<0.1	0.1	0.1	40	0.12	0.066	2	
PM11-MP283	Soil		0.4	10.5	3.5	31	0.2	11.6	5.0	99	1.38	1.3	<0.5	0.8	10	<0.1	<0.1	<0.1	37	0.10	0.063	3	
PM11-MP284	Soil		0.4	16.6	5.0	27	0.1	16.7	5.2	161	1.36	2.3	<0.5	0.7	14	<0.1	0.1	<0.1	41	0.13	0.075	3	
PM11-MP285	Soil		0.2	12.3	4.6	16	<0.1	10.6	3.8	171	1.03	0.9	<0.5	0.4	16	<0.1	<0.1	<0.1	26	0.12	0.009	4	
PM11-MP286	Soil		0.6	10.4	5.4	31	<0.1	14.7	5.3	175	1.38	2.0	<0.5	1.1	11	<0.1	<0.1	0.1	34	0.09	0.110	2	
PM11-MP287	Soil		0.4	11.2	4.4	33	<0.1	15.9	6.0	218	1.49	2.4	1.1	0.8	11	<0.1	0.1	<0.1	39	0.10	0.074	2	
PM11-MP288	Soil		0.7	40.3	5.3	48	0.1	27.3	12.2	349	1.95	3.8	<0.5	1.1	22	<0.1	0.2	0.1	48	0.19	0.052	3	
PM11-MP289	Soil		0.4	17.7	4.1	35	0.2	17.4	6.4	145	1.47	2.3	<0.5	1.0	13	<0.1	<0.1	0.1	38	0.13	0.049	3	
PM11-MP290	Soil		0.3	12.8	4.2	34	0.2	12.7	5.8	153	1.51	3.6	0.5	0.9	10	0.1	0.1	0.1	39	0.11	0.060	2	
PM11-MP291	Soil		0.7	27.9	4.8	33	<0.1	23.1	7.7	144	1.62	3.4	<0.5	1.1	10	<0.1	0.1	0.1	44	0.12	0.066	2	
PM11-MP292	Soil		0.7	14.7	4.9	26	0.1	19.2	6.1	190	1.47	2.1	<0.5	0.7	13	<0.1	0.1	0.1	39	0.16	0.049	2	
PM11-MP293	Soil		0.5	28.0	3.9	31	<0.1	22.0	7.7	198	1.71	3.4	<0.5	0.9	16	<0.1	0.2	<0.1	45	0.16	0.042	3	

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Project: PLACER MTN.
 Report Date: August 26, 2011

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CERTIFICATE OF ANALYSIS

VAN11003407.1

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	
PM11-MP265	Soil			19	0.30	133	0.112	<1	2.24	0.029	0.04	<0.1	0.02	2.7	<0.1	<0.05	7	<0.5	<0.2
PM11-MP266	Soil			7	0.09	35	0.083	<1	0.54	0.014	0.02	<0.1	<0.01	0.6	<0.1	<0.05	5	<0.5	<0.2
PM11-MP267	Soil			39	0.54	182	0.129	1	2.39	0.032	0.11	<0.1	0.01	5.8	<0.1	<0.05	7	<0.5	<0.2
PM11-MP268	Soil			38	0.52	174	0.128	<1	2.35	0.032	0.11	<0.1	0.02	6.1	<0.1	<0.05	7	0.6	<0.2
PM11-MP269	Soil			31	0.49	217	0.123	<1	2.03	0.019	0.09	<0.1	0.03	3.1	<0.1	<0.05	7	<0.5	<0.2
PM11-MP270	Soil			42	0.65	210	0.122	1	1.86	0.028	0.12	<0.1	0.02	5.1	<0.1	<0.05	6	<0.5	<0.2
PMS-36	Rock Pulp			54	0.93	47	0.120	<1	1.38	0.035	0.90	4.0	0.06	10.3	0.5	2.07	6	6.4	0.8
PM11-MP271	Soil			30	0.40	198	0.113	<1	2.25	0.021	0.06	<0.1	<0.01	2.8	<0.1	<0.05	7	<0.5	<0.2
PM11-MP272	Soil			47	0.68	215	0.135	1	2.05	0.019	0.21	<0.1	0.02	3.9	0.1	<0.05	6	<0.5	<0.2
PM11-MP273	Soil			26	0.33	130	0.115	<1	1.78	0.019	0.08	<0.1	0.02	2.1	<0.1	<0.05	7	<0.5	<0.2
PM11-MP274	Soil			31	0.45	152	0.117	<1	1.78	0.017	0.13	<0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
PM11-MP275	Soil			25	0.45	141	0.106	2	1.99	0.019	0.09	<0.1	0.03	2.6	<0.1	<0.05	6	<0.5	<0.2
PM11-MP276	Soil			31	0.50	116	0.122	2	1.58	0.030	0.25	<0.1	0.02	4.2	0.2	<0.05	5	<0.5	<0.2
PM11-MP277	Soil			6	0.06	29	0.079	1	0.99	0.017	0.02	<0.1	0.03	0.8	<0.1	<0.05	5	<0.5	<0.2
PM11-MP278	Soil			16	0.22	49	0.095	3	1.53	0.017	0.03	0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11-MP279	Soil			22	0.35	140	0.099	2	1.58	0.019	0.06	<0.1	0.03	1.8	<0.1	<0.05	5	<0.5	<0.2
PM11-MP280	Soil			8	0.10	59	0.106	2	2.25	0.023	0.03	<0.1	0.03	1.1	<0.1	<0.05	6	<0.5	<0.2
PM11-MP281	Soil			14	0.18	90	0.113	2	1.68	0.022	0.03	<0.1	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11-MP282	Soil			13	0.17	68	0.112	2	2.03	0.022	0.04	<0.1	0.03	0.9	<0.1	<0.05	6	<0.5	<0.2
PM11-MP283	Soil			14	0.20	40	0.082	<1	1.52	0.031	0.02	<0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
PM11-MP284	Soil			20	0.24	89	0.087	1	1.51	0.022	0.03	<0.1	0.03	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-MP285	Soil			12	0.16	67	0.074	<1	1.06	0.025	0.03	<0.1	<0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
PM11-MP286	Soil			12	0.17	75	0.091	<1	1.83	0.020	0.03	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-MP287	Soil			16	0.22	78	0.088	<1	1.47	0.022	0.04	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-MP288	Soil			13	0.23	108	0.102	3	1.92	0.020	0.04	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
PM11-MP289	Soil			17	0.25	61	0.094	1	1.88	0.024	0.03	<0.1	0.03	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-MP290	Soil			17	0.23	52	0.097	2	1.80	0.023	0.02	<0.1	0.04	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-MP291	Soil			28	0.35	64	0.099	1	2.19	0.022	0.03	<0.1	0.03	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11-MP292	Soil			21	0.27	63	0.088	<1	1.70	0.023	0.04	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-MP293	Soil			35	0.43	96	0.089	1	1.72	0.023	0.05	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2

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Project: PLACER MTN.
 Report Date: August 26, 2011

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CERTIFICATE OF ANALYSIS

VAN11003407.1

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	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
PM11-MP294	Soil		0.5	18.0	4.5	24	<0.1	19.9	5.8	88	1.53	2.2	7.5	0.5	12	<0.1	0.1	43	0.13	0.039	2	
PM11-MP295	Soil		0.6	24.4	3.8	30	0.2	20.8	7.7	119	1.68	2.4	0.8	1.1	10	<0.1	0.1	<0.1	45	0.12	0.061	3
PM11-MP296	Soil		0.3	23.8	5.1	20	0.1	21.3	4.7	101	1.39	2.7	<0.5	0.9	15	<0.1	<0.1	0.1	36	0.11	0.063	5
PM11-MP297	Soil		0.5	30.2	5.6	25	0.2	32.8	5.2	74	1.61	3.1	<0.5	1.2	22	<0.1	<0.1	0.1	46	0.16	0.102	6
PM11-MP298	Soil		0.3	53.9	3.2	37	<0.1	43.6	13.2	242	2.43	3.2	0.9	1.2	51	<0.1	0.2	<0.1	65	0.75	0.016	5
PM11-MP299	Soil		0.2	31.6	2.8	27	<0.1	27.4	7.5	206	1.70	2.8	<0.5	1.0	29	<0.1	0.1	<0.1	48	0.30	0.013	5
PM11-MP300	Soil		0.2	44.2	5.1	34	0.2	43.7	9.8	237	2.09	1.9	2.3	1.3	46	0.1	<0.1	<0.1	46	0.38	0.032	5
PMS-37	Rock Pulp		14.1	53.4	16.2	15	0.1	14.5	2.2	106	3.35	420.9	197.9	0.8	27	0.2	24.7	0.2	8	0.89	0.005	2
PM11-MP301	Soil		0.4	14.6	5.3	38	<0.1	11.1	6.1	425	1.47	4.9	<0.5	1.5	7	<0.1	<0.1	<0.1	32	0.06	0.274	2
PM11-MP302	Soil		0.3	33.5	1.6	25	<0.1	29.7	8.5	171	1.92	4.9	0.9	0.7	18	<0.1	0.3	<0.1	53	0.22	0.017	3
PM11-MP303	Soil		0.4	15.0	3.9	29	<0.1	18.2	5.8	173	1.46	3.1	0.7	0.9	12	<0.1	0.1	<0.1	37	0.10	0.096	3
PM11-MP304	Soil		0.4	23.2	4.8	28	<0.1	26.3	7.1	100	1.60	4.0	<0.5	1.6	13	<0.1	0.1	0.1	37	0.12	0.100	5
PM11-MP305	Soil		0.3	14.5	3.7	24	<0.1	18.7	6.0	104	1.42	2.3	<0.5	0.8	17	<0.1	<0.1	<0.1	35	0.15	0.084	2
PM11-MP306	Soil		0.5	10.1	4.9	30	<0.1	18.3	6.4	152	1.60	2.7	<0.5	1.0	19	<0.1	0.1	<0.1	36	0.15	0.135	2
PM11-MP307	Soil		0.4	17.3	3.6	37	<0.1	31.3	8.5	148	1.76	4.6	<0.5	0.9	16	<0.1	0.2	<0.1	44	0.15	0.109	3
PM11-MP308	Soil		0.2	25.8	3.4	33	<0.1	28.7	8.1	268	1.90	1.8	<0.5	0.8	38	<0.1	0.1	<0.1	51	0.67	0.036	6
PM11-MP309	Soil		0.3	25.9	5.0	27	0.2	27.9	7.1	136	1.85	4.6	<0.5	0.9	12	<0.1	<0.1	0.1	46	0.15	0.118	3
PM11-MP310	Soil		0.3	24.3	4.1	27	0.2	22.7	7.3	184	1.55	2.7	0.6	0.5	13	<0.1	0.1	<0.1	42	0.23	0.040	3
PM11-MP311	Soil		0.3	33.5	4.9	32	0.2	40.0	8.5	148	1.86	5.1	<0.5	0.8	18	<0.1	0.1	0.1	46	0.18	0.082	3
PM11-MP312	Soil		0.4	122.0	3.0	42	0.1	66.0	24.7	527	2.91	13.6	4.7	0.8	14	<0.1	0.5	<0.1	81	0.46	0.038	4
PM11-MP313	Soil		0.3	88.5	2.5	36	<0.1	48.9	17.6	345	2.47	8.7	2.0	1.0	15	<0.1	0.3	<0.1	70	0.46	0.031	5
PM11-MP314	Soil		0.4	56.4	3.2	38	<0.1	38.7	13.2	418	2.26	9.1	<0.5	0.9	17	<0.1	0.3	<0.1	66	0.40	0.047	6
PM11-MP315	Soil		0.2	8.1	3.2	23	<0.1	12.3	5.3	158	1.34	1.9	<0.5	0.4	10	<0.1	<0.1	<0.1	36	0.17	0.085	2
PM11-MP316	Soil		0.5	22.1	2.8	25	<0.1	22.2	7.3	197	1.86	2.7	<0.5	0.5	13	<0.1	0.2	<0.1	49	0.33	0.018	3
PM11-MP317	Soil		0.4	18.1	3.8	26	<0.1	18.9	6.4	198	1.45	2.7	<0.5	0.6	9	<0.1	<0.1	<0.1	38	0.15	0.039	3
PM11-MP318	Soil		0.8	12.1	4.0	21	<0.1	18.6	6.3	90	1.61	3.2	0.7	0.6	9	<0.1	0.1	<0.1	44	0.16	0.060	2
PM11-MP319	Soil		0.4	17.7	3.7	31	0.1	28.5	7.3	174	1.77	3.3	<0.5	0.9	14	<0.1	<0.1	<0.1	43	0.18	0.128	3
PM11-MP320	Soil		0.5	59.7	2.0	35	<0.1	40.1	14.5	335	2.55	7.1	0.6	0.9	21	<0.1	0.3	<0.1	74	0.29	0.031	6
PM11-MP321	Soil		0.4	110.4	1.8	52	<0.1	61.5	23.9	449	3.43	7.7	0.6	0.8	20	<0.1	0.5	<0.1	105	0.36	0.034	4
PM11-MP322	Soil		0.4	47.5	2.4	35	<0.1	33.8	10.7	217	2.07	4.2	0.8	0.6	15	<0.1	0.2	<0.1	58	0.25	0.048	4

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Project: PLACER MTN.
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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
		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	
PM11-MP294	Soil	22	0.27	51	0.091	<1	1.63	0.021	0.04	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
PM11-MP295	Soil	28	0.35	68	0.090	<1	1.83	0.025	0.03	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-MP296	Soil	14	0.14	86	0.085	<1	1.83	0.021	0.03	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11-MP297	Soil	17	0.16	102	0.096	<1	2.38	0.022	0.03	0.1	0.03	1.5	<0.1	<0.05	7	<0.5	<0.2
PM11-MP298	Soil	108	1.17	133	0.089	<1	2.37	0.033	0.12	<0.1	0.02	6.0	<0.1	<0.05	6	<0.5	<0.2
PM11-MP299	Soil	47	0.59	97	0.092	<1	1.25	0.038	0.06	<0.1	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
PM11-MP300	Soil	47	0.64	148	0.090	2	1.83	0.037	0.07	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
PMS-37	Rock Pulp	19	0.02	652	0.009	3	0.15	0.007	0.06	2.2	2.88	0.6	9.9	0.14	<1	1.5	<0.2
PM11-MP301	Soil	14	0.11	57	0.102	1	3.04	0.018	0.03	0.1	0.04	1.2	<0.1	<0.05	6	<0.5	<0.2
PM11-MP302	Soil	67	0.71	91	0.072	1	1.23	0.029	0.06	<0.1	0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
PM11-MP303	Soil	21	0.22	69	0.079	<1	1.73	0.021	0.03	<0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-MP304	Soil	31	0.35	102	0.093	<1	2.53	0.024	0.05	<0.1	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2
PM11-MP305	Soil	28	0.30	56	0.077	<1	1.66	0.024	0.03	<0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-MP306	Soil	21	0.20	75	0.085	1	2.00	0.020	0.04	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11-MP307	Soil	39	0.43	99	0.072	<1	1.89	0.020	0.04	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
PM11-MP308	Soil	64	0.73	79	0.080	<1	1.91	0.027	0.05	<0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
PM11-MP309	Soil	32	0.25	122	0.074	<1	2.08	0.019	0.04	<0.1	0.03	1.8	<0.1	<0.05	7	<0.5	<0.2
PM11-MP310	Soil	42	0.39	82	0.064	1	1.40	0.018	0.04	<0.1	0.03	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-MP311	Soil	40	0.35	147	0.072	<1	2.42	0.017	0.04	<0.1	0.04	1.8	<0.1	<0.05	7	<0.5	<0.2
PM11-MP312	Soil	119	1.35	147	0.087	<1	2.01	0.028	0.18	<0.1	0.02	5.0	0.1	<0.05	6	<0.5	<0.2
PM11-MP313	Soil	104	1.10	140	0.075	1	1.68	0.034	0.11	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
PM11-MP314	Soil	73	0.73	142	0.067	2	1.66	0.025	0.12	<0.1	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
PM11-MP315	Soil	21	0.17	65	0.057	<1	1.12	0.019	0.03	<0.1	0.02	0.9	<0.1	<0.05	4	<0.5	<0.2
PM11-MP316	Soil	54	0.55	85	0.060	<1	1.36	0.020	0.04	<0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11-MP317	Soil	28	0.28	100	0.064	<1	1.48	0.016	0.06	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
PM11-MP318	Soil	32	0.26	85	0.075	<1	1.60	0.018	0.04	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
PM11-MP319	Soil	40	0.39	104	0.067	<1	1.90	0.021	0.04	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11-MP320	Soil	86	0.94	195	0.072	<1	1.46	0.032	0.11	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
PM11-MP321	Soil	138	1.46	285	0.088	<1	2.00	0.039	0.35	<0.1	0.02	6.0	<0.1	<0.05	6	<0.5	<0.2
PM11-MP322	Soil	59	0.66	149	0.065	<1	1.47	0.023	0.10	<0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	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
PM11-MP323	Soil	0.4	126.4	1.7	53	<0.1	84.7	22.7	334	3.46	10.6	<0.5	0.7	19	<0.1	0.3	<0.1	99	0.36	0.037	4
PM11-MP324	Soil	0.4	42.1	3.7	31	0.2	33.4	9.7	271	1.82	3.5	1.9	0.5	13	<0.1	0.1	<0.1	49	0.25	0.076	2
PM11-MP325	Soil	0.5	15.4	3.9	33	<0.1	21.1	6.4	115	1.71	1.1	<0.5	1.0	27	<0.1	<0.1	<0.1	40	0.19	0.099	4
PM11-MP326	Soil	0.2	7.8	3.7	61	<0.1	17.5	4.3	203	1.24	0.5	<0.5	1.3	20	<0.1	<0.1	<0.1	30	0.16	0.142	5
PM11-MP326D	Soil	0.2	7.4	3.6	60	<0.1	17.5	4.2	188	1.23	<0.5	<0.5	1.2	20	<0.1	<0.1	<0.1	29	0.17	0.135	4
PM11-MP327	Soil	0.1	8.5	3.8	53	<0.1	14.7	4.2	255	1.33	<0.5	<0.5	0.9	23	<0.1	<0.1	<0.1	31	0.19	0.024	4
PM11-MP328	Soil	0.2	8.2	3.6	51	<0.1	14.6	4.2	263	1.33	<0.5	<0.5	0.9	22	<0.1	<0.1	<0.1	31	0.17	0.026	4
PM11-MP329	Soil	0.3	9.9	4.6	77	<0.1	24.0	5.4	245	1.27	0.5	2.9	1.6	23	<0.1	<0.1	0.1	26	0.16	0.146	5
PM11-MP330	Soil	0.3	7.0	3.2	47	<0.1	12.6	4.3	318	1.21	<0.5	<0.5	0.7	19	<0.1	<0.1	<0.1	29	0.12	0.023	3
PM11-MP331	Soil	0.2	8.2	4.4	48	<0.1	26.2	6.2	293	1.62	<0.5	<0.5	1.0	32	<0.1	<0.1	<0.1	36	0.18	0.029	4
PM11-MP332	Soil	0.2	9.9	3.9	55	<0.1	20.3	5.5	246	1.54	<0.5	<0.5	0.8	39	<0.1	<0.1	<0.1	33	0.15	0.018	4
PM11-MP333	Soil	0.2	25.8	7.2	59	0.1	48.6	12.6	345	2.44	<0.5	<0.5	2.6	70	<0.1	<0.1	<0.1	54	0.36	0.041	16
PM11-MP333D	Soil	0.2	25.9	7.3	58	0.1	44.5	11.7	296	2.37	<0.5	<0.5	2.6	67	<0.1	<0.1	0.1	50	0.34	0.036	13
PM11-MP334	Soil	0.3	14.1	5.7	65	<0.1	29.2	9.2	313	1.83	<0.5	<0.5	1.6	36	<0.1	<0.1	<0.1	39	0.22	0.034	4
PM11-MP335 A	Soil	0.2	12.3	3.4	50	<0.1	42.6	6.8	120	1.47	<0.5	<0.5	1.0	31	<0.1	<0.1	<0.1	34	0.13	0.037	6
PM11-MP335 B	Soil	0.2	14.9	4.9	39	<0.1	33.8	8.1	205	1.37	0.7	<0.5	1.2	54	<0.1	<0.1	<0.1	30	0.28	0.032	7
PM11-MP336	Soil	0.6	13.2	5.4	34	<0.1	31.2	9.1	325	1.51	0.7	<0.5	1.3	59	<0.1	<0.1	<0.1	38	0.29	0.034	10
PM11-MP337	Soil	0.5	18.0	5.6	51	<0.1	40.5	9.1	292	1.69	<0.5	<0.5	2.0	79	<0.1	<0.1	<0.1	38	0.32	0.048	16
PM11-MP338	Soil	0.6	21.6	7.9	51	0.1	45.3	10.7	162	1.75	0.8	<0.5	2.2	106	<0.1	<0.1	<0.1	36	0.37	0.081	24
PM11-MP339	Soil	0.3	55.4	6.1	74	0.3	70.9	12.4	505	2.97	3.9	0.6	2.7	82	0.1	<0.1	0.1	58	0.57	0.040	31
PM11-MP340	Soil	0.3	9.3	3.9	47	0.1	16.8	4.0	80	1.12	<0.5	0.5	0.7	18	<0.1	<0.1	<0.1	24	0.09	0.082	4
PM11-MP341	Soil	0.2	13.8	4.9	66	0.1	32.4	5.6	224	1.66	<0.5	1.6	1.0	39	0.1	<0.1	0.1	34	0.20	0.064	6
PM11-MP342	Soil	0.3	4.9	4.2	56	<0.1	16.1	3.4	327	1.01	<0.5	<0.5	0.5	21	<0.1	<0.1	0.1	21	0.11	0.058	3
PM11-MP343	Soil	0.4	9.2	4.4	74	<0.1	34.7	6.1	632	1.31	<0.5	0.7	0.7	36	<0.1	<0.1	<0.1	29	0.20	0.035	5
PM11-MP344	Soil	0.2	14.4	4.1	46	<0.1	48.9	7.8	164	1.67	<0.5	0.7	1.1	36	<0.1	<0.1	<0.1	38	0.18	0.030	7



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CERTIFICATE OF ANALYSIS

VAN11003407.1

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
PM11-MP323	Soil	180	1.59	241	0.096	<1	2.17	0.042	0.30	<0.1	0.02	4.7	<0.1	<0.05	7	<0.5	<0.2
PM11-MP324	Soil	60	0.52	113	0.068	<1	1.60	0.024	0.06	<0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-MP325	Soil	34	0.38	118	0.074	<1	1.45	0.016	0.08	<0.1	<0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-MP326	Soil	15	0.14	106	0.073	1	1.37	0.023	0.05	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-MP326D	Soil	15	0.14	104	0.071	<1	1.31	0.018	0.05	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11-MP327	Soil	23	0.18	102	0.073	<1	1.26	0.017	0.08	<0.1	0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
PM11-MP328	Soil	22	0.17	101	0.074	<1	1.20	0.017	0.08	<0.1	0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
PM11-MP329	Soil	21	0.18	199	0.071	<1	1.49	0.016	0.06	<0.1	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
PM11-MP330	Soil	23	0.15	97	0.066	<1	0.97	0.015	0.06	<0.1	<0.01	1.1	<0.1	<0.05	3	<0.5	<0.2
PM11-MP331	Soil	29	0.24	133	0.090	<1	1.35	0.021	0.12	<0.1	<0.01	1.7	0.1	<0.05	4	<0.5	<0.2
PM11-MP332	Soil	26	0.22	134	0.076	<1	1.18	0.031	0.08	<0.1	0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11-MP333	Soil	62	0.63	191	0.106	1	2.04	0.033	0.20	<0.1	0.02	4.4	0.2	<0.05	6	<0.5	<0.2
PM11-MP333D	Soil	54	0.55	204	0.104	1	1.87	0.031	0.20	<0.1	0.01	4.2	0.2	<0.05	6	<0.5	<0.2
PM11-MP334	Soil	31	0.33	183	0.083	1	1.62	0.020	0.17	<0.1	0.02	2.2	0.1	<0.05	5	<0.5	<0.2
PM11-MP335 A	Soil	65	0.29	105	0.071	<1	1.19	0.019	0.08	<0.1	0.02	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11-MP335 B	Soil	42	0.33	146	0.056	2	1.26	0.024	0.14	<0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
PM11-MP336	Soil	40	0.36	166	0.050	<1	1.18	0.023	0.10	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
PM11-MP337	Soil	57	0.48	195	0.059	<1	1.40	0.024	0.11	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
PM11-MP338	Soil	72	0.45	222	0.042	<1	1.92	0.019	0.11	<0.1	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
PM11-MP339	Soil	104	0.73	161	0.087	<1	3.01	0.024	0.13	<0.1	0.04	8.7	0.1	<0.05	8	<0.5	<0.2
PM11-MP340	Soil	25	0.14	76	0.054	<1	1.08	0.015	0.06	<0.1	0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
PM11-MP341	Soil	37	0.29	158	0.087	<1	1.55	0.019	0.15	<0.1	<0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-MP342	Soil	17	0.12	98	0.063	<1	1.03	0.018	0.06	<0.1	0.02	0.7	<0.1	<0.05	4	<0.5	<0.2
PM11-MP343	Soil	49	0.24	131	0.080	<1	1.22	0.017	0.09	<0.1	0.02	1.2	<0.1	<0.05	4	<0.5	<0.2
PM11-MP344	Soil	75	0.34	116	0.093	<1	1.32	0.021	0.09	<0.1	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2



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QUALITY CONTROL REPORT

VAN11003407.1

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
PM11-MP210	Soil			0.2	24.1	3.7	23	<0.1	22.5	4.5	85	1.17	1.6	<0.5	0.4	15	<0.1	<0.1	<0.1	33	0.14	0.012	3
REP PM11-MP210	QC			0.2	24.0	3.6	22	<0.1	21.4	4.5	84	1.13	1.6	<0.5	0.4	15	<0.1	<0.1	<0.1	33	0.14	0.012	3
PM11-MP234	Soil			0.2	9.5	4.8	36	<0.1	17.7	2.8	47	1.12	1.0	<0.5	0.3	11	<0.1	<0.1	<0.1	26	0.08	0.042	2
REP PM11-MP234	QC			0.2	9.8	4.7	36	<0.1	18.6	2.9	48	1.13	0.9	14.1	0.3	11	<0.1	<0.1	0.1	26	0.08	0.040	2
PM11-MP253	Soil			0.5	24.8	5.8	53	<0.1	26.7	9.0	206	2.50	2.2	2.3	1.6	47	<0.1	0.1	<0.1	69	0.29	0.054	8
REP PM11-MP253	QC			0.5	24.7	5.8	55	<0.1	26.8	9.1	203	2.47	2.1	1.4	1.6	46	<0.1	0.1	<0.1	69	0.29	0.056	8
PM11-MP264	Soil			0.2	5.9	4.7	13	<0.1	4.9	2.1	37	0.87	<0.5	<0.5	0.4	7	<0.1	<0.1	0.1	22	0.06	0.028	2
REP PM11-MP264	QC			0.2	5.9	5.9	14	<0.1	4.8	2.2	39	0.88	<0.5	0.5	0.4	8	0.1	<0.1	0.1	23	0.07	0.027	2
PM11-MP275	Soil			0.5	21.0	4.8	48	0.1	24.2	8.0	164	1.87	3.6	<0.5	1.0	23	<0.1	0.3	0.1	55	0.17	0.080	4
REP PM11-MP275	QC			0.5	21.4	4.9	50	0.1	24.4	8.6	170	1.95	3.6	<0.5	1.0	23	<0.1	0.3	0.1	56	0.18	0.081	4
PM11-MP304	Soil			0.4	23.2	4.8	28	<0.1	26.3	7.1	100	1.60	4.0	<0.5	1.6	13	<0.1	0.1	0.1	37	0.12	0.100	5
REP PM11-MP304	QC			0.4	22.4	4.4	27	<0.1	25.4	6.7	95	1.56	3.5	<0.5	1.4	12	<0.1	0.1	<0.1	36	0.11	0.100	4
PM11-MP311	Soil			0.3	33.5	4.9	32	0.2	40.0	8.5	148	1.86	5.1	<0.5	0.8	18	<0.1	0.1	0.1	46	0.18	0.082	3
REP PM11-MP311	QC			0.3	32.6	4.7	30	0.2	37.8	8.2	155	1.77	5.3	<0.5	0.8	17	<0.1	0.1	<0.1	44	0.17	0.081	3
PM11-MP327	Soil			0.1	8.5	3.8	53	<0.1	14.7	4.2	255	1.33	<0.5	<0.5	0.9	23	<0.1	<0.1	<0.1	31	0.19	0.024	4
REP PM11-MP327	QC			0.2	8.0	3.6	49	<0.1	14.4	3.9	246	1.28	<0.5	<0.5	0.9	22	<0.1	<0.1	<0.1	30	0.18	0.024	4
Reference Materials																							
STD DS8	Standard			13.0	116.2	124.2	321	2.0	40.5	8.0	618	2.54	26.5	111.4	6.8	66	2.6	5.8	7.0	44	0.69	0.080	15
STD DS8	Standard			13.7	120.0	125.7	331	1.9	40.9	8.2	637	2.60	26.3	116.3	7.0	67	2.6	5.8	6.9	45	0.70	0.083	15
STD DS8	Standard			14.1	118.7	128.3	326	1.9	41.1	8.1	634	2.55	25.2	118.5	7.3	69	2.2	5.8	7.0	46	0.74	0.081	16
STD DS8	Standard			13.7	117.8	129.1	323	1.8	41.2	7.9	618	2.48	25.1	113.5	7.1	66	2.3	5.7	6.9	43	0.69	0.078	15
STD DS8	Standard			14.5	120.2	126.5	324	1.8	41.1	8.2	636	2.54	25.1	117.2	7.2	70	2.7	5.8	7.0	47	0.71	0.077	16
STD DS8	Standard			14.6	121.3	128.4	326	1.8	41.3	8.2	634	2.54	25.3	115.2	7.2	71	2.4	5.9	6.9	47	0.71	0.079	16
STD DS8	Standard			12.5	102.5	117.0	292	1.7	36.8	7.2	592	2.37	23.9	99.7	6.3	60	2.3	5.3	6.2	41	0.67	0.076	14
STD DS8	Standard			11.5	102.3	115.2	286	1.7	35.3	7.1	568	2.30	23.0	114.9	6.2	56	2.3	4.9	6.1	41	0.64	0.077	13
STD DS8	Standard			11.2	95.3	123.1	289	1.8	33.1	6.7	569	2.30	22.7	109.7	6.9	67	2.1	5.9	6.9	36	0.61	0.074	15
STD DS8	Standard			11.2	101.0	130.9	303	1.9	35.7	6.7	565	2.27	23.9	106.5	7.1	70	2.2	6.1	7.4	39	0.65	0.080	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

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Project: PLACER MTN.
Report Date: August 26, 2011

Page: 1 of 2 **Part** 2

QUALITY CONTROL REPORT

VAN11003407.1

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																	
PM11-MP210	Soil	27	0.27	73	0.074	1	1.07	0.021	0.03	<0.1	<0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
REP PM11-MP210	QC	27	0.27	75	0.074	1	1.08	0.021	0.03	<0.1	<0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
PM11-MP234	Soil	17	0.14	64	0.076	<1	1.28	0.017	0.02	<0.1	0.01	1.0	<0.1	<0.05	7	<0.5	<0.2
REP PM11-MP234	QC	17	0.14	63	0.078	<1	1.29	0.017	0.02	<0.1	<0.01	1.0	<0.1	<0.05	7	<0.5	<0.2
PM11-MP253	Soil	39	0.68	144	0.150	<1	2.33	0.019	0.05	<0.1	0.01	3.3	<0.1	<0.05	8	<0.5	<0.2
REP PM11-MP253	QC	38	0.67	146	0.147	1	2.28	0.018	0.05	<0.1	0.01	3.3	<0.1	<0.05	8	<0.5	<0.2
PM11-MP264	Soil	8	0.09	34	0.081	<1	0.69	0.014	0.02	<0.1	<0.01	0.5	<0.1	<0.05	6	<0.5	<0.2
REP PM11-MP264	QC	8	0.09	35	0.084	<1	0.70	0.016	0.02	<0.1	0.01	0.6	<0.1	<0.05	6	<0.5	<0.2
PM11-MP275	Soil	25	0.45	141	0.106	2	1.99	0.019	0.09	<0.1	0.03	2.6	<0.1	<0.05	6	<0.5	<0.2
REP PM11-MP275	QC	26	0.45	146	0.108	3	2.02	0.018	0.10	<0.1	0.03	2.5	<0.1	<0.05	6	<0.5	<0.2
PM11-MP304	Soil	31	0.35	102	0.093	<1	2.53	0.024	0.05	<0.1	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2
REP PM11-MP304	QC	30	0.33	99	0.089	<1	2.43	0.021	0.04	<0.1	0.03	2.2	<0.1	<0.05	6	<0.5	<0.2
PM11-MP311	Soil	40	0.35	147	0.072	<1	2.42	0.017	0.04	<0.1	0.04	1.8	<0.1	<0.05	7	<0.5	<0.2
REP PM11-MP311	QC	40	0.33	140	0.069	<1	2.35	0.016	0.04	<0.1	0.03	1.8	<0.1	<0.05	7	<0.5	<0.2
PM11-MP327	Soil	23	0.18	102	0.073	<1	1.26	0.017	0.08	<0.1	0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
REP PM11-MP327	QC	22	0.16	99	0.071	<1	1.18	0.017	0.07	<0.1	0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	120	0.62	275	0.117	2	0.90	0.085	0.41	2.8	0.20	2.3	5.5	0.20	5	4.4	4.5
STD DS8	Standard	123	0.63	276	0.122	2	0.92	0.088	0.43	3.0	0.21	2.3	5.5	0.20	5	5.6	5.1
STD DS8	Standard	126	0.64	295	0.135	3	0.93	0.089	0.42	3.3	0.20	2.3	5.7	0.17	5	5.8	5.4
STD DS8	Standard	122	0.61	281	0.124	3	0.90	0.083	0.41	3.1	0.20	2.2	5.5	0.16	5	5.1	5.1
STD DS8	Standard	128	0.62	283	0.135	3	0.92	0.087	0.41	3.1	0.20	2.3	5.5	0.17	5	5.1	5.5
STD DS8	Standard	126	0.63	285	0.132	3	0.94	0.086	0.42	3.1	0.20	2.2	5.5	0.16	5	5.8	5.0
STD DS8	Standard	113	0.59	263	0.104	3	0.86	0.084	0.39	3.0	0.19	1.8	5.1	0.17	4	4.6	4.8
STD DS8	Standard	109	0.56	257	0.093	2	0.82	0.080	0.37	2.7	0.19	1.7	5.1	0.15	4	4.9	4.8
STD DS8	Standard	103	0.56	257	0.111	4	0.83	0.085	0.39	2.6	0.20	2.3	5.0	0.17	4	4.9	4.3
STD DS8	Standard	109	0.59	257	0.115	3	0.87	0.089	0.42	2.6	0.21	2.4	5.4	0.16	4	5.0	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

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Project: PLACER MTN.

Report Date: August 26, 2011

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QUALITY CONTROL REPORT

VAN11003407.1

		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	0.8	<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

VAN11003407.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	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
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: July 25, 2011
Report Date: August 10, 2011
Page: 1 of 9

CERTIFICATE OF ANALYSIS

VAN11003408.1

CLIENT JOB INFORMATION

Project: PLACER MTN.
Shipment ID: Shipment #5
P.O. Number
Number of Samples: 228

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
Bill 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 (222), SS80 (222), 1DX2 (226) with 1:1:1 Aqua Regia digestion ICP-MS analysis (15g test weight, Completed status).

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: PLACER MTN.
 Report Date: August 10, 2011

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CERTIFICATE OF ANALYSIS

VAN11003408.1

Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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	
PM11-JF454	Soil	0.4	8.3	4.6	30	<0.1	9.0	3.9	88	1.31	1.3	2.3	1.1	18	<0.1	<0.1	0.1	33	0.10	0.200	3
PM11-JF455	Soil	0.2	13.3	5.7	14	<0.1	8.4	2.5	116	0.81	1.3	0.6	0.7	80	<0.1	0.1	0.1	28	0.39	0.030	14
PM11-JF456	Soil	0.2	16.1	6.5	15	<0.1	10.9	3.0	69	1.02	1.4	1.0	1.5	69	<0.1	<0.1	0.1	26	0.30	0.044	16
PM11-JF457	Soil	0.2	10.0	5.1	23	<0.1	7.3	3.7	94	1.29	1.3	<0.5	1.2	43	<0.1	<0.1	<0.1	34	0.23	0.078	5
PM11-JF458	Soil	0.1	9.0	5.5	13	<0.1	5.9	2.3	51	0.77	0.9	<0.5	0.5	45	<0.1	<0.1	0.1	21	0.23	0.014	4
PM11-JF459	Soil	<0.1	8.5	4.8	13	<0.1	4.9	2.1	55	0.71	0.7	<0.5	0.4	52	<0.1	<0.1	0.1	21	0.26	0.015	4
PM11-JF460	Soil	0.2	8.0	5.7	11	<0.1	4.2	1.6	31	0.62	0.6	<0.5	0.7	21	<0.1	<0.1	0.1	19	0.09	0.026	4
PM11-JF461	Soil	0.2	8.0	4.4	22	<0.1	8.7	3.6	95	1.10	<0.5	<0.5	1.2	43	<0.1	<0.1	<0.1	28	0.20	0.014	4
PM11-JF462	Soil	0.1	7.9	4.5	25	<0.1	7.1	3.6	176	0.92	<0.5	<0.5	0.8	36	<0.1	<0.1	<0.1	30	0.22	0.032	8
PM11-JF463	Soil	0.2	8.5	4.3	25	<0.1	6.9	4.0	240	0.98	<0.5	<0.5	0.9	40	<0.1	<0.1	<0.1	34	0.25	0.033	11
PM11-JF464	Soil	0.1	2.8	2.8	7	<0.1	1.9	0.7	25	0.26	<0.5	<0.5	<0.1	24	<0.1	<0.1	<0.1	8	0.10	0.020	3
PM11-JF465	Soil	0.2	8.6	4.5	20	<0.1	7.6	5.4	271	1.30	1.7	<0.5	2.1	56	<0.1	<0.1	<0.1	40	0.29	0.040	7
PM11-JF466	Soil	0.3	10.5	5.3	22	<0.1	9.4	6.7	445	1.40	2.2	29.0	2.4	70	<0.1	<0.1	<0.1	48	0.33	0.044	10
PM11-JF467	Soil	0.2	9.2	4.8	21	<0.1	8.8	5.1	202	1.29	1.7	4.8	2.4	61	<0.1	<0.1	<0.1	38	0.31	0.041	8
PM11-JF468	Soil	0.5	6.8	5.7	35	<0.1	4.5	4.7	153	1.48	1.4	4.9	1.3	40	<0.1	<0.1	<0.1	39	0.46	0.021	4
PM11-JF469	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.
PM11-JF470	Soil	0.3	7.5	5.2	26	0.1	5.9	3.4	59	0.94	1.2	<0.5	0.7	11	<0.1	<0.1	<0.1	26	0.09	0.020	3
PM11-JF471	Soil	0.2	6.0	5.1	24	0.1	4.8	2.6	54	0.80	0.8	<0.5	0.5	10	<0.1	<0.1	<0.1	24	0.08	0.017	2
PM11-JF472	Soil	0.4	7.7	5.7	27	0.1	6.5	3.3	70	0.86	1.0	<0.5	0.7	11	<0.1	<0.1	<0.1	24	0.09	0.019	3
PM11-JF473	Soil	0.3	8.1	5.5	25	0.1	6.5	3.4	67	0.88	1.0	<0.5	0.7	10	<0.1	<0.1	<0.1	24	0.08	0.017	3
PM11-JF474	Soil	2.1	18.7	5.2	57	0.3	14.0	5.1	160	1.86	3.6	0.8	1.4	13	0.2	0.1	<0.1	78	0.11	0.086	4
PM11-JF475	Soil	2.3	22.1	5.0	64	0.3	17.4	6.5	180	2.02	3.7	<0.5	1.7	16	0.1	0.1	<0.1	85	0.14	0.096	4
PM11-JF476	Soil	0.6	11.4	4.6	27	0.2	11.9	4.7	190	1.57	2.1	<0.5	1.2	17	<0.1	<0.1	<0.1	46	0.16	0.086	3
PM11-JF477	Soil	0.5	12.4	4.8	29	0.2	11.4	4.9	102	1.43	1.4	<0.5	1.0	18	<0.1	<0.1	<0.1	42	0.15	0.045	4
PM11-JF478	Soil	0.4	10.7	4.6	24	0.2	9.4	4.4	85	1.29	0.9	<0.5	0.8	19	<0.1	<0.1	<0.1	36	0.16	0.044	4
PM11-JF479	Soil	0.4	12.4	4.5	26	0.1	10.6	5.1	103	1.49	1.0	0.5	1.3	20	<0.1	<0.1	<0.1	44	0.17	0.038	4
PM11-JF480	Soil	0.6	15.7	3.1	36	<0.1	13.8	6.8	138	1.98	2.8	<0.5	1.1	18	<0.1	0.1	<0.1	61	0.19	0.052	4
PM11-JF481	Soil	0.7	13.1	5.5	33	0.2	18.7	7.0	98	1.85	3.0	<0.5	1.0	16	<0.1	0.1	0.1	45	0.12	0.125	4
PM11-JF482	Soil	0.7	16.3	5.0	36	0.2	20.6	7.9	130	1.85	3.5	0.9	1.0	20	<0.1	0.1	<0.1	49	0.16	0.093	4
PM11-JF483	Soil	0.5	22.1	4.0	38	<0.1	30.6	12.2	378	1.82	3.2	<0.5	0.6	27	<0.1	<0.1	<0.1	57	0.20	0.025	5

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 Report Date: August 10, 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	
PM11-JF454	Soil			15	0.13	68	0.073	<1	1.93	0.012	0.03	<0.1	0.03	1.6	<0.1	0.09	6	<0.5	<0.2
PM11-JF455	Soil			34	0.20	99	0.047	<1	1.16	0.018	0.06	<0.1	0.03	3.1	<0.1	0.10	3	<0.5	<0.2
PM11-JF456	Soil			41	0.20	115	0.064	<1	1.48	0.015	0.09	<0.1	0.03	4.0	<0.1	0.09	4	<0.5	<0.2
PM11-JF457	Soil			17	0.24	80	0.082	<1	1.08	0.012	0.08	<0.1	0.02	1.7	<0.1	0.08	6	<0.5	<0.2
PM11-JF458	Soil			15	0.18	81	0.064	<1	1.02	0.021	0.05	<0.1	<0.01	1.4	<0.1	0.06	3	<0.5	<0.2
PM11-JF459	Soil			12	0.16	78	0.058	<1	0.83	0.021	0.05	<0.1	0.01	1.1	<0.1	0.06	4	<0.5	<0.2
PM11-JF460	Soil			12	0.09	53	0.067	<1	0.85	0.014	0.04	<0.1	0.01	1.0	<0.1	0.06	4	<0.5	<0.2
PM11-JF461	Soil			14	0.28	112	0.096	<1	1.03	0.029	0.09	<0.1	<0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
PM11-JF462	Soil			12	0.17	99	0.070	<1	1.11	0.030	0.05	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
PM11-JF463	Soil			13	0.17	101	0.071	<1	1.13	0.031	0.05	<0.1	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
PM11-JF464	Soil			3	0.05	35	0.026	<1	0.36	0.014	0.02	<0.1	0.02	0.5	<0.1	<0.05	3	<0.5	<0.2
PM11-JF465	Soil			21	0.26	89	0.090	<1	1.25	0.020	0.06	<0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
PM11-JF466	Soil			25	0.28	108	0.095	<1	1.47	0.018	0.07	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JF467	Soil			21	0.27	94	0.094	<1	1.37	0.020	0.07	<0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
PM11-JF468	Soil			7	0.35	77	0.121	<1	1.12	0.017	0.05	<0.1	0.01	1.6	<0.1	0.07	6	<0.5	<0.2
PM11-JF469	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.
PM11-JF470	Soil			7	0.14	85	0.089	<1	1.17	0.024	0.03	<0.1	0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
PM11-JF471	Soil			6	0.12	71	0.079	<1	0.93	0.019	0.02	<0.1	<0.01	0.8	<0.1	<0.05	4	<0.5	<0.2
PM11-JF472	Soil			7	0.15	99	0.083	<1	1.10	0.017	0.03	<0.1	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
PM11-JF473	Soil			7	0.15	95	0.086	<1	1.16	0.019	0.03	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
PM11-JF474	Soil			20	0.34	140	0.117	<1	1.59	0.013	0.08	<0.1	0.03	2.5	<0.1	<0.05	6	<0.5	<0.2
PM11-JF475	Soil			25	0.41	159	0.130	<1	1.85	0.015	0.09	0.1	0.02	2.8	<0.1	0.06	6	<0.5	<0.2
PM11-JF476	Soil			14	0.22	106	0.097	<1	1.26	0.012	0.05	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
PM11-JF477	Soil			16	0.27	115	0.108	<1	1.36	0.014	0.06	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11-JF478	Soil			13	0.23	108	0.098	<1	1.23	0.016	0.05	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JF479	Soil			16	0.26	110	0.105	<1	1.33	0.015	0.06	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11-JF480	Soil			21	0.38	116	0.128	<1	1.38	0.016	0.10	<0.1	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-JF481	Soil			18	0.25	200	0.106	<1	1.67	0.015	0.06	<0.1	0.02	1.9	<0.1	<0.05	8	<0.5	<0.2
PM11-JF482	Soil			22	0.33	202	0.107	<1	1.68	0.013	0.07	<0.1	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2
PM11-JF483	Soil			55	0.57	278	0.122	<1	1.68	0.028	0.05	<0.1	0.02	2.4	<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
		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
		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
PM11-JF484	Soil	0.5	21.6	4.0	35	0.1	24.2	7.0	147	1.70	2.2	<0.5	1.1	24	<0.1	<0.1	<0.1	53	0.18	0.041	5
PM11-JF485	Soil	0.5	19.8	4.1	33	0.1	23.4	6.4	124	1.58	1.9	<0.5	0.8	24	<0.1	<0.1	<0.1	49	0.17	0.034	4
PM11-JF486	Soil	0.7	13.4	4.0	24	0.2	19.7	6.0	54	1.60	2.3	<0.5	1.2	16	<0.1	<0.1	<0.1	50	0.08	0.125	3
PM11-JF487	Soil	0.5	11.6	3.8	24	0.1	15.6	5.9	62	1.51	1.7	<0.5	1.2	15	<0.1	<0.1	<0.1	44	0.09	0.122	3
PM11-JF488	Soil	0.9	16.1	3.6	30	<0.1	13.0	5.2	89	1.63	1.1	<0.5	0.9	16	<0.1	<0.1	<0.1	55	0.14	0.087	3
PM11-JF489	Soil	0.6	19.9	5.4	41	<0.1	24.2	8.0	125	1.85	1.0	1.9	1.5	25	<0.1	0.1	0.1	46	0.12	0.106	6
PM11-JF490	Soil	0.5	19.9	4.2	43	<0.1	23.4	7.0	121	1.86	1.8	1.8	1.5	44	<0.1	0.1	<0.1	46	0.23	0.115	6
PM11-JF491	Soil	0.5	21.1	5.9	59	0.2	21.8	6.5	168	1.99	2.0	<0.5	2.2	49	0.1	<0.1	<0.1	63	0.40	0.052	9
PM11-JF492	Soil	8.2	56.1	9.2	66	0.5	70.7	27.3	9374	5.05	14.9	0.7	2.6	134	1.3	0.4	0.2	182	0.95	0.140	33
PM11-JF493	Soil	0.9	27.0	11.9	92	0.2	17.5	6.1	221	1.89	3.0	0.8	1.4	49	0.2	0.2	<0.1	57	0.51	0.061	10
PM11-JF494	Soil	1.2	26.9	5.6	54	0.1	21.2	7.2	401	2.05	2.5	<0.5	1.7	68	0.3	<0.1	<0.1	60	0.64	0.072	10
PM11-JF495	Soil	0.4	7.0	4.1	44	0.1	14.6	4.0	69	1.37	<0.5	2.6	1.0	12	<0.1	<0.1	<0.1	31	0.07	0.159	3
PM11-JF496	Soil	0.3	7.8	4.5	44	<0.1	21.7	4.9	94	1.36	<0.5	<0.5	0.9	21	<0.1	<0.1	<0.1	27	0.12	0.140	3
PM11-JF497	Soil	0.1	7.7	3.5	63	<0.1	16.5	2.9	112	0.98	<0.5	<0.5	1.0	21	0.1	<0.1	<0.1	23	0.15	0.120	3
PM11-JF498	Soil	0.2	5.1	3.0	51	<0.1	9.2	3.1	270	0.95	<0.5	<0.5	0.6	16	<0.1	<0.1	<0.1	22	0.11	0.097	2
PM11-JF499	Soil	0.2	12.4	3.7	40	<0.1	21.9	5.7	143	1.62	<0.5	<0.5	1.3	28	<0.1	<0.1	<0.1	35	0.17	0.026	5
PM11-JF500	Soil	0.2	10.1	3.2	39	<0.1	17.9	4.4	174	1.37	<0.5	<0.5	0.9	26	<0.1	<0.1	<0.1	30	0.18	0.020	4
PMS-32	Rock Pulp	111.0	3629	23.0	59	2.4	34.8	19.7	391	4.19	52.2	431.5	2.0	28	0.3	3.2	0.4	113	0.31	0.090	10
PM11-JF501	Soil	0.2	8.6	3.0	48	<0.1	19.1	4.4	150	1.30	<0.5	0.7	0.8	23	<0.1	<0.1	<0.1	31	0.14	0.028	3
PM11-JF502	Soil	0.2	6.2	3.5	51	<0.1	13.4	3.9	174	1.18	<0.5	<0.5	0.6	17	<0.1	<0.1	<0.1	28	0.13	0.062	2
PM11-JF503	Soil	0.3	9.5	4.4	46	<0.1	21.3	5.3	402	1.37	<0.5	1.9	0.8	21	<0.1	<0.1	<0.1	32	0.16	0.036	3
PM11-JF504	Soil	0.2	12.8	4.3	45	<0.1	24.3	5.5	113	1.42	<0.5	<0.5	1.4	27	<0.1	<0.1	<0.1	31	0.20	0.062	5
PM11-JF505	Soil	0.3	9.1	4.7	40	<0.1	21.7	4.9	196	1.41	<0.5	3.2	1.5	26	<0.1	<0.1	0.1	30	0.19	0.186	5
PM11-JF506	Soil	0.3	9.5	4.9	47	<0.1	20.6	4.6	274	1.31	<0.5	4.0	1.3	27	<0.1	<0.1	<0.1	30	0.19	0.168	5
PM11-JF507	Soil	0.3	9.5	5.0	41	<0.1	21.7	4.8	204	1.41	<0.5	<0.5	1.4	30	<0.1	<0.1	0.1	31	0.21	0.171	5
PM11-JF508	Soil	0.1	21.6	3.5	27	<0.1	22.1	4.7	148	1.53	<0.5	2.1	1.5	38	<0.1	<0.1	<0.1	36	0.27	0.018	11
PM11-JF509	Soil	0.1	17.4	4.7	31	0.1	20.2	3.5	105	1.36	<0.5	<0.5	1.2	39	<0.1	<0.1	<0.1	29	0.24	0.015	10
PM11-JF510	Soil	0.1	17.5	3.9	30	<0.1	21.4	4.1	126	1.41	<0.5	1.8	1.3	41	<0.1	<0.1	<0.1	33	0.26	0.016	11
PM11-JF511	Soil	0.2	5.4	3.1	29	<0.1	9.9	2.6	107	0.92	<0.5	<0.5	0.3	20	<0.1	<0.1	<0.1	24	0.10	0.020	3
PM11-JF512	Soil	0.1	8.4	2.9	31	<0.1	16.8	3.5	154	1.20	<0.5	<0.5	0.5	25	<0.1	<0.1	<0.1	29	0.13	0.017	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	
PM11-JF484	Soil			37	0.45	212	0.123	<1	1.41	0.018	0.11	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
PM11-JF485	Soil			32	0.40	197	0.115	<1	1.37	0.017	0.09	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11-JF486	Soil			20	0.17	92	0.110	<1	2.06	0.013	0.08	<0.1	0.03	2.2	<0.1	<0.05	6	<0.5	<0.2
PM11-JF487	Soil			17	0.15	80	0.099	<1	1.91	0.022	0.06	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
PM11-JF488	Soil			17	0.31	82	0.120	<1	1.44	0.011	0.10	<0.1	0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
PM11-JF489	Soil			27	0.33	131	0.096	1	1.96	0.016	0.07	<0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
PM11-JF490	Soil			28	0.46	176	0.096	<1	1.83	0.015	0.12	0.1	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
PM11-JF491	Soil			37	0.57	203	0.139	2	1.87	0.020	0.24	<0.1	0.02	4.5	0.1	<0.05	6	<0.5	<0.2
PM11-JF492	Soil			77	0.60	571	0.100	2	3.96	0.020	0.15	0.2	0.10	7.9	0.2	<0.05	11	1.3	<0.2
PM11-JF493	Soil			26	0.56	224	0.104	<1	1.53	0.020	0.24	<0.1	0.03	4.7	0.2	<0.05	5	<0.5	<0.2
PM11-JF494	Soil			34	0.63	209	0.120	2	1.51	0.023	0.25	<0.1	0.02	4.7	0.1	<0.05	5	<0.5	<0.2
PM11-JF495	Soil			19	0.14	66	0.076	<1	1.56	0.019	0.03	<0.1	0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11-JF496	Soil			22	0.15	91	0.071	<1	1.73	0.018	0.04	<0.1	0.03	1.2	<0.1	<0.05	5	<0.5	<0.2
PM11-JF497	Soil			12	0.12	95	0.072	2	1.18	0.023	0.05	<0.1	<0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
PM11-JF498	Soil			11	0.10	114	0.059	<1	0.94	0.018	0.04	<0.1	0.01	0.9	<0.1	<0.05	4	<0.5	<0.2
PM11-JF499	Soil			47	0.26	103	0.082	1	1.49	0.017	0.09	<0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
PM11-JF500	Soil			37	0.22	81	0.071	<1	1.13	0.017	0.09	<0.1	<0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
PMS-32	Rock Pulp			48	0.88	45	0.104	<1	1.31	0.034	0.91	4.0	0.07	8.8	0.5	1.84	5	7.4	0.9
PM11-JF501	Soil			31	0.20	90	0.073	<1	1.34	0.016	0.04	<0.1	0.02	1.2	<0.1	<0.05	4	<0.5	<0.2
PM11-JF502	Soil			18	0.15	80	0.067	1	1.12	0.016	0.04	<0.1	0.02	1.2	<0.1	<0.05	4	0.5	<0.2
PM11-JF503	Soil			33	0.25	112	0.077	1	1.73	0.016	0.05	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
PM11-JF504	Soil			32	0.27	168	0.079	<1	1.96	0.016	0.08	<0.1	0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-JF505	Soil			19	0.14	105	0.081	2	1.91	0.021	0.05	0.1	0.03	1.8	<0.1	<0.05	5	<0.5	<0.2
PM11-JF506	Soil			20	0.15	134	0.075	<1	1.64	0.017	0.05	<0.1	0.03	1.7	<0.1	<0.05	5	<0.5	<0.2
PM11-JF507	Soil			20	0.16	104	0.077	<1	1.80	0.018	0.05	<0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-JF508	Soil			43	0.37	87	0.075	<1	1.15	0.022	0.05	<0.1	0.02	4.1	<0.1	<0.05	3	<0.5	<0.2
PM11-JF509	Soil			32	0.29	103	0.074	<1	1.51	0.033	0.05	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
PM11-JF510	Soil			41	0.38	101	0.086	<1	1.42	0.031	0.07	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
PM11-JF511	Soil			10	0.11	60	0.056	<1	0.74	0.020	0.02	<0.1	0.01	0.8	<0.1	<0.05	3	<0.5	<0.2
PM11-JF512	Soil			15	0.15	102	0.065	<1	1.09	0.026	0.04	<0.1	0.02	1.2	<0.1	<0.05	3	<0.5	<0.2

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 Report Date: August 10, 2011

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CERTIFICATE OF ANALYSIS

VAN11003408.1

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	
PM11-JF513	Soil		0.2	6.7	3.2	39	<0.1	15.4	3.9	306	1.09	<0.5	26.0	0.5	20	<0.1	<0.1	<0.1	25	0.11	0.034	3
PM11-JF514	Soil		0.2	8.7	3.6	34	<0.1	20.3	4.3	154	1.24	<0.5	<0.5	0.7	25	<0.1	<0.1	<0.1	29	0.14	0.026	4
PM11-JF515	Soil		0.3	8.3	3.2	34	<0.1	18.9	4.4	142	1.25	<0.5	<0.5	0.8	23	<0.1	<0.1	<0.1	32	0.13	0.023	4
PM11-JF516	Soil		0.1	12.2	3.7	49	<0.1	23.3	4.3	215	1.42	<0.5	<0.5	0.8	29	<0.1	<0.1	<0.1	34	0.18	0.016	5
PM11-JF517	Soil		0.3	13.3	3.9	49	<0.1	35.4	5.3	114	1.47	<0.5	<0.5	1.1	29	<0.1	<0.1	<0.1	31	0.13	0.076	6
PM11-JF518	Soil		0.3	14.4	4.3	52	<0.1	37.4	5.3	117	1.48	<0.5	<0.5	1.2	29	<0.1	<0.1	<0.1	30	0.13	0.111	6
PM11-JF519	Soil		0.2	7.5	2.9	42	<0.1	18.6	4.3	250	1.23	<0.5	<0.5	0.7	25	<0.1	<0.1	<0.1	31	0.14	0.016	5
PM11-JF520	Soil		0.3	13.8	3.6	46	<0.1	30.2	6.2	168	1.60	<0.5	<0.5	1.2	32	<0.1	<0.1	<0.1	40	0.18	0.056	5
PM11-JF521	Soil		0.3	14.0	3.5	47	<0.1	31.8	6.1	184	1.55	<0.5	2.4	1.2	33	<0.1	<0.1	<0.1	40	0.18	0.057	5
PM11-JF522	Soil		0.3	8.3	3.1	48	<0.1	25.0	5.1	185	1.39	<0.5	<0.5	0.9	27	<0.1	<0.1	<0.1	32	0.15	0.082	4
PM11-JF522D	Soil		0.2	7.8	3.5	46	<0.1	22.2	4.8	171	1.35	1.0	0.6	0.8	27	<0.1	<0.1	0.1	29	0.14	0.090	4
PM11-JF523	Soil		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
PM11-JF524	Soil		0.3	10.6	4.8	28	<0.1	13.3	5.0	88	1.54	2.0	<0.5	1.2	35	0.1	0.1	0.2	40	0.10	0.088	4
PM11-JF525	Soil		0.4	7.7	5.6	24	<0.1	12.3	3.7	55	1.39	1.9	<0.5	1.0	15	<0.1	0.1	0.1	32	0.04	0.117	3
PM11-JF526	Soil		0.4	26.8	5.0	43	<0.1	33.0	10.6	153	2.38	2.4	<0.5	1.9	87	0.1	0.2	0.1	63	0.28	0.070	8
PM11-JF527	Soil		0.3	16.8	5.4	33	<0.1	20.2	6.7	133	1.65	1.9	<0.5	1.1	70	0.2	0.2	0.1	42	0.29	0.080	5
PM11-JF528	Soil		0.3	7.0	5.0	29	<0.1	9.1	3.9	67	1.43	1.5	<0.5	1.2	17	<0.1	0.1	0.1	35	0.08	0.129	3
PM11-JF529	Soil		0.1	7.2	6.0	21	<0.1	17.3	3.8	39	1.12	1.0	<0.5	1.0	26	<0.1	<0.1	0.1	27	0.10	0.072	3
PM11-JF530	Soil		0.1	8.4	6.1	26	<0.1	16.8	3.8	183	1.22	1.0	<0.5	0.9	56	0.1	0.1	0.1	31	0.21	0.025	4
PM11-JF531	Soil		0.3	8.4	5.3	33	<0.1	9.9	4.1	92	1.56	1.3	<0.5	1.0	46	0.2	0.1	0.1	40	0.19	0.066	4
PM11-JF532	Soil		0.3	13.3	4.3	34	<0.1	13.7	7.1	363	1.58	1.9	<0.5	3.2	61	0.1	0.2	<0.1	51	0.37	0.077	11
PM11-JF533	Soil		0.2	11.9	5.9	29	<0.1	10.4	3.8	263	1.35	1.2	<0.5	0.8	81	0.2	0.1	0.1	38	0.35	0.036	7
PM11-JF534	Soil		0.2	7.8	6.1	27	<0.1	8.3	7.3	700	1.21	1.5	<0.5	0.8	58	0.2	0.1	<0.1	37	0.26	0.031	7
PM11-JF535	Soil		0.3	9.2	8.2	30	0.1	6.9	4.7	167	1.05	1.9	<0.5	0.7	29	<0.1	0.1	0.1	26	0.14	0.031	4
PM11-JF536	Soil		0.2	4.6	6.3	20	0.2	3.4	1.8	43	0.59	0.9	2.1	1.3	23	0.1	<0.1	0.1	15	0.13	0.021	3
PM11-JF537	Soil		0.4	5.1	4.2	19	0.2	3.4	2.3	56	1.29	1.5	<0.5	1.2	21	<0.1	0.1	0.1	34	0.12	0.132	3
PM11-JF538	Soil		0.7	5.8	6.0	24	0.1	5.1	3.1	66	1.48	2.1	0.5	1.2	14	<0.1	<0.1	0.1	38	0.10	0.093	4
PM11-JF539	Soil		0.9	5.5	5.6	27	0.1	5.0	3.5	66	1.67	1.9	<0.5	1.7	8	0.1	0.2	0.2	44	0.05	0.112	2
PM11-JF540	Soil		0.9	6.2	5.2	28	0.1	6.1	4.0	71	1.85	1.9	<0.5	1.9	8	<0.1	<0.1	0.1	45	0.06	0.127	2
PM11-JF541	Soil		0.8	9.1	5.1	33	0.2	7.5	4.5	111	1.66	1.7	<0.5	2.1	12	<0.1	0.1	0.1	45	0.09	0.092	3

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Project: PLACER MTN.
 Report Date: August 10, 2011

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CERTIFICATE OF ANALYSIS

VAN11003408.1

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	
PM11-JF513	Soil			20	0.16	89	0.064	<1	1.02	0.016	0.05	<0.1	0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
PM11-JF514	Soil			30	0.25	100	0.075	<1	1.17	0.017	0.06	<0.1	<0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PM11-JF515	Soil			30	0.23	87	0.077	<1	1.04	0.017	0.05	<0.1	<0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
PM11-JF516	Soil			29	0.27	89	0.082	<1	1.47	0.030	0.05	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PM11-JF517	Soil			37	0.27	149	0.076	<1	1.62	0.019	0.06	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-JF518	Soil			34	0.25	173	0.076	<1	1.81	0.017	0.05	<0.1	0.02	2.2	<0.1	<0.05	6	0.6	<0.2
PM11-JF519	Soil			29	0.21	80	0.072	<1	1.08	0.016	0.04	<0.1	0.02	1.4	<0.1	<0.05	3	<0.5	<0.2
PM11-JF520	Soil			41	0.32	120	0.080	<1	1.45	0.016	0.08	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PM11-JF521	Soil			41	0.33	113	0.079	<1	1.46	0.018	0.08	<0.1	0.02	1.8	<0.1	<0.05	4	0.6	<0.2
PM11-JF522	Soil			33	0.21	159	0.073	2	1.29	0.018	0.07	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
PM11-JF522D	Soil			29	0.20	166	0.061	2	1.20	0.016	0.08	<0.1	<0.01	1.3	<0.1	0.09	4	<0.5	<0.2
PM11-JF523	Soil			L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
PM11-JF524	Soil			16	0.19	104	0.085	2	2.07	0.015	0.05	<0.1	0.03	1.4	<0.1	0.08	7	<0.5	<0.2
PM11-JF525	Soil			12	0.14	93	0.079	1	2.15	0.013	0.04	<0.1	0.04	1.3	<0.1	0.06	7	<0.5	<0.2
PM11-JF526	Soil			39	0.61	333	0.099	1	3.09	0.021	0.10	<0.1	0.01	2.8	<0.1	<0.05	7	<0.5	<0.2
PM11-JF527	Soil			33	0.35	142	0.079	1	1.79	0.016	0.08	<0.1	0.04	2.3	<0.1	0.06	6	<0.5	<0.2
PM11-JF528	Soil			11	0.11	67	0.091	2	1.91	0.017	0.03	<0.1	0.03	1.4	<0.1	<0.05	6	<0.5	<0.2
PM11-JF529	Soil			13	0.13	84	0.094	<1	1.69	0.015	0.06	<0.1	0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
PM11-JF530	Soil			26	0.21	92	0.086	1	1.63	0.026	0.06	<0.1	<0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
PM11-JF531	Soil			14	0.25	117	0.085	2	1.43	0.017	0.05	<0.1	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
PM11-JF532	Soil			18	0.36	131	0.082	<1	0.89	0.018	0.11	<0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
PM11-JF533	Soil			18	0.29	129	0.081	1	1.74	0.028	0.08	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2
PM11-JF534	Soil			10	0.22	124	0.086	2	1.31	0.033	0.04	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
PM11-JF535	Soil			8	0.20	137	0.082	3	1.63	0.028	0.05	<0.1	<0.01	1.2	<0.1	0.06	6	<0.5	<0.2
PM11-JF536	Soil			4	0.12	59	0.064	<1	0.74	0.020	0.04	<0.1	0.01	0.6	<0.1	0.06	4	<0.5	<0.2
PM11-JF537	Soil			6	0.08	44	0.075	2	1.56	0.020	0.03	<0.1	0.03	1.2	<0.1	<0.05	6	<0.5	<0.2
PM11-JF538	Soil			6	0.10	56	0.089	1	1.70	0.020	0.03	<0.1	0.02	1.0	<0.1	<0.05	7	<0.5	<0.2
PM11-JF539	Soil			9	0.10	39	0.105	<1	1.87	0.014	0.03	<0.1	0.03	1.2	<0.1	<0.05	7	<0.5	<0.2
PM11-JF540	Soil			10	0.12	43	0.103	<1	2.05	0.013	0.03	<0.1	0.03	1.3	<0.1	<0.05	7	<0.5	<0.2
PM11-JF541	Soil			9	0.14	55	0.108	1	2.01	0.018	0.04	<0.1	0.03	1.3	<0.1	<0.05	7	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	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	
PM11-JF542	Soil		0.9	9.1	5.3	33	0.2	7.6	4.9	119	1.72	1.5	0.6	1.4	13	<0.1	0.1	0.1	46	0.10	0.086	3
PM11-JF543	Soil		0.9	9.4	5.5	36	0.2	8.3	5.0	124	1.68	1.6	2.0	1.7	12	<0.1	<0.1	0.1	45	0.09	0.088	3
PM11-JF544	Soil		0.8	8.0	5.1	30	0.2	6.8	4.5	113	1.55	1.0	0.5	1.6	12	<0.1	0.1	0.1	41	0.09	0.084	2
PM11-JF545	Soil		0.8	13.2	4.7	48	0.3	22.1	6.4	116	1.64	3.0	<0.5	1.2	14	<0.1	0.1	0.1	46	0.11	0.094	3
PM11-JF546	Soil		1.3	15.7	4.9	52	0.2	25.5	7.4	152	1.73	4.2	<0.5	1.2	18	0.1	0.2	0.1	52	0.13	0.088	4
PM11-JF547	Soil		0.9	14.8	4.9	49	0.2	22.4	6.4	149	1.72	3.8	<0.5	1.1	16	0.2	0.2	0.1	50	0.12	0.090	4
PM11-JF548	Soil		0.7	8.7	5.0	39	0.3	12.2	4.2	177	1.30	2.1	<0.5	0.8	9	0.1	0.2	0.1	36	0.08	0.068	2
PM11-JF549	Soil		1.1	15.6	5.7	48	0.3	23.9	7.7	132	1.86	5.6	<0.5	1.0	12	<0.1	0.2	0.1	55	0.09	0.081	3
PM11-JF550	Soil		1.1	13.8	6.1	45	0.6	23.0	6.8	128	1.76	5.3	7.3	1.0	15	0.2	0.2	0.1	51	0.11	0.092	3
PM11-JF551	Soil		1.1	16.7	6.3	51	0.7	27.5	7.8	138	1.97	6.3	<0.5	1.2	16	<0.1	0.3	0.1	57	0.12	0.100	3
PM11-JF552	Soil		1.1	17.1	6.6	49	0.7	26.7	7.9	144	1.95	6.0	18.2	1.2	18	<0.1	0.2	0.1	55	0.12	0.098	3
PM11-JF553	Soil		1.5	15.6	4.4	34	0.1	19.7	7.4	100	1.79	1.2	<0.5	1.1	16	<0.1	0.1	0.1	56	0.10	0.065	3
PM11-JF554	Soil		1.6	15.2	4.2	35	0.1	19.9	7.4	99	1.77	1.3	<0.5	1.1	14	<0.1	0.1	0.1	54	0.10	0.067	3
PM11-JF555	Soil		1.5	15.9	4.4	35	0.1	21.1	7.4	110	1.83	1.6	0.9	1.3	15	0.1	0.2	0.2	56	0.11	0.070	3
PM11-JF556	Soil		0.5	12.5	5.1	53	0.2	17.5	6.7	145	2.16	3.1	1.0	1.4	19	0.2	0.1	0.2	50	0.14	0.195	4
PM11-JF557	Soil		0.5	13.8	5.3	58	0.1	18.7	7.6	172	2.07	2.4	<0.5	1.3	23	0.2	0.1	0.1	48	0.18	0.131	4
PM11-JF558	Soil		0.4	14.0	5.2	49	<0.1	19.1	6.7	131	1.98	3.0	2.5	1.2	23	<0.1	<0.1	0.1	45	0.18	0.124	4
PM11-JF559	Soil		0.4	16.1	6.2	53	0.1	22.9	7.3	129	2.30	4.2	<0.5	1.6	25	0.1	<0.1	0.1	53	0.23	0.153	5
PM11-JF560	Soil		0.6	16.6	6.4	56	0.1	22.9	7.5	170	2.14	3.4	<0.5	1.5	27	<0.1	<0.1	0.1	48	0.22	0.129	5
PMS-39	Rock Pulp		18.2	62.5	17.5	18	0.1	17.1	2.5	110	3.82	471.8	232.6	0.8	29	0.3	27.4	0.2	10	1.00	0.005	1
PM11-JF561	Soil		0.5	15.0	6.3	59	0.2	20.1	6.8	221	2.05	4.3	<0.5	1.3	24	0.2	<0.1	0.1	49	0.18	0.118	4
PM11-JF562	Soil		0.5	14.0	6.1	55	0.2	19.2	6.5	174	2.10	3.4	0.6	1.3	24	0.1	<0.1	0.1	50	0.18	0.126	4
PM11-JF563	Soil		0.7	17.2	6.5	70	0.2	25.3	7.8	107	2.67	4.0	0.5	2.0	23	<0.1	0.1	0.1	59	0.14	0.298	5
PM11-JF564	Soil		0.6	19.2	7.0	69	0.2	29.0	8.5	115	2.67	4.1	<0.5	2.1	24	0.1	0.1	0.1	58	0.15	0.289	5
PM11-JF565	Soil		0.7	23.2	4.1	49	0.1	21.9	8.2	186	2.49	2.4	0.7	1.6	41	<0.1	0.1	<0.1	65	0.24	0.076	7
PM11-JF566	Soil		0.3	9.2	4.9	35	<0.1	14.2	5.0	94	1.73	1.2	<0.5	1.3	26	<0.1	<0.1	<0.1	43	0.15	0.082	4
PM11-JF567	Soil		0.4	7.8	4.9	34	<0.1	12.7	4.8	92	1.66	0.9	1.9	1.3	24	<0.1	<0.1	<0.1	42	0.15	0.081	4
PM11-JF568	Soil		0.4	10.1	5.2	37	<0.1	15.9	6.3	99	1.62	1.2	<0.5	1.7	18	<0.1	0.1	0.1	38	0.15	0.093	4
PM11-JF569	Soil		0.3	9.7	5.0	35	<0.1	14.8	6.1	102	1.53	0.8	0.8	1.6	16	<0.1	<0.1	<0.1	33	0.13	0.082	4
PM11-JF570	Soil		0.3	10.9	5.1	38	<0.1	16.1	5.9	102	1.56	0.8	0.6	1.7	19	<0.1	<0.1	<0.1	37	0.17	0.080	4

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Method Analyte Unit MDL	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		
PM11-JF542	Soil	9	0.15	58	0.106	1	1.88	0.018	0.04	<0.1	0.03	1.2	<0.1	<0.05	7	<0.5	<0.2	
PM11-JF543	Soil	10	0.16	60	0.106	2	1.93	0.017	0.04	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2	
PM11-JF544	Soil	9	0.13	51	0.097	1	1.80	0.024	0.04	<0.1	0.02	1.1	<0.1	<0.05	6	<0.5	<0.2	
PM11-JF545	Soil	24	0.21	109	0.103	<1	1.77	0.019	0.05	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2	
PM11-JF546	Soil	29	0.28	137	0.113	<1	1.95	0.020	0.06	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2	
PM11-JF547	Soil	29	0.28	129	0.113	1	1.79	0.021	0.06	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2	
PM11-JF548	Soil	17	0.18	75	0.090	1	0.80	0.012	0.06	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2	
PM11-JF549	Soil	29	0.34	126	0.119	<1	1.56	0.012	0.10	<0.1	0.04	2.0	<0.1	<0.05	6	<0.5	<0.2	
PM11-JF550	Soil	25	0.30	144	0.118	<1	1.68	0.013	0.09	<0.1	0.03	2.0	<0.1	<0.05	6	<0.5	<0.2	
PM11-JF551	Soil	27	0.32	158	0.129	<1	1.77	0.012	0.11	<0.1	0.03	2.3	<0.1	<0.05	7	<0.5	<0.2	
PM11-JF552	Soil	28	0.35	168	0.127	<1	1.81	0.013	0.12	<0.1	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2	
PM11-JF553	Soil	30	0.31	139	0.124	<1	1.41	0.014	0.09	<0.1	0.01	2.1	<0.1	<0.05	6	<0.5	<0.2	
PM11-JF554	Soil	30	0.32	136	0.125	<1	1.47	0.014	0.09	<0.1	<0.01	2.1	<0.1	<0.05	6	<0.5	<0.2	
PM11-JF555	Soil	31	0.32	140	0.125	<1	1.46	0.015	0.10	<0.1	0.02	2.0	<0.1	0.06	6	<0.5	<0.2	
PM11-JF556	Soil	17	0.21	129	0.100	<1	2.24	0.020	0.05	<0.1	0.02	2.0	<0.1	<0.05	7	<0.5	<0.2	
PM11-JF557	Soil	18	0.24	138	0.102	<1	2.24	0.019	0.06	<0.1	0.02	2.3	<0.1	0.06	7	<0.5	<0.2	
PM11-JF558	Soil	18	0.22	125	0.087	1	2.05	0.017	0.07	<0.1	0.02	1.8	<0.1	0.07	7	<0.5	<0.2	
PM11-JF559	Soil	20	0.25	134	0.104	2	2.59	0.020	0.07	<0.1	0.02	2.3	<0.1	<0.05	8	<0.5	<0.2	
PM11-JF560	Soil	21	0.28	151	0.102	2	2.39	0.017	0.09	<0.1	0.02	2.5	<0.1	<0.05	8	<0.5	<0.2	
PMS-39	Rock Pulp	22	0.02	1088	0.010	2	0.16	0.007	0.06	3.2	3.05	0.6	11.4	0.17	<1	2.0	<0.2	
PM11-JF561	Soil	20	0.26	150	0.101	<1	2.04	0.017	0.08	<0.1	0.03	2.2	<0.1	<0.05	7	<0.5	<0.2	
PM11-JF562	Soil	20	0.25	128	0.109	1	2.08	0.017	0.08	<0.1	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2	
PM11-JF563	Soil	26	0.32	134	0.133	1	3.63	0.015	0.11	0.1	0.03	3.3	<0.1	<0.05	9	0.5	<0.2	
PM11-JF564	Soil	26	0.34	152	0.135	1	3.81	0.017	0.11	0.1	0.03	3.3	<0.1	<0.05	9	0.7	<0.2	
PM11-JF565	Soil	29	0.63	187	0.149	1	1.89	0.016	0.30	0.1	0.02	3.9	0.2	<0.05	6	<0.5	<0.2	
PM11-JF566	Soil	15	0.25	88	0.109	1	1.63	0.016	0.07	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2	
PM11-JF567	Soil	15	0.22	75	0.109	<1	1.61	0.016	0.06	<0.1	0.01	1.7	<0.1	<0.05	6	<0.5	<0.2	
PM11-JF568	Soil	18	0.22	75	0.096	2	1.94	0.018	0.08	0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2	
PM11-JF569	Soil	16	0.21	76	0.092	2	1.82	0.017	0.07	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2	
PM11-JF570	Soil	19	0.24	87	0.102	1	1.88	0.017	0.08	0.1	0.03	2.2	<0.1	<0.05	5	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	
			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	
PM11-JF571	Soil		0.5	5.7	6.3	33	<0.1	11.6	4.4	77	1.61	0.6	<0.5	1.2	17	0.1	<0.1	0.1	39	0.12	0.117	3
PM11-JF572	Soil		0.5	3.9	5.4	25	<0.1	7.5	2.9	58	1.26	<0.5	<0.5	0.8	12	0.1	<0.1	0.1	30	0.10	0.083	2
PM11-JF573	Soil		0.6	10.8	5.4	39	<0.1	18.0	6.9	91	1.80	0.7	<0.5	1.3	16	<0.1	<0.1	<0.1	43	0.11	0.097	3
PM11-JF574	Soil		0.8	14.9	5.3	44	<0.1	22.7	8.2	109	2.02	1.0	0.5	1.6	22	<0.1	<0.1	0.1	48	0.16	0.098	4
PM11-JF575	Soil		0.6	10.9	5.0	29	<0.1	15.8	5.3	157	1.70	2.3	1.4	1.3	22	<0.1	<0.1	0.1	34	0.31	0.015	4
PM11-JF576	Soil		0.7	12.3	5.4	34	<0.1	17.0	5.9	90	1.72	1.0	3.2	1.4	24	<0.1	<0.1	0.1	39	0.19	0.108	5
PM11-JF577	Soil		0.9	11.5	5.5	31	<0.1	17.2	5.6	95	1.78	1.2	1.6	1.3	22	<0.1	<0.1	0.1	41	0.20	0.122	4
PM11-JF578	Soil		0.8	12.5	5.5	34	<0.1	17.4	6.2	94	1.73	1.0	1.4	1.4	24	<0.1	<0.1	<0.1	40	0.22	0.114	5
PM11-JF579	Soil		1.1	12.0	5.6	32	<0.1	17.7	5.8	86	1.73	0.7	1.6	1.4	22	<0.1	<0.1	0.1	40	0.18	0.114	4
PM11-JF580	Soil		0.5	10.1	5.4	30	<0.1	18.5	5.9	92	1.74	1.0	<0.5	1.4	22	<0.1	<0.1	0.1	39	0.14	0.152	4
PM11-JF581	Soil		0.2	9.8	5.1	24	<0.1	12.9	4.1	78	1.25	<0.5	<0.5	0.8	30	<0.1	<0.1	<0.1	31	0.18	0.027	3
PM11-JF582	Soil		0.2	10.0	5.2	26	<0.1	13.2	4.2	78	1.31	<0.5	3.0	0.8	30	<0.1	<0.1	0.1	31	0.17	0.027	3
PM11-JF583	Soil		0.2	10.7	5.4	29	<0.1	12.7	4.2	82	1.27	<0.5	<0.5	0.8	32	<0.1	<0.1	0.1	30	0.19	0.031	4
PM11-JF584	Soil		0.2	10.2	5.4	28	<0.1	13.3	4.2	82	1.31	<0.5	1.2	0.8	30	<0.1	<0.1	<0.1	31	0.18	0.028	3
PM11-JF585	Soil		0.3	10.5	5.4	28	<0.1	14.0	4.3	87	1.40	<0.5	1.7	0.9	31	<0.1	<0.1	<0.1	31	0.18	0.029	3
PM11-JF586	Soil		0.6	21.1	4.2	46	<0.1	19.7	8.2	178	2.33	1.8	1.7	1.7	41	<0.1	0.1	<0.1	61	0.24	0.078	7
PM11-JF587	Soil		0.7	20.4	4.1	45	0.1	18.8	7.8	167	2.25	1.7	1.1	1.6	39	<0.1	0.1	<0.1	57	0.22	0.074	6
PMS-40	Rock Pulp		111.6	3209	24.3	59	2.4	34.0	19.2	367	3.99	50.3	427.5	2.1	29	0.2	3.5	0.4	110	0.31	0.087	10
PM11-GW131	Soil		0.9	38.5	4.3	64	<0.1	43.0	11.1	341	2.99	6.1	1.5	2.6	38	<0.1	0.2	<0.1	70	0.27	0.076	14
PM11-GW132	Soil		0.7	37.1	3.8	47	<0.1	52.4	12.1	397	2.44	2.5	2.5	2.1	55	<0.1	0.2	<0.1	63	0.36	0.071	15
PM11-GW133	Soil		0.6	29.9	3.6	45	<0.1	47.9	10.3	288	2.31	1.6	0.7	1.8	46	<0.1	0.1	<0.1	61	0.27	0.048	12
PM11-GW134	Soil		0.7	15.8	4.5	44	<0.1	28.7	6.4	225	1.66	0.9	<0.5	1.4	23	<0.1	<0.1	<0.1	39	0.13	0.084	5
PM11-GW135	Soil		0.6	27.5	3.1	43	<0.1	41.4	11.4	374	2.19	2.0	1.6	1.7	39	0.1	0.1	<0.1	63	0.24	0.055	11
PM11-GW136	Soil		0.4	27.7	3.5	45	<0.1	74.9	13.9	513	2.27	1.5	0.6	1.8	62	0.1	<0.1	<0.1	64	0.39	0.095	17
PM11-GW137	Soil		0.3	23.2	2.6	36	<0.1	53.2	7.8	178	2.09	1.6	<0.5	1.7	52	<0.1	<0.1	<0.1	53	0.32	0.075	12
PM11-GW138	Soil		0.3	19.7	3.0	45	<0.1	20.3	6.9	230	1.90	1.5	<0.5	1.6	33	<0.1	<0.1	<0.1	54	0.31	0.070	10
PM11-GW139	Soil		0.4	14.4	2.6	42	<0.1	18.6	6.1	164	1.83	1.6	1.0	1.3	24	<0.1	<0.1	<0.1	52	0.17	0.054	6
PM11-GW140	Soil		0.4	19.4	2.6	41	<0.1	20.1	7.6	345	1.80	2.5	<0.5	1.6	33	<0.1	0.1	<0.1	53	0.40	0.105	10
PM11-GW141	Soil		0.5	22.2	2.2	37	<0.1	21.5	7.0	228	1.87	2.5	<0.5	1.5	31	<0.1	0.2	<0.1	55	0.32	0.083	10
PM11-GW142	Soil		0.4	19.7	2.5	43	<0.1	20.6	6.2	191	2.09	2.1	<0.5	1.4	24	<0.1	0.1	<0.1	63	0.27	0.084	8

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Method Analyte Unit MDL		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr 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	
PM11-JF571	Soil	13	0.14	48	0.100	1	1.90	0.018	0.05	<0.1	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
PM11-JF572	Soil	10	0.10	36	0.083	<1	1.23	0.015	0.04	<0.1	0.02	1.0	<0.1	<0.05	6	<0.5	<0.2
PM11-JF573	Soil	17	0.28	88	0.103	1	1.99	0.015	0.09	<0.1	0.03	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11-JF574	Soil	21	0.37	136	0.120	2	2.53	0.016	0.13	0.1	0.02	2.7	<0.1	<0.05	7	<0.5	<0.2
PM11-JF575	Soil	21	0.28	113	0.094	2	1.78	0.023	0.13	<0.1	<0.01	2.2	0.1	<0.05	5	<0.5	<0.2
PM11-JF576	Soil	20	0.24	91	0.085	1	2.16	0.018	0.06	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
PM11-JF577	Soil	20	0.22	87	0.091	1	2.04	0.017	0.06	<0.1	0.03	1.8	<0.1	<0.05	7	0.7	<0.2
PM11-JF578	Soil	21	0.25	96	0.092	1	2.17	0.019	0.06	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
PM11-JF579	Soil	21	0.23	88	0.094	<1	2.16	0.019	0.06	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
PM11-JF580	Soil	20	0.24	95	0.095	2	1.98	0.020	0.06	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PM11-JF581	Soil	17	0.25	80	0.074	1	1.25	0.022	0.05	<0.1	0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11-JF582	Soil	17	0.26	79	0.077	<1	1.28	0.025	0.06	<0.1	0.02	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11-JF583	Soil	17	0.25	74	0.077	2	1.25	0.023	0.06	<0.1	0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11-JF584	Soil	18	0.24	74	0.081	<1	1.29	0.023	0.05	<0.1	0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PM11-JF585	Soil	18	0.28	76	0.079	<1	1.37	0.023	0.06	<0.1	0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PM11-JF586	Soil	27	0.61	173	0.141	<1	1.85	0.017	0.26	<0.1	0.02	3.7	0.2	<0.05	5	<0.5	<0.2
PM11-JF587	Soil	25	0.59	168	0.138	<1	1.86	0.016	0.26	<0.1	0.01	3.5	0.2	<0.05	5	<0.5	<0.2
PMS-40	Rock Pulp	46	0.87	42	0.102	<1	1.27	0.032	0.85	4.1	0.08	8.6	0.5	1.89	5	6.4	0.9
PM11-GW131	Soil	49	0.76	98	0.049	2	1.34	0.014	0.13	<0.1	0.02	4.9	<0.1	0.05	5	0.7	<0.2
PM11-GW132	Soil	61	0.80	135	0.064	1	1.26	0.029	0.13	<0.1	<0.01	4.8	<0.1	0.05	4	0.6	<0.2
PM11-GW133	Soil	57	0.73	111	0.069	<1	1.28	0.021	0.13	<0.1	0.02	4.5	<0.1	0.05	4	<0.5	<0.2
PM11-GW134	Soil	30	0.32	144	0.074	2	1.67	0.013	0.09	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
PM11-GW135	Soil	56	0.68	152	0.071	1	1.35	0.017	0.13	<0.1	<0.01	4.0	<0.1	<0.05	4	0.5	<0.2
PM11-GW136	Soil	69	0.81	150	0.065	2	1.14	0.020	0.14	<0.1	<0.01	4.3	<0.1	<0.05	4	0.6	<0.2
PM11-GW137	Soil	64	0.67	117	0.072	1	1.26	0.025	0.09	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PM11-GW138	Soil	37	0.60	148	0.072	<1	1.19	0.017	0.16	<0.1	<0.01	3.5	<0.1	<0.05	4	0.7	<0.2
PM11-GW139	Soil	36	0.42	102	0.077	<1	1.06	0.013	0.13	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PM11-GW140	Soil	32	0.53	137	0.057	1	0.77	0.021	0.11	<0.1	<0.01	2.6	<0.1	<0.05	3	0.6	<0.2
PM11-GW141	Soil	35	0.43	107	0.059	<1	0.80	0.019	0.09	<0.1	<0.01	2.8	<0.1	<0.05	3	0.6	<0.2
PM11-GW142	Soil	39	0.41	84	0.060	<1	0.87	0.011	0.11	<0.1	<0.01	2.5	<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	%	%	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	
PM11-GW143	Soil	0.5	23.7	3.1	43	<0.1	22.5	7.0	208	2.14	2.4	<0.5	1.8	45	<0.1	0.2	<0.1	54	0.31	0.040	8
PM11-GW144	Soil	0.3	17.0	2.8	42	<0.1	17.5	5.5	150	1.73	1.8	1.6	1.4	21	<0.1	<0.1	<0.1	48	0.20	0.071	6
PM11-GW145	Soil	0.3	21.2	3.7	67	<0.1	22.4	5.6	192	1.79	1.8	0.8	1.3	34	<0.1	<0.1	0.1	43	0.27	0.091	9
PM11-GW146	Soil	0.3	24.5	3.1	37	<0.1	39.5	9.5	293	1.98	2.3	60.3	2.1	76	<0.1	0.1	<0.1	57	0.38	0.080	21
PM11-GW147	Soil	0.2	14.4	3.8	40	0.1	21.6	5.2	113	1.44	1.8	0.7	1.5	43	<0.1	<0.1	<0.1	31	0.21	0.093	6
PM11-GW148	Soil	0.3	24.8	2.7	46	<0.1	26.8	9.2	267	2.32	2.7	11.7	2.3	43	<0.1	<0.1	<0.1	70	0.30	0.060	14
PM11-GW149	Soil	0.4	23.1	4.1	43	0.1	28.5	6.7	339	1.78	2.7	4.2	1.4	45	<0.1	<0.1	<0.1	48	0.30	0.050	14
PM11-GW150	Soil	0.4	25.4	3.1	37	<0.1	36.6	8.8	269	1.87	2.4	0.8	1.9	72	<0.1	0.1	<0.1	54	0.36	0.081	15
PM11-GW151	Soil	0.3	16.0	2.6	35	<0.1	25.5	7.4	158	1.79	1.6	<0.5	1.6	37	<0.1	<0.1	<0.1	50	0.23	0.063	7
PM11-GW152	Soil	0.3	22.3	3.5	46	<0.1	43.9	9.3	250	2.37	2.2	0.8	2.1	57	<0.1	0.1	<0.1	67	0.31	0.081	20
PM11-GW153	Soil	0.3	16.1	3.5	70	<0.1	22.5	7.7	332	1.88	1.0	<0.5	1.4	21	0.1	<0.1	<0.1	51	0.18	0.065	5
PM11-GW154	Soil	0.4	33.3	2.8	39	<0.1	30.4	7.8	234	2.04	3.1	0.9	1.7	38	<0.1	0.1	<0.1	57	0.29	0.052	10
PM11-GW155	Soil	0.4	25.5	2.1	33	<0.1	25.1	6.7	200	1.66	3.1	<0.5	1.4	37	<0.1	0.1	<0.1	49	0.34	0.093	11
PM11-GW156	Soil	0.7	33.5	3.2	48	<0.1	30.7	8.8	233	2.54	3.0	1.2	1.7	45	<0.1	0.2	<0.1	75	0.33	0.056	11
PM11-GW157	Soil	0.4	16.4	3.0	46	<0.1	20.7	7.5	180	1.87	1.5	<0.5	1.5	27	<0.1	<0.1	<0.1	52	0.21	0.060	5
PM11-GW158	Soil	0.5	31.5	2.9	43	<0.1	23.0	7.6	268	2.10	2.6	1.5	1.4	34	<0.1	0.2	<0.1	62	0.29	0.072	9
PM11-GW159	Soil	0.6	35.7	3.7	47	<0.1	30.4	11.0	415	2.51	4.7	<0.5	1.8	52	<0.1	0.2	<0.1	70	0.45	0.090	13
PM11-GW160	Soil	0.2	18.2	3.9	34	0.1	18.1	4.7	198	1.53	1.3	<0.5	1.1	30	<0.1	<0.1	<0.1	36	0.23	0.023	7
PMS-29	Rock Pulp	16.2	60.4	16.4	18	0.2	17.3	2.6	102	3.74	462.7	198.1	0.8	28	0.4	25.7	0.2	9	0.99	0.006	2
PM11-GW161	Soil	0.1	14.9	4.2	30	<0.1	25.3	6.3	99	1.80	1.7	<0.5	1.5	55	<0.1	<0.1	<0.1	43	0.34	0.030	10
PM11-GW162	Soil	0.5	23.8	4.1	57	<0.1	31.3	9.2	351	2.51	3.1	1.5	2.1	45	<0.1	0.2	<0.1	64	0.36	0.065	13
PM11-GW163	Soil	0.5	26.6	3.5	58	<0.1	31.6	8.1	275	2.28	3.6	2.7	2.2	61	0.1	0.3	<0.1	64	0.34	0.083	16
PM11-GW164	Soil	0.5	25.2	4.2	45	<0.1	30.7	9.0	234	2.27	2.6	1.4	1.9	35	<0.1	0.1	<0.1	62	0.34	0.055	11
PM11-GW165	Soil	0.4	16.7	4.7	35	<0.1	22.7	6.7	136	1.78	1.7	<0.5	1.6	28	<0.1	<0.1	<0.1	46	0.20	0.083	6
PM11-GW166	Soil	0.5	27.1	2.8	40	<0.1	27.0	7.6	266	1.91	2.1	0.6	2.0	59	<0.1	0.2	<0.1	60	0.43	0.094	17
PM11-GW167	Soil	0.6	38.4	7.6	47	<0.1	21.9	8.0	209	2.14	6.5	1.4	2.0	32	0.1	0.5	0.1	54	0.19	0.047	9
PM11-GW168	Soil	0.7	64.7	5.1	79	<0.1	50.1	12.0	571	3.51	5.2	2.1	2.6	54	<0.1	0.2	0.1	90	0.38	0.070	15
PM11-GW169	Soil	0.4	34.1	3.8	48	<0.1	44.2	12.8	305	2.49	3.1	<0.5	2.6	39	<0.1	0.1	<0.1	69	0.27	0.076	14
PM11-GW170	Soil	0.5	38.5	3.6	49	<0.1	48.9	11.5	371	2.35	3.4	1.6	2.2	79	<0.1	0.1	<0.1	70	0.69	0.086	17
PM11-GW171	Soil	0.4	27.8	4.7	55	<0.1	44.8	10.6	233	2.66	2.5	2.2	2.3	31	<0.1	0.3	0.1	69	0.29	0.050	7

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Method	Analyte	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	
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	
PM11-GW143	Soil	37	0.52	127	0.080	<1	1.38	0.019	0.11	<0.1	0.02	3.4	<0.1	<0.05	4	0.6	<0.2
PM11-GW144	Soil	27	0.30	113	0.072	2	1.28	0.015	0.08	<0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
PM11-GW145	Soil	26	0.32	176	0.072	1	1.73	0.017	0.07	<0.1	0.01	2.4	<0.1	<0.05	5	0.6	<0.2
PM11-GW146	Soil	47	0.57	178	0.073	<1	0.98	0.034	0.10	0.2	0.01	3.8	0.1	<0.05	3	<0.5	<0.2
PM11-GW147	Soil	22	0.23	184	0.075	2	1.75	0.024	0.07	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-GW148	Soil	41	0.60	126	0.097	1	1.27	0.037	0.23	<0.1	0.01	4.5	0.1	<0.05	4	<0.5	<0.2
PM11-GW149	Soil	36	0.42	143	0.084	<1	1.42	0.023	0.11	<0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
PM11-GW150	Soil	39	0.53	171	0.069	<1	0.92	0.027	0.10	<0.1	<0.01	3.5	<0.1	<0.05	3	<0.5	<0.2
PM11-GW151	Soil	38	0.39	112	0.069	<1	1.05	0.018	0.08	<0.1	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
PM11-GW152	Soil	60	0.59	178	0.086	1	1.52	0.019	0.13	<0.1	<0.01	4.5	0.1	<0.05	4	0.6	<0.2
PM11-GW153	Soil	37	0.38	107	0.079	<1	1.50	0.014	0.08	<0.1	<0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
PM11-GW154	Soil	43	0.45	111	0.080	<1	1.13	0.019	0.10	<0.1	0.01	3.7	<0.1	<0.05	4	<0.5	<0.2
PM11-GW155	Soil	37	0.40	133	0.055	<1	0.77	0.023	0.07	<0.1	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
PM11-GW156	Soil	54	0.64	117	0.101	<1	1.43	0.018	0.13	<0.1	<0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
PM11-GW157	Soil	36	0.41	117	0.093	1	1.34	0.018	0.13	<0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
PM11-GW158	Soil	40	0.47	101	0.080	1	1.07	0.020	0.10	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
PM11-GW159	Soil	51	0.67	138	0.081	1	1.32	0.039	0.12	<0.1	<0.01	4.5	<0.1	<0.05	4	<0.5	<0.2
PM11-GW160	Soil	26	0.31	102	0.076	<1	1.41	0.021	0.07	<0.1	<0.01	2.4	<0.1	<0.05	4	0.6	<0.2
PMS-29	Rock Pulp	22	0.02	1145	0.009	2	0.16	0.006	0.07	2.5	2.85	0.6	10.4	0.12	<1	1.9	<0.2
PM11-GW161	Soil	32	0.44	113	0.083	1	1.49	0.034	0.10	<0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
PM11-GW162	Soil	42	0.60	169	0.089	1	1.50	0.034	0.20	<0.1	0.02	4.3	0.1	<0.05	4	<0.5	<0.2
PM11-GW163	Soil	42	0.48	267	0.078	1	1.04	0.036	0.13	<0.1	<0.01	4.3	<0.1	<0.05	3	<0.5	<0.2
PM11-GW164	Soil	44	0.48	157	0.097	<1	1.59	0.031	0.13	<0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
PM11-GW165	Soil	31	0.30	110	0.091	1	1.83	0.023	0.09	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
PM11-GW166	Soil	36	0.42	156	0.066	<1	0.81	0.049	0.07	<0.1	0.02	3.1	<0.1	<0.05	3	<0.5	<0.2
PM11-GW167	Soil	31	0.38	82	0.061	2	1.16	0.012	0.16	<0.1	0.01	3.6	0.3	<0.05	4	0.7	<0.2
PM11-GW168	Soil	48	0.93	140	0.097	<1	1.78	0.026	0.30	<0.1	0.01	7.4	0.2	0.05	5	0.5	<0.2
PM11-GW169	Soil	52	0.60	179	0.091	<1	1.54	0.032	0.19	<0.1	0.01	4.6	<0.1	0.07	4	<0.5	<0.2
PM11-GW170	Soil	53	0.80	197	0.096	<1	1.29	0.139	0.25	<0.1	<0.01	4.5	<0.1	<0.05	4	<0.5	<0.2
PM11-GW171	Soil	65	0.73	178	0.115	<1	2.37	0.018	0.34	<0.1	<0.01	3.9	0.2	<0.05	6	<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	2	0.01	0.001	1	
PM11-GW172	Soil	0.5	37.8	4.8	53	<0.1	37.6	10.7	300	2.83	2.3	1.8	2.4	45	<0.1	0.2	<0.1	74	0.38	0.056	13
PM11-GW173	Soil	0.7	33.1	5.6	55	<0.1	36.5	11.3	287	2.77	2.6	2.0	2.2	39	<0.1	0.2	<0.1	76	0.29	0.049	8
PM11-GW174	Soil	0.7	34.0	4.3	49	<0.1	38.5	12.0	448	2.47	4.8	2.3	2.2	63	0.2	0.2	<0.1	71	0.59	0.090	16
PM11-GW175	Soil	0.5	46.0	3.7	54	0.2	34.7	9.6	338	2.80	10.2	1.9	2.5	51	<0.1	0.2	<0.1	79	0.43	0.037	11
PM11-GW176	Soil	0.8	55.6	4.7	65	0.2	36.8	11.9	399	3.23	7.5	3.5	2.7	42	0.1	0.2	0.1	82	0.50	0.050	12
PM11-GW177	Soil	0.6	40.6	5.1	56	<0.1	23.3	8.2	264	3.08	7.5	<0.5	2.4	36	0.1	0.2	0.1	81	0.33	0.042	9
PM11-GW178	Soil	0.4	24.2	4.0	54	<0.1	34.9	8.3	182	2.23	2.5	1.7	2.1	38	<0.1	0.1	<0.1	65	0.26	0.038	12
PM11-GW179	Soil	0.4	31.3	2.8	43	<0.1	36.4	9.4	254	2.26	2.3	1.3	2.4	55	<0.1	<0.1	<0.1	66	0.39	0.070	19
PM11-GW180	Soil	1.4	38.5	3.7	52	<0.1	53.8	11.6	300	2.54	3.4	1.6	3.1	70	<0.1	0.1	<0.1	73	0.34	0.058	16
PM11-GW181	Soil	12.0	53.4	4.4	58	<0.1	32.9	11.7	242	3.59	8.4	<0.5	2.9	58	<0.1	0.3	0.1	85	0.24	0.059	13
PM11-GW182	Soil	1.5	26.3	4.9	66	<0.1	39.8	11.1	269	2.64	2.3	<0.5	2.1	54	<0.1	0.2	0.1	70	0.27	0.077	10
PM11-GW183	Soil	0.5	25.7	3.1	46	<0.1	39.5	9.5	318	2.02	<0.5	1.3	2.6	110	<0.1	<0.1	<0.1	68	0.49	0.130	25
PM11-GW184	Soil	0.6	22.2	3.4	41	<0.1	34.2	8.9	221	2.22	1.1	0.8	2.1	47	<0.1	<0.1	<0.1	62	0.26	0.065	14
PM11-GW185	Soil	0.4	14.3	3.4	36	<0.1	25.5	7.9	108	1.96	<0.5	<0.5	1.5	50	<0.1	<0.1	<0.1	61	0.19	0.071	9
PM11-GW186	Soil	0.5	16.5	4.0	40	<0.1	30.4	7.4	166	1.86	<0.5	<0.5	1.8	47	<0.1	<0.1	<0.1	55	0.21	0.116	12
PM11-GW187	Soil	0.3	21.9	4.0	40	<0.1	47.6	9.1	237	2.50	1.4	1.3	2.7	111	<0.1	<0.1	<0.1	64	0.54	0.071	16
PM11-GW188	Soil	0.6	26.5	4.0	47	<0.1	48.9	11.8	386	2.57	1.7	0.9	2.6	103	<0.1	0.1	<0.1	75	0.53	0.078	16
PM11-GW189	Soil	0.3	17.4	3.5	33	<0.1	40.0	9.3	300	1.93	0.5	<0.5	1.7	63	<0.1	<0.1	<0.1	53	0.31	0.023	10
PM11-GW190	Soil	0.3	18.7	2.8	37	<0.1	43.2	8.8	228	2.11	<0.5	0.6	1.6	57	<0.1	<0.1	<0.1	64	0.30	0.030	9
PM11-GW191	Soil	0.4	24.1	3.6	45	<0.1	48.5	11.0	365	2.44	1.0	1.0	2.7	96	<0.1	<0.1	<0.1	78	0.50	0.102	17
PM11-GW192	Soil	0.5	30.2	3.1	47	<0.1	60.5	11.7	311	2.65	1.2	11.2	2.5	81	<0.1	<0.1	<0.1	78	0.46	0.061	17
PM11-GW193	Soil	0.4	30.3	3.8	43	<0.1	72.3	12.7	390	2.41	<0.5	0.7	2.5	109	<0.1	<0.1	<0.1	72	0.52	0.090	20
PM11-GW194	Soil	0.3	22.9	2.3	39	<0.1	51.1	9.4	218	2.32	<0.5	12.0	1.7	57	<0.1	<0.1	<0.1	67	0.32	0.018	7
PM11-GW195	Soil	0.5	27.0	3.9	43	<0.1	58.5	11.3	366	2.45	1.6	2.4	2.8	111	<0.1	0.1	<0.1	74	0.54	0.087	22
PM11-GW196	Soil	0.5	23.1	2.9	39	<0.1	59.7	11.3	340	2.19	1.1	<0.5	2.2	120	<0.1	<0.1	<0.1	71	0.54	0.102	18
PM11-GW197	Soil	0.2	35.1	4.2	47	<0.1	109.3	15.2	434	2.61	0.5	1.5	2.8	161	<0.1	0.1	<0.1	70	0.73	0.118	26
PM11-GW198	Soil	0.3	24.8	3.0	45	<0.1	69.7	12.5	251	2.44	0.8	0.7	2.4	118	<0.1	<0.1	<0.1	63	0.55	0.070	17
PM11-GW199	Soil	0.3	31.3	3.8	46	<0.1	67.0	12.7	339	2.69	0.8	1.1	2.6	153	<0.1	<0.1	<0.1	72	0.54	0.090	20
PM11-GW200	Soil	<0.1	10.4	4.6	26	<0.1	21.9	3.5	99	1.25	0.7	<0.5	0.7	35	<0.1	<0.1	<0.1	29	0.19	0.013	4
PM11-GW201	Soil	0.5	37.1	4.9	61	<0.1	55.3	15.4	631	2.68	2.4	4.4	2.6	147	0.2	0.2	<0.1	76	0.70	0.103	16

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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
PM11-GW172	Soil	54	0.78	149	0.107	<1	1.76	0.026	0.35	<0.1	0.01	5.4	0.2	<0.05	5	<0.5	<0.2
PM11-GW173	Soil	48	0.84	142	0.116	<1	1.81	0.022	0.36	<0.1	<0.01	4.7	0.1	<0.05	5	<0.5	<0.2
PM11-GW174	Soil	44	0.73	231	0.088	<1	1.13	0.058	0.21	0.2	<0.01	4.1	<0.1	0.05	3	<0.5	<0.2
PM11-GW175	Soil	42	0.98	165	0.139	<1	1.63	0.038	0.39	0.1	0.03	7.1	0.4	0.05	5	<0.5	<0.2
PM11-GW176	Soil	44	0.96	162	0.125	1	1.89	0.037	0.43	0.1	0.03	7.4	0.2	0.07	5	<0.5	<0.2
PM11-GW177	Soil	35	0.93	108	0.108	<1	1.74	0.023	0.38	0.2	<0.01	6.6	0.2	0.08	5	<0.5	<0.2
PM11-GW178	Soil	41	0.45	141	0.101	<1	1.63	0.026	0.14	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PM11-GW179	Soil	40	0.49	95	0.082	<1	1.10	0.046	0.12	<0.1	0.02	4.4	<0.1	0.05	3	<0.5	<0.2
PM11-GW180	Soil	49	0.70	165	0.107	<1	1.60	0.038	0.15	<0.1	0.03	5.0	0.1	0.06	4	<0.5	<0.2
PM11-GW181	Soil	45	0.81	162	0.115	<1	1.95	0.026	0.32	<0.1	0.01	4.6	0.2	0.15	5	<0.5	0.2
PM11-GW182	Soil	48	0.57	156	0.105	<1	1.94	0.022	0.19	<0.1	0.02	3.6	<0.1	0.07	5	<0.5	<0.2
PM11-GW183	Soil	47	0.59	196	0.081	<1	0.93	0.051	0.08	<0.1	<0.01	3.0	<0.1	0.06	3	<0.5	<0.2
PM11-GW184	Soil	47	0.51	107	0.095	<1	1.59	0.030	0.14	<0.1	0.01	3.8	<0.1	0.06	4	<0.5	<0.2
PM11-GW185	Soil	32	0.29	128	0.098	<1	1.57	0.027	0.05	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PM11-GW186	Soil	33	0.32	128	0.090	1	1.82	0.027	0.06	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
PM11-GW187	Soil	59	0.91	200	0.101	1	1.41	0.065	0.12	<0.1	0.01	4.4	<0.1	<0.05	4	<0.5	<0.2
PM11-GW188	Soil	64	0.88	218	0.103	<1	1.42	0.056	0.13	<0.1	<0.01	4.4	<0.1	<0.05	4	<0.5	<0.2
PM11-GW189	Soil	57	0.45	80	0.086	<1	1.21	0.055	0.07	<0.1	<0.01	3.3	<0.1	<0.05	3	<0.5	<0.2
PM11-GW190	Soil	83	0.76	88	0.081	<1	1.25	0.048	0.07	<0.1	<0.01	3.8	<0.1	<0.05	3	<0.5	<0.2
PM11-GW191	Soil	73	0.84	197	0.086	1	1.22	0.058	0.10	<0.1	0.01	4.8	<0.1	<0.05	4	<0.5	<0.2
PM11-GW192	Soil	91	1.10	141	0.100	<1	1.60	0.059	0.10	<0.1	0.02	5.9	<0.1	<0.05	4	<0.5	<0.2
PM11-GW193	Soil	84	0.73	158	0.082	<1	1.29	0.086	0.10	<0.1	<0.01	5.7	<0.1	<0.05	4	<0.5	<0.2
PM11-GW194	Soil	108	1.10	76	0.090	<1	1.26	0.058	0.08	<0.1	0.01	4.7	<0.1	<0.05	4	<0.5	<0.2
PM11-GW195	Soil	69	0.88	253	0.093	<1	1.33	0.066	0.12	<0.1	<0.01	5.0	<0.1	<0.05	4	<0.5	<0.2
PM11-GW196	Soil	73	0.85	272	0.078	<1	1.18	0.081	0.10	<0.1	<0.01	3.8	<0.1	0.06	3	<0.5	<0.2
PM11-GW197	Soil	80	1.71	319	0.090	1	1.73	0.075	0.14	<0.1	0.02	5.5	<0.1	<0.05	5	<0.5	<0.2
PM11-GW198	Soil	89	1.20	311	0.082	<1	1.38	0.067	0.10	<0.1	<0.01	5.6	<0.1	<0.05	4	<0.5	<0.2
PM11-GW199	Soil	76	0.82	364	0.108	<1	1.75	0.067	0.10	<0.1	0.02	6.8	<0.1	<0.05	5	<0.5	<0.2
PM11-GW200	Soil	22	0.26	65	0.076	<1	1.68	0.037	0.06	<0.1	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PM11-GW201	Soil	48	1.13	226	0.098	<1	1.50	0.076	0.21	<0.1	<0.01	4.8	0.1	0.05	4	<0.5	<0.2

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Project: PLACER MTN.
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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	0.1	2	0.01	0.001	
PM11-GW202	Soil	0.5	36.6	4.2	52	<0.1	27.0	10.3	424	2.74	4.6	6.7	2.6	53	<0.1	0.4	<0.1	69	0.50	0.071	12
PM11-GW203	Soil	0.4	31.5	5.4	69	0.2	35.3	9.4	226	2.36	4.8	9.3	1.8	42	<0.1	0.1	0.1	61	0.27	0.060	6
PM11-GW204	Soil	0.6	32.6	4.6	59	<0.1	32.8	11.1	281	2.91	6.0	3.5	2.1	48	0.1	0.2	<0.1	82	0.30	0.033	7
PM11-GW205	Soil	0.6	42.9	4.7	65	0.3	32.0	9.6	425	2.79	5.9	5.4	2.2	40	0.1	0.2	<0.1	76	0.37	0.048	13
PMS-33	Rock Pulp	17.5	69.7	17.4	18	0.1	17.4	2.7	116	3.77	454.3	233.9	0.8	28	0.3	26.3	0.1	10	1.01	0.005	2
PM11-GW206	Soil	0.5	27.4	4.5	56	<0.1	34.0	9.4	231	2.38	5.6	1.9	2.0	48	<0.1	0.1	<0.1	65	0.37	0.086	11
PM11-GW207	Soil	0.7	26.7	5.8	55	0.2	30.3	9.5	156	2.20	5.2	<0.5	1.4	27	<0.1	0.1	<0.1	59	0.19	0.105	5
PM11-GW208	Soil	0.7	66.3	5.1	47	<0.1	34.5	11.6	221	2.97	6.7	5.9	1.7	40	<0.1	0.2	0.2	104	0.31	0.095	7
PM11-GW209	Soil	0.5	42.3	5.1	46	<0.1	40.9	10.7	207	2.63	5.4	1.4	1.9	59	<0.1	0.2	<0.1	75	0.33	0.057	10
PM11-GW210	Soil	0.5	33.5	5.2	57	<0.1	48.0	10.7	214	2.47	5.8	8.5	1.8	51	<0.1	<0.1	<0.1	71	0.26	0.061	10
PM11-GW211	Soil	0.8	38.7	4.0	60	<0.1	34.3	10.0	332	2.76	7.3	1.8	2.5	76	<0.1	0.2	<0.1	80	0.39	0.084	14
PM11-GW212	Soil	0.2	20.7	4.6	40	<0.1	28.0	9.1	244	2.14	4.5	0.9	2.0	88	<0.1	<0.1	<0.1	60	0.41	0.073	11
PM11-GW213	Soil	0.6	25.9	2.5	52	<0.1	12.9	9.2	282	2.90	10.1	<0.5	2.7	36	<0.1	0.2	<0.1	92	0.41	0.067	7
PM11-GW214	Soil	0.8	43.4	3.1	89	<0.1	18.9	9.5	394	3.51	20.1	0.9	3.2	44	<0.1	0.3	<0.1	101	0.50	0.064	9
PM11-GW215	Soil	1.3	56.8	3.5	76	0.1	31.6	8.0	371	2.79	26.1	4.8	2.9	37	0.2	0.2	0.1	73	0.49	0.035	12
PM11-GW216	Soil	1.1	28.8	2.6	55	<0.1	18.9	5.8	164	2.28	17.9	<0.5	1.7	26	<0.1	0.2	<0.1	67	0.24	0.020	6
PM11-GW217	Soil	0.8	17.4	4.3	63	0.1	18.1	8.7	162	1.98	3.8	<0.5	1.0	22	0.2	<0.1	<0.1	56	0.18	0.064	3
PM11-GW218	Soil	1.1	40.2	2.7	58	<0.1	21.4	10.7	362	2.44	3.7	1.9	1.8	79	0.3	0.1	<0.1	69	4.42	0.055	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		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	
PM11-GW202	Soil	34	0.81	201	0.107	<1	1.45	0.040	0.30	0.1	<0.01	5.4	0.1	0.08	5	<0.5	<0.2
PM11-GW203	Soil	39	0.60	220	0.146	<1	2.33	0.027	0.18	<0.1	0.02	3.9	<0.1	<0.05	6	<0.5	<0.2
PM11-GW204	Soil	47	0.81	170	0.152	<1	1.96	0.024	0.26	<0.1	<0.01	4.8	0.1	<0.05	6	<0.5	<0.2
PM11-GW205	Soil	44	1.04	176	0.140	<1	1.99	0.018	0.28	<0.1	0.01	5.6	0.2	<0.05	5	<0.5	<0.2
PMS-33	Rock Pulp	24	0.03	742	0.010	<1	0.17	0.007	0.06	2.5	2.99	0.6	10.4	0.15	<1	1.9	<0.2
PM11-GW206	Soil	47	0.58	179	0.125	<1	1.79	0.031	0.18	<0.1	0.02	4.0	0.1	<0.05	5	<0.5	<0.2
PM11-GW207	Soil	35	0.43	134	0.115	<1	2.28	0.019	0.08	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
PM11-GW208	Soil	40	0.54	178	0.102	<1	2.20	0.014	0.11	0.1	0.01	3.1	<0.1	<0.05	6	<0.5	<0.2
PM11-GW209	Soil	62	0.62	231	0.119	<1	2.08	0.023	0.15	<0.1	<0.01	3.8	<0.1	<0.05	5	0.5	<0.2
PM11-GW210	Soil	58	0.62	244	0.126	<1	2.38	0.021	0.15	<0.1	0.01	3.4	<0.1	<0.05	6	<0.5	<0.2
PM11-GW211	Soil	43	0.73	269	0.144	<1	1.71	0.026	0.26	<0.1	0.01	4.7	0.2	<0.05	5	<0.5	<0.2
PM11-GW212	Soil	38	0.67	262	0.136	<1	1.70	0.038	0.18	<0.1	<0.01	3.5	0.1	<0.05	5	<0.5	<0.2
PM11-GW213	Soil	25	0.62	111	0.140	<1	1.18	0.018	0.32	0.3	0.02	3.6	0.3	<0.05	4	<0.5	<0.2
PM11-GW214	Soil	21	0.88	147	0.185	<1	1.62	0.013	0.45	0.2	0.03	6.5	0.4	<0.05	5	<0.5	<0.2
PM11-GW215	Soil	30	0.86	108	0.110	<1	1.39	0.016	0.20	0.1	0.16	7.7	0.2	<0.05	4	<0.5	<0.2
PM11-GW216	Soil	25	0.61	113	0.135	<1	1.34	0.018	0.40	0.1	0.03	4.7	0.2	<0.05	4	<0.5	<0.2
PM11-GW217	Soil	23	0.41	94	0.132	<1	1.78	0.018	0.14	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
PM11-GW218	Soil	25	0.77	288	0.154	<1	1.31	0.037	0.42	<0.1	<0.01	5.5	0.2	0.05	4	0.9	<0.2



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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
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																					
PM11-JF456	Soil	0.2	16.1	6.5	15	<0.1	10.9	3.0	69	1.02	1.4	1.0	1.5	69	<0.1	<0.1	0.1	26	0.30	0.044	16
REP PM11-JF456	QC	0.2	17.7	6.6	18	<0.1	10.9	3.2	76	1.03	2.0	<0.5	1.6	73	<0.1	0.1	0.1	29	0.31	0.045	16
PM11-JF487	Soil	0.5	11.6	3.8	24	0.1	15.6	5.9	62	1.51	1.7	<0.5	1.2	15	<0.1	<0.1	<0.1	44	0.09	0.122	3
REP PM11-JF487	QC	0.6	11.9	3.4	23	0.2	15.1	5.8	64	1.58	1.9	<0.5	1.1	14	<0.1	<0.1	<0.1	44	0.10	0.122	3
PM11-JF489	Soil	0.6	19.9	5.4	41	<0.1	24.2	8.0	125	1.85	1.0	1.9	1.5	25	<0.1	0.1	0.1	46	0.12	0.106	6
REP PM11-JF489	QC	0.6	19.4	5.1	40	<0.1	23.4	7.9	120	1.74	1.0	1.4	1.5	25	<0.1	0.1	0.1	44	0.12	0.103	6
PM11-JF515	Soil	0.3	8.3	3.2	34	<0.1	18.9	4.4	142	1.25	<0.5	<0.5	0.8	23	<0.1	<0.1	<0.1	32	0.13	0.023	4
REP PM11-JF515	QC	0.2	8.5	3.4	33	<0.1	19.5	4.5	138	1.26	<0.5	<0.5	0.8	24	<0.1	<0.1	<0.1	31	0.14	0.023	4
PM11-JF529	Soil	0.1	7.2	6.0	21	<0.1	17.3	3.8	39	1.12	1.0	<0.5	1.0	26	<0.1	<0.1	0.1	27	0.10	0.072	3
REP PM11-JF529	QC	0.2	7.6	5.7	21	<0.1	17.4	3.7	40	1.15	1.2	<0.5	0.9	26	0.1	<0.1	0.1	27	0.10	0.075	3
PM11-JF551	Soil	1.1	16.7	6.3	51	0.7	27.5	7.8	138	1.97	6.3	<0.5	1.2	16	<0.1	0.3	0.1	57	0.12	0.100	3
REP PM11-JF551	QC	1.3	17.3	6.4	49	0.7	27.0	7.6	140	1.98	6.2	0.7	1.3	17	0.1	0.2	0.1	57	0.14	0.101	3
PM11-JF562	Soil	0.5	14.0	6.1	55	0.2	19.2	6.5	174	2.10	3.4	0.6	1.3	24	0.1	<0.1	0.1	50	0.18	0.126	4
REP PM11-JF562	QC	0.5	13.7	5.8	52	0.1	17.9	6.3	164	1.99	2.9	<0.5	1.3	23	<0.1	<0.1	<0.1	47	0.18	0.120	4
PM11-JF578	Soil	0.8	12.5	5.5	34	<0.1	17.4	6.2	94	1.73	1.0	1.4	1.4	24	<0.1	<0.1	<0.1	40	0.22	0.114	5
REP PM11-JF578	QC	0.8	12.7	5.3	33	<0.1	17.4	6.1	93	1.75	0.9	<0.5	1.6	23	<0.1	<0.1	0.1	41	0.21	0.111	5
PM11-GW137	Soil	0.3	23.2	2.6	36	<0.1	53.2	7.8	178	2.09	1.6	<0.5	1.7	52	<0.1	<0.1	<0.1	53	0.32	0.075	12
REP PM11-GW137	QC	0.3	24.5	2.7	37	<0.1	53.6	7.9	190	2.14	1.9	<0.5	1.8	55	<0.1	<0.1	<0.1	55	0.34	0.075	12
PM11-GW153	Soil	0.3	16.1	3.5	70	<0.1	22.5	7.7	332	1.88	1.0	<0.5	1.4	21	0.1	<0.1	<0.1	51	0.18	0.065	5
REP PM11-GW153	QC	0.3	16.1	3.6	68	<0.1	21.8	7.5	314	1.85	0.9	<0.5	1.4	21	<0.1	<0.1	<0.1	51	0.17	0.064	5
PM11-GW169	Soil	0.4	34.1	3.8	48	<0.1	44.2	12.8	305	2.49	3.1	<0.5	2.6	39	<0.1	0.1	<0.1	69	0.27	0.076	14
REP PM11-GW169	QC	0.5	33.5	3.9	48	<0.1	41.7	13.1	329	2.57	2.9	1.1	2.7	39	<0.1	0.1	<0.1	71	0.28	0.079	14
PM11-GW187	Soil	0.3	21.9	4.0	40	<0.1	47.6	9.1	237	2.50	1.4	1.3	2.7	111	<0.1	<0.1	<0.1	64	0.54	0.071	16
REP PM11-GW187	QC	0.3	23.0	4.2	40	<0.1	49.4	9.7	238	2.55	1.4	0.6	2.7	115	<0.1	<0.1	<0.1	65	0.53	0.078	17
Reference Materials																					
STD DS8	Standard	13.5	122.8	127.2	316	1.7	42.2	8.2	625	2.51	30.4	104.6	6.9	68	2.3	5.9	6.7	49	0.69	0.082	14
STD DS8	Standard	14.8	122.1	129.3	322	1.8	41.7	8.2	615	2.43	29.5	111.1	7.1	71	2.4	6.0	6.5	48	0.71	0.081	15
STD DS8	Standard	12.3	103.3	116.9	288	1.5	35.8	7.0	582	2.24	25.1	110.6	6.4	64	2.2	5.4	6.4	40	0.64	0.074	14

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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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																	
PM11-JF456	Soil	41	0.20	115	0.064	<1	1.48	0.015	0.09	<0.1	0.03	4.0	<0.1	0.09	4	<0.5	<0.2
REP PM11-JF456	QC	43	0.21	115	0.077	2	1.51	0.017	0.09	0.1	0.03	4.0	<0.1	0.16	4	<0.5	<0.2
PM11-JF487	Soil	17	0.15	80	0.099	<1	1.91	0.022	0.06	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
REP PM11-JF487	QC	17	0.14	83	0.101	<1	1.86	0.017	0.06	<0.1	0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
PM11-JF489	Soil	27	0.33	131	0.096	1	1.96	0.016	0.07	<0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
REP PM11-JF489	QC	26	0.32	127	0.097	1	1.95	0.020	0.07	0.1	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
PM11-JF515	Soil	30	0.23	87	0.077	<1	1.04	0.017	0.05	<0.1	<0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
REP PM11-JF515	QC	29	0.24	94	0.075	<1	1.10	0.019	0.06	<0.1	0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
PM11-JF529	Soil	13	0.13	84	0.094	<1	1.69	0.015	0.06	<0.1	0.01	1.1	<0.1	<0.05	6	<0.5	<0.2
REP PM11-JF529	QC	13	0.13	83	0.093	3	1.66	0.015	0.05	<0.1	<0.01	1.1	<0.1	<0.05	7	<0.5	<0.2
PM11-JF551	Soil	27	0.32	158	0.129	<1	1.77	0.012	0.11	<0.1	0.03	2.3	<0.1	<0.05	7	<0.5	<0.2
REP PM11-JF551	QC	28	0.33	160	0.130	<1	1.99	0.013	0.12	<0.1	0.03	2.4	<0.1	<0.05	6	<0.5	<0.2
PM11-JF562	Soil	20	0.25	128	0.109	1	2.08	0.017	0.08	<0.1	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
REP PM11-JF562	QC	19	0.24	124	0.099	2	2.03	0.017	0.07	<0.1	0.02	2.1	<0.1	<0.05	7	<0.5	<0.2
PM11-JF578	Soil	21	0.25	96	0.092	1	2.17	0.019	0.06	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
REP PM11-JF578	QC	22	0.25	94	0.092	2	2.09	0.019	0.06	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PM11-GW137	Soil	64	0.67	117	0.072	1	1.26	0.025	0.09	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
REP PM11-GW137	QC	67	0.70	121	0.082	<1	1.33	0.025	0.10	<0.1	<0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
PM11-GW153	Soil	37	0.38	107	0.079	<1	1.50	0.014	0.08	<0.1	<0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
REP PM11-GW153	QC	36	0.38	106	0.076	<1	1.40	0.011	0.08	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
PM11-GW169	Soil	52	0.60	179	0.091	<1	1.54	0.032	0.19	<0.1	0.01	4.6	<0.1	0.07	4	<0.5	<0.2
REP PM11-GW169	QC	52	0.65	188	0.090	<1	1.52	0.030	0.20	<0.1	<0.01	4.7	0.1	<0.05	4	<0.5	<0.2
PM11-GW187	Soil	59	0.91	200	0.101	1	1.41	0.065	0.12	<0.1	0.01	4.4	<0.1	<0.05	4	<0.5	<0.2
REP PM11-GW187	QC	59	0.91	200	0.104	<1	1.38	0.059	0.12	<0.1	<0.01	4.5	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	125	0.63	270	0.132	<1	0.91	0.086	0.39	2.9	0.19	2.1	5.3	0.15	5	5.2	5.1
STD DS8	Standard	126	0.61	282	0.138	2	0.92	0.088	0.41	2.9	0.18	2.1	5.2	0.19	4	5.7	5.7
STD DS8	Standard	109	0.56	268	0.107	2	0.88	0.098	0.42	2.9	0.18	2.5	5.3	0.22	5	4.8	4.7



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		1DX15 Mo ppm 0.1	1DX15 Cu ppm 0.1	1DX15 Pb ppm 0.1	1DX15 Zn ppm 1	1DX15 Ag ppm 0.1	1DX15 Ni ppm 0.1	1DX15 Co ppm 0.1	1DX15 Mn ppm 1	1DX15 Fe % 0.01	1DX15 As ppm 0.5	1DX15 Au ppb 0.5	1DX15 Th ppm 0.1	1DX15 Sr ppm 1	1DX15 Cd ppm 0.1	1DX15 Sb ppm 0.1	1DX15 Bi ppm 0.1	1DX15 V ppm 2	1DX15 Ca % 0.01	1DX15 P % 0.001	1DX15 La ppm 1
STD DS8	Standard	12.2	96.9	112.8	276	1.7	33.3	6.6	537	2.08	23.1	96.0	6.2	62	2.0	5.1	5.9	38	0.62	0.069	14
STD DS8	Standard	12.5	106.2	120.4	302	1.9	36.3	6.8	591	2.34	24.1	104.9	6.6	62	2.1	5.3	6.5	41	0.65	0.075	14
STD DS8	Standard	13.0	108.7	124.5	312	1.8	38.5	7.5	590	2.47	25.1	120.5	6.7	67	2.2	5.3	6.7	40	0.67	0.076	15
STD DS8	Standard	13.7	109.1	122.9	316	1.9	37.4	7.3	634	2.44	28.1	109.3	6.9	68	2.4	6.1	6.7	41	0.68	0.078	15
STD DS8	Standard	13.7	103.8	125.9	296	1.9	36.2	7.1	585	2.30	24.6	115.8	7.3	68	2.4	5.7	6.7	40	0.67	0.078	16
STD DS8	Standard	11.9	104.3	120.8	302	1.7	37.4	7.2	589	2.38	25.7	122.2	6.1	59	2.4	5.4	7.3	41	0.65	0.080	12
STD DS8	Standard	12.5	105.7	121.5	305	1.8	38.4	7.3	577	2.39	26.6	109.3	6.4	61	2.5	5.6	7.2	41	0.67	0.081	13
STD DS8	Standard	13.3	106.1	130.8	308	1.7	37.1	7.4	597	2.45	26.4	114.3	6.9	69	2.3	6.1	6.6	43	0.70	0.081	14
STD DS8	Standard	12.0	100.2	130.6	290	1.7	35.7	6.6	545	2.28	24.2	103.9	7.2	66	2.1	6.0	6.6	41	0.65	0.076	14
STD DS8	Standard	13.7	114.6	142.1	329	1.9	40.5	8.0	672	2.58	27.5	152.7	7.4	72	2.1	6.2	7.4	43	0.74	0.079	15
STD DS8	Standard	13.5	110.2	139.5	314	1.9	39.3	7.4	647	2.48	26.0	113.8	7.2	74	2.3	5.9	6.8	43	0.69	0.080	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	<0.01	<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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		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	100	0.54	257	0.102	2	0.83	0.092	0.38	2.9	0.18	2.3	4.8	0.13	4	4.3	4.7
STD DS8	Standard	115	0.58	263	0.112	4	0.87	0.088	0.40	2.8	0.21	2.1	5.1	0.14	5	5.2	4.9
STD DS8	Standard	113	0.60	281	0.111	3	0.92	0.096	0.41	2.9	0.21	2.2	5.5	0.13	5	5.0	5.4
STD DS8	Standard	119	0.62	288	0.117	4	0.90	0.091	0.45	3.0	0.21	2.1	5.5	0.22	5	5.9	5.5
STD DS8	Standard	112	0.63	301	0.117	2	0.94	0.090	0.41	2.8	0.21	2.2	5.6	0.20	5	5.2	5.0
STD DS8	Standard	112	0.59	265	0.101	2	0.89	0.083	0.41	2.9	0.18	1.8	5.4	0.18	4	5.5	4.7
STD DS8	Standard	113	0.58	276	0.106	3	0.89	0.086	0.40	2.8	0.19	1.9	5.4	0.14	5	5.3	4.7
STD DS8	Standard	119	0.63	276	0.116	2	0.90	0.086	0.42	3.0	0.21	2.1	5.6	0.19	5	4.7	4.7
STD DS8	Standard	111	0.57	265	0.113	3	0.85	0.083	0.40	2.7	0.21	2.0	5.5	0.15	4	5.0	4.4
STD DS8	Standard	121	0.63	282	0.125	2	1.00	0.093	0.45	3.1	0.20	2.1	5.5	0.19	5	5.3	5.4
STD DS8	Standard	121	0.62	279	0.118	1	0.95	0.100	0.45	3.0	0.19	2.2	5.2	0.23	5	4.8	5.4
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: July 25, 2011
Report Date: August 06, 2011
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN11003409.1

CLIENT JOB INFORMATION

Project: PLACER MTN.
Shipment ID: Shipment #5
P.O. Number
Number of Samples: 10

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	10	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX2	10	1:1:1 Aqua Regia digestion ICP-MS analysis	15	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
Bill 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: PLACER MTN.
 Report Date: August 06, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN11003409.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
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	
PM11GWR74	Rock	1.79	1.7	6.2	1.1	7	<0.1	2.4	1.2	63	0.56	<0.5	0.7	0.3	5	<0.1	<0.1	<0.1	3	0.04	0.009
PM11GWR75	Rock	2.49	2.2	7.1	2.5	11	<0.1	6.0	1.9	90	0.70	0.7	<0.5	0.6	5	<0.1	<0.1	<0.1	7	0.06	0.013
PM11GWR76	Rock	1.80	5.9	50.1	1.5	32	0.1	12.9	6.7	86	1.49	0.9	<0.5	2.7	64	0.2	<0.1	<0.1	31	1.17	0.030
PM11GWR77	Rock	1.72	0.4	3.5	0.6	2	<0.1	1.1	0.4	51	0.39	1.2	<0.5	<0.1	2	<0.1	<0.1	<0.1	<2	0.03	0.001
PM11GWR78	Rock	1.45	0.6	9.0	0.5	41	0.1	11.3	5.0	104	0.70	6.4	0.9	1.7	66	<0.1	0.1	<0.1	16	2.41	0.043
PM11GWR79	Rock	1.69	3.1	3.7	0.4	2	<0.1	1.6	1.8	84	0.46	1.3	1.3	9.9	17	<0.1	<0.1	<0.1	3	0.16	0.004
PM11GWR80	Rock	1.56	0.2	2.0	0.1	<1	<0.1	0.7	0.3	39	0.38	1.2	<0.5	<0.1	1	<0.1	<0.1	<0.1	<2	0.02	<0.001
PM11GWR81	Rock	1.70	0.3	2.8	0.5	<1	0.4	1.2	0.8	48	0.57	0.8	15.1	<0.1	1	<0.1	<0.1	<0.1	4	<0.01	<0.001
PM11GWR82	Rock	1.89	0.2	1.2	<0.1	<1	<0.1	0.7	0.2	37	0.37	<0.5	<0.5	<0.1	1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
PM11GWR83	Rock	1.34	0.3	2.0	1.2	6	<0.1	1.5	0.7	59	0.42	1.1	<0.5	1.5	9	<0.1	<0.1	<0.1	3	0.16	0.003



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Project: PLACER MTN.
 Report Date: August 06, 2011

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN11003409.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
PM11GWR74	Rock	<1	13	0.05	18	0.003	<1	0.15	0.017	0.04	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
PM11GWR75	Rock	2	7	0.12	33	0.003	<1	0.25	0.017	0.06	<0.1	<0.01	0.5	<0.1	<0.05	<1	<0.5	0.2
PM11GWR76	Rock	7	25	0.30	98	0.101	1	1.35	0.150	0.21	0.1	<0.01	2.1	0.1	0.39	3	1.6	<0.2
PM11GWR77	Rock	<1	4	0.01	3	0.001	<1	0.02	0.003	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
PM11GWR78	Rock	6	8	0.14	22	0.085	1	0.71	0.004	0.02	0.2	<0.01	1.5	<0.1	0.06	2	<0.5	<0.2
PM11GWR79	Rock	2	6	0.03	23	0.013	<1	0.29	0.070	0.04	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
PM11GWR80	Rock	<1	2	<0.01	2	0.002	<1	0.02	0.003	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
PM11GWR81	Rock	<1	8	<0.01	11	<0.001	1	0.04	0.003	0.02	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
PM11GWR82	Rock	<1	2	<0.01	2	0.001	<1	0.02	0.005	<0.01	<0.1	0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
PM11GWR83	Rock	1	8	0.02	14	0.012	1	0.17	0.016	0.02	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2



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Project: PLACER MTN.
Report Date: August 06, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN11003409.1

Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
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	
Reference Materials																					
STD DS8	Standard	14.0	112.5	122.5	311	1.8	37.6	7.7	611	2.48	25.6	131.1	6.8	64	2.4	5.2	5.9	42	0.73	0.083	
STD DS8	Standard	13.3	112.8	129.1	310	1.8	37.8	7.4	594	2.43	25.9	131.4	6.8	63	2.3	5.0	6.2	42	0.71	0.082	
STD DS8	Standard	12.6	116.9	133.8	325	1.9	40.6	8.1	621	2.50	27.6	119.5	6.5	61	2.2	5.7	6.8	44	0.70	0.077	
STD DS8	Standard	13.9	117.9	140.0	324	1.9	41.2	8.1	639	2.54	27.8	121.2	6.8	63	2.3	5.5	7.1	44	0.71	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	
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	0.3	1.8	2.2	44	<0.1	3.5	4.3	582	2.03	<0.5	<0.5	5.4	75	<0.1	<0.1	<0.1	38	0.54	0.072
G1	Prep Blank	<0.01	0.5	1.7	2.8	45	<0.1	3.5	4.4	587	2.01	<0.5	<0.5	5.2	70	<0.1	<0.1	<0.1	38	0.51	0.071



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Project: PLACER MTN.

Report Date: August 06, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN11003409.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Reference Materials																		
STD DS8	Standard	15	118	0.61	280	0.118	3	0.93	0.089	0.43	2.7	0.19	2.1	4.9	0.16	5	4.8	4.5
STD DS8	Standard	14	115	0.59	280	0.114	2	0.89	0.086	0.42	2.6	0.19	2.1	5.4	0.16	4	4.8	5.0
STD DS8	Standard	12	119	0.61	263	0.110	2	0.92	0.088	0.41	3.1	0.22	1.7	5.5	0.17	4	4.9	4.8
STD DS8	Standard	14	126	0.62	278	0.114	2	0.92	0.090	0.44	3.1	0.20	1.9	5.7	0.18	5	5.9	4.8
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1	Prep Blank	11	10	0.55	213	0.124	<1	1.06	0.111	0.51	<0.1	<0.01	2.0	0.3	<0.05	5	<0.5	<0.2
G1	Prep Blank	11	9	0.56	209	0.113	<1	1.00	0.093	0.48	<0.1	<0.01	2.0	0.3	<0.05	5	<0.5	<0.2



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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: September 12, 2011
Report Date: October 20, 2011
Page: 1 of 3

CERTIFICATE OF ANALYSIS

VAN11004663.1

CLIENT JOB INFORMATION

Project: PLACER MTN.
Shipment ID: #1
P.O. Number
Number of Samples: 37

SAMPLE DISPOSAL

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

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

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

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Table with 6 columns: Method Code, Number of Samples, Code Description, Test Wgt (g), Report Status, Lab. Rows include R200-250, 1DX3, G601, and G6.

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: PLACER MTN.
 Report Date: October 20, 2011

Page: 2 of 3 Part 1

CERTIFICATE OF ANALYSIS

VAN11004663.1

Method Analyte Unit MDL	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	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	
PM11-EBR01	Rock	1.64	2.0	60.4	0.8	5	0.2	1.8	1.0	394	0.59	1.0	6.9	1.2	5	<0.1	0.2	13.4	13	0.06	0.027
PM11-EBR02	Rock	2.49	2.9	14.0	1.8	2	0.9	1.3	1.1	84	0.36	1.1	396.6	<0.1	4	<0.1	0.1	16.9	3	<0.01	0.002
PM11-EBR03	Rock	2.09	14.7	139.1	10.0	5	1.2	1.8	2.4	68	2.25	5.6	272.2	<0.1	4	<0.1	0.6	28.8	25	0.01	0.012
PM11-EBR04	Rock	2.37	0.5	17.4	13.8	6	4.5	1.4	4.5	116	0.85	1.1	102.3	0.2	4	<0.1	0.2	5.1	9	<0.01	0.004
PM11-EBR05	Rock	2.49	2.4	19.7	1.4	4	0.1	1.3	1.4	63	0.93	28.3	7.2	<0.1	3	<0.1	0.6	22.4	14	<0.01	0.005
PM11-EBR06	Rock	2.33	6.4	40.2	2.0	8	0.5	2.4	4.6	85	1.38	34.9	93.2	0.1	4	<0.1	1.4	49.7	12	<0.01	0.005
PM11-EBR07	Rock	1.26	1.5	8.9	9.2	3	5.7	1.0	0.6	84	0.37	0.6	332.5	0.3	3	<0.1	0.1	10.4	4	0.01	0.009
PM11-EBR08	Rock	2.84	6.9	98.2	5.6	5	0.5	1.8	6.5	69	1.19	47.3	35.3	<0.1	5	<0.1	2.5	142.5	15	0.01	0.004
PM11-EBR09	Rock	2.35	4.2	100.6	4.3	9	0.5	2.2	9.4	103	1.15	33.0	163.4	0.1	5	<0.1	1.8	72.7	10	0.03	0.004
PM11-EBR10	Rock	1.73	0.4	29.0	4.2	75	<0.1	23.6	23.2	864	4.64	5.1	3.2	0.7	250	<0.1	0.2	0.7	157	2.25	0.070
PM11-EBR11	Rock	1.73	1.1	10.3	0.9	2	0.3	0.9	1.6	49	0.30	3.3	8.0	<0.1	<1	<0.1	<0.1	3.7	2	<0.01	0.002
PM11-EBR12	Rock	1.18	2.1	125.6	1.9	5	2.1	1.8	4.5	115	1.23	5.2	37.6	<0.1	5	<0.1	1.6	80.9	16	0.02	0.005
PMS-01	Rock Pulp		15.6	63.3	16.9	20	0.2	16.8	2.6	107	3.73	455.5	188.7	0.7	35	0.4	24.9	0.5	9	1.05	0.005
PM11-EBR13	Rock	0.80	0.2	1.5	0.7	<1	0.3	1.2	0.3	40	0.23	0.7	29.1	<0.1	4	<0.1	<0.1	0.3	<2	0.07	0.001
PM11-EBR14	Rock	1.33	1.3	15.6	7.6	6	11.0	4.8	1.7	289	1.21	7.6	1645	0.2	6	<0.1	2.2	0.8	18	0.01	0.008
PM11-EBR15	Rock	1.63	0.5	2.8	0.7	<1	2.9	1.4	0.4	30	0.41	4.5	115.2	<0.1	3	<0.1	0.5	<0.1	2	<0.01	0.001
PM11-EBR16	Rock	2.27	2.0	43.7	170.9	8	65.0	3.4	2.0	93	1.27	11.9	12546	<0.1	4	<0.1	10.0	1.7	10	<0.01	0.012
PM11-EBR17	Rock	1.76	2.1	38.3	132.1	26	14.2	3.0	3.1	238	1.06	17.2	3500	0.2	5	0.2	45.4	0.2	13	0.02	0.021
PM11-EBR18	Rock	1.52	0.3	4.0	1.3	<1	20.7	1.0	0.7	28	0.50	6.1	1550	<0.1	4	<0.1	1.2	0.1	<2	<0.01	0.002
PM11-EBR19	Rock	1.86	0.3	12.5	10.2	2	29.5	1.6	5.1	38	1.09	24.2	1971	<0.1	5	<0.1	4.2	<0.1	4	<0.01	0.005
PM11-EBR20	Rock	1.52	3.6	16.7	26.8	11	15.3	2.6	0.7	70	0.91	7.8	3395	<0.1	3	<0.1	5.9	0.2	7	<0.01	0.008
PM11-EBR21	Rock	0.77	0.3	5.7	5.8	6	0.5	3.4	2.3	52	0.37	1.7	29.6	0.6	17	<0.1	<0.1	<0.1	5	0.12	0.005
PM11-EBR22	Rock	1.79	1.1	5.8	26.6	2	22.6	1.5	0.5	57	0.61	4.0	5028	<0.1	3	<0.1	7.6	3.7	3	<0.01	0.005
PM11-EBR23	Rock	1.21	1.1	28.7	2.6	24	<0.1	11.9	12.9	248	1.10	8.5	17.3	0.5	30	<0.1	0.1	<0.1	31	0.42	0.032
PM11-EBR24	Rock	1.20	0.2	2.2	0.3	1	0.2	1.1	0.3	57	0.27	0.7	7.3	<0.1	3	<0.1	<0.1	<0.1	<2	<0.01	<0.001
PMS-02	Rock Pulp		116.1	3638	23.2	63	2.5	36.6	20.2	415	4.31	55.8	356.2	2.1	33	0.3	3.6	0.3	118	0.33	0.098
PM11-EBR25	Rock	2.12	0.6	13.6	10.0	4	35.7	4.0	1.4	354	0.39	4.4	30547	<0.1	5	<0.1	3.5	0.2	5	<0.01	0.003
PM11-EBR26	Rock	1.55	2.3	25.1	39.4	3	>100	2.1	2.0	119	0.50	6.8	19002	<0.1	1	<0.1	31.0	1.9	5	<0.01	0.003
PM11-EBR27	Rock	1.09	0.2	31.9	6.4	54	0.3	41.4	10.4	405	2.22	7.0	92.0	1.1	30	0.3	0.3	0.2	29	0.72	0.115
PM11-EBR28	Rock	1.39	0.4	46.1	15.8	41	1.6	19.0	6.4	867	2.17	5.0	934.5	1.2	80	0.5	0.6	0.2	13	5.41	0.047

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Project: PLACER MTN.
 Report Date: October 20, 2011

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CERTIFICATE OF ANALYSIS

VAN11004663.1

Method Analyte Unit MDL		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	G6	G6Gr
		La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	Au gm/t
PM11-EBR01	Rock	5	13	0.04	215	0.002	<1	0.31	0.004	0.20	60.0	<0.01	0.8	<0.1	<0.05	<1	<0.5	11.4	
PM11-EBR02	Rock	<1	19	0.01	19	0.002	<1	0.05	0.003	0.02	4.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	12.6	
PM11-EBR03	Rock	<1	15	0.02	20	0.002	<1	0.11	0.002	0.03	1.6	<0.01	0.7	<0.1	<0.05	<1	1.3	30.4	
PM11-EBR04	Rock	<1	16	0.02	28	0.002	<1	0.10	0.005	0.04	1.7	<0.01	0.4	<0.1	0.09	<1	<0.5	4.0	
PM11-EBR05	Rock	<1	17	<0.01	6	<0.001	<1	0.03	0.002	<0.01	3.3	<0.01	0.2	<0.1	<0.05	<1	<0.5	25.9	
PM11-EBR06	Rock	1	18	0.03	12	0.001	<1	0.09	0.002	0.01	2.7	<0.01	0.4	<0.1	<0.05	<1	0.5	44.6	
PM11-EBR07	Rock	2	16	<0.01	56	<0.001	<1	0.09	0.003	0.06	1.5	0.02	0.4	<0.1	<0.05	<1	<0.5	9.4	
PM11-EBR08	Rock	2	16	0.02	12	0.001	<1	0.08	0.002	0.01	2.9	<0.01	0.4	<0.1	<0.05	<1	0.7	101.9	
PM11-EBR09	Rock	1	15	0.05	18	0.002	<1	0.18	0.003	0.02	0.7	<0.01	0.5	<0.1	<0.05	<1	<0.5	55.0	
PM11-EBR10	Rock	6	22	1.27	84	0.198	<1	4.28	0.302	0.05	<0.1	0.02	11.3	<0.1	<0.05	9	<0.5	0.2	
PM11-EBR11	Rock	<1	16	<0.01	6	<0.001	<1	0.03	0.002	<0.01	0.3	<0.01	0.1	<0.1	<0.05	<1	<0.5	3.1	
PM11-EBR12	Rock	<1	5	0.03	11	0.002	<1	0.09	0.003	0.02	0.2	0.12	0.5	<0.1	<0.05	<1	<0.5	65.4	
PMS-01	Rock Pulp	2	24	0.02	1948	0.010	<1	0.15	0.006	0.06	2.7	2.81	0.5	10.8	0.15	<1	1.2	<0.2	
PM11-EBR13	Rock	<1	13	<0.01	3	<0.001	<1	0.02	0.003	<0.01	0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	0.4	
PM11-EBR14	Rock	1	7	0.01	21	0.001	<1	0.04	0.003	<0.01	<0.1	0.01	0.7	<0.1	<0.05	<1	<0.5	3.8	1.656
PM11-EBR15	Rock	<1	17	<0.01	5	<0.001	<1	0.01	0.002	<0.01	0.2	<0.01	<0.1	<0.1	<0.05	<1	<0.5	0.6	
PM11-EBR16	Rock	<1	7	<0.01	9	<0.001	<1	0.02	0.001	<0.01	<0.1	0.10	0.3	<0.1	0.06	<1	0.7	14.9	>10 18.0
PM11-EBR17	Rock	2	18	<0.01	17	<0.001	<1	0.03	0.002	<0.01	0.1	0.05	0.3	<0.1	0.07	<1	<0.5	4.0	9.716
PM11-EBR18	Rock	<1	6	<0.01	13	<0.001	<1	<0.01	0.002	0.01	<0.1	<0.01	<0.1	<0.1	0.09	<1	<0.5	2.5	1.455
PM11-EBR19	Rock	<1	17	<0.01	8	<0.001	<1	0.01	0.001	<0.01	0.2	<0.01	<0.1	<0.1	0.47	<1	0.5	3.4	2.099
PM11-EBR20	Rock	<1	6	<0.01	15	<0.001	<1	0.04	0.002	0.02	<0.1	0.01	0.2	<0.1	<0.05	<1	<0.5	7.8	2.903
PM11-EBR21	Rock	1	11	0.02	15	0.005	<1	0.22	0.001	<0.01	<0.1	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2	
PM11-EBR22	Rock	<1	7	<0.01	12	<0.001	<1	0.03	0.002	0.01	<0.1	0.05	<0.1	<0.1	<0.05	<1	<0.5	10.6	6.945
PM11-EBR23	Rock	5	22	0.22	92	0.052	<1	0.91	0.041	0.12	<0.1	<0.01	2.1	<0.1	<0.05	2	<0.5	<0.2	
PM11-EBR24	Rock	<1	7	0.02	2	0.001	<1	0.03	0.005	<0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2	
PMS-02	Rock Pulp	12	52	0.92	46	0.115	<1	1.42	0.038	0.93	4.4	0.05	8.9	0.5	2.12	5	5.6	1.1	
PM11-EBR25	Rock	<1	15	0.02	21	0.002	<1	0.10	0.003	<0.01	<0.1	0.09	0.4	<0.1	<0.05	<1	<0.5	2.9	>10 32.7
PM11-EBR26	Rock	<1	7	<0.01	10	0.001	<1	0.06	0.002	<0.01	<0.1	0.11	<0.1	<0.1	<0.05	<1	<0.5	3.8	>10 17.7
PM11-EBR27	Rock	12	34	0.52	80	0.028	2	0.83	0.008	0.23	<0.1	0.01	1.9	<0.1	<0.05	2	<0.5	<0.2	
PM11-EBR28	Rock	10	14	0.29	62	0.004	1	0.40	0.010	0.13	<0.1	0.04	2.4	<0.1	<0.05	1	0.7	0.3	0.099

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CERTIFICATE OF ANALYSIS

VAN11004663.1

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	
PM11-GWR01-A	Rock	1.38	8.6	20.0	14.7	11	8.2	5.5	4.4	449	0.62	11.9	5128	<0.1	2	<0.1	8.4	1.1	8	0.02	0.007
PM11-GWR02-A	Rock	1.94	34.0	11.6	31.2	5	48.9	2.4	2.2	119	0.62	31.0	8569	0.1	2	0.1	25.1	1.1	6	0.04	0.013
PM11-GWR02-B	Rock	1.17	13.0	19.2	103.2	8	6.5	7.3	3.8	738	1.21	13.9	600.5	2.0	7	0.4	7.4	1.6	15	0.04	0.028
PM11-GWR02-C	Rock	1.82	3.6	27.2	57.7	11	50.5	6.0	5.8	591	1.09	19.0	43799	0.2	7	0.2	15.5	2.6	12	0.02	0.011
PM11-GWR02-D	Rock	0.86	2.9	79.9	95.3	33	18.5	14.5	17.8	1397	5.18	44.5	322.8	1.6	14	0.6	7.5	10.5	34	0.03	0.037
PM11-GWR02-E	Rock	1.21	10.1	19.6	143.3	10	6.3	5.4	4.0	483	0.92	19.6	166.5	1.1	4	0.2	6.9	0.2	16	0.03	0.013
PM11-GWR02-F	Rock	2.59	7.0	16.1	63.0	8	74.9	4.4	4.0	325	0.87	18.5	66237	0.2	5	0.1	14.2	3.5	12	0.02	0.013



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CERTIFICATE OF ANALYSIS

VAN11004663.1

Method	Analyte	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	G6	G6Gr
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au	Au
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t	gm/t
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	0.005	0.9	
PM11-GWR01-A	Rock	<1	17	0.01	32	0.004	<1	0.10	0.004	0.01	0.1	0.04	<0.1	<0.1	<0.05	<1	<0.5	6.0	1.736	
PM11-GWR02-A	Rock	<1	6	<0.01	20	0.001	<1	0.06	0.002	0.01	<0.1	0.09	<0.1	<0.1	<0.05	<1	<0.5	15.4	8.098	
PM11-GWR02-B	Rock	13	7	0.03	208	0.002	2	0.37	0.005	0.21	<0.1	0.03	0.6	<0.1	<0.05	<1	<0.5	6.7	0.553	
PM11-GWR02-C	Rock	<1	8	0.01	48	0.003	<1	0.10	0.003	<0.01	<0.1	0.11	0.4	<0.1	<0.05	<1	<0.5	6.0	>10	50.6
PM11-GWR02-D	Rock	11	7	0.03	208	0.002	<1	0.31	0.007	0.21	0.1	0.03	1.3	<0.1	<0.05	<1	<0.5	25.7		
PM11-GWR02-E	Rock	9	4	0.02	69	0.001	<1	0.20	0.003	0.12	0.2	0.03	1.0	<0.1	<0.05	<1	<0.5	3.0		
PM11-GWR02-F	Rock	1	14	0.02	39	0.003	<1	0.12	0.002	0.02	0.1	0.18	0.3	<0.1	<0.05	<1	<0.5	13.2	>10	81.9



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QUALITY CONTROL REPORT

VAN11004663.1

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																					
PM11-EBR03	Rock	2.09	14.7	139.1	10.0	5	1.2	1.8	2.4	68	2.25	5.6	272.2	<0.1	4	<0.1	0.6	28.8	25	0.01	0.012
REP PM11-EBR03	QC		14.5	135.1	10.1	4	1.2	1.5	2.4	67	2.29	5.8	285.0	<0.1	4	<0.1	0.6	29.0	25	0.01	0.013
PM11-EBR17	Rock	1.76	2.1	38.3	132.1	26	14.2	3.0	3.1	238	1.06	17.2	3500	0.2	5	0.2	45.4	0.2	13	0.02	0.021
REP PM11-EBR17	QC																				
PM11-EBR24	Rock	1.20	0.2	2.2	0.3	1	0.2	1.1	0.3	57	0.27	0.7	7.3	<0.1	3	<0.1	<0.1	<0.1	<2	<0.01	<0.001
REP PM11-EBR24	QC		0.3	2.2	0.4	1	0.2	1.2	0.4	58	0.27	0.8	10.7	<0.1	3	<0.1	<0.1	<0.1	2	<0.01	0.001
PM11-GWR02-A	Rock	1.94	34.0	11.6	31.2	5	48.9	2.4	2.2	119	0.62	31.0	8569	0.1	2	0.1	25.1	1.1	6	0.04	0.013
REP PM11-GWR02-A	QC		32.8	12.3	30.2	4	47.1	2.2	2.1	118	0.60	30.9	6347	<0.1	2	<0.1	24.0	1.1	6	0.03	0.012
Core Reject Duplicates																					
PM11-EBR06	Rock	2.33	6.4	40.2	2.0	8	0.5	2.4	4.6	85	1.38	34.9	93.2	0.1	4	<0.1	1.4	49.7	12	<0.01	0.005
DUP PM11-EBR06	QC		6.9	39.2	2.1	8	0.5	2.2	4.5	86	1.40	35.4	135.4	0.1	4	<0.1	1.4	50.1	13	<0.01	0.005
Reference Materials																					
STD AGPROOF	Standard																				
STD CDN-ME-3	Standard																				
STD DS8	Standard		11.6	109.2	120.6	327	1.8	38.0	7.3	604	2.47	25.4	101.1	5.9	63	2.2	4.9	6.7	40	0.70	0.085
STD DS8	Standard		13.0	112.3	133.4	309	1.6	40.5	7.7	619	2.56	25.0	85.9	7.0	67	2.2	5.4	7.6	41	0.71	0.076
STD OXH82	Standard																				
STD OXH82	Standard																				
STD OXH82	Standard																				
STD OXK79	Standard																				
STD OXK79	Standard																				
STD OXK79	Standard																				
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
STD OXH82 Expected																					
STD CDN-ME-3 Expected																					
STD AGPROOF Expected																					
STD OXK79 Expected																					
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

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QUALITY CONTROL REPORT

VAN11004663.1

Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	G6	G6Gr	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au	Au	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t	gm/t	
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	0.005	0.9	
Pulp Duplicates																				
PM11-EBR03	Rock	<1	15	0.02	20	0.002	<1	0.11	0.002	0.03	1.6	<0.01	0.7	<0.1	<0.05	<1	1.3	30.4		
REP PM11-EBR03	QC	<1	15	0.02	19	0.002	<1	0.11	0.002	0.03	1.4	<0.01	0.6	<0.1	<0.05	<1	1.7	30.8		
PM11-EBR17	Rock	2	18	<0.01	17	<0.001	<1	0.03	0.002	<0.01	0.1	0.05	0.3	<0.1	0.07	<1	<0.5	4.0	9.716	
REP PM11-EBR17	QC																		8.095	
PM11-EBR24	Rock	<1	7	0.02	2	0.001	<1	0.03	0.005	<0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2		
REP PM11-EBR24	QC	<1	8	0.02	2	0.001	<1	0.03	0.005	<0.01	<0.1	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2		
PM11-GWR02-A	Rock	<1	6	<0.01	20	0.001	<1	0.06	0.002	0.01	<0.1	0.09	<0.1	<0.1	<0.05	<1	<0.5	15.4	8.098	
REP PM11-GWR02-A	QC	<1	6	<0.01	19	0.001	<1	0.06	0.002	0.01	<0.1	0.05	0.1	<0.1	<0.05	<1	0.8	15.1		
Core Reject Duplicates																				
PM11-EBR06	Rock	1	18	0.03	12	0.001	<1	0.09	0.002	0.01	2.7	<0.01	0.4	<0.1	<0.05	<1	0.5	44.6		
DUP PM11-EBR06	QC	1	19	0.03	12	0.001	<1	0.08	0.002	0.01	2.8	<0.01	0.5	<0.1	<0.05	<1	<0.5	43.5		
Reference Materials																				
STD AGPROOF	Standard																			
STD CDN-ME-3	Standard																			
STD DS8	Standard	12	110	0.62	234	0.097	1	0.94	0.093	0.43	2.6	0.18	2.1	5.4	0.17	4	4.9	4.7		
STD DS8	Standard	15	121	0.62	267	0.118	2	0.95	0.093	0.42	3.2	0.21	2.0	5.8	0.16	4	4.3	4.3		
STD OXH82	Standard																			
STD OXH82	Standard																			
STD OXH82	Standard																			
STD OXK79	Standard																			
STD OXK79	Standard																			
STD OXK79	Standard																			
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		
STD OXH82 Expected																				
STD CDN-ME-3 Expected																				
STD AGPROOF Expected																				
STD OXK79 Expected																				
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2		

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Project: PLACER MTN.

Report Date: October 20, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

VAN11004663.1

		WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		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
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	6.9	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	<0.01	0.1	2.2	2.6	42	<0.1	2.1	3.5	507	1.73	0.7	<0.5	4.9	58	<0.1	<0.1	<0.1	31	0.44	0.067
G1	Prep Blank	<0.01	0.1	2.5	2.9	46	<0.1	2.3	3.7	560	2.00	0.8	<0.5	5.4	67	<0.1	<0.1	<0.1	35	0.52	0.078



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Project: PLACER MTN.
 Report Date: October 20, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

VAN11004663.1

		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	G6	G6Gr	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au	Au	
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t	gm/t	
		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.005	0.9	
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2			
BLK	Blank																			<0.005	
BLK	Blank																				<0.005
BLK	Blank																				<0.005
BLK	Blank																				<0.005
BLK	Blank																				<0.005
BLK	Blank																				<0.005
BLK	Blank																				<0.9
BLK	Blank																				<0.9
BLK	Blank																				<0.005
BLK	Blank																				<0.005
Prep Wash																					
G1	Prep Blank	10	7	0.47	143	0.103	<1	0.99	0.123	0.51	<0.1	<0.01	1.7	0.3	<0.05	4	<0.5	<0.2			
G1	Prep Blank	12	8	0.50	160	0.109	<1	1.10	0.146	0.55	<0.1	<0.01	2.0	0.3	<0.05	5	<0.5	<0.2			



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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: September 26, 2011
Report Date: December 01, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS

VAN11005008.1

CLIENT JOB INFORMATION

Project: Princeton
Shipment ID:
P.O. Number
Number of Samples: 274

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	274	Dry at 60C			VAN
SS80	269	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	274	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

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CERTIFICATE OF ANALYSIS

VAN11005008.1

Method Analyte Unit MDL	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	
PP11-DH01	Soil	0.4	18.3	9.3	44	<0.1	21.0	9.5	228	2.31	1.6	0.8	3.5	67	<0.1	<0.1	0.1	59	0.25	0.069	11
PP11-DH02	Soil	0.5	5.9	6.8	35	<0.1	9.4	4.1	125	1.29	2.0	1.1	1.2	18	<0.1	<0.1	0.1	33	0.10	0.101	4
PP11-DH03	Soil	0.5	12.6	7.7	43	<0.1	17.8	7.3	144	2.01	1.9	2.1	1.4	49	<0.1	<0.1	0.1	50	0.17	0.090	6
PP11-DH04	Soil	0.5	12.1	9.0	44	<0.1	17.6	6.4	197	1.81	1.8	3.4	1.6	44	<0.1	<0.1	0.1	45	0.16	0.068	5
PP11-DH05	Soil	0.4	11.6	5.9	47	<0.1	16.4	6.5	282	1.76	2.1	0.6	2.2	33	<0.1	<0.1	0.2	45	0.14	0.125	6
PP11-DH06	Soil	0.4	15.8	6.9	48	<0.1	20.7	7.5	286	2.16	2.0	1.2	2.6	51	<0.1	<0.1	0.1	59	0.23	0.091	9
PP11-DH07	Soil	0.4	7.7	5.8	45	<0.1	13.7	5.4	154	1.71	1.9	0.7	1.6	18	<0.1	<0.1	0.1	45	0.10	0.110	3
PP11-DH08	Soil	0.5	7.2	6.6	40	<0.1	16.3	4.2	110	1.32	1.3	0.9	1.2	28	<0.1	<0.1	0.1	31	0.15	0.091	4
PP11-DH09	Soil	0.4	6.7	6.3	40	<0.1	17.2	4.6	209	1.37	1.3	0.8	1.4	25	<0.1	<0.1	0.1	34	0.12	0.100	4
PP11-DH10	Soil	0.3	8.4	5.7	48	<0.1	17.6	4.6	103	1.28	1.2	0.7	1.3	26	<0.1	<0.1	0.1	32	0.13	0.068	4
PP11-DH11	Soil	0.5	5.5	6.8	49	<0.1	9.0	3.2	208	1.21	1.9	0.9	1.2	16	<0.1	<0.1	0.2	30	0.09	0.112	3
PP11-DH12	Soil	0.5	4.6	6.3	37	<0.1	6.4	2.8	108	1.22	1.6	0.8	0.9	14	<0.1	<0.1	0.1	32	0.09	0.098	2
PP11-DH13	Soil	0.4	4.5	5.2	33	<0.1	8.5	3.0	69	1.04	1.2	0.5	0.8	20	<0.1	<0.1	0.1	26	0.10	0.095	2
PP11-DH14	Soil	0.2	10.0	6.8	31	<0.1	13.9	5.4	208	1.79	1.0	1.0	1.5	45	<0.1	<0.1	0.2	45	0.21	0.016	6
PP11-DH15	Soil	0.2	15.4	4.5	49	<0.1	22.1	7.6	307	2.12	1.5	1.6	1.3	63	<0.1	<0.1	<0.1	48	0.41	0.035	5
PP11-DH16	Soil	0.6	26.1	7.3	66	<0.1	38.2	17.5	1690	3.11	6.2	1.4	2.1	72	<0.1	0.1	0.1	75	0.41	0.041	10
PP11-DH17	Soil	0.3	8.0	4.9	53	<0.1	18.3	4.3	112	1.40	1.5	0.7	1.3	29	<0.1	<0.1	0.1	30	0.18	0.137	3
PP11-DH18	Soil	0.4	11.3	6.6	69	<0.1	27.6	6.2	368	1.63	1.2	<0.5	1.1	36	<0.1	<0.1	0.2	37	0.17	0.071	4
PP11-DH19	Soil	0.5	8.6	6.8	52	<0.1	10.6	4.2	196	1.45	1.1	<0.5	1.4	38	<0.1	<0.1	0.2	35	0.13	0.091	5
PP11-DH20	Soil	0.2	11.0	3.3	52	<0.1	6.5	7.1	293	2.23	0.7	<0.5	1.0	54	<0.1	<0.1	<0.1	63	0.29	0.033	3
PP11-DH21	Soil	0.3	14.7	4.5	45	<0.1	8.6	8.3	430	2.47	0.9	1.4	1.7	73	<0.1	<0.1	<0.1	72	0.34	0.025	6
PP11-DH22	Soil	0.3	11.6	7.3	36	<0.1	14.2	5.6	194	1.90	1.0	0.8	1.8	54	<0.1	<0.1	0.1	52	0.25	0.027	5
PP11-DH23	Soil	0.3	10.4	6.4	48	<0.1	15.1	7.3	527	1.97	0.9	0.6	1.3	48	<0.1	<0.1	0.1	56	0.23	0.020	5
PP11-DH24	Soil	0.3	7.3	6.0	32	<0.1	11.7	4.7	272	1.57	0.7	0.6	1.0	40	<0.1	<0.1	0.1	40	0.18	0.026	3
PP11-DH25	Soil	0.3	8.6	6.1	57	<0.1	15.3	5.3	224	1.48	0.9	0.6	1.3	29	<0.1	<0.1	0.1	37	0.15	0.063	3
PP11-DH26	Soil	0.5	10.2	6.2	50	<0.1	13.7	4.2	136	1.62	1.5	1.4	1.7	16	<0.1	<0.1	0.1	37	0.09	0.109	4
PP11-DH27	Soil	0.4	11.1	6.9	69	<0.1	20.7	5.4	655	1.59	1.1	9.0	1.3	27	<0.1	<0.1	0.1	40	0.12	0.073	3
PP11-DH28	Soil	0.4	22.1	7.5	50	<0.1	51.1	10.6	272	2.39	1.6	<0.5	2.7	58	<0.1	<0.1	0.1	55	0.28	0.059	7
PP11-DH29	Soil	0.6	9.9	6.7	58	<0.1	32.5	7.0	455	1.84	1.0	0.7	1.2	27	<0.1	<0.1	0.1	40	0.14	0.103	3
PP11-DH30	Soil	0.7	14.8	7.4	57	<0.1	29.6	7.9	376	1.90	1.3	<0.5	1.8	30	<0.1	<0.1	0.1	41	0.12	0.084	4

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Project: Princeton
 Report Date: December 01, 2011

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CERTIFICATE OF ANALYSIS

VAN11005008.1

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	0.05	1	0.5	0.2	
PP11-DH01	Soil	25	0.40	174	0.139	<1	2.54	0.021	0.10	<0.1	0.03	2.2	0.2	<0.05	7	<0.5	<0.2
PP11-DH02	Soil	8	0.09	66	0.104	1	1.70	0.019	0.04	<0.1	0.03	1.0	<0.1	<0.05	6	<0.5	<0.2
PP11-DH03	Soil	15	0.26	150	0.132	<1	3.17	0.021	0.06	<0.1	0.04	1.7	<0.1	<0.05	8	<0.5	<0.2
PP11-DH04	Soil	15	0.23	151	0.132	1	2.51	0.021	0.08	<0.1	0.02	1.4	<0.1	<0.05	8	<0.5	<0.2
PP11-DH05	Soil	16	0.22	117	0.118	2	1.98	0.018	0.07	0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
PP11-DH06	Soil	23	0.34	144	0.134	2	2.08	0.017	0.11	<0.1	0.04	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11-DH07	Soil	13	0.15	70	0.117	1	1.72	0.015	0.04	0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
PP11-DH08	Soil	11	0.12	103	0.105	1	1.83	0.019	0.06	0.1	0.04	1.0	<0.1	<0.05	6	<0.5	<0.2
PP11-DH09	Soil	12	0.12	127	0.108	1	1.93	0.022	0.05	<0.1	0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
PP11-DH10	Soil	12	0.13	126	0.115	1	1.97	0.023	0.06	<0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
PP11-DH11	Soil	8	0.08	75	0.103	2	1.65	0.022	0.04	0.1	0.04	1.0	<0.1	<0.05	6	<0.5	<0.2
PP11-DH12	Soil	8	0.07	52	0.095	1	1.45	0.018	0.03	<0.1	0.04	0.9	<0.1	<0.05	5	<0.5	<0.2
PP11-DH13	Soil	12	0.10	74	0.083	<1	1.16	0.018	0.03	<0.1	0.02	0.9	<0.1	<0.05	5	<0.5	<0.2
PP11-DH14	Soil	25	0.24	142	0.123	<1	1.97	0.024	0.05	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
PP11-DH15	Soil	43	0.44	103	0.099	4	1.95	0.034	0.10	<0.1	0.03	4.0	<0.1	<0.05	6	<0.5	<0.2
PP11-DH16	Soil	72	0.70	138	0.098	2	2.18	0.030	0.13	<0.1	0.04	7.5	0.2	<0.05	7	<0.5	<0.2
PP11-DH17	Soil	20	0.18	152	0.094	1	1.91	0.024	0.05	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
PP11-DH18	Soil	36	0.25	157	0.101	2	2.49	0.023	0.07	<0.1	0.03	2.1	<0.1	<0.05	7	<0.5	<0.2
PP11-DH19	Soil	13	0.15	129	0.094	1	1.98	0.026	0.05	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PP11-DH20	Soil	10	0.38	92	0.108	1	1.97	0.051	0.06	<0.1	0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
PP11-DH21	Soil	15	0.45	106	0.125	1	1.85	0.059	0.08	<0.1	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
PP11-DH22	Soil	29	0.21	113	0.138	1	2.12	0.034	0.08	<0.1	0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
PP11-DH23	Soil	28	0.30	103	0.113	<1	1.92	0.028	0.06	<0.1	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PP11-DH24	Soil	23	0.15	121	0.108	2	1.76	0.030	0.08	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
PP11-DH25	Soil	20	0.13	97	0.109	<1	2.03	0.026	0.05	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
PP11-DH26	Soil	12	0.11	68	0.113	1	2.35	0.023	0.03	0.1	0.02	1.8	<0.1	<0.05	7	<0.5	<0.2
PP11-DH27	Soil	21	0.16	94	0.111	<1	2.07	0.022	0.05	<0.1	0.03	1.4	<0.1	<0.05	7	<0.5	<0.2
PP11-DH28	Soil	45	0.47	165	0.131	1	3.47	0.022	0.08	<0.1	0.02	4.2	<0.1	<0.05	8	<0.5	<0.2
PP11-DH29	Soil	22	0.20	115	0.085	<1	2.27	0.016	0.06	<0.1	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2
PP11-DH30	Soil	25	0.25	133	0.099	<1	3.12	0.019	0.05	<0.1	0.03	2.3	<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: December 01, 2011

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CERTIFICATE OF ANALYSIS

VAN11005008.1

Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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	0.1	2	0.01	0.001	1
PP11-DH31	Soil	0.6	17.9	7.8	60	<0.1	37.9	8.8	481	2.05	1.7	0.6	2.0	28	<0.1	<0.1	0.1	44	0.14	0.120	4
PP11-DH32	Soil	0.6	17.3	7.7	62	<0.1	44.6	9.6	401	2.12	1.5	0.6	2.0	29	<0.1	<0.1	0.2	45	0.14	0.097	4
PP11-DH33	Soil	0.3	12.9	6.7	39	<0.1	32.5	8.7	159	2.09	<0.5	0.9	1.3	63	<0.1	<0.1	0.1	42	0.21	0.031	3
PP11-DH34	Soil	0.2	16.0	5.5	41	<0.1	40.7	10.3	230	2.39	0.7	0.6	1.8	94	<0.1	<0.1	0.1	53	0.42	0.041	7
PP11-DH35	Soil	0.1	13.4	5.7	31	<0.1	28.0	9.8	292	1.97	<0.5	0.6	2.5	98	<0.1	<0.1	0.1	44	0.39	0.016	7
PP11-DH36	Soil	0.2	11.0	4.8	34	<0.1	18.5	7.8	472	1.74	<0.5	0.6	2.1	56	<0.1	<0.1	<0.1	41	0.28	0.017	5
PP11-DH37	Soil	0.4	30.3	7.9	66	<0.1	53.3	13.9	755	2.69	2.3	2.2	2.4	129	0.2	0.2	0.2	59	0.58	0.056	16
PP11-DH38	Soil	0.3	25.9	5.3	42	<0.1	75.6	16.8	454	2.79	1.7	3.9	2.6	130	<0.1	<0.1	0.1	61	0.51	0.027	7
PP11-DH39	Soil	0.3	6.4	5.1	33	<0.1	16.7	6.1	134	1.50	1.6	1.5	0.7	36	<0.1	<0.1	0.1	30	0.18	0.063	2
PP11-DH40	Soil	0.3	10.1	5.2	43	<0.1	27.9	7.5	251	1.60	1.3	3.8	0.8	39	<0.1	<0.1	0.1	34	0.18	0.057	2
PP11-DH41	Soil	0.4	13.0	5.7	55	<0.1	38.0	8.6	294	1.96	1.7	3.2	1.2	26	<0.1	<0.1	<0.1	39	0.16	0.107	3
PP11-DH42	Soil	0.4	11.2	5.6	63	<0.1	33.1	7.8	334	1.76	1.9	2.7	1.0	20	<0.1	<0.1	0.1	39	0.12	0.101	2
PP11-DH43	Soil	0.5	10.7	5.3	57	<0.1	25.6	7.1	357	1.69	2.0	3.5	1.1	18	<0.1	<0.1	0.1	36	0.14	0.113	3
PP11-DH44	Soil	0.5	7.8	5.1	46	<0.1	16.8	5.7	293	1.51	1.9	3.0	0.7	14	<0.1	<0.1	0.1	35	0.11	0.072	2
PP11-DH45	Soil	0.4	13.9	5.3	51	<0.1	21.7	6.8	199	1.72	1.8	3.3	1.1	23	<0.1	<0.1	0.2	37	0.18	0.092	3
PP11-DH46	Soil	0.1	9.5	4.6	35	<0.1	15.5	4.3	270	1.32	1.2	2.3	0.7	25	<0.1	<0.1	0.1	33	0.18	0.027	2
PP11-DH47	Soil	0.3	15.0	6.3	63	<0.1	36.8	7.6	460	1.94	1.2	0.7	0.9	27	<0.1	<0.1	<0.1	44	0.21	0.086	3
PP11-DH48	Soil	0.3	16.4	6.3	42	<0.1	37.2	8.7	316	2.25	0.8	2.1	1.3	35	<0.1	0.1	<0.1	55	0.25	0.024	4
PP11-DH49	Soil	0.4	24.5	7.4	44	<0.1	50.9	11.0	135	2.51	1.3	1.0	1.7	51	<0.1	0.1	<0.1	58	0.28	0.035	5
PP11-DH50	Soil	0.8	12.3	7.3	53	<0.1	27.2	5.7	175	1.57	1.5	4.1	1.1	19	<0.1	0.1	<0.1	37	0.14	0.090	2
PMS-105	Soil Pulp	117.8	3538	23.3	64	2.5	37.0	20.0	396	4.24	57.8	473.2	2.0	31	0.3	3.5	0.4	122	0.32	0.088	10
PP11-DH51	Soil	0.4	13.8	4.9	40	<0.1	28.4	6.8	96	1.73	2.4	2.7	0.9	15	<0.1	<0.1	<0.1	41	0.14	0.070	2
PP11-DH52	Soil	0.2	32.5	5.0	39	<0.1	47.5	9.4	227	2.44	1.9	3.4	2.0	110	<0.1	0.1	0.1	53	0.42	0.014	7
PP11-DH53	Soil	0.1	34.3	5.1	36	<0.1	69.3	11.3	189	2.65	1.4	3.9	2.4	133	<0.1	<0.1	<0.1	50	0.53	0.015	6
PP11-DH54	Soil	<0.1	30.5	6.0	26	<0.1	53.6	9.9	222	2.10	1.7	3.4	2.6	93	<0.1	0.1	<0.1	42	0.46	0.013	9
PP11-DH55	Soil	0.3	16.7	3.0	24	<0.1	29.4	6.4	173	1.58	1.4	4.9	1.0	65	<0.1	<0.1	<0.1	42	0.41	0.016	4
PP11-DH56	Soil	0.2	22.6	5.8	38	<0.1	55.4	9.8	218	2.31	1.6	5.4	1.1	50	<0.1	<0.1	0.1	47	0.38	0.030	3
PP11-DH57	Soil	0.2	38.9	7.0	150	<0.1	127.7	17.8	404	2.98	2.4	3.3	2.4	67	<0.1	0.1	0.1	72	0.56	0.035	6
PP11-DH58	Soil	0.1	14.4	5.0	40	<0.1	29.4	3.7	119	1.22	1.6	1.1	0.6	23	<0.1	<0.1	0.1	27	0.19	0.025	5
PP11-DH59	Soil	<0.1	27.2	4.9	23	<0.1	29.1	3.0	61	1.29	1.6	1.4	1.5	31	<0.1	<0.1	<0.1	21	0.25	0.017	5



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 Report Date: December 01, 2011

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CERTIFICATE OF ANALYSIS

VAN11005008.1

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
PP11-DH31	Soil	29	0.26	141	0.120	1	3.26	0.024	0.06	<0.1	0.03	2.7	<0.1	<0.05	9	<0.5	<0.2
PP11-DH32	Soil	32	0.29	148	0.109	<1	3.19	0.021	0.06	<0.1	0.02	2.8	<0.1	<0.05	8	<0.5	<0.2
PP11-DH33	Soil	36	0.30	121	0.084	<1	2.31	0.023	0.06	<0.1	0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
PP11-DH34	Soil	49	0.54	92	0.078	<1	2.38	0.027	0.10	<0.1	0.04	4.6	<0.1	<0.05	6	<0.5	<0.2
PP11-DH35	Soil	42	0.37	96	0.087	<1	1.53	0.036	0.08	<0.1	0.02	4.5	<0.1	<0.05	4	<0.5	<0.2
PP11-DH36	Soil	34	0.30	82	0.080	1	1.26	0.028	0.12	<0.1	0.02	4.6	<0.1	<0.05	4	<0.5	<0.2
PP11-DH37	Soil	54	0.61	176	0.081	2	2.85	0.030	0.19	<0.1	0.03	7.9	<0.1	0.10	7	<0.5	<0.2
PP11-DH38	Soil	59	0.86	136	0.069	1	2.46	0.028	0.16	<0.1	0.02	7.5	<0.1	<0.05	6	<0.5	<0.2
PP11-DH39	Soil	18	0.17	87	0.078	1	1.70	0.024	0.06	<0.1	0.03	1.2	<0.1	<0.05	5	<0.5	<0.2
PP11-DH40	Soil	27	0.26	107	0.075	<1	2.06	0.029	0.09	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PP11-DH41	Soil	32	0.27	127	0.083	<1	2.60	0.023	0.06	<0.1	0.01	2.2	<0.1	<0.05	7	<0.5	<0.2
PP11-DH42	Soil	25	0.20	108	0.091	<1	2.48	0.024	0.06	<0.1	0.02	1.8	<0.1	<0.05	7	<0.5	<0.2
PP11-DH43	Soil	20	0.19	107	0.095	1	2.37	0.023	0.05	<0.1	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2
PP11-DH44	Soil	14	0.15	65	0.093	<1	1.63	0.021	0.04	<0.1	0.02	1.3	<0.1	<0.05	6	0.6	<0.2
PP11-DH45	Soil	19	0.24	99	0.096	<1	2.34	0.021	0.09	<0.1	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2
PP11-DH46	Soil	21	0.21	82	0.080	<1	1.67	0.033	0.04	<0.1	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
PP11-DH47	Soil	33	0.31	110	0.103	2	2.77	0.021	0.05	<0.1	0.03	2.1	<0.1	<0.05	8	<0.5	<0.2
PP11-DH48	Soil	40	0.37	128	0.111	2	2.94	0.027	0.10	<0.1	0.02	3.7	<0.1	<0.05	7	<0.5	<0.2
PP11-DH49	Soil	52	0.52	182	0.130	<1	3.57	0.022	0.10	<0.1	0.02	3.6	<0.1	<0.05	9	<0.5	<0.2
PP11-DH50	Soil	19	0.19	94	0.106	2	2.34	0.020	0.05	<0.1	0.04	1.3	<0.1	<0.05	8	<0.5	<0.2
PMS-105	Soil Pulp	51	0.89	46	0.113	1	1.40	0.056	0.88	4.1	0.07	9.7	0.5	1.97	6	5.7	0.9
PP11-DH51	Soil	27	0.27	77	0.092	1	2.21	0.026	0.07	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PP11-DH52	Soil	51	0.70	118	0.094	<1	2.12	0.041	0.08	<0.1	0.01	5.3	<0.1	<0.05	5	<0.5	<0.2
PP11-DH53	Soil	62	0.95	127	0.075	<1	2.34	0.043	0.07	<0.1	<0.01	5.7	<0.1	<0.05	5	<0.5	<0.2
PP11-DH54	Soil	45	0.65	131	0.081	<1	2.25	0.054	0.06	<0.1	0.01	6.3	<0.1	<0.05	5	<0.5	<0.2
PP11-DH55	Soil	50	0.66	77	0.090	<1	1.37	0.063	0.07	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PP11-DH56	Soil	50	0.51	89	0.105	<1	2.05	0.072	0.09	<0.1	<0.01	4.1	<0.1	<0.05	5	<0.5	<0.2
PP11-DH57	Soil	77	1.71	114	0.085	<1	2.17	0.053	0.09	<0.1	0.01	7.7	<0.1	<0.05	6	<0.5	<0.2
PP11-DH58	Soil	22	0.25	86	0.068	<1	1.68	0.030	0.05	<0.1	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PP11-DH59	Soil	27	0.30	86	0.070	<1	1.95	0.045	0.03	<0.1	0.03	3.5	<0.1	<0.05	5	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	1DX15 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
PP11-DH60	Soil			0.5	10.5	5.6	62	<0.1	26.1	5.2	126	1.55	2.3	1.9	1.2	8	<0.1	<0.1	0.1	32	0.07	0.135	2
PP11-DH61	Soil			0.1	10.7	2.5	29	<0.1	18.6	4.1	140	1.33	1.0	1.3	0.4	25	<0.1	<0.1	<0.1	30	0.21	0.014	4
PP11-DH62	Soil			0.1	27.0	3.7	36	<0.1	34.9	5.2	184	1.77	1.6	2.9	1.0	42	<0.1	<0.1	<0.1	41	0.37	0.021	10
PP11-DH63	Soil			0.2	17.8	2.9	34	<0.1	43.1	9.3	198	1.86	1.8	1.2	0.8	34	<0.1	<0.1	<0.1	45	0.36	0.028	4
PP11-DH64	Soil			0.2	15.8	4.7	32	<0.1	28.8	7.3	171	1.70	1.5	2.1	0.8	27	<0.1	<0.1	<0.1	43	0.21	0.013	4
PP11-DH65	Soil			0.3	10.0	6.3	51	<0.1	17.6	7.7	232	1.97	1.0	1.5	1.7	35	<0.1	<0.1	0.1	46	0.15	0.088	4
PP11-DH66	Soil			0.3	8.8	6.5	45	<0.1	16.5	6.7	187	1.82	1.0	4.6	1.4	32	<0.1	<0.1	0.1	45	0.13	0.080	4
PP11-DH67	Soil			0.2	6.5	4.9	46	<0.1	9.4	6.5	252	1.73	0.8	1.8	1.2	21	<0.1	<0.1	<0.1	43	0.10	0.053	2
PP11-DH68	Soil			0.4	8.7	6.1	45	<0.1	16.9	6.0	177	1.73	1.8	1.2	1.5	23	<0.1	<0.1	<0.1	42	0.12	0.084	4
PP11-DH69	Soil			0.2	12.0	5.3	39	<0.1	14.8	6.1	134	1.74	0.9	1.1	1.5	48	<0.1	<0.1	0.1	41	0.17	0.071	5
PP11-DH70	Soil			0.4	4.5	3.6	35	<0.1	2.8	0.3	60	0.09	1.2	5.2	<0.1	193	<0.1	<0.1	<0.1	10	0.96	0.050	1
PP11-DH71	Soil			0.4	13.8	6.9	49	<0.1	16.5	6.4	171	1.84	1.4	2.0	1.4	57	<0.1	<0.1	0.1	42	0.33	0.154	5
PP11-DH72	Soil			0.2	11.1	5.8	58	<0.1	9.3	5.1	506	1.62	0.7	3.0	1.6	40	0.1	<0.1	<0.1	45	0.29	0.033	6
PP11-DH73	Soil			0.5	7.9	5.3	53	<0.1	7.9	5.4	572	1.83	<0.5	0.7	1.4	13	<0.1	<0.1	0.1	46	0.11	0.106	3
PP11-DH74	Soil			0.2	12.8	5.6	44	0.1	8.6	6.1	298	1.91	0.8	<0.5	1.8	22	<0.1	<0.1	0.1	45	0.15	0.108	3
PP11-DH75	Soil			0.2	19.4	6.3	72	<0.1	19.4	10.0	580	2.77	1.5	1.5	2.7	46	<0.1	0.1	<0.1	73	0.43	0.097	7
PP11-DH76	Soil			0.5	25.7	6.0	141	0.2	18.8	12.1	3112	2.76	3.7	<0.5	2.8	263	0.2	0.2	<0.1	86	2.91	0.284	10
PP11-DH77	Soil			0.3	25.8	6.0	120	0.1	19.8	13.7	1690	3.25	2.2	<0.5	3.4	109	0.3	0.1	0.1	90	1.34	0.181	10
PP11-DH78	Soil			0.3	7.1	5.5	45	<0.1	10.7	4.8	201	1.53	0.6	<0.5	0.9	25	<0.1	<0.1	<0.1	38	0.19	0.045	3
PP11-DH79	Soil			0.4	6.7	5.5	53	<0.1	6.8	5.0	413	1.67	<0.5	<0.5	0.9	23	<0.1	<0.1	<0.1	41	0.18	0.056	3
PP11-DH80	Soil			0.3	9.1	5.0	41	0.1	11.3	6.3	218	1.82	<0.5	0.7	1.3	34	<0.1	<0.1	<0.1	47	0.23	0.054	3
PP11-DH81	Soil			0.3	18.1	4.7	57	<0.1	15.4	9.3	279	2.98	0.9	<0.5	2.4	51	<0.1	0.1	<0.1	80	0.40	0.083	6
PP11-DH82	Soil			0.3	21.5	5.8	63	<0.1	15.3	10.7	665	3.14	1.1	2.5	2.2	66	<0.1	0.2	<0.1	96	0.75	0.080	9
PP11-DH83	Soil			0.3	7.5	5.9	81	<0.1	13.7	4.6	198	1.48	<0.5	0.5	1.0	32	<0.1	<0.1	<0.1	37	0.19	0.057	3
PP11-DH84	Soil			0.2	6.7	4.9	43	<0.1	10.6	3.3	130	1.10	<0.5	0.9	0.8	30	<0.1	<0.1	<0.1	27	0.18	0.033	2
PP11-DH85	Soil			0.3	7.6	5.5	55	<0.1	13.0	3.8	157	1.04	0.8	<0.5	1.5	16	<0.1	<0.1	0.1	27	0.10	0.091	3
PP11-DH86	Soil			0.5	12.9	7.6	41	<0.1	20.7	7.3	221	1.97	0.7	<0.5	1.3	37	<0.1	<0.1	0.1	49	0.18	0.041	4
PP11-DH87	Soil			0.2	6.3	5.8	30	<0.1	11.1	4.2	146	1.10	<0.5	<0.5	1.1	28	<0.1	<0.1	<0.1	28	0.22	0.045	3
PP11-DH88	Soil			0.3	7.0	6.3	64	<0.1	13.4	4.0	283	1.10	<0.5	<0.5	1.1	23	<0.1	<0.1	<0.1	28	0.15	0.064	2
PP11-DH89	Soil			0.3	4.7	4.8	54	<0.1	7.4	3.3	196	1.07	<0.5	0.8	0.8	16	<0.1	<0.1	<0.1	31	0.12	0.052	2

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Project: Princeton
 Report Date: December 01, 2011

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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
PP11-DH60	Soil	14	0.12	59	0.097	2	2.46	0.024	0.04	<0.1	0.01	1.4	<0.1	<0.05	7	<0.5	<0.2
PP11-DH61	Soil	20	0.21	66	0.062	<1	1.14	0.032	0.03	<0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
PP11-DH62	Soil	35	0.40	89	0.077	1	1.54	0.037	0.04	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
PP11-DH63	Soil	60	0.65	113	0.064	<1	1.20	0.034	0.07	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
PP11-DH64	Soil	38	0.39	83	0.084	<1	1.54	0.033	0.04	<0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PP11-DH65	Soil	19	0.28	154	0.142	<1	2.29	0.022	0.14	<0.1	0.02	1.3	<0.1	<0.05	7	<0.5	<0.2
PP11-DH66	Soil	18	0.28	133	0.122	<1	2.00	0.020	0.10	<0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
PP11-DH67	Soil	10	0.25	96	0.129	<1	1.43	0.015	0.12	<0.1	0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
PP11-DH68	Soil	14	0.20	119	0.106	<1	1.95	0.028	0.07	<0.1	0.02	1.0	<0.1	<0.05	7	<0.5	<0.2
PP11-DH69	Soil	16	0.25	149	0.108	<1	1.92	0.025	0.09	<0.1	0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11-DH70	Soil	3	0.23	128	0.005	5	0.10	0.030	0.08	<0.1	0.15	1.0	<0.1	0.06	<1	<0.5	<0.2
PP11-DH71	Soil	17	0.27	183	0.095	<1	2.02	0.021	0.14	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
PP11-DH72	Soil	14	0.38	122	0.116	2	1.35	0.024	0.11	<0.1	0.03	1.8	<0.1	<0.05	5	<0.5	<0.2
PP11-DH73	Soil	10	0.21	94	0.122	1	1.65	0.019	0.06	0.1	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
PP11-DH74	Soil	10	0.29	112	0.108	1	1.98	0.019	0.09	0.1	0.03	2.1	<0.1	<0.05	7	<0.5	<0.2
PP11-DH75	Soil	23	0.69	153	0.145	1	2.44	0.021	0.22	<0.1	0.02	4.2	0.1	<0.05	8	0.5	<0.2
PP11-DH76	Soil	22	0.91	390	0.150	19	2.16	0.160	0.65	0.1	<0.01	4.7	<0.1	<0.05	8	<0.5	<0.2
PP11-DH77	Soil	24	0.87	279	0.170	9	2.57	0.078	0.55	<0.1	0.01	4.6	0.1	<0.05	8	<0.5	<0.2
PP11-DH78	Soil	13	0.24	100	0.102	<1	1.56	0.026	0.07	<0.1	0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
PP11-DH79	Soil	12	0.24	74	0.090	1	1.29	0.021	0.07	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
PP11-DH80	Soil	18	0.29	97	0.102	<1	1.80	0.028	0.09	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
PP11-DH81	Soil	22	0.59	156	0.111	<1	2.16	0.026	0.22	<0.1	0.01	4.3	0.1	<0.05	7	<0.5	<0.2
PP11-DH82	Soil	23	0.73	96	0.118	1	1.93	0.027	0.22	<0.1	0.03	6.0	<0.1	<0.05	6	0.5	<0.2
PP11-DH83	Soil	19	0.13	144	0.101	1	1.87	0.033	0.06	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PP11-DH84	Soil	16	0.13	108	0.088	<1	1.82	0.034	0.07	<0.1	0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
PP11-DH85	Soil	11	0.11	99	0.093	<1	1.67	0.029	0.04	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PP11-DH86	Soil	33	0.32	167	0.100	<1	2.67	0.029	0.05	<0.1	0.03	2.4	<0.1	<0.05	7	<0.5	<0.2
PP11-DH87	Soil	17	0.15	114	0.091	<1	1.62	0.026	0.08	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
PP11-DH88	Soil	15	0.13	188	0.093	<1	2.10	0.027	0.06	<0.1	0.03	1.3	<0.1	<0.05	7	<0.5	<0.2
PP11-DH89	Soil	9	0.09	84	0.088	<1	1.27	0.027	0.04	<0.1	0.02	1.2	<0.1	<0.05	5	<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 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	
PP11-DH90	Soil	0.3	3.8	5.1	35	<0.1	6.4	2.9	181	0.93	<0.5	<0.5	0.6	17	<0.1	<0.1	<0.1	25	0.09	0.039	2
PP11-DH91	Soil	0.5	8.8	6.7	49	<0.1	17.3	4.9	297	1.55	0.7	<0.5	1.3	27	<0.1	<0.1	0.1	36	0.13	0.067	3
PP11-DH92	Soil	0.7	16.2	7.9	72	<0.1	29.8	6.8	363	1.90	1.2	<0.5	1.8	24	<0.1	<0.1	0.1	40	0.14	0.121	4
PP11-DH93	Soil	0.4	7.2	5.5	59	<0.1	12.6	4.5	611	1.47	0.7	5.3	0.9	16	<0.1	<0.1	<0.1	36	0.10	0.082	2
PP11-DH94	Soil	0.4	7.9	6.1	57	<0.1	22.1	6.4	479	1.69	<0.5	6.4	1.1	21	<0.1	<0.1	0.1	39	0.12	0.075	2
PP11-DH95	Soil	0.3	13.7	6.2	33	<0.1	37.1	8.7	238	2.22	<0.5	0.9	2.1	87	<0.1	<0.1	<0.1	46	0.33	0.017	4
PP11-DH96	Soil	0.1	6.0	2.8	32	<0.1	11.8	3.9	138	1.63	<0.5	<0.5	1.1	35	<0.1	<0.1	<0.1	38	0.20	0.015	3
PP11-DH97	Soil	0.2	26.4	4.2	55	<0.1	37.3	12.4	1028	2.77	0.6	<0.5	2.7	77	<0.1	<0.1	<0.1	57	0.50	0.046	12
PP11-DH98	Soil	0.2	14.9	3.4	41	<0.1	22.2	7.2	347	2.02	<0.5	0.6	2.7	52	<0.1	<0.1	<0.1	55	0.30	0.018	8
PP11-DH99	Soil	0.1	7.0	3.2	32	<0.1	9.9	3.6	127	1.17	<0.5	<0.5	0.8	30	<0.1	<0.1	<0.1	32	0.20	0.021	2
PP11-DH100	Soil	0.1	6.5	2.8	35	<0.1	10.1	4.4	273	1.17	<0.5	<0.5	0.6	24	<0.1	<0.1	<0.1	34	0.15	0.021	2
PMS-108	Soil Pulp	16.3	60.0	17.6	17	0.1	15.6	2.3	99	3.54	435.6	202.6	0.9	27	0.3	23.5	0.1	10	0.95	0.004	2
PP11-DH101	Soil	0.2	8.4	4.1	30	<0.1	15.7	4.5	192	1.36	0.9	<0.5	0.8	34	<0.1	<0.1	<0.1	33	0.19	0.024	2
PP11-DH102	Soil	0.4	16.7	3.4	37	<0.1	29.1	8.7	133	2.05	<0.5	0.7	1.5	52	<0.1	0.1	<0.1	55	0.29	0.040	4
PP11-DH103	Soil	0.3	11.8	5.0	52	<0.1	17.8	6.1	622	1.67	<0.5	<0.5	0.9	35	<0.1	<0.1	<0.1	46	0.23	0.030	4
PP11-DH104	Soil	0.4	12.3	5.6	54	<0.1	22.0	8.1	431	1.82	<0.5	<0.5	1.2	36	<0.1	<0.1	<0.1	50	0.21	0.035	3
PP11-DH105	Soil	0.4	11.3	4.9	48	<0.1	19.3	6.5	233	1.62	0.5	<0.5	0.9	26	<0.1	<0.1	<0.1	38	0.16	0.061	2
PP11-DH106	Soil	0.2	21.6	5.7	44	<0.1	25.8	7.0	202	1.99	0.6	<0.5	1.9	43	<0.1	<0.1	<0.1	51	0.27	0.022	7
PP11-DH107	Soil	0.4	9.1	5.1	62	<0.1	14.5	5.8	530	1.38	2.1	1.3	0.5	22	<0.1	<0.1	0.1	38	0.13	0.070	2
PP11-DH108	Soil	0.3	17.9	5.8	50	<0.1	27.4	5.7	181	1.51	3.4	<0.5	1.4	32	<0.1	<0.1	0.1	35	0.20	0.128	5
PP11-DH109	Soil	0.2	11.2	4.2	29	<0.1	20.3	4.1	112	1.27	2.7	3.2	0.5	30	<0.1	<0.1	<0.1	32	0.20	0.031	2
PP11-DH110	Soil	0.1	10.1	5.3	34	<0.1	19.3	3.8	115	1.30	2.3	2.3	0.7	28	<0.1	<0.1	0.1	30	0.19	0.016	3
PP11-DH111	Soil	0.2	13.7	4.6	33	<0.1	23.9	3.9	162	1.47	2.6	1.3	0.9	33	<0.1	<0.1	0.1	36	0.21	0.016	5
PP11-DH112	Soil	0.2	10.6	5.1	27	<0.1	15.7	4.6	133	1.37	2.0	14.3	1.2	33	<0.1	<0.1	<0.1	41	0.19	0.012	3
PP11-DH113	Soil	0.5	16.2	6.3	49	0.1	25.0	5.6	222	1.53	2.8	2.1	0.9	28	<0.1	<0.1	0.1	39	0.21	0.097	4
PP11-DH114	Soil	0.4	13.5	5.2	49	<0.1	29.3	7.1	109	1.66	2.5	1.4	1.3	19	<0.1	<0.1	<0.1	39	0.13	0.098	4
PP11-DH115	Soil	0.3	23.3	5.5	38	<0.1	33.5	7.0	404	1.58	2.6	1.0	1.0	39	<0.1	<0.1	<0.1	43	0.34	0.036	6
PP11-DH116	Soil	0.3	17.9	5.4	48	<0.1	24.5	5.6	467	1.34	3.0	1.7	0.8	54	<0.1	0.1	<0.1	34	0.54	0.063	5
PP11-DH117	Soil	0.1	10.2	3.9	22	<0.1	14.9	3.8	87	1.12	2.2	0.8	0.5	19	<0.1	<0.1	<0.1	27	0.16	0.016	2
PP11-DH118	Soil	0.4	15.7	4.2	43	0.1	17.9	4.9	161	1.53	3.0	1.9	0.8	25	<0.1	0.2	<0.1	42	0.22	0.063	5

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Method Analyte Unit MDL	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			
PP11-DH90	Soil	9	0.08	76	0.076	<1	1.07	0.021	0.03	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2	
PP11-DH91	Soil	18	0.16	136	0.107	1	2.51	0.024	0.04	<0.1	0.02	1.5	<0.1	<0.05	8	<0.5	<0.2	
PP11-DH92	Soil	22	0.23	159	0.118	<1	3.29	0.026	0.08	<0.1	0.04	2.4	<0.1	<0.05	9	<0.5	<0.2	
PP11-DH93	Soil	17	0.13	89	0.088	<1	1.42	0.024	0.05	<0.1	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2	
PP11-DH94	Soil	23	0.18	128	0.087	<1	1.96	0.023	0.07	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2	
PP11-DH95	Soil	47	0.42	162	0.092	<1	1.85	0.039	0.10	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2	
PP11-DH96	Soil	17	0.14	104	0.088	<1	1.26	0.041	0.06	<0.1	0.01	2.1	<0.1	<0.05	4	<0.5	<0.2	
PP11-DH97	Soil	49	1.02	83	0.060	<1	2.00	0.038	0.08	<0.1	0.04	8.6	0.1	<0.05	5	<0.5	<0.2	
PP11-DH98	Soil	43	0.43	103	0.087	<1	1.16	0.050	0.11	<0.1	0.02	4.9	<0.1	<0.05	4	<0.5	<0.2	
PP11-DH99	Soil	17	0.20	60	0.068	<1	1.15	0.032	0.06	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2	
PP11-DH100	Soil	18	0.19	64	0.071	1	1.10	0.030	0.06	<0.1	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2	
PMS-108	Soil Pulp	21	0.03	926	0.010	<1	0.17	0.008	0.06	2.3	2.91	0.9	10.9	0.09	<1	1.6	<0.2	
PP11-DH101	Soil	21	0.25	88	0.078	<1	1.44	0.029	0.08	<0.1	0.03	2.1	<0.1	<0.05	4	<0.5	<0.2	
PP11-DH102	Soil	42	0.49	103	0.088	<1	1.73	0.048	0.10	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2	
PP11-DH103	Soil	24	0.29	74	0.083	<1	1.57	0.035	0.06	<0.1	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2	
PP11-DH104	Soil	32	0.32	125	0.100	<1	1.99	0.032	0.08	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2	
PP11-DH105	Soil	23	0.27	107	0.088	<1	2.07	0.025	0.06	<0.1	0.03	1.7	<0.1	<0.05	6	<0.5	<0.2	
PP11-DH106	Soil	37	0.44	100	0.112	<1	2.32	0.033	0.06	<0.1	0.03	6.2	<0.1	<0.05	6	<0.5	<0.2	
PP11-DH107	Soil	16	0.16	86	0.081	1	1.53	0.016	0.04	<0.1	0.03	1.4	<0.1	0.11	5	<0.5	<0.2	
PP11-DH108	Soil	18	0.18	142	0.101	2	2.55	0.019	0.08	0.1	0.02	2.3	<0.1	0.08	7	<0.5	<0.2	
PP11-DH109	Soil	19	0.17	72	0.078	1	1.64	0.020	0.05	<0.1	0.01	1.8	<0.1	0.08	5	<0.5	<0.2	
PP11-DH110	Soil	21	0.20	87	0.089	1	1.68	0.029	0.04	<0.1	<0.01	2.2	<0.1	0.07	4	<0.5	<0.2	
PP11-DH111	Soil	28	0.27	95	0.089	<1	1.82	0.030	0.04	<0.1	0.01	3.2	<0.1	0.07	5	<0.5	<0.2	
PP11-DH112	Soil	25	0.26	80	0.098	1	1.26	0.031	0.05	0.1	<0.01	2.5	<0.1	0.09	3	<0.5	<0.2	
PP11-DH113	Soil	20	0.22	103	0.086	<1	2.02	0.017	0.04	0.2	0.03	2.2	<0.1	0.06	6	<0.5	<0.2	
PP11-DH114	Soil	22	0.20	150	0.101	1	2.32	0.019	0.05	0.2	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2	
PP11-DH115	Soil	34	0.36	117	0.082	2	1.71	0.025	0.08	0.1	0.03	3.6	<0.1	0.09	5	0.5	<0.2	
PP11-DH116	Soil	26	0.29	145	0.068	3	1.52	0.050	0.13	<0.1	0.02	2.8	<0.1	0.08	4	<0.5	<0.2	
PP11-DH117	Soil	25	0.24	52	0.073	<1	1.25	0.028	0.04	<0.1	<0.01	1.5	<0.1	0.07	3	<0.5	<0.2	
PP11-DH118	Soil	24	0.27	85	0.070	<1	1.27	0.016	0.09	<0.1	0.03	2.4	<0.1	0.08	4	<0.5	<0.2	



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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	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	
PP11-DH119	Soil		0.4	13.4	4.9	44	<0.1	34.3	7.9	188	1.67	2.2	1.0	1.2	17	<0.1	<0.1	<0.1	40	0.12	0.098	4
PP11-DH120	Soil		0.3	15.6	4.7	42	<0.1	36.8	7.7	132	1.67	2.0	1.2	1.1	19	<0.1	<0.1	<0.1	40	0.14	0.095	3
PP11-JMT001	Soil		0.5	9.0	6.2	44	<0.1	10.3	4.5	194	1.39	1.4	<0.5	1.1	19	<0.1	<0.1	0.1	33	0.10	0.086	4
PP11-JMT002	Soil		0.2	15.4	7.7	41	<0.1	13.2	5.6	118	1.53	1.5	<0.5	2.1	39	<0.1	<0.1	0.1	36	0.16	0.088	7
PP11-JMT003	Soil		0.4	8.9	5.9	37	<0.1	11.7	4.6	119	1.34	1.1	0.6	1.1	23	<0.1	<0.1	0.1	32	0.09	0.090	4
PP11-JMT004	Soil		0.4	10.5	6.3	46	<0.1	14.3	6.2	147	1.69	1.3	2.4	2.0	25	<0.1	<0.1	0.1	44	0.12	0.089	5
PP11-JMT005	Soil		0.4	12.3	5.1	43	<0.1	12.9	6.3	181	1.80	1.4	<0.5	2.3	18	<0.1	<0.1	0.1	48	0.11	0.107	5
PP11-JMT006	Soil		0.4	12.6	5.9	53	<0.1	17.8	7.1	209	1.87	1.1	1.3	1.9	18	<0.1	<0.1	0.1	49	0.10	0.103	4
PP11-JMT007	Soil		0.2	16.1	4.6	40	<0.1	21.1	7.9	155	1.94	0.8	0.8	2.3	40	<0.1	<0.1	0.1	53	0.19	0.056	7
PP11-JMT008	Soil		0.4	6.8	5.1	42	<0.1	11.5	4.2	106	1.37	0.8	<0.5	1.4	17	<0.1	<0.1	0.1	32	0.09	0.135	4
PP11-JMT009	Soil		0.2	20.2	8.0	45	<0.1	35.7	8.9	174	2.26	1.2	3.6	3.5	65	<0.1	<0.1	<0.1	60	0.24	0.083	15
PP11-JMT010	Soil		0.3	10.1	6.4	51	<0.1	19.0	6.1	164	1.50	<0.5	<0.5	1.8	28	<0.1	<0.1	0.1	35	0.13	0.059	5
PP11-JMT011	Soil		0.4	7.3	5.7	49	<0.1	12.0	3.8	220	1.12	0.5	<0.5	1.3	18	<0.1	<0.1	0.1	27	0.11	0.097	4
PP11-JMT012	Soil		0.6	8.2	6.5	54	<0.1	10.2	3.6	238	1.21	1.2	<0.5	1.5	18	<0.1	<0.1	0.1	27	0.12	0.138	4
PP11-JMT013	Soil		0.6	5.5	5.5	47	<0.1	6.5	3.1	224	1.16	0.8	<0.5	0.7	9	<0.1	<0.1	0.1	29	0.07	0.104	2
PP11-JMT014	Soil		0.3	12.9	5.1	34	<0.1	17.5	6.0	122	1.80	0.7	5.6	1.9	32	<0.1	<0.1	0.1	44	0.19	0.044	6
PP11-JMT015	Soil		0.3	14.2	5.0	39	<0.1	16.1	6.3	109	1.82	0.7	<0.5	1.1	27	<0.1	<0.1	<0.1	44	0.13	0.060	3
PP11-JMT016	Soil		0.2	21.1	6.9	37	<0.1	26.5	8.1	240	2.03	1.7	<0.5	2.4	59	<0.1	<0.1	0.1	46	0.25	0.045	7
PP11-JMT017	Soil		0.2	14.4	4.7	40	<0.1	19.1	6.7	201	1.92	0.6	0.8	1.7	42	<0.1	<0.1	<0.1	48	0.23	0.018	8
PP11-JMT018	Soil		0.2	13.7	4.1	46	<0.1	22.4	6.8	115	1.81	2.3	0.8	1.0	34	<0.1	<0.1	<0.1	45	0.19	0.041	4
PP11-JMT019	Soil		0.3	10.6	4.8	58	<0.1	20.0	5.3	263	1.52	2.0	0.5	1.1	30	<0.1	<0.1	0.1	38	0.15	0.080	4
PP11-JMT020	Soil		0.3	11.9	4.4	49	<0.1	7.1	7.5	513	2.23	1.9	<0.5	0.9	53	<0.1	<0.1	<0.1	62	0.28	0.032	4
PP11-JMT021	Soil		0.3	12.6	6.1	52	<0.1	13.7	7.1	198	1.96	1.9	<0.5	0.9	40	<0.1	<0.1	0.1	53	0.16	0.033	3
PP11-JMT022	Soil		0.2	8.4	6.1	31	<0.1	11.3	4.4	82	1.58	1.4	2.3	1.3	28	<0.1	<0.1	0.1	40	0.12	0.022	4
PP11-JMT023	Soil		0.3	6.2	4.9	27	<0.1	10.4	4.2	113	1.36	<0.5	<0.5	0.7	29	<0.1	<0.1	0.1	35	0.13	0.033	3
PP11-JMT024	Soil		0.4	8.8	5.6	34	<0.1	14.0	5.4	137	1.55	<0.5	1.4	1.1	39	<0.1	<0.1	0.1	38	0.15	0.034	4
PP11-JMT025	Soil		0.5	7.3	5.4	41	<0.1	10.3	3.8	119	1.42	1.2	<0.5	0.9	26	<0.1	<0.1	0.1	35	0.12	0.091	3
PP11-JMT026	Soil		0.4	7.6	5.1	42	<0.1	11.1	3.4	84	1.31	1.0	<0.5	0.9	28	<0.1	<0.1	0.1	32	0.14	0.076	3
PP11-JMT027	Soil		0.4	12.4	5.7	57	<0.1	27.5	6.0	248	1.69	0.9	2.0	1.4	24	<0.1	<0.1	0.1	38	0.10	0.101	4
PP11-JMT028	Soil		0.5	11.2	5.7	53	<0.1	27.6	5.7	273	1.55	0.9	0.6	1.3	21	<0.1	<0.1	0.1	35	0.11	0.100	4

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Report Date: December 01, 2011

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Method Analyte	Unit	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
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	
PP11-DH119	Soil	44	0.26	112	0.095	1	1.96	0.018	0.05	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
PP11-DH120	Soil	36	0.32	119	0.085	1	2.26	0.018	0.06	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT001	Soil	9	0.12	92	0.101	<1	1.86	0.016	0.04	<0.1	0.03	1.2	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT002	Soil	10	0.17	167	0.132	<1	2.59	0.020	0.05	<0.1	0.02	1.8	0.1	<0.05	7	<0.5	<0.2
PP11-JMT003	Soil	10	0.12	100	0.114	<1	1.94	0.018	0.04	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT004	Soil	14	0.19	113	0.117	2	2.01	0.016	0.08	0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT005	Soil	14	0.18	101	0.115	<1	2.02	0.016	0.06	0.1	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT006	Soil	17	0.25	109	0.120	<1	2.21	0.013	0.06	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT007	Soil	24	0.37	181	0.113	<1	2.02	0.014	0.11	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PP11-JMT008	Soil	9	0.12	71	0.101	1	1.74	0.014	0.04	0.1	0.03	1.4	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT009	Soil	32	0.39	314	0.162	<1	3.35	0.018	0.08	<0.1	0.02	3.0	<0.1	<0.05	8	<0.5	<0.2
PP11-JMT010	Soil	16	0.20	149	0.116	<1	2.25	0.015	0.07	<0.1	0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT011	Soil	8	0.08	81	0.105	1	1.72	0.019	0.04	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT012	Soil	8	0.09	81	0.115	2	2.35	0.019	0.04	0.2	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT013	Soil	7	0.06	46	0.090	<1	1.22	0.017	0.03	<0.1	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
PP11-JMT014	Soil	26	0.30	131	0.121	<1	1.80	0.017	0.08	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
PP11-JMT015	Soil	25	0.27	140	0.115	1	2.30	0.021	0.03	<0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT016	Soil	50	0.51	248	0.106	<1	4.15	0.019	0.06	<0.1	0.02	4.2	<0.1	<0.05	9	<0.5	<0.2
PP11-JMT017	Soil	46	0.52	102	0.107	<1	1.88	0.019	0.07	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
PP11-JMT018	Soil	45	0.32	153	0.099	<1	2.58	0.020	0.07	<0.1	0.02	2.7	<0.1	0.09	7	<0.5	<0.2
PP11-JMT019	Soil	34	0.21	137	0.090	<1	2.09	0.020	0.05	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT020	Soil	10	0.35	120	0.107	<1	2.35	0.039	0.05	<0.1	0.02	3.3	<0.1	0.07	6	<0.5	<0.2
PP11-JMT021	Soil	16	0.21	211	0.118	<1	3.17	0.023	0.05	<0.1	0.02	1.8	<0.1	0.08	9	<0.5	<0.2
PP11-JMT022	Soil	21	0.20	122	0.120	<1	1.66	0.017	0.04	<0.1	<0.01	1.7	<0.1	0.06	5	0.5	<0.2
PP11-JMT023	Soil	18	0.16	94	0.094	<1	1.40	0.020	0.04	<0.1	0.01	0.9	<0.1	0.06	5	<0.5	<0.2
PP11-JMT024	Soil	20	0.19	136	0.107	2	2.05	0.025	0.05	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT025	Soil	12	0.11	69	0.100	2	1.90	0.023	0.03	<0.1	0.04	1.2	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT026	Soil	14	0.13	84	0.113	1	1.73	0.023	0.04	<0.1	0.02	1.1	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT027	Soil	23	0.20	111	0.115	2	2.52	0.026	0.04	<0.1	0.02	2.1	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT028	Soil	19	0.19	94	0.103	2	2.49	0.025	0.05	<0.1	0.03	2.0	<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	%	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	
PP11-JMT029	Soil		0.6	13.9	6.0	70	<0.1	21.9	5.9	941	1.68	1.1	<0.5	1.1	55	<0.1	<0.1	0.1	41	0.42	0.137	4
PP11-JMT030	Soil		0.6	13.9	7.0	81	<0.1	47.5	7.7	948	1.97	1.2	<0.5	1.5	42	<0.1	<0.1	0.1	38	0.29	0.158	3
PP11-JMT031	Soil		0.4	15.3	6.7	59	<0.1	35.0	7.3	459	1.92	<0.5	<0.5	1.2	30	<0.1	<0.1	0.1	41	0.14	0.092	3
PP11-JMT032	Soil		0.4	14.5	6.1	60	<0.1	42.3	8.2	343	1.91	0.7	<0.5	1.5	30	<0.1	<0.1	0.1	38	0.11	0.133	5
PP11-JMT033	Soil		0.4	19.9	6.9	54	<0.1	61.6	11.1	377	2.46	<0.5	<0.5	2.0	82	<0.1	<0.1	0.1	48	0.28	0.090	6
PP11-JMT034	Soil		0.2	36.3	6.9	43	<0.1	111.6	16.3	207	3.35	0.7	<0.5	3.4	148	<0.1	<0.1	0.1	73	0.54	0.031	8
PP11-JMT035	Soil		0.2	13.1	5.2	34	<0.1	25.0	5.9	296	1.63	<0.5	<0.5	1.2	59	<0.1	<0.1	0.1	40	0.23	0.022	5
PP11-JMT036	Soil		0.3	13.6	5.6	47	<0.1	37.0	8.7	196	1.96	<0.5	<0.5	1.2	71	<0.1	<0.1	<0.1	40	0.22	0.054	3
PP11-JMT037	Soil		0.3	20.3	5.4	40	<0.1	47.7	11.0	201	2.32	<0.5	<0.5	1.2	98	<0.1	<0.1	<0.1	45	0.28	0.044	3
PP11-JMT038	Soil		0.3	15.9	5.9	45	<0.1	43.6	9.1	172	2.11	<0.5	<0.5	1.6	56	<0.1	<0.1	<0.1	41	0.20	0.086	3
PP11-JMT039	Soil		0.3	16.8	7.0	45	<0.1	40.5	10.4	257	2.19	<0.5	<0.5	1.4	72	<0.1	<0.1	0.1	45	0.24	0.048	3
PP11-JMT040	Soil		0.4	15.2	5.6	46	<0.1	41.6	8.8	468	1.93	<0.5	<0.5	1.3	47	<0.1	<0.1	0.1	41	0.20	0.078	3
PP11-JMT041	Soil		0.3	12.8	6.1	51	<0.1	36.4	8.9	513	1.85	<0.5	1.5	1.2	36	<0.1	<0.1	0.1	41	0.18	0.075	3
PP11-JMT042	Soil		0.5	12.1	6.1	56	<0.1	35.8	8.5	303	1.80	<0.5	<0.5	1.1	26	<0.1	<0.1	0.1	39	0.13	0.086	2
PP11-JMT043	Soil		0.2	19.9	5.6	44	0.1	39.4	7.4	323	1.94	<0.5	<0.5	1.6	49	<0.1	<0.1	<0.1	48	0.29	0.028	7
PP11-JMT044	Soil		0.3	14.8	5.9	51	<0.1	38.6	7.4	369	1.84	<0.5	<0.5	1.4	36	<0.1	<0.1	0.1	43	0.21	0.139	3
PP11-JMT045	Soil		0.6	14.4	5.2	50	<0.1	22.8	7.0	304	1.74	<0.5	<0.5	1.3	20	<0.1	<0.1	0.1	38	0.12	0.096	3
PP11-JMT046	Soil		0.3	21.3	5.8	44	<0.1	31.1	9.1	202	2.06	<0.5	11.1	1.2	37	<0.1	<0.1	0.1	45	0.23	0.053	4
PP11-JMT047	Soil		0.4	15.0	6.9	41	<0.1	24.5	7.4	154	1.75	<0.5	5.8	0.9	27	0.1	<0.1	<0.1	41	0.17	0.050	3
PP11-JMT048	Soil		0.2	16.7	4.0	23	<0.1	34.7	8.6	170	1.75	<0.5	<0.5	1.1	41	<0.1	<0.1	<0.1	47	0.28	0.028	4
PP11-JMT049	Soil		0.4	11.3	5.5	37	<0.1	31.2	8.0	239	1.78	<0.5	0.5	1.2	23	<0.1	<0.1	0.1	39	0.17	0.067	3
PP11-JMT050	Soil		0.2	19.2	5.4	51	<0.1	39.3	7.4	183	1.84	<0.5	<0.5	1.7	36	<0.1	<0.1	0.1	40	0.22	0.075	6
PMS-107	Soil Pulp		106.8	3221	23.4	60	2.3	34.6	19.2	392	3.97	50.4	425.3	2.0	30	0.4	3.3	0.4	120	0.32	0.085	10
PP11-JMT051	Soil		0.3	29.6	5.5	29	<0.1	47.0	8.6	152	2.25	<0.5	0.8	1.4	78	<0.1	<0.1	<0.1	52	0.34	0.022	5
PP11-JMT052	Soil		0.3	18.3	14.0	38	<0.1	34.2	8.2	150	1.91	<0.5	<0.5	1.2	41	0.4	<0.1	<0.1	42	0.22	0.047	4
PP11-JMT053	Soil		0.2	22.9	5.1	36	<0.1	38.8	8.4	123	1.98	<0.5	<0.5	1.2	40	<0.1	<0.1	<0.1	44	0.20	0.070	5
PP11-JMT054	Soil		0.2	19.0	3.4	24	<0.1	29.2	5.4	137	1.43	<0.5	<0.5	1.1	40	<0.1	<0.1	<0.1	37	0.31	0.010	4
PP11-JMT055	Soil		<0.1	34.2	4.4	32	<0.1	75.9	10.9	157	2.69	0.8	<0.5	2.2	171	<0.1	<0.1	<0.1	49	0.58	0.014	5
PP11-JMT056	Soil		0.3	17.8	3.2	34	<0.1	24.1	6.3	151	1.67	0.8	<0.5	0.8	24	<0.1	<0.1	<0.1	45	0.26	0.070	4
PP11-JMT057	Soil		0.2	39.8	5.0	53	<0.1	163.2	24.0	802	2.93	0.9	<0.5	2.1	68	<0.1	<0.1	<0.1	56	0.50	0.044	5

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 Report Date: December 01, 2011

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
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	
PP11-JMT029	Soil	21	0.22	141	0.110	3	2.62	0.044	0.12	<0.1	0.02	1.7	<0.1	<0.05	8	<0.5	<0.2
PP11-JMT030	Soil	27	0.30	143	0.121	3	3.09	0.032	0.12	<0.1	0.02	2.1	<0.1	<0.05	9	<0.5	<0.2
PP11-JMT031	Soil	28	0.33	111	0.109	1	2.87	0.023	0.06	<0.1	0.02	1.9	<0.1	<0.05	8	<0.5	<0.2
PP11-JMT032	Soil	27	0.32	122	0.106	<1	2.99	0.024	0.06	<0.1	0.02	2.6	<0.1	<0.05	8	<0.5	<0.2
PP11-JMT033	Soil	45	0.58	159	0.114	1	3.54	0.028	0.09	<0.1	0.03	4.2	<0.1	<0.05	8	<0.5	<0.2
PP11-JMT034	Soil	77	1.39	170	0.114	1	4.05	0.028	0.11	<0.1	0.02	8.9	<0.1	<0.05	9	<0.5	<0.2
PP11-JMT035	Soil	30	0.34	68	0.093	<1	1.86	0.040	0.05	<0.1	0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
PP11-JMT036	Soil	33	0.39	144	0.097	<1	2.72	0.027	0.05	<0.1	0.02	2.4	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT037	Soil	43	0.58	128	0.078	<1	2.49	0.023	0.06	<0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT038	Soil	32	0.41	156	0.092	<1	2.99	0.022	0.07	<0.1	0.01	2.4	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT039	Soil	37	0.43	171	0.097	2	3.58	0.023	0.08	<0.1	0.02	2.3	<0.1	<0.05	8	<0.5	<0.2
PP11-JMT040	Soil	29	0.38	139	0.090	1	2.81	0.021	0.09	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT041	Soil	27	0.30	129	0.098	1	2.80	0.023	0.06	<0.1	0.02	2.0	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT042	Soil	26	0.29	100	0.093	1	2.72	0.024	0.06	<0.1	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT043	Soil	45	0.46	96	0.099	2	2.77	0.032	0.05	<0.1	0.02	5.3	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT044	Soil	29	0.30	153	0.102	1	3.33	0.027	0.04	<0.1	0.02	2.7	<0.1	<0.05	8	<0.5	<0.2
PP11-JMT045	Soil	20	0.25	100	0.107	2	2.52	0.023	0.04	<0.1	0.01	2.0	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT046	Soil	31	0.43	178	0.134	2	3.21	0.023	0.05	<0.1	0.02	2.4	<0.1	<0.05	8	0.6	<0.2
PP11-JMT047	Soil	24	0.31	109	0.116	2	2.36	0.028	0.04	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT048	Soil	40	0.45	74	0.102	<1	1.81	0.049	0.04	<0.1	0.01	3.6	<0.1	<0.05	5	<0.5	<0.2
PP11-JMT049	Soil	26	0.26	122	0.106	2	2.61	0.027	0.04	<0.1	<0.01	1.9	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT050	Soil	31	0.35	148	0.106	1	2.68	0.028	0.09	<0.1	<0.01	3.3	<0.1	<0.05	7	<0.5	<0.2
PMS-107	Soil Pulp	48	0.85	43	0.113	2	1.28	0.038	0.88	3.9	0.05	9.6	0.5	1.84	5	6.2	0.7
PP11-JMT051	Soil	54	0.62	186	0.117	<1	2.65	0.030	0.10	<0.1	0.01	3.6	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT052	Soil	37	0.46	119	0.099	1	2.26	0.035	0.07	<0.1	0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT053	Soil	40	0.45	151	0.099	2	2.53	0.030	0.06	<0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT054	Soil	41	0.52	85	0.095	1	1.35	0.053	0.06	<0.1	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PP11-JMT055	Soil	54	1.15	138	0.052	<1	2.22	0.034	0.09	<0.1	<0.01	5.4	<0.1	<0.05	5	<0.5	<0.2
PP11-JMT056	Soil	38	0.45	88	0.085	2	1.63	0.033	0.04	<0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
PP11-JMT057	Soil	120	1.98	141	0.078	2	2.87	0.041	0.09	<0.1	0.03	9.4	<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	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	
PP11-JMT058	Soil	0.2	29.2	5.6	34	<0.1	73.4	11.6	186	2.37	1.7	0.9	1.8	38	<0.1	0.1	0.2	47	0.30	0.026	4
PP11-JMT059	Soil	0.4	22.3	5.4	40	<0.1	41.7	7.6	101	1.75	2.1	1.8	1.6	16	<0.1	<0.1	0.1	42	0.14	0.103	4
PP11-JMT060	Soil	0.6	22.2	7.2	53	<0.1	53.1	9.6	130	2.07	2.4	0.7	1.9	15	<0.1	<0.1	0.1	45	0.12	0.108	4
PP11-JMT061	Soil	0.6	15.2	6.9	65	<0.1	43.4	8.6	87	2.06	1.6	0.8	1.3	18	<0.1	<0.1	0.1	45	0.12	0.128	3
PP11-JMT062	Soil	0.4	15.9	5.0	39	<0.1	25.6	6.3	66	1.48	2.1	<0.5	1.7	7	<0.1	<0.1	0.1	35	0.06	0.145	4
PP11-JMT063	Soil	0.4	18.0	4.9	52	<0.1	32.7	7.7	92	1.63	1.7	<0.5	1.7	10	<0.1	<0.1	<0.1	37	0.09	0.133	3
PP11-JMT064	Soil	0.4	31.7	4.9	48	<0.1	105.6	14.9	129	2.19	1.6	27.1	1.2	25	<0.1	<0.1	<0.1	38	0.20	0.075	3
PP11-JMT065	Soil	0.2	20.9	3.3	28	<0.1	44.6	6.7	118	1.61	1.0	1.1	0.8	29	<0.1	<0.1	<0.1	34	0.26	0.021	5
PP11-JMT066	Soil	0.3	13.6	6.2	45	<0.1	19.2	6.5	167	1.84	1.5	<0.5	1.7	55	<0.1	<0.1	0.1	52	0.20	0.098	7
PP11-JMT067	Soil	0.4	8.3	5.7	42	<0.1	13.5	6.2	122	1.61	0.8	2.0	1.6	26	<0.1	<0.1	0.1	43	0.12	0.123	4
PP11-JMT068	Soil	0.3	11.4	6.5	45	<0.1	20.5	6.8	240	1.73	0.9	<0.5	1.8	40	<0.1	<0.1	<0.1	42	0.14	0.084	5
PP11-JMT069	Soil	0.3	16.8	6.2	50	<0.1	22.6	7.9	157	1.90	0.8	0.5	2.0	58	<0.1	<0.1	<0.1	49	0.17	0.097	8
PP11-JMT071	Soil	0.3	17.2	5.9	53	<0.1	20.3	8.6	139	2.02	0.9	0.9	2.3	47	<0.1	<0.1	0.1	55	0.17	0.100	7
PP11-JMT072	Soil	0.3	13.7	4.4	33	<0.1	12.2	6.9	146	1.91	1.2	1.1	1.6	44	<0.1	<0.1	0.2	56	0.19	0.030	5
PP11-JMT073	Soil	0.3	10.8	6.1	34	0.1	13.5	4.9	134	1.60	1.9	<0.5	2.2	22	<0.1	<0.1	0.1	37	0.13	0.261	4
PP11-JMT074	Soil	0.3	13.5	5.9	60	0.1	15.2	6.6	327	1.74	1.2	0.6	1.8	22	<0.1	<0.1	0.1	42	0.14	0.160	5
PP11-JMT075	Soil	0.3	29.4	7.4	46	<0.1	35.4	10.5	215	2.89	1.3	21.9	3.6	87	<0.1	0.1	0.1	72	0.40	0.035	14
PP11-JMT076	Soil	0.3	47.6	6.4	56	<0.1	22.4	11.6	382	3.11	1.8	25.6	3.4	60	<0.1	0.2	0.2	78	0.36	0.052	9
PP11-JMT077	Soil	0.5	10.7	6.3	75	<0.1	18.2	6.5	265	1.85	1.1	<0.5	1.7	16	<0.1	<0.1	0.1	43	0.11	0.131	4
PP11-JMT078	Soil	0.4	14.5	5.4	62	<0.1	17.5	8.9	293	2.36	1.4	<0.5	2.1	25	<0.1	<0.1	0.1	62	0.20	0.106	5
PP11-JMT079	Soil	0.3	32.4	5.5	61	<0.1	38.5	13.4	416	3.69	2.0	1.7	4.1	75	<0.1	0.2	<0.1	97	0.59	0.074	14
PP11-JMT080	Soil	0.7	21.0	11.2	93	<0.1	16.3	10.6	1150	6.19	12.0	0.9	3.3	60	<0.1	0.4	<0.1	70	0.44	0.066	37
PP11-JMT081	Soil	0.3	24.4	4.8	64	<0.1	22.5	11.3	301	3.32	1.7	<0.5	3.2	62	<0.1	0.2	0.1	92	0.41	0.057	10
PP11-JMT082	Soil	0.3	9.3	6.5	59	<0.1	16.1	5.8	308	1.59	<0.5	<0.5	1.2	39	<0.1	<0.1	<0.1	38	0.21	0.059	4
PP11-JMT083	Soil	0.2	7.2	5.7	46	<0.1	14.7	3.9	124	1.38	0.6	<0.5	1.5	29	<0.1	<0.1	<0.1	30	0.16	0.166	4
PP11-JMT084	Soil	0.3	11.4	5.6	40	<0.1	13.2	6.0	172	1.97	<0.5	1.8	1.6	53	<0.1	<0.1	<0.1	53	0.24	0.031	5
PP11-JMT085	Soil	0.5	21.5	4.6	36	<0.1	20.4	7.1	170	2.34	1.4	0.5	3.6	53	<0.1	0.2	<0.1	71	0.34	0.031	14
PP11-JMT086	Soil	0.3	11.8	6.9	41	<0.1	14.9	5.3	184	1.70	<0.5	<0.5	2.0	42	<0.1	<0.1	<0.1	44	0.19	0.043	6
PP11-JMT087	Soil	0.3	8.1	6.7	47	<0.1	13.1	4.4	101	1.33	0.6	<0.5	1.4	25	<0.1	<0.1	<0.1	28	0.13	0.092	3
PP11-JMT088	Soil	0.2	11.6	6.4	50	<0.1	22.5	5.9	114	1.60	<0.5	0.6	1.8	35	<0.1	<0.1	<0.1	38	0.18	0.057	4

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
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	
PP11-JMT058	Soil	71	0.61	99	0.104	2	2.21	0.036	0.06	<0.1	0.01	4.9	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT059	Soil	29	0.32	128	0.100	1	2.47	0.019	0.04	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT060	Soil	33	0.30	136	0.125	1	3.81	0.015	0.08	<0.1	0.02	2.5	<0.1	<0.05	9	<0.5	<0.2
PP11-JMT061	Soil	27	0.21	132	0.108	1	3.46	0.016	0.05	<0.1	0.02	2.1	<0.1	<0.05	9	<0.5	<0.2
PP11-JMT062	Soil	22	0.18	74	0.098	<1	2.52	0.017	0.03	0.1	0.03	2.2	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT063	Soil	28	0.27	83	0.096	1	2.38	0.019	0.05	<0.1	0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT064	Soil	56	1.08	153	0.087	<1	3.15	0.021	0.07	<0.1	0.03	2.4	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT065	Soil	43	0.46	75	0.071	<1	1.62	0.029	0.06	<0.1	0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
PP11-JMT066	Soil	24	0.30	136	0.135	<1	2.61	0.026	0.07	<0.1	0.02	2.4	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT067	Soil	14	0.20	88	0.119	<1	1.98	0.019	0.06	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT068	Soil	18	0.25	176	0.129	<1	2.29	0.019	0.07	<0.1	0.02	1.5	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT069	Soil	22	0.29	216	0.139	<1	2.96	0.021	0.07	<0.1	0.02	2.1	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT071	Soil	22	0.33	212	0.145	1	2.60	0.020	0.09	<0.1	0.02	2.0	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT072	Soil	20	0.36	119	0.147	<1	1.43	0.019	0.15	<0.1	0.01	1.6	0.1	<0.05	5	<0.5	<0.2
PP11-JMT073	Soil	14	0.17	81	0.122	<1	2.42	0.018	0.08	<0.1	0.03	1.9	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT074	Soil	17	0.28	142	0.112	<1	2.30	0.014	0.07	0.1	0.02	1.8	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT075	Soil	47	0.66	250	0.170	<1	3.24	0.026	0.15	<0.1	0.02	6.4	0.2	<0.05	8	<0.5	<0.2
PP11-JMT076	Soil	29	0.68	187	0.168	<1	2.86	0.015	0.27	0.1	0.02	4.3	0.2	<0.05	8	<0.5	<0.2
PP11-JMT077	Soil	15	0.24	91	0.133	<1	2.63	0.017	0.05	<0.1	0.04	1.7	<0.1	<0.05	8	<0.5	<0.2
PP11-JMT078	Soil	18	0.47	130	0.149	<1	2.33	0.015	0.21	<0.1	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT079	Soil	44	0.92	159	0.172	<1	2.77	0.022	0.28	<0.1	0.01	8.0	0.2	<0.05	9	<0.5	<0.2
PP11-JMT080	Soil	23	0.66	49	0.021	<1	1.89	0.008	0.13	0.2	0.02	12.2	<0.1	<0.05	10	<0.5	<0.2
PP11-JMT081	Soil	35	0.72	185	0.179	<1	2.80	0.023	0.25	<0.1	0.02	6.0	0.2	<0.05	8	<0.5	<0.2
PP11-JMT082	Soil	18	0.21	140	0.102	<1	2.19	0.023	0.06	<0.1	0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT083	Soil	11	0.14	112	0.107	<1	1.95	0.027	0.06	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT084	Soil	23	0.25	157	0.124	<1	2.13	0.035	0.07	<0.1	0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT085	Soil	37	0.40	86	0.146	<1	1.26	0.035	0.10	<0.1	0.01	4.9	0.2	<0.05	4	<0.5	<0.2
PP11-JMT086	Soil	25	0.22	141	0.124	<1	2.15	0.025	0.06	<0.1	0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT087	Soil	14	0.13	114	0.107	<1	2.04	0.021	0.05	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT088	Soil	25	0.22	155	0.112	<1	2.16	0.022	0.05	<0.1	0.01	1.8	<0.1	<0.05	6	<0.5	<0.2

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Project: Princeton
 Report Date: December 01, 2011

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CERTIFICATE OF ANALYSIS

VAN11005008.1

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	
PP11-JMT089	Soil		0.3	9.7	6.1	55	<0.1	19.3	5.4	125	1.52	<0.5	<0.5	1.6	29	<0.1	<0.1	<0.1	33	0.14	0.065	4
PP11-JMT090	Soil		0.5	3.7	4.8	44	<0.1	7.2	3.3	108	1.23	<0.5	<0.5	0.7	11	<0.1	<0.1	<0.1	31	0.08	0.073	2
PP11-JMT091	Soil		0.6	8.3	6.6	45	<0.1	13.2	4.6	89	1.44	0.7	<0.5	1.3	17	<0.1	<0.1	0.1	35	0.08	0.090	3
PP11-JMT092	Soil		0.5	6.0	5.7	54	<0.1	8.0	3.7	452	1.30	0.7	1.7	1.0	15	<0.1	<0.1	<0.1	33	0.10	0.088	2
PP11-JMT093	Soil		0.5	13.1	7.3	64	<0.1	21.0	6.4	249	1.72	0.9	<0.5	1.6	27	<0.1	<0.1	0.1	40	0.13	0.072	4
PP11-JMT094	Soil		0.4	12.6	5.6	64	<0.1	23.6	6.1	241	1.59	0.7	<0.5	1.3	27	<0.1	<0.1	<0.1	38	0.16	0.063	4
PP11-JMT095	Soil		0.3	16.2	6.2	41	<0.1	24.3	7.0	297	2.04	<0.5	1.2	2.1	56	<0.1	<0.1	0.1	54	0.26	0.020	9
PP11-JMT096	Soil		0.3	16.2	5.5	30	<0.1	20.9	6.2	142	2.07	0.7	0.6	2.7	61	<0.1	0.1	0.1	53	0.27	0.020	8
PP11-JMT097	Soil		0.2	16.7	5.3	42	<0.1	39.1	8.9	386	2.26	<0.5	<0.5	2.5	80	<0.1	<0.1	<0.1	55	0.33	0.019	8
PP11-JMT098	Soil		0.3	13.2	7.6	52	<0.1	33.8	11.6	916	2.26	<0.5	<0.5	2.2	78	0.1	<0.1	0.1	55	0.31	0.019	7
PP11-JMT099	Soil		0.4	24.1	4.4	38	<0.1	34.4	9.9	639	2.28	0.7	<0.5	3.4	87	<0.1	0.1	0.1	58	0.32	0.019	10
PP11-JMT100	Soil		0.1	8.3	3.4	35	<0.1	13.8	4.3	145	1.54	<0.5	<0.5	1.4	57	<0.1	<0.1	<0.1	37	0.28	0.017	4
PMS-102	Soil Pulp		16.0	61.4	17.0	17	0.1	14.8	2.3	104	3.48	431.2	186.8	0.8	37	0.3	29.2	0.1	9	0.94	0.005	2
PP11-JMT101	Soil		0.2	6.9	2.9	42	<0.1	11.7	3.9	309	1.35	<0.5	0.6	0.9	29	<0.1	<0.1	<0.1	30	0.17	0.029	2
PP11-JMT102	Soil		0.3	17.3	3.3	45	<0.1	24.0	6.3	375	2.00	<0.5	0.8	2.2	51	<0.1	<0.1	<0.1	54	0.28	0.020	8
PP11-JMT103	Soil		0.3	10.3	3.6	39	<0.1	17.5	5.5	441	1.51	<0.5	<0.5	1.1	42	<0.1	<0.1	<0.1	43	0.21	0.022	6
PP11-JMT104	Soil		0.3	24.6	4.8	55	0.1	28.8	8.0	539	2.28	0.9	0.9	2.0	64	<0.1	<0.1	<0.1	63	0.37	0.033	10
PP11-JMT105	Soil		0.3	10.7	4.6	45	<0.1	19.9	6.9	189	2.01	<0.5	<0.5	1.2	41	<0.1	<0.1	<0.1	54	0.21	0.024	4
PP11-JMT106	Soil		0.2	24.9	4.7	49	<0.1	40.7	10.5	171	2.15	<0.5	1.0	1.1	41	<0.1	<0.1	<0.1	52	0.29	0.046	3
PP11-JMT107	Soil		0.3	10.5	4.9	54	<0.1	19.8	6.2	318	1.61	<0.5	<0.5	0.8	28	<0.1	<0.1	<0.1	38	0.18	0.071	3
PP11-JMT108	Soil		0.3	19.4	5.9	44	<0.1	32.1	7.7	216	2.05	0.6	0.5	1.4	48	<0.1	0.1	<0.1	46	0.25	0.049	6
PP11-JMT109	Soil		0.5	11.1	5.1	55	<0.1	19.1	5.7	587	1.47	0.8	<0.5	1.1	21	<0.1	<0.1	<0.1	35	0.14	0.126	3
PP11-JMT110	Soil		0.4	19.5	4.9	57	<0.1	25.3	7.9	201	1.94	0.9	<0.5	1.4	29	<0.1	<0.1	<0.1	45	0.17	0.128	4
PP11-JMT111	Soil		0.1	13.2	4.4	34	<0.1	27.7	4.9	128	1.48	<0.5	<0.5	0.9	31	<0.1	<0.1	<0.1	35	0.21	0.022	4
PP11-JMT112	Soil		0.1	12.2	4.0	34	<0.1	30.0	5.2	94	1.52	<0.5	<0.5	0.9	35	<0.1	<0.1	<0.1	36	0.25	0.020	4
PP11-JMT113	Soil		0.2	16.2	4.9	44	<0.1	35.0	6.1	110	1.83	<0.5	0.8	1.1	40	<0.1	<0.1	<0.1	42	0.27	0.020	5
PP11-JMT114	Soil		0.6	23.6	4.6	58	0.1	28.2	8.1	129	2.66	1.6	2.3	1.0	49	<0.1	0.2	0.1	62	0.28	0.072	6
PP11-JMT115	Soil		0.4	24.0	6.4	57	<0.1	47.5	9.8	144	2.16	0.9	1.1	1.4	33	<0.1	<0.1	0.1	48	0.19	0.071	4
PP11-JMT116	Soil		0.3	14.8	4.6	45	<0.1	31.7	6.4	119	1.78	0.7	0.7	1.1	29	<0.1	<0.1	<0.1	44	0.22	0.088	4
PP11-JMT117	Soil		0.2	17.6	3.3	29	<0.1	23.2	6.5	206	1.61	0.7	1.3	1.1	44	<0.1	<0.1	<0.1	45	0.39	0.026	5

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Project: Princeton
 Report Date: December 01, 2011

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CERTIFICATE OF ANALYSIS

VAN11005008.1

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		
PP11-JMT089	Soil	21	0.18	156	0.113	<1	2.25	0.021	0.06	<0.1	0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT090	Soil	8	0.07	46	0.083	<1	1.15	0.016	0.03	0.1	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
PP11-JMT091	Soil	15	0.11	86	0.107	<1	2.20	0.018	0.05	<0.1	0.02	1.1	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT092	Soil	10	0.08	65	0.095	<1	1.68	0.017	0.03	<0.1	0.02	0.9	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT093	Soil	24	0.18	209	0.137	<1	3.07	0.020	0.05	<0.1	0.03	1.4	<0.1	<0.05	9	<0.5	<0.2
PP11-JMT094	Soil	26	0.18	195	0.115	1	3.08	0.019	0.10	<0.1	0.02	1.5	<0.1	<0.05	8	<0.5	<0.2
PP11-JMT095	Soil	41	0.30	97	0.122	<1	2.43	0.034	0.05	<0.1	0.02	4.0	0.1	<0.05	6	<0.5	<0.2
PP11-JMT096	Soil	41	0.36	98	0.131	1	2.11	0.036	0.08	<0.1	0.02	3.5	0.2	<0.05	5	<0.5	<0.2
PP11-JMT097	Soil	55	0.38	124	0.103	<1	1.97	0.041	0.09	<0.1	0.02	4.9	0.1	<0.05	5	<0.5	<0.2
PP11-JMT098	Soil	45	0.29	183	0.102	1	2.01	0.035	0.11	<0.1	0.02	4.5	0.1	<0.05	6	<0.5	<0.2
PP11-JMT099	Soil	51	0.58	101	0.105	<1	1.85	0.047	0.10	<0.1	0.03	7.0	0.1	<0.05	5	<0.5	<0.2
PP11-JMT100	Soil	26	0.18	121	0.093	2	1.09	0.046	0.11	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PMS-102	Soil Pulp	21	0.02	2791	0.011	<1	0.18	0.006	0.06	3.1	2.70	0.8	9.8	0.15	<1	1.1	<0.2
PP11-JMT101	Soil	18	0.16	89	0.070	<1	1.23	0.029	0.06	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
PP11-JMT102	Soil	44	0.46	69	0.093	<1	1.62	0.043	0.06	<0.1	0.02	5.7	<0.1	<0.05	5	<0.5	<0.2
PP11-JMT103	Soil	27	0.26	72	0.083	<1	1.31	0.036	0.06	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
PP11-JMT104	Soil	43	0.46	76	0.107	<1	2.35	0.044	0.08	<0.1	0.02	6.2	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT105	Soil	26	0.28	84	0.106	<1	2.09	0.038	0.06	<0.1	0.01	2.7	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT106	Soil	85	0.82	209	0.129	<1	2.79	0.036	0.11	<0.1	0.01	2.7	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT107	Soil	24	0.23	91	0.093	<1	2.03	0.023	0.08	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT108	Soil	37	0.38	155	0.115	<1	3.05	0.032	0.09	<0.1	0.02	3.3	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT109	Soil	16	0.15	84	0.094	1	1.95	0.022	0.04	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT110	Soil	26	0.27	94	0.097	<1	2.44	0.019	0.05	<0.1	0.02	2.4	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT111	Soil	32	0.29	97	0.089	<1	1.95	0.037	0.05	<0.1	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
PP11-JMT112	Soil	33	0.31	82	0.088	<1	1.72	0.055	0.05	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PP11-JMT113	Soil	39	0.33	140	0.105	<1	2.20	0.056	0.07	0.1	0.01	2.9	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT114	Soil	34	0.41	118	0.083	<1	2.11	0.020	0.07	0.6	<0.01	3.7	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT115	Soil	38	0.37	173	0.118	<1	3.52	0.025	0.11	<0.1	<0.01	2.9	<0.1	<0.05	9	<0.5	<0.2
PP11-JMT116	Soil	35	0.34	132	0.086	<1	2.29	0.024	0.06	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT117	Soil	42	0.59	77	0.098	<1	1.29	0.055	0.05	<0.1	<0.01	3.5	<0.1	<0.05	4	<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		
				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
PP11-JMT118	Soil			0.2	15.6	3.8	24	<0.1	25.3	6.2	188	1.56	0.8	1.7	1.1	42	<0.1	<0.1	<0.1	46	0.35	0.014	4
PP11-JMT119	Soil			0.2	14.6	3.8	25	<0.1	23.6	6.0	140	1.47	0.6	71.8	0.8	38	<0.1	<0.1	<0.1	38	0.31	0.019	4
PP11-JMT120	Soil			0.2	18.1	4.1	35	<0.1	28.3	6.8	121	1.78	0.8	0.9	1.1	34	<0.1	<0.1	<0.1	41	0.25	0.044	5
PP11-JMT121	Soil			0.2	10.5	3.0	30	<0.1	15.5	3.7	110	1.33	<0.5	2.4	0.7	30	<0.1	<0.1	<0.1	34	0.22	0.014	3
PP11-JMT122	Soil			0.2	17.9	4.4	34	<0.1	34.0	7.1	196	1.79	0.6	2.1	1.0	43	<0.1	<0.1	<0.1	46	0.29	0.021	4
PP11-JMT123	Soil			0.2	15.9	3.5	26	<0.1	21.9	6.7	141	1.58	<0.5	72.9	1.7	39	<0.1	0.1	<0.1	45	0.30	0.034	7
PP11-JMT124	Soil			0.3	31.1	4.4	39	<0.1	93.2	13.8	213	2.70	0.7	6.1	1.8	69	<0.1	0.1	<0.1	59	0.40	0.031	8
PP11-JMT125	Soil			0.2	20.9	4.1	35	<0.1	53.3	8.5	206	1.99	0.5	1.9	1.3	44	<0.1	<0.1	<0.1	50	0.31	0.023	6
PP11-JMT126	Soil			0.3	42.7	4.7	42	<0.1	134.1	17.6	240	3.29	1.1	1.4	2.0	76	<0.1	0.1	<0.1	67	0.48	0.033	5
PP11-JMT127	Soil			0.5	17.3	6.2	65	<0.1	49.0	9.3	137	2.33	0.8	0.7	1.3	23	<0.1	<0.1	<0.1	53	0.16	0.066	2
PP11-JMT128	Soil			0.1	14.7	4.4	26	<0.1	26.2	3.8	146	1.38	<0.5	1.0	1.0	42	<0.1	<0.1	<0.1	31	0.27	0.011	4
PP11-JMT129	Soil			0.1	10.5	3.9	25	<0.1	22.2	4.0	88	1.21	<0.5	<0.5	0.6	26	<0.1	<0.1	<0.1	25	0.18	0.012	2
PP11-JMT130	Soil			0.2	14.9	2.2	26	<0.1	19.5	5.6	148	1.49	1.6	3.5	0.8	21	<0.1	0.1	<0.1	44	0.25	0.029	4
PP11-JMT131	Soil			0.2	17.5	6.2	36	<0.1	15.1	8.7	294	2.18	0.9	<0.5	3.0	74	<0.1	<0.1	0.1	66	0.29	0.020	11
PP11-JMT132	Soil			0.3	10.3	5.7	61	<0.1	13.5	5.0	308	1.35	1.0	<0.5	1.5	38	<0.1	<0.1	0.2	29	0.17	0.153	6
PP11-JMT133	Soil			0.1	15.5	6.2	36	<0.1	19.5	6.2	187	1.74	0.7	1.0	1.5	72	<0.1	<0.1	0.1	41	0.25	0.024	9
PP11-JMT134	Soil			0.2	18.8	5.3	61	<0.1	14.2	12.1	258	3.15	1.5	<0.5	3.1	48	<0.1	<0.1	<0.1	83	0.28	0.146	5
PP11-JMT135	Soil			0.4	27.5	6.7	63	<0.1	24.8	14.4	270	3.87	2.5	0.5	4.4	38	<0.1	<0.1	0.1	92	0.23	0.255	8
PP11-JMT136	Soil			<0.1	17.9	6.3	32	<0.1	13.8	5.5	231	1.64	0.9	<0.5	2.0	74	<0.1	<0.1	0.1	45	0.35	0.034	16
PP11-JMT137	Soil			0.1	16.2	6.5	31	0.1	12.9	5.8	289	1.62	0.8	<0.5	1.9	58	<0.1	<0.1	0.1	41	0.28	0.019	13
PP11-JMT138	Soil			0.2	24.6	6.5	46	0.1	18.3	7.6	415	2.17	1.4	4.5	2.5	72	0.1	<0.1	0.1	56	0.40	0.040	16
PP11-JMT139	Soil			0.6	14.8	5.6	70	0.1	16.7	7.0	405	1.83	1.5	0.7	1.8	30	0.1	<0.1	0.1	43	0.24	0.163	6
PP11-JMT140	Soil			0.5	19.2	5.5	77	0.2	14.1	8.5	368	2.44	1.7	0.7	2.5	25	<0.1	<0.1	0.2	62	0.24	0.122	6
PP11-JMT141	Soil			0.4	20.1	4.0	56	<0.1	13.7	10.4	290	3.35	1.6	<0.5	2.3	45	<0.1	0.2	0.2	94	0.37	0.059	6
PP11-JMT142	Soil			0.2	17.8	3.9	59	<0.1	9.5	9.7	312	3.53	1.1	0.6	2.6	40	<0.1	0.2	0.2	107	0.35	0.032	5
PP11-JMT143	Soil			0.4	34.2	3.3	60	<0.1	8.7	12.3	356	4.47	2.2	1.6	3.2	152	<0.1	0.4	0.2	136	0.73	0.066	13
PP11-JMT144	Soil			0.4	20.4	3.7	78	0.1	9.9	12.2	335	3.73	1.4	0.7	2.6	33	<0.1	0.2	0.2	107	0.35	0.083	4
PP11-JMT145	Soil			0.2	15.2	5.0	62	0.1	11.5	8.1	212	2.77	1.2	2.8	2.3	34	<0.1	0.1	0.3	71	0.28	0.048	4
PP11-JMT146	Soil			0.2	12.9	4.6	52	<0.1	11.0	7.9	208	2.61	1.0	<0.5	1.8	43	<0.1	<0.1	0.1	71	0.30	0.085	4
PP11-JMT147	Soil			0.4	12.2	4.2	55	<0.1	11.4	6.9	303	2.40	0.5	<0.5	1.6	49	<0.1	<0.1	<0.1	68	0.26	0.036	4

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Project: Princeton
 Report Date: December 01, 2011

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CERTIFICATE OF ANALYSIS

VAN11005008.1

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	
PP11-JMT118	Soil			48	0.48	72	0.094	<1	1.17	0.057	0.05	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
PP11-JMT119	Soil			35	0.46	95	0.084	<1	1.55	0.049	0.05	<0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
PP11-JMT120	Soil			37	0.40	131	0.091	<1	2.40	0.034	0.07	<0.1	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT121	Soil			31	0.29	67	0.080	<1	1.46	0.036	0.04	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
PP11-JMT122	Soil			58	0.54	93	0.092	<1	1.95	0.046	0.06	<0.1	0.01	3.6	<0.1	<0.05	5	<0.5	<0.2
PP11-JMT123	Soil			41	0.45	81	0.102	<1	1.38	0.030	0.08	<0.1	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
PP11-JMT124	Soil			80	1.35	130	0.091	<1	2.93	0.034	0.07	<0.1	0.01	6.8	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT125	Soil			58	0.83	111	0.091	<1	2.09	0.032	0.05	<0.1	0.01	4.0	<0.1	<0.05	5	<0.5	<0.2
PP11-JMT126	Soil			94	1.89	89	0.089	<1	3.45	0.041	0.06	<0.1	0.02	7.5	<0.1	<0.05	8	<0.5	<0.2
PP11-JMT127	Soil			35	0.31	92	0.122	<1	3.43	0.022	0.06	<0.1	0.02	2.8	<0.1	<0.05	9	<0.5	<0.2
PP11-JMT128	Soil			32	0.32	95	0.089	<1	1.92	0.049	0.04	<0.1	<0.01	3.2	<0.1	<0.05	5	<0.5	<0.2
PP11-JMT129	Soil			25	0.31	67	0.072	<1	1.58	0.042	0.03	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PP11-JMT130	Soil			42	0.47	75	0.078	<1	1.14	0.033	0.04	<0.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
PP11-JMT131	Soil			34	0.53	109	0.168	1	1.62	0.040	0.16	<0.1	0.02	8.6	0.2	<0.05	5	<0.5	<0.2
PP11-JMT132	Soil			12	0.15	113	0.111	1	2.11	0.022	0.08	<0.1	0.04	2.1	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT133	Soil			33	0.41	102	0.120	<1	1.90	0.035	0.10	<0.1	0.02	3.8	0.1	<0.05	6	<0.5	<0.2
PP11-JMT134	Soil			18	0.62	160	0.234	<1	2.65	0.020	0.28	0.1	0.02	2.8	0.2	<0.05	9	<0.5	<0.2
PP11-JMT135	Soil			29	0.72	197	0.205	1	4.46	0.013	0.24	0.2	0.04	4.1	0.2	<0.05	11	<0.5	<0.2
PP11-JMT136	Soil			30	0.35	113	0.120	1	1.60	0.038	0.08	<0.1	0.01	4.6	<0.1	<0.05	5	<0.5	<0.2
PP11-JMT137	Soil			27	0.32	123	0.126	<1	1.63	0.041	0.10	<0.1	0.01	3.6	0.1	<0.05	5	<0.5	<0.2
PP11-JMT138	Soil			33	0.54	147	0.145	<1	1.86	0.037	0.18	<0.1	0.03	6.7	0.2	<0.05	6	<0.5	<0.2
PP11-JMT139	Soil			15	0.25	141	0.121	2	2.08	0.019	0.09	0.2	0.04	2.2	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT140	Soil			13	0.40	181	0.177	1	2.46	0.024	0.15	0.2	0.03	2.5	0.1	<0.05	8	<0.5	<0.2
PP11-JMT141	Soil			22	0.68	142	0.186	<1	2.14	0.018	0.23	<0.1	0.02	3.8	0.1	<0.05	7	<0.5	<0.2
PP11-JMT142	Soil			18	0.65	134	0.227	<1	2.07	0.015	0.32	0.1	<0.01	3.5	0.2	<0.05	7	<0.5	<0.2
PP11-JMT143	Soil			15	1.06	204	0.188	<1	2.93	0.014	0.28	0.1	0.02	9.8	0.2	<0.05	10	<0.5	<0.2
PP11-JMT144	Soil			15	0.70	160	0.190	<1	2.54	0.014	0.24	0.1	0.01	3.2	0.1	<0.05	9	<0.5	<0.2
PP11-JMT145	Soil			15	0.45	130	0.161	<1	2.41	0.020	0.16	<0.1	<0.01	2.9	<0.1	<0.05	8	<0.5	<0.2
PP11-JMT146	Soil			16	0.44	142	0.150	1	2.51	0.021	0.15	<0.1	0.01	2.7	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT147	Soil			17	0.34	117	0.120	<1	2.34	0.028	0.08	<0.1	0.01	2.8	<0.1	<0.05	7	<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	
		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	
PP11-JMT148	Soil	0.3	16.4	4.9	85	0.2	12.8	7.6	354	2.25	1.4	1.5	1.8	28	<0.1	0.1	0.3	58	0.23	0.158	4
PP11-JMT149	Soil	0.3	9.4	4.5	101	<0.1	12.9	6.5	261	1.91	1.0	1.4	1.2	22	<0.1	<0.1	0.1	51	0.16	0.102	3
PP11-JMT150	Soil	0.4	13.6	5.3	63	<0.1	17.4	6.3	184	1.93	1.3	<0.5	1.4	41	<0.1	<0.1	0.1	47	0.25	0.156	4
PMS-82	Soil Pulp	16.2	63.3	17.3	17	0.1	16.6	2.7	110	3.67	460.9	220.0	0.8	30	0.3	27.2	0.1	10	1.00	0.005	2



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CERTIFICATE OF ANALYSIS

VAN11005008.1

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	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	
PP11-JMT148	Soil	13	0.33	169	0.134	1	2.39	0.021	0.13	0.1	0.01	2.9	<0.1	<0.05	8	<0.5	0.2
PP11-JMT149	Soil	12	0.21	117	0.120	1	1.91	0.024	0.08	<0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT150	Soil	21	0.30	168	0.114	2	2.27	0.023	0.10	<0.1	0.02	2.5	<0.1	<0.05	7	<0.5	<0.2
PMS-82	Soil Pulp	23	0.02	1091	0.010	<1	0.17	0.007	0.07	2.7	2.95	0.8	10.9	0.09	<1	1.7	<0.2



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QUALITY CONTROL REPORT

VAN11005008.1

Method	Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
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	0.1	0.1	0.5	0.5	0.1	1	0.1	0.1	0.1	0.1	0.01	0.001	
Pulp Duplicates																						
PP11-DH07	Soil		0.4	7.7	5.8	45	<0.1	13.7	5.4	154	1.71	1.9	0.7	1.6	18	<0.1	<0.1	0.1	45	0.10	0.110	3
REP PP11-DH07	QC		0.5	7.4	5.7	43	<0.1	13.7	5.3	152	1.74	1.6	2.2	1.5	18	<0.1	<0.1	0.2	46	0.10	0.107	3
PP11-DH30	Soil		0.7	14.8	7.4	57	<0.1	29.6	7.9	376	1.90	1.3	<0.5	1.8	30	<0.1	<0.1	0.1	41	0.12	0.084	4
REP PP11-DH30	QC		0.5	15.1	7.1	58	<0.1	30.5	7.8	377	1.90	1.2	0.9	1.8	29	<0.1	<0.1	0.1	41	0.11	0.081	4
PP11-DH50	Soil		0.8	12.3	7.3	53	<0.1	27.2	5.7	175	1.57	1.5	4.1	1.1	19	<0.1	0.1	<0.1	37	0.14	0.090	2
REP PP11-DH50	QC		0.8	12.0	7.3	53	<0.1	26.9	5.7	177	1.58	1.5	1.7	1.1	20	<0.1	0.1	<0.1	37	0.15	0.089	3
PP11-DH71	Soil		0.4	13.8	6.9	49	<0.1	16.5	6.4	171	1.84	1.4	2.0	1.4	57	<0.1	<0.1	0.1	42	0.33	0.154	5
REP PP11-DH71	QC		0.3	13.5	6.6	49	<0.1	17.0	6.2	165	1.83	1.4	0.9	1.5	55	<0.1	<0.1	0.1	42	0.32	0.136	5
PP11-DH85	Soil		0.3	7.6	5.5	55	<0.1	13.0	3.8	157	1.04	0.8	<0.5	1.5	16	<0.1	<0.1	0.1	27	0.10	0.091	3
REP PP11-DH85	QC		0.2	7.0	5.6	54	<0.1	12.2	4.0	155	1.02	<0.5	<0.5	1.6	17	<0.1	<0.1	<0.1	28	0.09	0.088	3
PP11-DH106	Soil		0.2	21.6	5.7	44	<0.1	25.8	7.0	202	1.99	0.6	<0.5	1.9	43	<0.1	<0.1	<0.1	51	0.27	0.022	7
REP PP11-DH106	QC		0.2	22.6	5.7	43	<0.1	25.9	6.9	206	2.01	0.6	1.0	1.9	43	<0.1	<0.1	<0.1	52	0.26	0.021	7
PP11-JMT002	Soil		0.2	15.4	7.7	41	<0.1	13.2	5.6	118	1.53	1.5	<0.5	2.1	39	<0.1	<0.1	0.1	36	0.16	0.088	7
REP PP11-JMT002	QC		0.3	16.0	8.0	41	<0.1	13.8	6.1	123	1.63	1.6	<0.5	2.1	40	<0.1	<0.1	0.1	38	0.17	0.088	7
PP11-JMT007	Soil		0.2	16.1	4.6	40	<0.1	21.1	7.9	155	1.94	0.8	0.8	2.3	40	<0.1	<0.1	0.1	53	0.19	0.056	7
REP PP11-JMT007	QC		0.2	16.2	4.6	41	<0.1	20.8	7.9	158	1.97	1.2	0.9	2.4	40	<0.1	<0.1	<0.1	53	0.19	0.058	8
PP11-JMT036	Soil		0.3	13.6	5.6	47	<0.1	37.0	8.7	196	1.96	<0.5	<0.5	1.2	71	<0.1	<0.1	<0.1	40	0.22	0.054	3
REP PP11-JMT036	QC		0.3	13.3	5.6	46	<0.1	36.9	8.8	194	1.93	<0.5	<0.5	1.2	72	<0.1	<0.1	0.1	38	0.21	0.056	3
PP11-JMT057	Soil		0.2	39.8	5.0	53	<0.1	163.2	24.0	802	2.93	0.9	<0.5	2.1	68	<0.1	<0.1	<0.1	56	0.50	0.044	5
REP PP11-JMT057	QC		0.2	40.9	5.0	56	<0.1	161.3	23.6	760	2.85	1.0	<0.5	2.1	67	<0.1	<0.1	<0.1	55	0.50	0.043	5
PP11-JMT060	Soil		0.6	22.2	7.2	53	<0.1	53.1	9.6	130	2.07	2.4	0.7	1.9	15	<0.1	<0.1	0.1	45	0.12	0.108	4
REP PP11-JMT060	QC		0.7	21.9	7.4	52	<0.1	53.4	9.7	130	2.09	2.3	<0.5	1.9	15	<0.1	<0.1	0.1	44	0.12	0.109	4
PP11-JMT085	Soil		0.5	21.5	4.6	36	<0.1	20.4	7.1	170	2.34	1.4	0.5	3.6	53	<0.1	0.2	<0.1	71	0.34	0.031	14
REP PP11-JMT085	QC		0.4	21.5	4.8	37	<0.1	19.7	7.1	173	2.34	1.4	0.7	3.5	54	<0.1	0.2	<0.1	71	0.34	0.032	13
PMS-102	Soil Pulp		16.0	61.4	17.0	17	0.1	14.8	2.3	104	3.48	431.2	186.8	0.8	37	0.3	29.2	0.1	9	0.94	0.005	2
REP PMS-102	QC		15.9	62.0	17.4	17	0.1	16.1	2.4	106	3.51	433.2	204.7	0.8	39	0.3	30.7	0.2	9	0.93	0.005	2
PP11-JMT121	Soil		0.2	10.5	3.0	30	<0.1	15.5	3.7	110	1.33	<0.5	2.4	0.7	30	<0.1	<0.1	<0.1	34	0.22	0.014	3
REP PP11-JMT121	QC		0.1	10.5	3.1	30	<0.1	15.5	3.7	109	1.32	<0.5	0.5	0.6	30	<0.1	<0.1	<0.1	35	0.22	0.014	3



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Project: Princeton

Report Date: December 01, 2011

Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

VAN11005008.1

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																	
PP11-DH07	Soil	13	0.15	70	0.117	1	1.72	0.015	0.04	0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
REP PP11-DH07	QC	13	0.15	69	0.114	1	1.70	0.017	0.04	0.1	0.02	1.1	<0.1	<0.05	6	<0.5	<0.2
PP11-DH30	Soil	25	0.25	133	0.099	<1	3.12	0.019	0.05	<0.1	0.03	2.3	<0.1	<0.05	8	<0.5	<0.2
REP PP11-DH30	QC	26	0.25	133	0.100	1	3.03	0.020	0.05	<0.1	0.03	2.2	<0.1	<0.05	8	<0.5	<0.2
PP11-DH50	Soil	19	0.19	94	0.106	2	2.34	0.020	0.05	<0.1	0.04	1.3	<0.1	<0.05	8	<0.5	<0.2
REP PP11-DH50	QC	19	0.19	100	0.106	<1	2.35	0.020	0.05	0.1	0.05	1.3	<0.1	<0.05	7	<0.5	<0.2
PP11-DH71	Soil	17	0.27	183	0.095	<1	2.02	0.021	0.14	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
REP PP11-DH71	QC	17	0.26	175	0.096	<1	1.88	0.017	0.14	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
PP11-DH85	Soil	11	0.11	99	0.093	<1	1.67	0.029	0.04	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
REP PP11-DH85	QC	11	0.11	98	0.093	<1	1.67	0.028	0.04	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
PP11-DH106	Soil	37	0.44	100	0.112	<1	2.32	0.033	0.06	<0.1	0.03	6.2	<0.1	<0.05	6	<0.5	<0.2
REP PP11-DH106	QC	36	0.42	99	0.112	<1	2.29	0.033	0.06	<0.1	0.02	6.2	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT002	Soil	10	0.17	167	0.132	<1	2.59	0.020	0.05	<0.1	0.02	1.8	0.1	<0.05	7	<0.5	<0.2
REP PP11-JMT002	QC	12	0.18	171	0.143	<1	2.69	0.027	0.05	<0.1	0.02	1.9	0.1	<0.05	7	<0.5	<0.2
PP11-JMT007	Soil	24	0.37	181	0.113	<1	2.02	0.014	0.11	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
REP PP11-JMT007	QC	25	0.38	188	0.119	1	2.09	0.015	0.11	<0.1	<0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PP11-JMT036	Soil	33	0.39	144	0.097	<1	2.72	0.027	0.05	<0.1	0.02	2.4	<0.1	<0.05	7	<0.5	<0.2
REP PP11-JMT036	QC	31	0.39	138	0.093	1	2.67	0.026	0.05	<0.1	0.01	2.3	<0.1	<0.05	7	<0.5	<0.2
PP11-JMT057	Soil	120	1.98	141	0.078	2	2.87	0.041	0.09	<0.1	0.03	9.4	<0.1	<0.05	6	<0.5	<0.2
REP PP11-JMT057	QC	117	1.93	137	0.076	2	2.82	0.039	0.08	<0.1	0.03	9.1	<0.1	<0.05	6	<0.5	<0.2
PP11-JMT060	Soil	33	0.30	136	0.125	1	3.81	0.015	0.08	<0.1	0.02	2.5	<0.1	<0.05	9	<0.5	<0.2
REP PP11-JMT060	QC	34	0.30	135	0.129	1	3.82	0.016	0.08	<0.1	0.02	2.7	<0.1	<0.05	9	<0.5	<0.2
PP11-JMT085	Soil	37	0.40	86	0.146	<1	1.26	0.035	0.10	<0.1	0.01	4.9	0.2	<0.05	4	<0.5	<0.2
REP PP11-JMT085	QC	37	0.40	84	0.145	<1	1.28	0.044	0.10	<0.1	0.01	5.0	0.2	<0.05	4	<0.5	<0.2
PMS-102	Soil Pulp	21	0.02	2791	0.011	<1	0.18	0.006	0.06	3.1	2.70	0.8	9.8	0.15	<1	1.1	<0.2
REP PMS-102	QC	22	0.02	2956	0.014	<1	0.18	0.006	0.06	3.3	2.84	0.7	10.0	0.15	<1	1.8	<0.2
PP11-JMT121	Soil	31	0.29	67	0.080	<1	1.46	0.036	0.04	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
REP PP11-JMT121	QC	31	0.29	69	0.080	<1	1.47	0.037	0.05	<0.1	0.01	2.2	<0.1	<0.05	4	<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: December 01, 2011

Page: 2 of 2 Part 1

QUALITY CONTROL REPORT

VAN11005008.1

Table with columns for elements (Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, Au, Th, Sr, Cd, Sb, Bi, V, Ca, P, La) and rows for samples (PP11-JMT144, REP PP11-JMT144, Reference Materials, STD DS8, BLK) and their respective concentrations in various units (ppm, ppb, %).



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Project: Princeton
 Report Date: December 01, 2011

Page: 2 of 2 Part 2

QUALITY CONTROL REPORT

VAN11005008.1

		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
PP11-JMT144	Soil	15	0.70	160	0.190	<1	2.54	0.014	0.24	0.1	0.01	3.2	0.1	<0.05	9	<0.5	<0.2
REP PP11-JMT144	QC	15	0.70	154	0.190	<1	2.54	0.019	0.25	0.1	0.01	3.2	<0.1	<0.05	9	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	120	0.62	283	0.121	3	0.97	0.100	0.43	3.1	0.20	2.9	5.4	0.15	5	5.7	5.0
STD DS8	Standard	117	0.58	270	0.119	2	0.89	0.093	0.41	2.9	0.18	2.0	5.2	0.17	4	5.0	4.8
STD DS8	Standard	121	0.60	268	0.119	3	0.95	0.108	0.44	2.6	0.20	2.6	5.3	0.16	5	5.5	5.1
STD DS8	Standard	117	0.60	285	0.113	2	1.02	0.109	0.48	2.8	0.20	3.0	5.3	0.14	5	5.8	4.5
STD DS8	Standard	112	0.60	296	0.111	2	0.93	0.108	0.43	3.0	0.21	2.9	5.5	0.12	5	4.7	5.2
STD DS8	Standard	110	0.60	253	0.114	3	0.88	0.077	0.37	2.8	0.19	2.1	5.2	0.19	4	4.7	4.6
STD DS8	Standard	110	0.57	273	0.120	2	0.94	0.113	0.41	2.9	0.18	2.7	5.0	0.11	5	4.6	5.1
STD DS8	Standard	115	0.60	269	0.127	2	0.88	0.090	0.41	2.8	0.17	2.1	5.2	0.17	5	4.8	4.6
STD DS8	Standard	121	0.62	286	0.132	2	0.99	0.115	0.43	2.9	0.20	2.4	5.5	0.15	5	4.6	5.0
STD DS8	Standard	114	0.60	263	0.105	4	0.88	0.083	0.40	2.9	0.20	1.8	5.3	0.16	4	5.0	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
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 03, 2011
Report Date: October 23, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS

VAN11005203.1

CLIENT JOB INFORMATION

Project: Princeton
Shipment ID:
P.O. Number
Number of Samples: 274

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	271	Dry at 60C			VAN
SS80	266	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	271	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: October 23, 2011

Page: 2 of 11 Part 1

CERTIFICATE OF ANALYSIS

VAN11005203.1

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	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
PP11 DH121	Soil			0.3	12.1	5.5	43	<0.1	29.3	6.2	135	1.62	1.1	3.7	0.9	30	<0.1	<0.1	0.2	35	0.18	0.117	4	
PP11 DH122	Soil			0.5	20.3	5.5	41	<0.1	42.2	8.2	117	1.90	1.5	1.3	1.3	22	<0.1	<0.1	0.2	47	0.15	0.105	5	
PP11 DH123	Soil			0.3	20.4	4.8	33	<0.1	40.0	11.3	172	2.13	0.7	6.4	1.8	40	<0.1	0.1	0.2	60	0.26	0.030	6	
PP11 DH124	Soil			0.2	12.4	5.4	38	<0.1	29.0	5.6	336	1.49	<0.5	1.2	1.0	29	<0.1	<0.1	0.1	39	0.17	0.027	6	
PP11 DH125	Soil			0.4	14.3	5.2	46	<0.1	39.7	7.5	135	1.81	1.4	0.9	1.1	19	<0.1	<0.1	0.1	41	0.13	0.133	3	
PP11 DH126	Soil			0.4	12.9	5.7	50	<0.1	38.5	8.1	293	1.91	1.2	<0.5	0.9	20	<0.1	<0.1	0.1	41	0.16	0.084	2	
PP11 DH127	Soil			0.2	12.4	4.6	30	<0.1	27.1	5.6	69	1.41	1.2	<0.5	0.6	17	<0.1	<0.1	0.1	32	0.12	0.062	2	
PP11 DH128	Soil			0.3	10.2	4.0	32	<0.1	19.5	4.8	70	1.36	1.4	<0.5	0.7	9	<0.1	<0.1	0.1	33	0.08	0.097	2	
PP11 DH129	Soil			0.1	9.2	4.0	20	<0.1	15.8	3.9	139	1.09	0.7	3.7	0.7	28	<0.1	<0.1	0.2	29	0.22	0.013	4	
PP11 DH130	Soil			0.4	15.4	5.5	41	<0.1	22.1	8.4	189	2.06	0.9	<0.5	1.2	30	<0.1	<0.1	0.2	49	0.14	0.111	4	
PP11 DH131	Soil			0.3	16.3	5.5	32	<0.1	19.1	5.2	105	1.49	1.0	0.7	0.4	57	<0.1	<0.1	0.1	40	0.28	0.102	15	
PP11 DH132	Soil			0.1	15.5	6.4	31	<0.1	18.5	4.4	445	1.38	<0.5	<0.5	0.9	76	<0.1	<0.1	0.1	36	0.39	0.026	15	
PP11 DH133	Soil			0.4	11.5	4.7	54	<0.1	13.6	9.9	196	2.62	1.1	<0.5	2.4	22	<0.1	<0.1	0.1	71	0.16	0.109	4	
PP11 DH134	Soil			0.3	13.1	5.7	43	<0.1	13.2	6.9	195	2.03	1.3	2.5	2.4	31	<0.1	<0.1	0.1	49	0.20	0.172	4	
PP11 DH135	Soil			0.1	11.2	5.6	32	<0.1	11.3	6.1	239	1.84	0.6	<0.5	1.8	43	<0.1	<0.1	0.1	55	0.27	0.019	6	
PP11 DH136	Soil			0.2	18.8	6.0	32	<0.1	18.1	6.6	232	1.86	0.7	3.9	1.9	109	<0.1	0.1	0.1	52	0.56	0.032	20	
PP11 DH137	Soil			0.1	27.9	5.6	36	0.2	16.1	5.7	290	1.90	0.6	2.7	2.0	64	<0.1	<0.1	0.1	49	0.37	0.025	15	
PP11 DH138	Soil			0.2	16.5	4.5	39	0.2	10.1	8.5	328	2.03	0.7	1.4	2.2	38	<0.1	<0.1	0.1	56	0.33	0.038	8	
PP11 DH139	Soil			0.3	15.9	4.5	67	<0.1	13.3	10.0	398	2.69	1.1	<0.5	2.2	22	<0.1	<0.1	0.1	70	0.19	0.120	4	
PP11 DH140	Soil			0.4	16.3	5.0	72	<0.1	10.2	11.8	441	3.02	1.0	1.0	1.8	32	<0.1	0.1	0.3	92	0.30	0.046	4	
PP11 DH141	Soil			0.4	15.9	4.2	64	<0.1	9.3	12.1	500	3.30	0.9	<0.5	1.3	28	<0.1	<0.1	0.3	108	0.28	0.046	3	
PP11 DH142	Soil			0.4	17.0	4.1	61	0.2	11.7	10.6	300	3.23	0.9	10.5	1.5	38	<0.1	0.1	1.0	106	0.32	0.068	4	
PP11 DH143	Soil			0.4	17.0	3.8	57	0.2	7.8	11.2	309	2.89	0.9	<0.5	2.2	27	<0.1	<0.1	0.2	83	0.32	0.101	4	
PP11 DH144	Soil			0.3	9.7	3.8	52	0.2	8.9	7.5	182	2.30	<0.5	<0.5	0.9	24	<0.1	<0.1	0.2	66	0.20	0.055	3	
PP11 DH145	Soil			0.4	8.6	4.4	60	<0.1	11.7	6.0	199	1.75	0.6	<0.5	0.9	24	<0.1	<0.1	0.2	45	0.21	0.157	3	
PP11 DH146	Soil			0.4	11.2	4.7	78	<0.1	11.4	7.1	253	2.08	0.9	<0.5	1.3	21	<0.1	<0.1	0.1	52	0.19	0.161	3	
PP11 DH147	Soil			0.4	9.3	4.1	70	<0.1	9.0	7.7	360	2.32	0.7	<0.5	0.8	33	<0.1	<0.1	0.2	74	0.27	0.055	2	
PP11 DH148	Soil			0.3	9.1	4.5	70	<0.1	14.2	6.7	302	1.77	<0.5	<0.5	0.7	20	<0.1	<0.1	0.1	53	0.16	0.105	2	
PP11 DH149	Soil			0.2	32.1	3.2	62	<0.1	9.1	17.2	888	4.32	2.9	<0.5	1.7	72	0.2	0.3	0.2	122	0.99	0.201	11	
PP11 DH150	Soil			0.2	70.9	3.3	65	<0.1	42.2	21.3	713	5.11	<0.5	7.5	2.4	286	<0.1	0.2	<0.1	169	1.52	0.368	17	

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Project: Princeton
Report Date: October 23, 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
	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		
PP11 DH121	Soil	30	0.25	127	0.074	2	2.32	0.020	0.05	0.1	0.02	1.5	<0.1	<0.05	7	<0.5	<0.2
PP11 DH122	Soil	37	0.34	152	0.089	2	2.74	0.023	0.06	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
PP11 DH123	Soil	54	0.61	99	0.097	2	1.77	0.024	0.08	0.1	0.01	3.6	<0.1	<0.05	5	<0.5	<0.2
PP11 DH124	Soil	27	0.32	93	0.081	2	1.70	0.020	0.06	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
PP11 DH125	Soil	28	0.25	96	0.081	2	2.69	0.020	0.05	0.1	0.03	1.7	<0.1	<0.05	8	<0.5	<0.2
PP11 DH126	Soil	28	0.24	101	0.077	2	2.70	0.019	0.05	<0.1	0.02	1.9	<0.1	<0.05	8	<0.5	<0.2
PP11 DH127	Soil	24	0.19	90	0.067	2	1.85	0.017	0.04	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
PP11 DH128	Soil	21	0.17	58	0.069	2	1.68	0.018	0.03	<0.1	0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
PP11 DH129	Soil	24	0.24	70	0.067	2	1.10	0.030	0.04	<0.1	0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
PP11 DH130	Soil	24	0.32	136	0.105	2	2.78	0.021	0.05	<0.1	0.02	1.7	<0.1	<0.05	8	<0.5	<0.2
PP11 DH131	Soil	29	0.26	79	0.064	2	1.98	0.018	0.07	<0.1	0.03	2.4	<0.1	<0.05	7	<0.5	<0.2
PP11 DH132	Soil	27	0.35	101	0.087	2	1.57	0.024	0.09	<0.1	0.03	3.0	0.1	<0.05	5	<0.5	<0.2
PP11 DH133	Soil	14	0.41	107	0.212	2	2.28	0.020	0.17	0.1	0.03	1.9	0.2	<0.05	8	<0.5	<0.2
PP11 DH134	Soil	13	0.25	158	0.159	2	2.63	0.022	0.10	0.1	0.02	1.8	0.1	<0.05	8	<0.5	<0.2
PP11 DH135	Soil	23	0.43	82	0.169	1	1.57	0.035	0.15	<0.1	<0.01	2.8	0.2	<0.05	5	<0.5	<0.2
PP11 DH136	Soil	38	0.45	137	0.122	2	1.71	0.026	0.13	<0.1	0.04	4.5	0.1	<0.05	5	<0.5	<0.2
PP11 DH137	Soil	28	0.48	131	0.128	2	1.71	0.032	0.17	<0.1	0.02	4.0	0.2	<0.05	5	<0.5	<0.2
PP11 DH138	Soil	15	0.47	198	0.157	2	1.54	0.027	0.18	0.1	0.05	2.4	0.1	<0.05	5	<0.5	<0.2
PP11 DH139	Soil	15	0.51	176	0.177	2	2.35	0.017	0.19	0.2	0.02	1.8	0.1	<0.05	8	<0.5	<0.2
PP11 DH140	Soil	14	0.63	207	0.225	2	2.77	0.018	0.17	0.2	0.01	2.1	0.1	<0.05	8	<0.5	<0.2
PP11 DH141	Soil	15	0.69	180	0.244	1	2.42	0.020	0.22	0.2	0.02	2.4	0.2	<0.05	8	<0.5	<0.2
PP11 DH142	Soil	17	0.53	168	0.174	1	2.38	0.025	0.19	0.7	0.02	2.8	0.1	<0.05	7	<0.5	0.4
PP11 DH143	Soil	11	0.58	155	0.173	2	2.01	0.018	0.25	0.3	0.02	2.3	0.1	<0.05	7	<0.5	<0.2
PP11 DH144	Soil	13	0.34	86	0.118	1	1.98	0.020	0.10	0.2	<0.01	1.9	<0.1	<0.05	7	<0.5	<0.2
PP11 DH145	Soil	13	0.24	110	0.094	2	2.02	0.022	0.13	0.1	0.02	1.7	<0.1	<0.05	7	<0.5	<0.2
PP11 DH146	Soil	13	0.28	114	0.103	2	2.47	0.020	0.10	<0.1	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
PP11 DH147	Soil	14	0.40	97	0.121	2	2.16	0.019	0.11	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
PP11 DH148	Soil	16	0.25	91	0.093	2	2.09	0.020	0.08	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
PP11 DH149	Soil	16	1.27	103	0.051	2	2.48	0.018	0.17	<0.1	0.02	5.9	0.4	<0.05	9	<0.5	<0.2
PP11 DH150	Soil	98	1.97	102	0.039	1	2.43	0.037	0.11	<0.1	0.01	22.3	<0.1	<0.05	9	<0.5	<0.2

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Project: Princeton
 Report Date: October 23, 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
PMS-113	Rock Pulp	124.6	3803	23.0	66	2.6	37.5	21.0	414	4.38	50.0	531.8	2.0	26	0.4	3.3	0.4	135	0.34	0.089	12
PP11 DH151	Soil	0.3	19.4	4.1	48	<0.1	22.9	8.0	208	2.22	<0.5	1.6	1.4	55	<0.1	<0.1	<0.1	71	0.24	0.024	6
PP11 DH152	Soil	0.4	11.5	4.2	30	<0.1	11.9	6.0	266	1.62	<0.5	1.0	0.9	35	<0.1	<0.1	<0.1	51	0.21	0.016	6
PP11 DH153	Soil	0.5	24.3	3.3	42	<0.1	37.4	11.0	322	2.50	1.0	1.7	2.4	88	<0.1	0.1	<0.1	81	0.42	0.052	10
PP11 DH154	Soil	0.3	8.2	3.3	39	<0.1	10.2	5.6	340	1.53	<0.5	0.7	0.7	28	<0.1	<0.1	<0.1	47	0.16	0.021	3
PP11 DH155	Soil	0.3	10.6	3.1	42	<0.1	19.6	7.6	180	1.90	<0.5	<0.5	0.9	41	<0.1	<0.1	<0.1	63	0.24	0.029	3
PP11 DH156	Soil	0.3	11.7	4.4	27	<0.1	16.8	7.4	202	1.63	<0.5	1.6	1.0	47	<0.1	<0.1	0.2	49	0.24	0.016	7
PP11 DH157	Soil	0.3	20.2	5.3	40	<0.1	22.7	8.8	443	2.03	0.8	1.9	1.9	54	<0.1	<0.1	0.2	49	0.33	0.028	15
PP11 DH158	Soil	0.3	10.2	3.4	42	<0.1	17.5	6.9	318	1.97	<0.5	0.8	1.7	40	<0.1	<0.1	0.1	56	0.28	0.023	7
PP11 DH159	Soil	0.4	17.0	2.2	50	<0.1	18.1	8.1	281	2.33	<0.5	0.9	1.6	51	<0.1	<0.1	<0.1	64	0.36	0.037	13
PP11 DH160	Soil	0.4	12.1	5.2	50	<0.1	14.7	7.2	560	2.02	<0.5	<0.5	1.2	54	<0.1	<0.1	<0.1	62	0.32	0.034	8
PP11 DH161	Soil	0.1	3.6	2.3	43	<0.1	6.2	2.7	93	1.19	<0.5	1.1	0.5	20	<0.1	<0.1	<0.1	29	0.16	0.035	2
PP11 DH162	Soil	0.2	6.6	3.6	35	<0.1	11.4	2.9	106	1.20	<0.5	<0.5	0.7	23	<0.1	<0.1	<0.1	27	0.15	0.026	2
PP11 DH163	Soil	0.3	7.9	4.5	48	<0.1	12.6	4.2	224	1.38	<0.5	<0.5	0.7	27	<0.1	<0.1	<0.1	35	0.18	0.049	3
PP11 DH164	Soil	0.3	9.4	3.7	45	<0.1	12.2	5.1	200	1.56	<0.5	<0.5	0.8	30	<0.1	<0.1	<0.1	47	0.18	0.032	2
PP11 DH165	Soil	0.3	6.3	3.7	45	<0.1	9.9	4.0	338	1.36	<0.5	<0.5	0.6	23	<0.1	<0.1	<0.1	35	0.16	0.032	2
PP11 DH166	Soil	0.3	11.6	3.8	31	<0.1	14.7	6.2	141	1.69	<0.5	1.1	0.9	36	<0.1	<0.1	<0.1	56	0.21	0.022	3
PP11 DH167	Soil	0.2	13.6	3.9	36	<0.1	18.5	5.1	245	1.58	0.5	1.0	0.9	33	<0.1	<0.1	<0.1	42	0.21	0.018	5
PP11 DH168	Soil	0.6	53.8	5.9	62	<0.1	68.4	19.2	629	2.91	3.4	2.3	2.2	69	<0.1	0.2	<0.1	73	0.63	0.102	22
PP11 DH169	Soil	0.6	36.9	4.7	53	<0.1	40.7	11.5	394	3.10	1.4	5.8	2.4	63	<0.1	0.1	<0.1	76	0.53	0.078	15
PP11 DH170	Soil	0.2	11.8	3.9	34	<0.1	15.3	4.1	165	1.41	0.7	3.9	0.6	34	<0.1	<0.1	<0.1	35	0.21	0.018	5
PP11 DH171	Soil	0.4	13.7	4.8	53	<0.1	26.1	6.5	242	1.65	1.1	6.6	1.1	23	<0.1	0.1	<0.1	39	0.18	0.075	5
PP11 DH172	Soil	0.2	10.7	4.2	45	<0.1	15.8	4.4	264	1.26	0.8	1.4	0.6	22	<0.1	<0.1	0.2	34	0.16	0.020	4
PP11 DH173	Soil	0.3	10.4	5.2	44	<0.1	16.4	4.0	274	1.27	1.0	1.7	0.8	23	<0.1	<0.1	0.1	28	0.13	0.077	3
PP11 DH174	Soil	0.4	12.9	4.9	38	<0.1	20.9	6.1	163	1.68	1.7	7.3	0.9	22	<0.1	<0.1	<0.1	40	0.15	0.055	3
PP11 DH175	Soil	0.9	16.8	5.6	77	<0.1	30.7	6.7	280	1.88	3.0	1.7	1.6	24	<0.1	0.4	<0.1	48	0.18	0.112	5
PP11 DH176	Soil	1.4	25.1	6.0	94	<0.1	36.8	9.5	246	2.54	4.6	1.6	2.3	33	<0.1	1.0	<0.1	76	0.27	0.047	9
PP11 DH177	Soil	0.7	8.0	4.7	51	<0.1	18.4	5.3	600	1.51	1.0	6.0	0.8	16	<0.1	<0.1	<0.1	33	0.12	0.093	3
PP11 DH178	Soil	0.5	14.9	5.0	58	<0.1	27.0	7.4	240	1.78	1.3	1.8	1.0	19	<0.1	0.2	<0.1	42	0.15	0.098	4
PP11 DH179	Soil	0.3	13.3	4.2	34	<0.1	17.0	4.3	131	1.39	1.0	31.8	0.8	25	<0.1	0.1	<0.1	36	0.22	0.017	5

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Method	Analyte	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	
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	
PMS-113	Rock Pulp	53	0.95	46	0.108	2	1.42	0.044	0.98	4.3	0.07	9.6	0.6	2.29	6	6.7	0.8
PP11 DH151	Soil	33	0.45	101	0.100	1	1.90	0.027	0.07	<0.1	0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
PP11 DH152	Soil	21	0.29	50	0.083	1	1.20	0.029	0.09	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
PP11 DH153	Soil	42	0.79	79	0.095	<1	1.28	0.052	0.09	<0.1	0.02	5.6	<0.1	<0.05	4	<0.5	<0.2
PP11 DH154	Soil	19	0.22	52	0.082	1	1.13	0.026	0.05	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
PP11 DH155	Soil	46	0.37	65	0.101	1	1.15	0.033	0.08	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
PP11 DH156	Soil	37	0.28	56	0.080	<1	1.06	0.032	0.09	<0.1	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
PP11 DH157	Soil	53	0.57	57	0.086	1	1.74	0.027	0.07	<0.1	0.04	7.6	0.1	<0.05	5	<0.5	<0.2
PP11 DH158	Soil	45	0.44	116	0.062	<1	1.05	0.031	0.08	<0.1	0.02	4.2	<0.1	<0.05	3	<0.5	<0.2
PP11 DH159	Soil	46	0.79	48	0.071	1	1.17	0.046	0.07	<0.1	0.01	5.4	<0.1	<0.05	3	<0.5	<0.2
PP11 DH160	Soil	38	0.50	71	0.068	<1	1.06	0.039	0.09	<0.1	0.04	3.9	<0.1	<0.05	3	<0.5	<0.2
PP11 DH161	Soil	11	0.13	73	0.058	1	0.90	0.023	0.06	<0.1	<0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
PP11 DH162	Soil	15	0.17	104	0.068	<1	1.41	0.022	0.06	<0.1	0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
PP11 DH163	Soil	18	0.24	85	0.061	<1	1.29	0.021	0.08	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
PP11 DH164	Soil	18	0.26	90	0.070	<1	1.44	0.025	0.06	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PP11 DH165	Soil	14	0.18	81	0.064	<1	1.29	0.021	0.06	<0.1	0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
PP11 DH166	Soil	24	0.33	57	0.076	<1	1.22	0.031	0.06	<0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
PP11 DH167	Soil	23	0.32	74	0.075	<1	1.54	0.029	0.06	<0.1	0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
PP11 DH168	Soil	85	1.16	127	0.070	<1	1.72	0.033	0.09	<0.1	0.02	6.7	<0.1	<0.05	5	<0.5	<0.2
PP11 DH169	Soil	65	1.02	96	0.090	<1	1.97	0.035	0.09	<0.1	0.02	8.6	<0.1	<0.05	5	<0.5	<0.2
PP11 DH170	Soil	23	0.25	113	0.082	<1	1.51	0.029	0.05	<0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
PP11 DH171	Soil	27	0.27	156	0.087	<1	2.06	0.020	0.09	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11 DH172	Soil	20	0.22	94	0.073	<1	1.25	0.024	0.05	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
PP11 DH173	Soil	15	0.15	133	0.071	<1	1.74	0.022	0.04	<0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
PP11 DH174	Soil	27	0.27	107	0.082	<1	1.97	0.017	0.08	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
PP11 DH175	Soil	24	0.26	151	0.074	<1	2.04	0.017	0.08	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11 DH176	Soil	40	0.47	110	0.078	<1	1.83	0.012	0.13	<0.1	<0.01	3.3	0.1	<0.05	5	<0.5	<0.2
PP11 DH177	Soil	13	0.14	103	0.072	<1	1.75	0.018	0.05	0.1	0.03	1.2	<0.1	<0.05	6	<0.5	<0.2
PP11 DH178	Soil	27	0.26	133	0.071	<1	1.83	0.015	0.07	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11 DH179	Soil	23	0.24	87	0.069	<1	1.23	0.022	0.06	<0.1	0.01	2.1	<0.1	<0.05	4	<0.5	<0.2

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Project: Princeton
 Report Date: October 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11005203.1

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	0.1	2	0.01	0.001	
PP11 DH180	Soil		0.1	7.7	4.1	30	<0.1	9.3	3.0	82	1.03	0.6	1.0	0.4	17	<0.1	<0.1	<0.1	25	0.13	0.016	2
PP11 DH181	Soil		0.2	16.5	4.4	32	<0.1	16.7	4.4	361	1.46	1.1	1.8	0.7	35	<0.1	0.1	<0.1	39	0.26	0.019	8
PP11 DH182	Soil		0.7	9.7	5.7	51	0.1	20.8	5.8	131	1.59	1.2	48.5	0.9	18	<0.1	<0.1	<0.1	37	0.15	0.118	3
PP11 DH183	Soil		0.4	10.7	4.7	41	0.1	20.0	5.0	108	1.59	1.3	5.4	0.8	27	<0.1	<0.1	<0.1	39	0.18	0.144	4
PP11 DH184	Soil		0.4	10.4	3.8	40	<0.1	21.3	5.5	99	1.48	1.2	0.7	0.8	12	<0.1	<0.1	<0.1	35	0.12	0.085	3
PP11 DH185	Soil		0.4	10.9	4.1	37	<0.1	20.0	5.5	128	1.50	1.1	0.7	1.0	16	<0.1	<0.1	<0.1	34	0.13	0.098	4
PP11 DH186	Soil		0.3	17.9	5.7	52	0.1	26.7	5.3	181	1.67	1.3	1.2	1.3	22	<0.1	<0.1	<0.1	31	0.15	0.181	5
PP11 DH187	Soil		0.4	24.4	4.0	36	<0.1	39.0	7.9	162	1.85	1.5	<0.5	1.0	31	<0.1	<0.1	<0.1	45	0.21	0.064	6
PP11 DH188	Soil		0.4	15.9	6.0	39	<0.1	52.3	8.4	139	2.06	0.6	<0.5	0.9	32	<0.1	<0.1	<0.1	38	0.18	0.066	3
PP11 DH189	Soil		0.2	6.0	4.6	29	<0.1	12.5	2.4	224	0.78	<0.5	1.3	0.3	15	<0.1	<0.1	<0.1	19	0.10	0.019	4
PP11 DH190	Soil		0.2	7.3	2.9	27	<0.1	11.7	3.1	217	0.95	<0.5	<0.5	0.4	16	<0.1	<0.1	<0.1	25	0.12	0.018	3
PP11 DH191	Soil		0.4	7.7	4.1	52	<0.1	15.6	4.2	308	1.46	0.9	0.5	0.8	12	<0.1	<0.1	<0.1	34	0.10	0.163	3
PP11 DH192	Soil		0.4	19.4	4.3	49	<0.1	28.3	7.6	323	1.88	1.2	1.5	0.9	41	<0.1	0.1	0.2	45	0.25	0.043	8
PP11 DH193	Soil		0.1	7.6	4.6	34	<0.1	11.9	3.0	329	1.02	0.5	0.6	0.5	23	<0.1	<0.1	0.1	27	0.14	0.020	4
PP11 DH194	Soil		0.3	12.6	4.9	44	<0.1	23.1	5.0	78	1.68	1.0	0.7	0.8	27	<0.1	<0.1	0.2	34	0.13	0.123	4
PP11 DH195	Soil		0.5	10.5	6.6	46	<0.1	18.4	6.1	216	1.67	1.3	<0.5	1.4	29	<0.1	<0.1	0.2	36	0.11	0.179	4
PP11 DH196	Soil		0.3	15.0	7.1	42	<0.1	21.3	6.7	134	1.91	1.6	2.4	2.1	37	<0.1	<0.1	0.2	44	0.15	0.165	6
PP11 DH197	Soil		0.2	14.1	4.9	46	<0.1	12.4	8.9	258	2.63	0.9	0.7	2.7	59	<0.1	0.1	0.1	71	0.28	0.044	5
PP11 DH198	Soil		0.1	10.7	4.4	34	<0.1	9.6	7.3	214	2.07	0.8	1.5	2.4	55	<0.1	<0.1	0.1	52	0.24	0.024	5
PP11 DH199	Soil		0.3	12.2	5.1	40	<0.1	13.2	8.0	186	2.26	1.0	1.6	2.2	52	<0.1	0.1	0.1	59	0.21	0.075	4
PP11 DH200	Soil		0.2	9.3	4.7	26	<0.1	9.3	5.2	124	1.41	0.6	1.1	1.2	61	<0.1	<0.1	<0.1	34	0.20	0.036	3
PMS-103	Rock Pulp		130.1	3955	25.8	70	2.8	38.7	22.0	439	4.76	60.4	592.1	2.1	31	0.4	3.8	0.5	128	0.36	0.103	11
PP11 DH201	Soil		0.7	13.3	7.2	27	<0.1	8.5	4.9	111	1.15	1.0	3.2	0.9	48	<0.1	<0.1	0.1	27	0.23	0.080	8
PP11 DH202	Soil		0.2	11.9	7.2	26	<0.1	10.4	4.6	93	1.49	0.8	0.9	1.1	40	<0.1	<0.1	0.1	30	0.21	0.057	5
PP11 DH203	Soil		<0.1	16.0	5.4	31	<0.1	12.8	6.1	260	1.72	0.7	0.8	2.2	61	<0.1	<0.1	0.1	42	0.30	0.029	10
PP11 DH204	Soil		0.3	22.8	3.2	52	<0.1	11.3	11.7	395	3.35	1.8	1.9	2.8	49	<0.1	0.1	0.1	105	0.48	0.093	8
PP11 DH205	Soil		0.6	17.8	4.5	43	<0.1	10.4	8.5	286	2.46	1.4	2.1	2.0	37	<0.1	0.1	0.1	70	0.33	0.069	6
PP11 DH206	Soil		0.9	15.1	4.9	48	<0.1	12.4	7.3	188	2.08	1.5	0.6	1.8	23	<0.1	<0.1	0.1	52	0.18	0.094	3
PP11 DH207	Soil		0.9	13.7	6.1	68	0.2	10.5	7.4	313	2.21	2.0	<0.5	2.1	20	0.1	<0.1	0.1	53	0.19	0.147	4
PP11 DH208	Soil		1.2	12.1	5.1	48	0.1	9.3	7.5	186	2.38	1.3	1.5	1.3	23	<0.1	<0.1	0.2	61	0.29	0.132	3

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Project: Princeton
 Report Date: October 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11005203.1

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	
PP11 DH180	Soil	12	0.11	58	0.060	<1	1.03	0.024	0.03	<0.1	0.02	0.9	<0.1	<0.05	4	<0.5	<0.2
PP11 DH181	Soil	22	0.23	93	0.067	<1	1.44	0.030	0.05	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
PP11 DH182	Soil	22	0.20	125	0.072	<1	1.88	0.014	0.07	<0.1	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2
PP11 DH183	Soil	21	0.19	93	0.064	<1	1.54	0.020	0.03	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
PP11 DH184	Soil	27	0.22	74	0.075	<1	1.69	0.020	0.03	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
PP11 DH185	Soil	25	0.21	88	0.079	<1	1.87	0.021	0.04	<0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
PP11 DH186	Soil	22	0.19	207	0.079	<1	2.48	0.018	0.07	<0.1	0.03	2.1	<0.1	<0.05	8	<0.5	<0.2
PP11 DH187	Soil	55	0.45	144	0.077	<1	2.01	0.025	0.05	<0.1	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
PP11 DH188	Soil	38	0.37	156	0.079	<1	3.00	0.020	0.06	<0.1	0.03	2.0	<0.1	<0.05	8	<0.5	<0.2
PP11 DH189	Soil	12	0.11	56	0.052	<1	0.95	0.020	0.03	<0.1	0.03	0.7	<0.1	<0.05	4	<0.5	<0.2
PP11 DH190	Soil	20	0.19	50	0.056	<1	0.89	0.020	0.03	<0.1	0.02	1.0	<0.1	<0.05	3	<0.5	<0.2
PP11 DH191	Soil	13	0.11	85	0.073	<1	1.88	0.020	0.03	<0.1	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2
PP11 DH192	Soil	47	0.55	130	0.075	<1	1.70	0.021	0.07	<0.1	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
PP11 DH193	Soil	14	0.16	70	0.061	<1	0.98	0.019	0.03	<0.1	0.01	1.1	<0.1	<0.05	3	<0.5	<0.2
PP11 DH194	Soil	27	0.25	124	0.076	<1	2.25	0.021	0.06	<0.1	0.01	1.8	<0.1	<0.05	7	<0.5	<0.2
PP11 DH195	Soil	16	0.18	113	0.104	2	2.45	0.016	0.06	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
PP11 DH196	Soil	21	0.26	154	0.113	<1	3.04	0.023	0.08	<0.1	0.03	2.6	<0.1	<0.05	8	<0.5	<0.2
PP11 DH197	Soil	18	0.62	159	0.178	1	1.80	0.014	0.26	<0.1	0.01	1.9	0.2	<0.05	6	<0.5	<0.2
PP11 DH198	Soil	13	0.53	159	0.185	<1	1.63	0.021	0.30	<0.1	<0.01	1.8	0.2	<0.05	5	<0.5	<0.2
PP11 DH199	Soil	22	0.40	144	0.150	1	1.88	0.019	0.16	<0.1	0.02	1.7	0.1	<0.05	6	<0.5	<0.2
PP11 DH200	Soil	17	0.28	104	0.101	<1	1.22	0.019	0.12	<0.1	0.02	1.4	0.1	<0.05	4	<0.5	<0.2
PMS-103	Rock Pulp	54	0.97	48	0.122	1	1.39	0.036	1.01	4.4	0.08	10.3	0.6	2.09	6	7.3	1.0
PP11 DH201	Soil	15	0.21	99	0.080	<1	1.17	0.019	0.06	<0.1	0.04	1.7	<0.1	<0.05	5	<0.5	<0.2
PP11 DH202	Soil	19	0.27	116	0.113	1	1.64	0.019	0.06	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PP11 DH203	Soil	22	0.45	120	0.137	<1	1.34	0.025	0.18	<0.1	0.02	2.4	0.2	<0.05	4	<0.5	<0.2
PP11 DH204	Soil	23	0.84	138	0.229	1	1.60	0.027	0.44	0.2	0.01	3.0	0.2	<0.05	6	<0.5	<0.2
PP11 DH205	Soil	17	0.55	145	0.168	2	1.54	0.020	0.24	0.2	0.02	2.2	0.1	<0.05	6	<0.5	<0.2
PP11 DH206	Soil	13	0.34	178	0.138	<1	2.00	0.018	0.10	0.1	0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11 DH207	Soil	11	0.30	144	0.142	1	2.16	0.024	0.10	0.3	0.02	2.1	<0.1	<0.05	7	<0.5	<0.2
PP11 DH208	Soil	11	0.33	121	0.146	1	2.08	0.018	0.10	0.3	0.03	1.9	<0.1	<0.05	7	<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	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	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
PP11 DH209	Soil		0.3	10.9	5.3	39	0.2	8.1	5.2	236	1.75	1.1	0.7	1.5	26	<0.1	<0.1	0.2	36	0.27	0.147	4
PP11 DH210	Soil		0.3	20.9	4.4	50	0.2	14.1	8.9	234	2.97	1.4	1.0	2.0	43	<0.1	0.1	0.2	83	0.44	0.037	8
PP11 DH211	Soil		0.6	14.5	4.8	56	<0.1	11.4	8.4	188	2.31	1.5	0.9	1.2	24	<0.1	<0.1	0.6	60	0.27	0.140	4
PP11 DH212	Soil		0.6	14.0	4.9	79	<0.1	12.7	7.9	475	2.15	1.0	3.1	0.8	25	<0.1	<0.1	0.1	56	0.19	0.101	3
PP11 DH213	Soil		0.5	15.0	5.6	76	0.1	16.9	8.1	521	2.09	1.0	0.7	0.9	42	<0.1	<0.1	0.2	52	0.29	0.107	4
PP11 DH214	Soil		1.2	85.7	3.1	52	<0.1	32.0	14.5	409	3.56	2.9	8.4	1.8	86	<0.1	0.1	<0.1	104	0.65	0.108	11
PP11 DH215	Soil		2.8	116.1	1.8	77	<0.1	36.6	13.2	408	4.42	3.0	3.3	0.9	61	<0.1	0.4	<0.1	127	0.61	0.100	8
PP11 DH216	Soil		1.7	78.8	4.0	57	0.1	33.9	12.2	346	3.53	3.6	37.8	1.6	77	<0.1	0.2	0.2	102	0.50	0.082	12
PP11 DH217	Soil		0.4	15.1	6.1	44	<0.1	15.4	7.2	199	2.09	0.7	1.2	1.2	56	<0.1	<0.1	<0.1	59	0.31	0.048	3
PP11 DH218	Soil		0.2	7.8	5.1	54	<0.1	10.3	4.4	189	1.24	0.8	0.7	1.2	25	<0.1	<0.1	<0.1	27	0.15	0.139	3
PP11 DH219	Soil		0.4	10.4	5.1	55	<0.1	13.8	6.3	413	1.73	0.6	3.2	0.9	36	<0.1	<0.1	<0.1	47	0.25	0.063	3
PP11 DH220	Soil		0.3	10.3	4.3	47	<0.1	15.6	7.1	205	1.88	<0.5	1.3	1.0	35	<0.1	<0.1	<0.1	60	0.19	0.028	3
PP11 DH221	Soil		0.3	8.9	3.8	45	<0.1	15.4	5.4	192	1.69	0.5	1.1	0.8	29	<0.1	<0.1	<0.1	47	0.19	0.035	2
PP11 DH222	Soil		0.3	10.2	4.9	51	<0.1	17.2	6.4	175	1.83	0.5	0.6	1.1	31	<0.1	<0.1	<0.1	51	0.17	0.045	2
PP11 DH223	Soil		0.3	9.0	4.3	46	<0.1	15.1	5.5	177	1.73	<0.5	2.2	0.8	30	<0.1	<0.1	<0.1	47	0.18	0.040	2
PP11 DH224	Soil		0.3	8.1	3.8	63	<0.1	15.7	5.7	330	1.62	0.5	<0.5	0.8	26	<0.1	<0.1	<0.1	43	0.13	0.060	2
PP11 DH225	Soil		0.2	7.5	3.7	51	<0.1	11.9	4.3	166	1.45	<0.5	2.0	0.7	30	<0.1	<0.1	<0.1	36	0.17	0.061	2
PP11 DH226	Soil		0.3	8.3	3.7	46	<0.1	13.4	5.0	131	1.57	0.5	2.0	0.9	24	<0.1	<0.1	0.1	41	0.15	0.064	2
PP11 DH227	Soil		0.4	9.9	4.2	47	<0.1	16.8	5.5	175	1.68	<0.5	1.8	1.1	30	<0.1	<0.1	<0.1	42	0.15	0.089	3
PP11 DH228	Soil		0.4	9.6	4.4	55	<0.1	15.6	4.9	230	1.47	<0.5	2.6	1.1	34	<0.1	<0.1	0.1	38	0.17	0.104	3
PP11 DH229	Soil		0.2	6.8	3.0	42	<0.1	11.6	3.7	106	1.36	<0.5	<0.5	0.8	26	<0.1	<0.1	<0.1	36	0.14	0.095	2
PP11 DH230	Soil		0.2	10.8	4.0	52	<0.1	17.9	4.6	150	1.47	<0.5	<0.5	0.9	32	<0.1	<0.1	<0.1	39	0.20	0.040	6
PP11 DH231	Soil		0.2	10.3	4.3	46	<0.1	16.8	4.9	90	1.56	<0.5	3.5	0.8	27	<0.1	<0.1	<0.1	40	0.16	0.053	3
PP11 DH232	Soil		0.4	7.5	4.4	62	<0.1	16.0	5.0	222	1.48	<0.5	0.9	0.9	21	<0.1	<0.1	<0.1	34	0.13	0.132	2
PP11 DH233	Soil		0.2	19.0	3.9	47	<0.1	20.6	4.4	582	1.47	<0.5	2.7	0.9	51	<0.1	<0.1	<0.1	38	0.34	0.027	13
PP11 DH234	Soil		0.3	10.2	4.6	76	<0.1	18.7	6.6	207	1.59	0.6	<0.5	1.1	23	<0.1	<0.1	<0.1	41	0.14	0.112	3
PP11 DH235	Soil		0.4	9.1	4.9	72	<0.1	12.0	4.8	593	1.38	<0.5	1.2	0.9	30	<0.1	<0.1	<0.1	34	0.18	0.054	3
PP11 DH236	Soil		0.4	19.2	5.2	58	<0.1	17.4	8.0	247	2.00	<0.5	52.2	1.3	42	<0.1	<0.1	<0.1	49	0.23	0.031	5
PP11 DH237	Soil		0.3	7.6	4.6	63	<0.1	12.9	5.3	535	1.45	<0.5	2.5	0.8	27	<0.1	<0.1	<0.1	34	0.17	0.056	2
PP11 DH238	Soil		0.3	9.7	4.8	57	<0.1	13.5	5.8	256	1.61	0.6	<0.5	1.0	34	<0.1	<0.1	0.1	39	0.18	0.038	3

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Project: Princeton
 Report Date: October 23, 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	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	
PP11 DH209	Soil	10	0.22	133	0.109	2	2.19	0.020	0.10	0.2	0.02	2.1	<0.1	<0.05	7	<0.5	<0.2
PP11 DH210	Soil	22	0.61	103	0.151	1	2.14	0.023	0.14	0.1	0.02	3.9	<0.1	<0.05	7	<0.5	<0.2
PP11 DH211	Soil	14	0.37	103	0.116	2	2.31	0.023	0.08	<0.1	0.02	2.8	<0.1	<0.05	7	<0.5	0.2
PP11 DH212	Soil	14	0.30	109	0.102	<1	2.17	0.018	0.05	<0.1	0.03	1.9	<0.1	<0.05	7	<0.5	<0.2
PP11 DH213	Soil	15	0.34	123	0.093	1	2.28	0.020	0.08	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
PP11 DH214	Soil	37	0.93	149	0.096	<1	2.32	0.038	0.08	<0.1	0.02	7.4	<0.1	<0.05	6	<0.5	<0.2
PP11 DH215	Soil	67	1.16	195	0.151	<1	2.20	0.012	0.20	<0.1	0.01	6.8	<0.1	<0.05	8	<0.5	0.3
PP11 DH216	Soil	37	0.86	226	0.120	1	2.31	0.030	0.18	<0.1	0.02	6.9	0.1	<0.05	7	<0.5	<0.2
PP11 DH217	Soil	19	0.39	213	0.136	2	1.95	0.039	0.21	<0.1	0.01	2.8	0.3	<0.05	5	<0.5	<0.2
PP11 DH218	Soil	9	0.15	136	0.076	1	1.64	0.021	0.07	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PP11 DH219	Soil	19	0.28	111	0.089	1	1.75	0.021	0.09	<0.1	0.03	2.0	<0.1	<0.05	5	<0.5	<0.2
PP11 DH220	Soil	23	0.28	93	0.104	1	1.56	0.027	0.08	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PP11 DH221	Soil	23	0.26	84	0.091	<1	1.51	0.025	0.08	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PP11 DH222	Soil	23	0.28	110	0.094	2	1.91	0.023	0.10	<0.1	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
PP11 DH223	Soil	23	0.25	87	0.089	1	1.64	0.023	0.07	<0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
PP11 DH224	Soil	17	0.21	94	0.080	1	1.57	0.022	0.06	<0.1	0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
PP11 DH225	Soil	19	0.23	104	0.075	<1	1.36	0.023	0.05	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PP11 DH226	Soil	19	0.24	92	0.083	1	1.59	0.025	0.08	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
PP11 DH227	Soil	19	0.25	125	0.084	1	1.81	0.022	0.08	<0.1	0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11 DH228	Soil	17	0.19	152	0.082	1	1.79	0.019	0.08	<0.1	0.02	2.0	<0.1	0.05	5	<0.5	<0.2
PP11 DH229	Soil	15	0.17	96	0.073	1	1.44	0.020	0.04	<0.1	0.01	1.9	<0.1	0.05	4	<0.5	<0.2
PP11 DH230	Soil	19	0.27	98	0.071	<1	1.57	0.022	0.08	<0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
PP11 DH231	Soil	20	0.26	91	0.077	1	1.71	0.020	0.06	<0.1	<0.01	1.9	<0.1	0.05	5	<0.5	<0.2
PP11 DH232	Soil	17	0.19	119	0.079	1	1.81	0.018	0.07	<0.1	0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11 DH233	Soil	23	0.30	92	0.072	2	1.60	0.027	0.06	<0.1	0.03	4.1	<0.1	0.06	4	<0.5	<0.2
PP11 DH234	Soil	20	0.25	135	0.087	1	2.06	0.020	0.08	<0.1	0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11 DH235	Soil	17	0.23	125	0.093	1	1.80	0.016	0.08	<0.1	0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
PP11 DH236	Soil	31	0.42	175	0.123	1	2.32	0.021	0.10	<0.1	0.02	2.7	0.1	<0.05	6	<0.5	<0.2
PP11 DH237	Soil	15	0.19	142	0.086	<1	1.77	0.020	0.09	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
PP11 DH238	Soil	19	0.27	179	0.098	<1	2.07	0.021	0.08	<0.1	<0.01	1.8	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	%	%	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	
PP11 DH239	Soil		0.3	8.1	4.6	50	<0.1	13.0	5.6	276	1.56	<0.5	2.0	0.7	29	<0.1	<0.1	<0.1	40	0.15	0.026	3
PP11 DH240	Soil		0.4	9.2	4.7	70	<0.1	16.7	5.0	501	1.39	0.8	3.6	1.1	24	<0.1	<0.1	0.1	32	0.14	0.092	3
PP11 DH241	Soil		0.7	17.4	5.7	67	0.1	33.3	7.3	347	2.06	1.6	18.4	1.3	31	<0.1	0.2	0.1	47	0.22	0.093	4
PP11 DH242	Soil		0.4	9.7	4.2	41	<0.1	21.2	6.2	185	1.58	1.0	2.2	1.0	28	<0.1	0.1	<0.1	38	0.19	0.062	3
PP11 DH243	Soil		0.4	13.3	5.1	50	0.2	25.9	6.9	161	1.83	1.1	9.3	1.3	31	<0.1	0.1	0.1	41	0.21	0.129	4
PP11 DH244	Soil		0.3	12.2	4.8	46	0.1	22.7	4.9	91	1.48	1.7	1.1	1.3	22	<0.1	<0.1	<0.1	31	0.16	0.275	3
PP11 DH245	Soil		0.5	18.7	5.0	44	<0.1	33.4	6.5	142	1.98	1.5	7.7	1.8	47	<0.1	0.1	<0.1	53	0.28	0.044	7
PP11 DH246	Soil		0.7	11.0	5.6	51	0.3	23.5	5.4	99	1.55	1.6	3.5	1.4	14	<0.1	<0.1	0.1	34	0.09	0.196	4
PP11 DH247	Soil		0.3	17.7	5.7	47	0.2	20.2	6.2	176	1.48	1.7	5.7	1.3	33	<0.1	0.1	<0.1	41	0.21	0.052	6
PP11 DH248	Soil		0.6	16.7	5.8	67	0.3	21.4	5.7	244	1.58	2.4	3.8	1.3	21	0.1	0.1	0.1	41	0.16	0.175	4
PP11 DH249	Soil		0.2	28.0	5.7	36	0.3	24.9	4.4	214	1.55	2.1	4.4	1.1	36	<0.1	0.1	0.1	40	0.24	0.023	8
PP11 DH250	Soil		0.9	23.6	5.7	71	0.2	29.2	8.0	163	2.18	2.4	11.3	1.5	35	<0.1	0.2	0.1	60	0.19	0.074	6
PMS-112	Rock Pulp		16.0	58.6	16.7	17	0.1	15.5	2.6	102	3.56	451.5	210.0	0.7	29	0.4	25.9	0.1	9	0.97	0.005	2
PP11 DH251	Soil		0.6	22.0	5.7	63	0.3	30.5	7.5	208	2.13	1.7	59.3	1.6	39	<0.1	0.2	0.1	55	0.23	0.067	6
PP11 DH252	Soil		0.5	21.4	5.9	40	<0.1	63.3	10.7	161	2.45	1.3	0.8	1.3	41	<0.1	<0.1	0.1	50	0.26	0.093	3
PP11 DH253	Soil		0.3	30.3	3.9	32	0.2	34.8	6.7	155	1.90	1.8	10.0	1.1	53	<0.1	0.2	<0.1	51	0.40	0.019	9
PP11 DH254	Soil		0.4	38.2	5.9	67	0.8	30.2	6.1	176	1.78	2.1	4.0	1.0	57	<0.1	0.2	0.1	32	0.39	0.061	9
PP11 DH255	Soil		0.2	13.1	5.5	29	0.2	20.1	3.5	158	1.03	<0.5	1.0	1.1	56	<0.1	<0.1	<0.1	27	0.32	0.032	9
PP11 DH256	Soil		0.2	19.9	6.4	14	<0.1	16.7	2.1	33	1.01	0.6	2.0	1.8	43	<0.1	<0.1	0.1	20	0.19	0.019	14
PP11 DH257	Soil		0.4	9.3	4.6	47	0.2	20.2	4.9	264	1.39	0.9	<0.5	1.0	17	<0.1	<0.1	<0.1	34	0.10	0.124	3
PP11 DH258	Soil		0.4	10.2	4.8	51	<0.1	24.1	5.6	158	1.48	1.3	<0.5	1.2	15	<0.1	<0.1	<0.1	35	0.09	0.152	4
PP11 DH259	Soil		0.3	14.9	6.5	48	<0.1	32.1	6.2	100	1.58	1.6	0.9	1.8	29	<0.1	<0.1	0.2	36	0.14	0.181	9
PP11 DH260	Soil		0.5	23.0	5.3	47	<0.1	21.8	11.2	338	2.89	1.3	2.6	4.6	66	<0.1	0.2	<0.1	87	0.62	0.092	18
PP11 DH261	Soil		0.9	17.0	7.8	47	<0.1	16.4	10.4	235	2.53	0.9	3.4	5.3	45	<0.1	0.1	0.1	73	0.41	0.027	22
PP11 DH262	Soil		0.2	11.0	5.0	37	<0.1	10.7	5.0	159	1.77	0.6	5.6	1.4	38	<0.1	0.2	0.2	41	0.24	0.021	8
PP11 DH263	Soil		0.9	12.1	5.0	42	<0.1	12.9	7.4	169	2.45	1.5	2.6	2.1	23	<0.1	<0.1	0.2	58	0.22	0.151	4
PP11 DH264	Soil		1.1	12.7	5.5	41	<0.1	12.1	6.2	112	2.13	1.5	6.0	3.0	13	<0.1	0.1	0.2	47	0.12	0.179	5
PP11 DH265	Soil		1.8	21.1	5.8	26	<0.1	16.3	8.0	248	2.30	1.6	5.2	3.4	57	<0.1	<0.1	0.1	62	0.66	0.026	22
PP11 DH266	Soil		0.4	20.1	3.9	58	0.1	14.7	11.4	285	3.53	1.7	2.5	4.8	48	<0.1	0.1	0.1	101	0.40	0.119	8
PP11 DH267	Soil		0.3	15.5	4.9	38	<0.1	14.1	7.2	435	2.10	1.2	7.1	2.0	80	<0.1	<0.1	0.1	60	0.57	0.036	13

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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	
PP11 DH239	Soil	17	0.21	139	0.091	1	1.76	0.020	0.07	<0.1	<0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
PP11 DH240	Soil	15	0.18	164	0.086	1	1.91	0.018	0.08	0.1	0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11 DH241	Soil	28	0.38	166	0.101	<1	2.60	0.017	0.13	0.1	0.02	2.9	<0.1	<0.05	7	<0.5	<0.2
PP11 DH242	Soil	20	0.24	137	0.084	1	1.62	0.019	0.09	<0.1	<0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PP11 DH243	Soil	23	0.28	159	0.082	1	1.91	0.016	0.12	<0.1	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
PP11 DH244	Soil	15	0.14	135	0.085	<1	2.02	0.018	0.08	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11 DH245	Soil	36	0.51	174	0.105	1	2.20	0.033	0.21	<0.1	<0.01	4.2	0.1	<0.05	6	<0.5	<0.2
PP11 DH246	Soil	17	0.16	103	0.086	1	2.10	0.020	0.06	<0.1	0.04	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11 DH247	Soil	23	0.29	139	0.077	<1	1.57	0.017	0.07	<0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
PP11 DH248	Soil	22	0.23	123	0.089	<1	2.06	0.015	0.06	<0.1	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2
PP11 DH249	Soil	30	0.31	140	0.076	<1	1.74	0.023	0.05	<0.1	0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
PP11 DH250	Soil	33	0.43	177	0.085	<1	2.38	0.023	0.07	<0.1	0.01	3.5	<0.1	<0.05	7	<0.5	<0.2
PMS-112	Rock Pulp	21	0.02	1412	0.012	2	0.17	0.007	0.07	2.8	2.84	0.7	10.8	0.16	<1	1.9	<0.2
PP11 DH251	Soil	36	0.38	171	0.088	<1	2.30	0.017	0.10	<0.1	0.02	3.2	0.1	<0.05	6	<0.5	<0.2
PP11 DH252	Soil	50	0.67	173	0.091	1	3.14	0.022	0.07	<0.1	0.02	3.6	<0.1	<0.05	8	<0.5	<0.2
PP11 DH253	Soil	50	0.66	102	0.093	1	1.47	0.041	0.08	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
PP11 DH254	Soil	43	0.39	226	0.056	2	2.19	0.026	0.08	<0.1	0.04	4.0	<0.1	<0.05	6	<0.5	<0.2
PP11 DH255	Soil	33	0.34	111	0.065	<1	1.24	0.025	0.05	<0.1	0.03	2.3	<0.1	<0.05	3	<0.5	<0.2
PP11 DH256	Soil	28	0.20	162	0.057	<1	2.20	0.027	0.03	<0.1	0.02	2.8	<0.1	<0.05	6	0.5	<0.2
PP11 DH257	Soil	25	0.17	87	0.077	1	1.86	0.018	0.04	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
PP11 DH258	Soil	26	0.18	108	0.082	2	2.01	0.021	0.05	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PP11 DH259	Soil	27	0.18	158	0.092	<1	2.52	0.029	0.04	<0.1	0.03	2.6	<0.1	<0.05	7	<0.5	<0.2
PP11 DH260	Soil	41	0.66	142	0.146	1	1.60	0.033	0.21	0.1	0.02	5.2	0.1	<0.05	6	0.5	<0.2
PP11 DH261	Soil	23	0.59	215	0.195	2	2.38	0.035	0.21	0.1	0.01	5.2	0.2	<0.05	8	0.6	<0.2
PP11 DH262	Soil	13	0.39	125	0.103	1	1.54	0.022	0.12	<0.1	0.01	2.1	0.1	<0.05	5	<0.5	<0.2
PP11 DH263	Soil	14	0.37	80	0.114	1	2.04	0.012	0.08	0.1	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2
PP11 DH264	Soil	12	0.25	81	0.126	2	2.47	0.016	0.07	0.1	0.03	2.1	<0.1	<0.05	7	<0.5	<0.2
PP11 DH265	Soil	18	0.44	146	0.110	1	2.00	0.027	0.11	0.1	0.04	4.6	0.1	<0.05	6	<0.5	<0.2
PP11 DH266	Soil	19	0.84	156	0.233	1	1.94	0.014	0.42	0.2	0.01	2.7	0.3	<0.05	7	<0.5	<0.2
PP11 DH267	Soil	19	0.61	98	0.158	2	1.51	0.022	0.27	<0.1	0.03	3.2	0.2	<0.05	5	<0.5	<0.2

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Project: Princeton
 Report Date: October 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11005203.1

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
PP11 DH268	Soil			0.1	6.4	4.2	25	<0.1	6.6	5.3	115	1.63	0.5	2.8	1.1	30	<0.1	<0.1	<0.1	40	0.18	0.019	4
PP11 DH269	Soil			0.2	14.5	6.5	32	<0.1	14.7	7.2	148	1.77	0.7	2.2	2.5	87	<0.1	<0.1	0.1	43	0.35	0.041	12
PP11 DH270	Soil			0.2	11.8	4.7	32	<0.1	13.3	7.6	233	1.85	0.5	2.7	2.1	62	<0.1	<0.1	<0.1	52	0.29	0.029	7
PP11 DH271	Soil			0.2	12.8	7.2	34	<0.1	18.0	6.9	95	1.88	0.5	<0.5	1.0	84	<0.1	<0.1	0.1	46	0.24	0.080	3
PP11 DH272	Soil			0.2	10.8	5.4	31	<0.1	14.2	4.2	337	1.28	<0.5	<0.5	0.8	40	<0.1	<0.1	0.1	35	0.20	0.021	6
PP11 DH273	Soil			0.5	8.0	6.4	34	<0.1	14.2	4.4	187	1.55	1.0	<0.5	0.9	17	<0.1	<0.1	0.1	37	0.10	0.120	3
PP11 DH274	Soil			0.4	7.6	5.8	41	<0.1	20.2	5.3	133	1.48	0.9	0.8	1.0	20	<0.1	<0.1	0.1	34	0.11	0.096	3
PP11 DH275	Soil			0.5	11.7	6.0	40	<0.1	18.3	6.9	224	2.04	1.1	<0.5	2.0	42	<0.1	<0.1	0.1	50	0.22	0.105	6
PP11 DH276	Soil			0.2	9.9	3.8	29	<0.1	10.5	6.1	197	1.90	0.5	<0.5	1.6	43	<0.1	<0.1	<0.1	53	0.25	0.019	5
PP11 DH277	Soil			0.1	13.9	5.1	42	<0.1	12.6	8.4	215	2.23	0.8	0.5	2.2	66	<0.1	<0.1	0.2	59	0.38	0.050	8
PP11 DH278	Soil			0.2	14.7	3.3	49	<0.1	10.0	10.6	389	3.06	1.1	1.6	4.1	53	<0.1	<0.1	0.1	88	0.46	0.064	10
PP11 DH279	Soil			0.2	17.5	3.8	46	<0.1	12.8	9.2	305	2.59	0.7	1.5	3.5	76	<0.1	<0.1	<0.1	69	0.52	0.053	15
PP11 DH280	Soil			0.2	14.3	2.8	51	<0.1	10.5	10.5	523	2.27	1.1	0.6	4.0	55	<0.1	<0.1	<0.1	62	0.44	0.080	10
PP11 DH281	Soil			0.4	5.4	5.0	28	<0.1	6.4	3.2	82	1.15	0.5	3.6	0.9	25	<0.1	<0.1	0.1	27	0.21	0.061	3
PP11 DH282	Soil			0.4	19.7	5.6	40	<0.1	17.6	7.9	132	2.49	2.0	1.2	4.0	38	<0.1	<0.1	0.1	57	0.21	0.173	10
PP11 DH283	Soil			0.3	13.3	6.1	38	<0.1	14.5	5.9	95	2.18	1.3	<0.5	2.1	31	<0.1	<0.1	0.1	47	0.21	0.162	7
PP11 DH284	Soil			0.3	11.1	5.1	29	<0.1	9.7	5.6	252	1.77	0.9	1.2	2.2	32	<0.1	<0.1	0.1	45	0.28	0.026	10
PP11 DH285	Soil			0.3	11.9	5.0	40	<0.1	11.0	6.3	192	2.18	0.7	0.9	2.2	39	<0.1	<0.1	<0.1	50	0.34	0.024	7
PP11 DH286	Soil			0.2	31.8	6.7	39	0.1	24.1	9.5	493	2.50	0.8	0.8	2.9	104	0.1	<0.1	0.1	57	0.63	0.038	26
PP11 DH287	Soil			0.2	28.9	5.8	37	0.1	20.1	7.0	367	2.13	0.8	1.8	2.2	94	<0.1	<0.1	0.1	56	0.59	0.035	26
PP11 DH288	Soil			0.3	28.7	5.4	38	0.1	19.9	7.5	396	2.30	1.0	1.9	2.0	86	<0.1	0.1	0.1	62	0.65	0.050	22
PP11 DH289	Soil			0.2	30.6	5.6	37	0.2	17.2	7.3	209	2.63	1.3	0.7	1.6	60	0.1	<0.1	0.2	56	0.60	0.039	7
PP11 DH290	Soil			0.8	16.9	4.7	41	<0.1	14.4	7.8	222	2.15	1.5	0.7	1.2	24	<0.1	<0.1	0.1	53	0.37	0.122	4
PP11 DH291	Soil			2.3	25.2	3.9	52	<0.1	15.8	10.2	389	2.85	2.7	<0.5	1.1	27	<0.1	0.1	0.1	77	0.35	0.107	4
PP11 DH292	Soil			2.1	19.8	4.1	54	<0.1	16.2	9.1	274	2.36	1.8	<0.5	1.3	23	<0.1	<0.1	<0.1	59	0.32	0.109	4
PP11 DH293	Soil			1.4	23.1	4.5	87	<0.1	15.8	9.9	469	2.80	2.0	1.2	1.3	22	<0.1	0.1	<0.1	69	0.52	0.078	4
PP11 DH294	Soil			1.1	10.1	3.8	65	<0.1	10.0	6.2	577	2.00	0.9	0.7	0.7	19	<0.1	<0.1	<0.1	47	0.61	0.047	3
PP11 DH295	Soil			1.1	14.9	4.6	72	<0.1	9.1	8.2	643	3.28	2.0	<0.5	1.4	20	<0.1	0.1	<0.1	74	1.13	0.031	4
PP11 DH296	Soil			0.9	21.0	3.8	57	<0.1	13.7	7.6	466	2.37	2.3	<0.5	1.1	28	<0.1	0.1	<0.1	55	0.46	0.033	5
PP11 DH297	Soil			0.8	21.8	4.2	59	<0.1	14.0	7.9	288	2.45	2.1	<0.5	1.1	25	<0.1	<0.1	<0.1	54	0.41	0.044	3

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Project: Princeton
 Report Date: October 23, 2011

Page: 7 of 11 Part 2

CERTIFICATE OF ANALYSIS

VAN11005203.1

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
PP11 DH268	Soil	10	0.35	80	0.134	<1	1.24	0.021	0.15	<0.1	<0.01	1.3	0.2	<0.05	4	<0.5	<0.2
PP11 DH269	Soil	30	0.52	99	0.114	1	1.67	0.026	0.20	<0.1	<0.01	3.8	0.2	<0.05	5	<0.5	<0.2
PP11 DH270	Soil	22	0.50	101	0.136	1	1.28	0.027	0.23	<0.1	<0.01	2.4	0.2	<0.05	4	<0.5	<0.2
PP11 DH271	Soil	31	0.38	200	0.098	<1	2.32	0.024	0.09	<0.1	<0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
PP11 DH272	Soil	21	0.23	88	0.080	<1	1.44	0.027	0.06	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PP11 DH273	Soil	15	0.12	68	0.087	<1	1.90	0.018	0.04	<0.1	0.04	1.3	<0.1	<0.05	7	<0.5	<0.2
PP11 DH274	Soil	14	0.15	87	0.091	<1	2.14	0.019	0.06	<0.1	0.02	1.2	<0.1	<0.05	7	<0.5	<0.2
PP11 DH275	Soil	19	0.34	130	0.114	1	1.97	0.017	0.14	<0.1	0.03	1.7	0.1	<0.05	6	<0.5	<0.2
PP11 DH276	Soil	18	0.43	89	0.146	<1	1.30	0.023	0.23	<0.1	0.02	2.1	0.2	<0.05	5	<0.5	<0.2
PP11 DH277	Soil	21	0.62	112	0.180	1	1.67	0.023	0.33	<0.1	0.02	3.0	0.3	<0.05	6	<0.5	<0.2
PP11 DH278	Soil	18	0.86	105	0.199	<1	1.65	0.022	0.49	<0.1	0.01	3.6	0.4	<0.05	6	<0.5	<0.2
PP11 DH279	Soil	22	0.84	96	0.186	1	1.73	0.023	0.36	<0.1	0.02	4.6	0.3	<0.05	6	<0.5	<0.2
PP11 DH280	Soil	14	0.68	98	0.133	<1	1.18	0.016	0.29	<0.1	<0.01	3.0	0.2	<0.05	4	<0.5	<0.2
PP11 DH281	Soil	8	0.17	78	0.096	1	1.29	0.019	0.05	<0.1	0.02	1.1	<0.1	<0.05	6	<0.5	<0.2
PP11 DH282	Soil	18	0.36	187	0.148	1	3.18	0.021	0.11	0.1	0.02	3.5	<0.1	<0.05	9	<0.5	<0.2
PP11 DH283	Soil	14	0.27	107	0.118	<1	2.83	0.025	0.07	0.1	0.01	2.2	<0.1	<0.05	8	<0.5	<0.2
PP11 DH284	Soil	14	0.33	116	0.111	<1	1.58	0.031	0.08	<0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
PP11 DH285	Soil	17	0.50	126	0.150	<1	1.95	0.027	0.13	<0.1	0.01	2.7	0.1	<0.05	6	<0.5	<0.2
PP11 DH286	Soil	43	0.71	170	0.156	2	2.47	0.031	0.20	<0.1	0.03	8.4	0.2	<0.05	7	<0.5	<0.2
PP11 DH287	Soil	33	0.57	147	0.148	1	1.93	0.035	0.16	<0.1	0.02	5.8	0.2	<0.05	6	<0.5	<0.2
PP11 DH288	Soil	34	0.63	167	0.135	1	2.16	0.030	0.16	0.1	0.03	5.4	0.2	<0.05	6	<0.5	<0.2
PP11 DH289	Soil	27	0.57	105	0.102	2	2.78	0.032	0.08	<0.1	0.02	6.1	<0.1	<0.05	8	<0.5	<0.2
PP11 DH290	Soil	15	0.30	106	0.113	<1	2.14	0.022	0.09	0.1	0.02	2.7	<0.1	<0.05	7	<0.5	<0.2
PP11 DH291	Soil	19	0.50	136	0.135	1	2.36	0.027	0.10	0.1	0.02	3.1	<0.1	<0.05	8	<0.5	<0.2
PP11 DH292	Soil	15	0.36	121	0.105	1	1.93	0.022	0.09	0.4	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2
PP11 DH293	Soil	19	0.44	169	0.112	<1	2.24	0.016	0.11	0.4	0.02	2.5	<0.1	<0.05	7	<0.5	<0.2
PP11 DH294	Soil	14	0.25	89	0.095	1	1.62	0.018	0.13	0.6	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
PP11 DH295	Soil	15	0.35	105	0.171	<1	1.89	0.013	0.13	0.3	0.01	3.4	<0.1	<0.05	7	<0.5	<0.2
PP11 DH296	Soil	22	0.40	100	0.116	1	1.70	0.023	0.09	0.2	0.01	3.2	<0.1	<0.05	6	<0.5	<0.2
PP11 DH297	Soil	21	0.43	123	0.117	<1	1.89	0.016	0.12	0.2	0.02	2.4	0.1	<0.05	6	<0.5	<0.2

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Project: Princeton
 Report Date: October 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11005203.1

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
PP11 DH298	Soil			0.5	30.8	3.1	42	<0.1	16.3	9.0	199	2.74	2.2	15.6	1.5	55	<0.1	0.3	<0.1	85	0.35	0.022	6
PP11 DH299	Soil			0.3	10.0	2.8	43	<0.1	11.9	5.4	120	1.78	0.6	1.5	0.7	31	<0.1	<0.1	<0.1	56	0.22	0.035	3
PP11 DH300	Soil			0.2	8.3	3.9	34	<0.1	11.8	4.3	88	1.31	0.5	<0.5	0.6	25	<0.1	<0.1	<0.1	34	0.15	0.046	3
PMS-88	Rock Pulp			16.0	66.1	16.7	19	0.2	15.7	2.5	102	3.54	452.8	219.0	0.7	27	0.5	24.3	0.2	10	0.95	0.005	2
PP11 DH301	Soil			0.2	11.4	3.9	35	<0.1	11.7	4.4	201	1.46	0.7	<0.5	0.8	33	<0.1	<0.1	<0.1	41	0.21	0.020	4
PP11 DH302	Soil			0.4	11.6	4.5	54	<0.1	17.4	5.9	270	1.64	0.6	<0.5	1.0	26	<0.1	<0.1	<0.1	45	0.16	0.064	4
PP11 DH303	Soil			0.3	8.1	4.4	48	<0.1	13.7	5.0	134	1.41	<0.5	6.0	0.9	21	<0.1	<0.1	<0.1	35	0.12	0.116	3
PP11 DH304	Soil			0.2	13.2	3.7	44	<0.1	13.8	5.3	158	1.52	0.9	1.1	1.0	30	<0.1	<0.1	<0.1	41	0.20	0.026	5
PP11 DH305	Soil			0.8	22.3	4.5	64	<0.1	19.5	8.7	181	2.17	2.4	<0.5	1.4	31	<0.1	0.1	0.1	55	0.26	0.094	4
PP11 DH306	Soil			1.0	10.9	4.7	66	<0.1	12.1	6.2	442	1.72	1.4	2.1	0.8	19	<0.1	<0.1	<0.1	40	0.25	0.056	3
PP11 DH307	Soil			1.3	14.5	4.3	90	<0.1	10.8	6.4	1143	2.02	1.6	0.6	0.8	24	0.2	<0.1	<0.1	43	0.59	0.058	3
PP11 DH308	Soil			0.9	10.1	3.8	72	<0.1	10.0	6.3	336	2.10	1.0	0.5	0.7	19	<0.1	<0.1	<0.1	48	0.52	0.043	3
PP11 DH309	Soil			0.6	14.4	3.9	59	<0.1	11.6	6.6	288	2.07	1.5	1.0	1.1	24	<0.1	0.1	<0.1	47	0.48	0.055	3
PP11 DH310	Soil			1.5	18.1	4.2	59	<0.1	13.7	8.7	226	2.26	2.0	0.8	1.3	20	<0.1	0.1	<0.1	61	0.30	0.110	4
PP11 DH311	Soil			2.2	20.9	4.8	49	0.1	13.1	7.8	191	2.13	2.2	1.1	1.3	20	<0.1	0.1	0.1	53	0.24	0.147	4
PP11 DH312	Soil			1.1	22.5	4.8	52	<0.1	18.1	10.0	198	2.52	2.1	0.9	1.5	29	<0.1	0.1	0.1	69	0.30	0.066	5
PP11 DH313	Soil			0.4	34.1	5.7	40	0.3	19.0	8.0	1147	2.61	1.4	4.2	2.2	76	0.2	0.1	0.2	62	0.93	0.055	16
PP11 DH314	Soil			0.3	31.5	7.3	45	0.1	19.3	7.8	424	2.32	1.4	0.6	2.1	96	0.1	0.1	0.1	60	0.64	0.064	29
PP11 DH315	Soil			0.2	29.5	6.3	38	0.1	20.2	7.2	290	2.10	1.2	0.9	2.4	96	0.1	<0.1	0.1	52	0.56	0.039	26
PP11 DH316	Soil			0.4	12.5	5.6	38	<0.1	11.0	5.6	107	1.73	0.8	<0.5	1.4	38	<0.1	<0.1	0.1	41	0.29	0.068	5
PP11 DH317	Soil			0.5	12.3	6.0	39	<0.1	10.4	5.2	110	1.60	0.7	0.7	1.2	45	0.1	<0.1	0.1	37	0.35	0.067	4
PP11 DH318	Soil			0.5	20.6	3.5	31	<0.1	19.6	6.9	84	1.70	4.1	0.5	0.6	17	<0.1	<0.1	<0.1	53	0.12	0.027	4
PP11 DH319	Soil			0.6	29.7	4.0	47	0.1	26.3	7.8	142	2.05	3.1	0.5	1.0	28	<0.1	<0.1	<0.1	72	0.18	0.035	5
PP11 DH320	Soil			0.3	24.2	3.0	27	0.1	31.7	7.6	91	1.28	2.4	1.1	0.6	27	<0.1	<0.1	<0.1	46	0.19	0.018	4
PP11 DH321	Soil			0.8	33.3	3.1	42	<0.1	25.7	7.2	146	1.89	3.2	1.0	0.9	25	<0.1	0.1	<0.1	69	0.16	0.023	6
PP11 DH322	Soil			1.0	17.0	3.9	20	<0.1	10.5	4.0	62	1.04	0.9	<0.5	0.4	14	<0.1	<0.1	<0.1	35	0.11	0.024	2
PP11 DH323	Soil			1.0	10.4	2.9	18	0.1	5.4	3.4	49	1.10	0.8	1.0	0.5	7	<0.1	<0.1	<0.1	37	0.05	0.041	2
PP11 DH324	Soil			0.5	8.4	3.9	27	0.1	7.7	2.8	53	1.19	1.3	<0.5	0.7	13	<0.1	<0.1	<0.1	33	0.07	0.079	3
PP11 DH325	Soil			0.9	12.0	5.6	34	<0.1	14.2	4.7	74	1.52	2.1	0.9	1.0	20	<0.1	<0.1	<0.1	38	0.12	0.132	4
PP11 DH326	Soil			0.7	14.0	5.7	45	0.1	16.6	5.8	107	1.92	2.7	0.6	1.0	26	<0.1	<0.1	<0.1	56	0.16	0.125	4

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Project: Princeton
 Report Date: October 23, 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	
PP11 DH298	Soil			31	0.58	92	0.123	1	1.32	0.035	0.14	<0.1	0.04	5.2	0.1	<0.05	5	0.7	<0.2
PP11 DH299	Soil			18	0.29	78	0.087	2	1.23	0.028	0.05	<0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
PP11 DH300	Soil			16	0.22	73	0.071	1	1.44	0.019	0.06	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PMS-88	Rock Pulp			22	0.02	857	0.010	2	0.16	0.008	0.06	2.8	2.98	0.6	10.3	0.11	<1	1.8	<0.2
PP11 DH301	Soil			20	0.31	74	0.080	1	1.35	0.028	0.08	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
PP11 DH302	Soil			21	0.28	114	0.090	2	1.89	0.022	0.10	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
PP11 DH303	Soil			16	0.20	104	0.078	<1	1.69	0.021	0.06	0.1	0.03	1.9	<0.1	<0.05	6	<0.5	<0.2
PP11 DH304	Soil			19	0.29	99	0.081	1	1.40	0.028	0.07	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
PP11 DH305	Soil			25	0.44	149	0.105	1	2.14	0.019	0.10	0.1	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
PP11 DH306	Soil			14	0.25	140	0.098	1	1.76	0.016	0.10	0.2	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
PP11 DH307	Soil			14	0.28	125	0.097	2	1.79	0.016	0.16	0.3	0.04	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11 DH308	Soil			14	0.28	105	0.103	1	1.87	0.014	0.07	0.4	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
PP11 DH309	Soil			16	0.32	109	0.102	1	1.85	0.016	0.11	0.4	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11 DH310	Soil			16	0.35	102	0.110	1	1.87	0.021	0.08	0.2	0.03	2.5	<0.1	<0.05	6	<0.5	<0.2
PP11 DH311	Soil			16	0.30	115	0.115	1	2.07	0.021	0.06	0.1	0.03	2.6	<0.1	<0.05	7	<0.5	<0.2
PP11 DH312	Soil			25	0.49	138	0.134	1	2.18	0.025	0.08	0.1	0.02	3.4	<0.1	<0.05	7	<0.5	<0.2
PP11 DH313	Soil			29	0.57	167	0.107	2	2.87	0.026	0.13	0.1	0.06	7.2	<0.1	<0.05	8	<0.5	<0.2
PP11 DH314	Soil			33	0.55	211	0.119	2	2.43	0.022	0.11	<0.1	0.06	6.0	<0.1	<0.05	7	0.5	<0.2
PP11 DH315	Soil			34	0.59	144	0.133	2	2.13	0.026	0.20	<0.1	0.04	6.4	0.2	<0.05	6	<0.5	<0.2
PP11 DH316	Soil			17	0.37	108	0.122	2	1.75	0.019	0.08	<0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11 DH317	Soil			16	0.34	108	0.118	2	1.58	0.018	0.08	<0.1	0.04	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11 DH318	Soil			34	0.31	211	0.115	<1	1.23	0.022	0.06	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
PP11 DH319	Soil			42	0.58	294	0.161	<1	1.72	0.017	0.14	<0.1	0.02	3.9	0.1	<0.05	6	<0.5	<0.2
PP11 DH320	Soil			67	0.51	217	0.133	<1	1.27	0.023	0.07	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
PP11 DH321	Soil			44	0.58	282	0.153	<1	1.44	0.018	0.13	<0.1	0.01	3.3	0.1	<0.05	5	<0.5	<0.2
PP11 DH322	Soil			11	0.21	98	0.111	<1	1.12	0.014	0.09	<0.1	0.03	1.5	<0.1	<0.05	5	<0.5	<0.2
PP11 DH323	Soil			8	0.13	56	0.092	<1	0.75	0.016	0.04	<0.1	0.02	1.4	<0.1	<0.05	4	<0.5	<0.2
PP11 DH324	Soil			10	0.13	67	0.080	<1	1.06	0.017	0.03	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
PP11 DH325	Soil			17	0.20	100	0.094	<1	1.84	0.017	0.05	<0.1	0.04	1.8	<0.1	<0.05	7	<0.5	<0.2
PP11 DH326	Soil			27	0.30	96	0.107	<1	1.87	0.020	0.05	<0.1	0.04	2.2	<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	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	
PP11 DH327	Soil		0.8	15.2	5.8	45	<0.1	22.8	8.0	115	2.03	3.8	2.0	1.3	39	<0.1	0.1	<0.1	59	0.19	0.129	4
PP11 DH328	Soil		0.8	22.4	5.4	48	<0.1	24.1	8.8	192	2.04	2.6	2.2	1.6	33	<0.1	0.1	<0.1	58	0.20	0.087	6
PP11 DH329	Soil		0.6	14.3	5.6	43	<0.1	19.2	6.8	114	1.73	2.0	0.9	1.2	17	<0.1	<0.1	0.1	43	0.11	0.146	4
PP11 DH330	Soil		0.8	18.8	5.4	54	<0.1	21.2	9.0	173	2.12	2.7	1.8	1.4	24	<0.1	0.1	<0.1	57	0.18	0.117	4
PP11 DH331	Soil		1.6	17.1	5.3	31	<0.1	14.5	6.9	214	1.58	2.8	1.2	0.8	58	<0.1	<0.1	<0.1	48	0.46	0.038	6
PP11 DH332	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.
PP11 DH333	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.
PP11 DH334	Soil		1.6	50.5	6.7	34	0.3	31.3	7.4	523	1.80	4.3	2.3	1.8	80	0.6	0.1	0.1	63	0.71	0.068	17
PP11 DH335	Soil		8.8	31.6	6.6	40	0.3	35.3	11.1	4521	3.04	11.6	4.6	1.6	106	0.3	0.3	0.2	124	0.98	0.085	23
PP11 DH336	Soil		0.7	22.1	5.4	38	<0.1	14.9	5.2	317	1.51	2.7	0.9	0.8	82	0.5	<0.1	0.2	41	0.60	0.075	8
PP11 DH337	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.
PP11 DH338	Soil		0.9	20.5	4.0	32	0.1	16.6	4.9	318	2.00	2.1	2.4	1.2	76	0.1	<0.1	0.1	47	0.67	0.067	16
PP11 DH339	Soil		0.1	12.6	3.9	25	0.2	14.2	3.4	59	1.24	0.8	1.0	0.6	26	<0.1	<0.1	0.1	27	0.15	0.021	4
PP11 DH340	Soil		0.2	11.8	4.0	24	0.1	12.6	3.0	53	1.13	1.2	4.2	0.5	23	<0.1	<0.1	0.1	25	0.13	0.020	3
PP11 DH341	Soil		0.3	10.3	4.6	53	0.2	20.9	4.8	116	1.48	1.1	2.1	1.2	22	0.1	<0.1	0.1	33	0.13	0.187	5
PP11 DH342	Soil		0.6	44.7	4.7	51	<0.1	41.2	10.6	349	2.47	2.5	5.3	2.0	69	<0.1	0.2	0.1	67	0.44	0.069	17
PP11 DH343	Soil		0.4	27.0	3.5	39	<0.1	38.5	8.1	171	2.20	1.8	1.7	2.0	54	<0.1	0.2	0.1	57	0.28	0.043	15
PP11 DH344	Soil		0.1	6.1	3.8	52	<0.1	17.9	3.2	141	1.38	0.6	3.1	0.8	25	<0.1	<0.1	0.1	29	0.17	0.145	4
PP11 DH345	Soil		0.2	9.4	3.5	45	<0.1	16.3	4.2	208	1.45	<0.5	1.6	0.8	30	<0.1	<0.1	<0.1	33	0.21	0.033	3
PP11 DH346	Soil		0.2	10.5	3.1	34	<0.1	17.0	5.3	151	1.48	<0.5	4.9	0.9	25	<0.1	<0.1	<0.1	38	0.17	0.016	4
PP11 DH347	Soil		0.3	12.5	5.1	44	<0.1	22.4	5.6	301	1.51	<0.5	<0.5	0.8	36	<0.1	<0.1	<0.1	36	0.22	0.030	4
PP11 DH348	Soil		0.2	16.8	4.8	59	<0.1	37.1	7.0	283	1.89	1.0	1.1	1.3	43	<0.1	<0.1	0.1	42	0.23	0.036	6
PP11 DH349	Soil		0.2	10.2	3.4	33	<0.1	19.6	5.3	169	1.52	<0.5	<0.5	0.9	30	<0.1	<0.1	<0.1	36	0.15	0.020	5
PP11 DH350	Soil		0.2	8.6	3.3	36	<0.1	20.9	5.3	194	1.52	<0.5	1.9	0.7	24	<0.1	<0.1	<0.1	34	0.16	0.036	4
PMS-86	Rock Pulp		16.8	60.9	16.0	18	0.2	16.3	2.5	112	3.54	458.4	203.8	0.8	30	0.3	29.2	0.1	9	0.92	0.006	2
PP11 DH351	Soil		0.3	14.6	4.7	40	<0.1	24.6	7.2	185	1.70	1.7	2.1	0.9	34	<0.1	<0.1	<0.1	46	0.21	0.052	5
PP11 DH352	Soil		0.2	28.9	2.9	46	<0.1	48.5	10.8	273	2.31	1.1	3.3	1.9	47	<0.1	0.1	<0.1	61	0.29	0.040	14
PP11 DH353	Soil		0.2	27.8	3.7	37	0.2	29.5	5.1	273	1.68	1.1	8.6	1.0	48	<0.1	<0.1	<0.1	38	0.30	0.030	13
PP11 DH354	Soil		0.2	7.7	4.0	32	<0.1	9.0	3.7	198	1.40	<0.5	1.1	0.6	32	<0.1	<0.1	<0.1	39	0.18	0.017	3
PP11 DH355	Soil		0.2	12.3	4.1	38	<0.1	12.8	5.4	355	1.83	1.3	1.1	0.8	39	<0.1	<0.1	<0.1	51	0.25	0.018	9

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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	
PP11 DH327	Soil	28	0.33	144	0.120	1	2.28	0.017	0.08	0.2	0.03	2.5	<0.1	<0.05	6	<0.5	<0.2
PP11 DH328	Soil	33	0.43	152	0.113	1	2.15	0.023	0.11	<0.1	0.03	3.1	<0.1	<0.05	6	<0.5	<0.2
PP11 DH329	Soil	24	0.26	112	0.097	1	2.22	0.021	0.05	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
PP11 DH330	Soil	31	0.40	126	0.104	<1	2.21	0.022	0.07	<0.1	0.03	2.8	<0.1	<0.05	7	<0.5	<0.2
PP11 DH331	Soil	24	0.37	197	0.097	<1	1.74	0.028	0.07	<0.1	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
PP11 DH332	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.
PP11 DH333	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.
PP11 DH334	Soil	46	0.45	212	0.093	1	2.32	0.037	0.11	<0.1	0.04	5.7	<0.1	<0.05	7	0.7	<0.2
PP11 DH335	Soil	48	0.51	369	0.086	2	2.23	0.022	0.11	<0.1	0.08	5.7	0.1	0.09	6	1.7	<0.2
PP11 DH336	Soil	24	0.30	158	0.066	2	1.56	0.025	0.04	<0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
PP11 DH337	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.
PP11 DH338	Soil	33	0.47	128	0.069	<1	1.70	0.022	0.13	<0.1	0.05	4.2	<0.1	0.06	5	0.6	<0.2
PP11 DH339	Soil	29	0.22	62	0.062	<1	1.12	0.024	0.04	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
PP11 DH340	Soil	26	0.20	57	0.055	<1	1.04	0.022	0.04	<0.1	<0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
PP11 DH341	Soil	28	0.20	92	0.078	1	1.66	0.020	0.05	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
PP11 DH342	Soil	66	0.80	135	0.091	<1	1.53	0.044	0.15	<0.1	0.02	5.6	<0.1	<0.05	5	<0.5	<0.2
PP11 DH343	Soil	76	0.68	122	0.077	<1	1.54	0.041	0.10	<0.1	<0.01	4.6	0.1	<0.05	4	<0.5	<0.2
PP11 DH344	Soil	15	0.13	112	0.080	<1	1.37	0.027	0.05	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
PP11 DH345	Soil	33	0.24	95	0.077	1	1.27	0.031	0.12	<0.1	<0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PP11 DH346	Soil	38	0.25	81	0.081	<1	1.11	0.025	0.07	<0.1	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
PP11 DH347	Soil	47	0.31	108	0.074	<1	1.44	0.019	0.05	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
PP11 DH348	Soil	76	0.43	124	0.084	<1	2.28	0.017	0.06	<0.1	0.02	2.6	<0.1	<0.05	6	0.8	<0.2
PP11 DH349	Soil	38	0.30	104	0.074	<1	1.38	0.023	0.04	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PP11 DH350	Soil	34	0.24	97	0.080	<1	1.30	0.025	0.04	<0.1	<0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PMS-86	Rock Pulp	21	0.02	1039	0.010	<1	0.18	0.007	0.06	2.7	3.16	0.8	10.4	0.10	<1	1.6	<0.2
PP11 DH351	Soil	43	0.34	109	0.084	<1	1.90	0.019	0.06	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
PP11 DH352	Soil	102	0.88	93	0.085	<1	1.68	0.026	0.07	<0.1	0.02	5.3	<0.1	<0.05	5	<0.5	<0.2
PP11 DH353	Soil	40	0.36	112	0.071	1	1.65	0.028	0.10	<0.1	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
PP11 DH354	Soil	15	0.25	68	0.086	<1	1.39	0.033	0.07	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
PP11 DH355	Soil	20	0.34	75	0.094	<1	1.44	0.037	0.07	<0.1	0.01	3.3	<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	
			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	
PP11 DH356	Soil		0.3	7.5	3.4	46	<0.1	13.3	4.9	209	1.54	<0.5	<0.5	0.7	33	<0.1	<0.1	<0.1	45	0.17	0.067	2
PP11 DH357	Soil		0.3	8.2	3.7	43	<0.1	16.5	5.2	199	1.56	<0.5	1.1	0.8	30	<0.1	<0.1	<0.1	39	0.17	0.078	2
PP11 DH358	Soil		0.4	12.9	2.9	42	<0.1	18.4	5.8	149	1.87	0.6	0.5	1.1	42	<0.1	<0.1	<0.1	55	0.22	0.033	4
PP11 DH359	Soil		0.4	15.2	4.5	44	<0.1	20.5	7.4	140	1.98	0.9	1.3	1.3	41	<0.1	0.1	<0.1	54	0.22	0.046	5
PP11 DH360	Soil		0.3	16.4	4.0	46	<0.1	19.2	6.4	262	1.90	0.7	22.3	1.4	45	<0.1	<0.1	<0.1	56	0.26	0.024	7
PP11 DH361	Soil		0.2	19.8	4.3	44	0.1	18.9	5.4	357	1.73	0.7	2.2	1.1	53	<0.1	<0.1	<0.1	48	0.34	0.020	11
PP11 DH362	Soil		0.5	16.3	4.8	76	<0.1	21.1	6.3	392	1.86	1.2	4.5	1.2	43	<0.1	0.1	<0.1	46	0.28	0.075	5
PP11 DH363	Soil		0.3	14.0	4.3	55	<0.1	15.7	5.5	148	1.82	0.8	3.3	1.0	47	<0.1	<0.1	<0.1	49	0.27	0.033	5
PP11 DH364	Soil		0.2	13.3	3.9	33	<0.1	13.3	5.2	115	1.62	0.7	11.1	0.8	47	<0.1	<0.1	<0.1	47	0.25	0.015	3
PP11 DH365	Soil		0.2	8.1	3.6	42	<0.1	10.3	4.0	229	1.41	0.6	<0.5	0.9	36	<0.1	<0.1	<0.1	38	0.20	0.017	3
PP11 DH366	Soil		0.2	8.5	3.5	44	<0.1	11.4	4.5	264	1.42	<0.5	3.3	1.0	44	<0.1	<0.1	<0.1	39	0.23	0.032	4
PP11 DH367	Soil		0.2	7.9	3.6	45	<0.1	11.5	4.3	250	1.46	0.7	3.5	0.8	35	<0.1	<0.1	<0.1	35	0.19	0.021	4
PP11 DH368	Soil		0.3	10.0	3.7	51	<0.1	13.8	5.5	446	1.50	0.6	3.9	1.0	46	0.1	<0.1	<0.1	39	0.23	0.027	5
PP11 DH369	Soil		0.3	9.8	4.2	47	<0.1	15.0	5.0	395	1.59	0.8	<0.5	1.0	43	<0.1	<0.1	<0.1	40	0.23	0.022	4
PP11 DH370	Soil		0.3	10.4	3.6	51	<0.1	15.7	5.2	371	1.60	0.6	1.7	0.9	34	<0.1	<0.1	<0.1	39	0.18	0.022	3
PP11 DH371	Soil		0.5	9.4	4.0	44	<0.1	14.5	5.3	331	1.43	0.9	2.4	0.8	31	<0.1	<0.1	<0.1	38	0.19	0.024	3
PP11 DH372	Soil		0.5	8.5	4.5	55	<0.1	16.3	4.7	184	1.37	0.6	5.5	0.8	20	<0.1	<0.1	<0.1	32	0.14	0.052	3
PP11 DH373	Soil		0.6	7.9	4.3	39	<0.1	14.9	4.6	108	1.27	0.5	2.9	0.7	21	<0.1	<0.1	<0.1	29	0.12	0.065	2
PP11 DH374	Soil		0.5	9.6	4.8	53	<0.1	17.8	5.0	211	1.49	0.6	1.8	0.7	25	<0.1	<0.1	<0.1	37	0.16	0.050	3
PP11 DH375	Soil		0.4	11.4	4.5	61	0.1	23.6	5.3	211	1.47	0.9	2.0	1.2	22	<0.1	<0.1	<0.1	32	0.13	0.151	3
PP11 DH376	Soil		0.2	28.2	4.4	37	<0.1	25.0	6.0	255	1.65	1.2	8.1	1.8	52	<0.1	0.1	<0.1	48	0.38	0.026	10
PP11 DH377	Soil		0.3	12.4	3.8	40	0.1	15.2	4.5	111	1.32	0.7	65.8	0.8	27	<0.1	<0.1	<0.1	36	0.18	0.017	4
PP11 DH378	Soil		0.3	14.1	3.4	29	0.2	14.0	4.4	145	1.22	0.9	1.7	0.8	36	<0.1	0.1	<0.1	33	0.25	0.013	6
PP11 DH379	Soil		0.4	12.2	4.5	38	0.1	20.7	4.8	116	1.46	0.6	4.2	0.9	20	<0.1	<0.1	<0.1	32	0.13	0.097	3
PP11 DH380	Soil		0.2	41.8	6.5	41	0.2	37.1	4.7	240	1.96	2.0	10.2	2.2	53	<0.1	0.1	0.1	40	0.33	0.018	9
PP11 DH381	Soil		0.7	10.5	3.8	31	<0.1	21.7	5.5	254	1.34	0.6	5.4	0.7	16	<0.1	<0.1	<0.1	30	0.13	0.097	2
PP11 DH382	Soil		0.4	15.0	4.0	32	0.1	24.8	6.0	98	1.55	0.9	3.5	0.8	29	<0.1	<0.1	<0.1	39	0.18	0.047	3
PP11 DH383	Soil		0.4	8.3	4.7	34	<0.1	19.0	3.5	135	1.13	0.9	2.8	0.9	19	<0.1	<0.1	<0.1	23	0.11	0.159	4
PP11 DH384	Soil		0.2	11.8	3.9	38	<0.1	24.6	4.9	173	1.27	<0.5	1.9	0.7	21	<0.1	<0.1	<0.1	32	0.12	0.035	4
PP11 DH385	Soil		0.4	13.3	3.9	37	<0.1	28.0	6.8	87	1.57	0.7	1.7	1.3	26	<0.1	<0.1	<0.1	35	0.12	0.106	5

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Project: Princeton
Report Date: October 23, 2011

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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
PP11 DH356	Soil	24	0.32	78	0.073	<1	1.43	0.029	0.05	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PP11 DH357	Soil	26	0.32	101	0.086	1	1.77	0.027	0.08	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PP11 DH358	Soil	34	0.46	69	0.089	<1	1.51	0.034	0.06	<0.1	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
PP11 DH359	Soil	28	0.42	120	0.105	<1	1.89	0.032	0.11	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
PP11 DH360	Soil	28	0.43	103	0.109	<1	1.72	0.036	0.13	<0.1	0.02	3.5	0.1	<0.05	5	<0.5	<0.2
PP11 DH361	Soil	26	0.42	105	0.098	1	1.71	0.036	0.10	<0.1	0.02	3.5	0.1	<0.05	5	<0.5	<0.2
PP11 DH362	Soil	28	0.42	162	0.096	<1	1.91	0.025	0.14	<0.1	0.02	2.5	0.1	<0.05	5	<0.5	<0.2
PP11 DH363	Soil	28	0.43	129	0.123	<1	1.90	0.030	0.13	<0.1	0.03	2.8	0.1	<0.05	5	0.6	<0.2
PP11 DH364	Soil	33	0.33	124	0.108	<1	1.35	0.046	0.07	<0.1	0.01	2.5	0.1	<0.05	4	0.6	<0.2
PP11 DH365	Soil	21	0.26	127	0.094	<1	1.34	0.030	0.15	<0.1	<0.01	2.3	0.1	<0.05	4	<0.5	<0.2
PP11 DH366	Soil	23	0.29	118	0.089	<1	1.41	0.031	0.15	<0.1	0.01	2.5	0.1	<0.05	4	0.6	<0.2
PP11 DH367	Soil	21	0.24	133	0.094	<1	1.59	0.029	0.13	<0.1	0.02	2.1	<0.1	<0.05	4	0.6	<0.2
PP11 DH368	Soil	29	0.26	154	0.097	1	1.27	0.027	0.12	<0.1	0.02	2.3	0.1	<0.05	4	<0.5	<0.2
PP11 DH369	Soil	34	0.26	207	0.111	<1	1.63	0.040	0.13	<0.1	0.02	2.0	0.2	<0.05	5	<0.5	<0.2
PP11 DH370	Soil	27	0.27	154	0.097	<1	1.31	0.031	0.14	<0.1	<0.01	1.9	0.1	<0.05	4	0.7	<0.2
PP11 DH371	Soil	29	0.27	126	0.091	<1	1.22	0.023	0.12	<0.1	0.02	1.8	0.1	0.11	4	<0.5	<0.2
PP11 DH372	Soil	22	0.23	128	0.090	<1	1.56	0.020	0.11	<0.1	0.01	1.5	<0.1	0.09	5	<0.5	<0.2
PP11 DH373	Soil	16	0.18	120	0.070	<1	1.30	0.021	0.05	<0.1	<0.01	1.4	<0.1	0.07	5	<0.5	<0.2
PP11 DH374	Soil	23	0.26	121	0.087	<1	1.61	0.017	0.07	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
PP11 DH375	Soil	18	0.17	162	0.080	<1	1.74	0.021	0.05	<0.1	0.02	1.5	<0.1	0.05	6	<0.5	<0.2
PP11 DH376	Soil	38	0.49	117	0.093	<1	1.28	0.034	0.11	<0.1	0.02	4.4	<0.1	<0.05	4	<0.5	<0.2
PP11 DH377	Soil	23	0.25	81	0.083	<1	1.27	0.024	0.05	<0.1	0.01	1.8	<0.1	0.05	4	<0.5	<0.2
PP11 DH378	Soil	25	0.26	93	0.076	<1	1.02	0.028	0.05	<0.1	0.01	2.1	<0.1	0.06	3	<0.5	<0.2
PP11 DH379	Soil	29	0.21	102	0.076	<1	1.54	0.017	0.04	<0.1	0.03	1.5	<0.1	<0.05	5	<0.5	<0.2
PP11 DH380	Soil	41	0.39	191	0.098	<1	2.68	0.034	0.08	<0.1	0.02	4.9	<0.1	<0.05	7	<0.5	<0.2
PP11 DH381	Soil	24	0.22	78	0.067	<1	1.29	0.016	0.05	<0.1	0.02	1.5	<0.1	0.05	5	<0.5	<0.2
PP11 DH382	Soil	36	0.30	79	0.070	<1	1.34	0.023	0.05	<0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
PP11 DH383	Soil	19	0.13	128	0.062	<1	1.40	0.016	0.04	<0.1	0.04	1.4	<0.1	0.05	5	<0.5	<0.2
PP11 DH384	Soil	33	0.22	113	0.072	<1	1.36	0.022	0.04	<0.1	0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PP11 DH385	Soil	37	0.23	143	0.080	<1	1.63	0.019	0.04	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2



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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		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	
PP11 DH386	Soil	0.4	10.7	4.1	39	<0.1	19.1	5.2	139	1.40	0.6	2.7	0.9	14	<0.1	<0.1	<0.1	35	0.10	0.089	3
PP11 DH387	Soil	0.3	11.6	4.4	51	<0.1	23.2	6.2	372	1.45	0.6	2.0	1.1	26	<0.1	<0.1	<0.1	35	0.14	0.088	5
PP11 DH388	Soil	0.3	12.9	4.1	42	<0.1	20.6	5.6	228	1.40	0.8	2.4	1.1	19	<0.1	<0.1	<0.1	35	0.13	0.079	4
PP11 DH389	Soil	0.3	17.4	4.2	47	<0.1	32.1	7.8	185	1.75	0.7	2.9	1.3	35	<0.1	<0.1	<0.1	45	0.17	0.054	5



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Method	Analyte	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
		MDL	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
PP11 DH386	Soil	35	0.23	69	0.073	1	1.16	0.016	0.04	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
PP11 DH387	Soil	31	0.21	129	0.081	<1	1.83	0.022	0.04	<0.1	0.02	1.6	<0.1	0.08	6	<0.5	<0.2
PP11 DH388	Soil	33	0.22	110	0.079	<1	1.55	0.019	0.04	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
PP11 DH389	Soil	54	0.35	167	0.076	<1	2.02	0.017	0.03	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2



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QUALITY CONTROL REPORT

VAN11005203.1

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																					
PP11 DH133	Soil	0.4	11.5	4.7	54	<0.1	13.6	9.9	196	2.62	1.1	<0.5	2.4	22	<0.1	<0.1	0.1	71	0.16	0.109	4
REP PP11 DH133	QC	0.3	10.7	4.1	50	<0.1	12.9	9.1	181	2.40	0.9	0.8	2.4	21	<0.1	<0.1	0.2	62	0.15	0.102	3
PP11 DH149	Soil	0.2	32.1	3.2	62	<0.1	9.1	17.2	888	4.32	2.9	<0.5	1.7	72	0.2	0.3	0.2	122	0.99	0.201	11
REP PP11 DH149	QC	0.2	31.4	3.2	60	<0.1	9.3	17.0	876	4.21	2.6	<0.5	1.6	72	0.2	0.2	0.2	114	0.99	0.195	11
PP11 DH157	Soil	0.3	20.2	5.3	40	<0.1	22.7	8.8	443	2.03	0.8	1.9	1.9	54	<0.1	<0.1	0.2	49	0.33	0.028	15
REP PP11 DH157	QC	0.3	20.0	5.2	40	<0.1	22.5	8.9	435	2.04	0.8	0.8	1.9	52	<0.1	<0.1	0.2	50	0.32	0.028	14
PP11 DH189	Soil	0.2	6.0	4.6	29	<0.1	12.5	2.4	224	0.78	<0.5	1.3	0.3	15	<0.1	<0.1	<0.1	19	0.10	0.019	4
REP PP11 DH189	QC	0.2	5.7	4.6	28	<0.1	12.1	2.3	222	0.76	<0.5	<0.5	0.3	16	<0.1	<0.1	<0.1	18	0.10	0.018	3
PP11 DH199	Soil	0.3	12.2	5.1	40	<0.1	13.2	8.0	186	2.26	1.0	1.6	2.2	52	<0.1	0.1	0.1	59	0.21	0.075	4
REP PP11 DH199	QC	0.3	12.1	4.8	41	<0.1	13.8	8.5	190	2.22	0.9	2.5	1.8	53	<0.1	<0.1	0.1	59	0.21	0.076	4
PP11 DH216	Soil	1.7	78.8	4.0	57	0.1	33.9	12.2	346	3.53	3.6	37.8	1.6	77	<0.1	0.2	0.2	102	0.50	0.082	12
REP PP11 DH216	QC	1.7	77.4	4.0	55	0.2	34.6	12.0	349	3.55	3.4	8.8	1.9	78	<0.1	0.2	0.2	104	0.49	0.083	12
PP11 DH240	Soil	0.4	9.2	4.7	70	<0.1	16.7	5.0	501	1.39	0.8	3.6	1.1	24	<0.1	<0.1	0.1	32	0.14	0.092	3
REP PP11 DH240	QC	0.4	9.4	5.0	73	<0.1	16.6	5.2	500	1.41	0.6	3.6	1.2	24	<0.1	<0.1	<0.1	34	0.15	0.093	3
PP11 DH249	Soil	0.2	28.0	5.7	36	0.3	24.9	4.4	214	1.55	2.1	4.4	1.1	36	<0.1	0.1	0.1	40	0.24	0.023	8
REP PP11 DH249	QC	0.3	28.6	6.1	36	0.3	25.8	4.4	227	1.61	2.2	5.9	1.1	39	<0.1	0.1	0.1	42	0.25	0.024	9
PP11 DH271	Soil	0.2	12.8	7.2	34	<0.1	18.0	6.9	95	1.88	0.5	<0.5	1.0	84	<0.1	<0.1	0.1	46	0.24	0.080	3
REP PP11 DH271	QC	0.2	12.8	7.1	35	<0.1	18.4	7.0	93	1.88	0.5	0.6	1.2	86	<0.1	<0.1	0.1	46	0.25	0.083	3
PP11 DH295	Soil	1.1	14.9	4.6	72	<0.1	9.1	8.2	643	3.28	2.0	<0.5	1.4	20	<0.1	0.1	<0.1	74	1.13	0.031	4
REP PP11 DH295	QC	1.1	15.2	4.7	75	<0.1	9.5	8.1	656	3.32	1.9	<0.5	1.3	20	<0.1	0.2	<0.1	73	1.13	0.031	4
PP11 DH306	Soil	1.0	10.9	4.7	66	<0.1	12.1	6.2	442	1.72	1.4	2.1	0.8	19	<0.1	<0.1	<0.1	40	0.25	0.056	3
REP PP11 DH306	QC	1.0	10.7	4.8	66	<0.1	12.0	6.2	442	1.73	1.4	2.9	0.8	21	<0.1	<0.1	<0.1	40	0.26	0.056	3
PP11 DH319	Soil	0.6	29.7	4.0	47	0.1	26.3	7.8	142	2.05	3.1	0.5	1.0	28	<0.1	<0.1	<0.1	72	0.18	0.035	5
REP PP11 DH319	QC	0.7	29.8	4.1	47	<0.1	25.9	8.1	153	2.06	3.4	1.6	1.1	29	<0.1	<0.1	<0.1	74	0.19	0.037	6
PP11 DH352	Soil	0.2	28.9	2.9	46	<0.1	48.5	10.8	273	2.31	1.1	3.3	1.9	47	<0.1	0.1	<0.1	61	0.29	0.040	14
REP PP11 DH352	QC	0.2	27.1	2.7	45	<0.1	44.2	9.8	253	2.12	1.2	4.3	1.8	43	<0.1	<0.1	<0.1	58	0.27	0.036	13
PP11 DH369	Soil	0.3	9.8	4.2	47	<0.1	15.0	5.0	395	1.59	0.8	<0.5	1.0	43	<0.1	<0.1	<0.1	40	0.23	0.022	4
REP PP11 DH369	QC	0.3	9.6	4.2	46	<0.1	14.9	4.6	370	1.55	0.7	<0.5	0.9	42	<0.1	<0.1	<0.1	38	0.21	0.020	4

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Project: Princeton
 Report Date: October 23, 2011

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QUALITY CONTROL REPORT

VAN11005203.1

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																	
PP11 DH133	Soil	14	0.41	107	0.212	2	2.28	0.020	0.17	0.1	0.03	1.9	0.2	<0.05	8	<0.5	<0.2
REP PP11 DH133	QC	11	0.38	109	0.192	<1	2.12	0.017	0.17	<0.1	0.02	1.3	0.2	<0.05	7	<0.5	<0.2
PP11 DH149	Soil	16	1.27	103	0.051	2	2.48	0.018	0.17	<0.1	0.02	5.9	0.4	<0.05	9	<0.5	<0.2
REP PP11 DH149	QC	16	1.27	105	0.038	2	2.37	0.018	0.16	<0.1	<0.01	5.5	0.4	<0.05	8	<0.5	<0.2
PP11 DH157	Soil	53	0.57	57	0.086	1	1.74	0.027	0.07	<0.1	0.04	7.6	0.1	<0.05	5	<0.5	<0.2
REP PP11 DH157	QC	53	0.56	55	0.084	1	1.73	0.026	0.07	<0.1	0.04	7.4	<0.1	<0.05	5	<0.5	<0.2
PP11 DH189	Soil	12	0.11	56	0.052	<1	0.95	0.020	0.03	<0.1	0.03	0.7	<0.1	<0.05	4	<0.5	<0.2
REP PP11 DH189	QC	11	0.11	56	0.050	<1	0.94	0.019	0.03	<0.1	0.03	0.7	<0.1	<0.05	4	<0.5	<0.2
PP11 DH199	Soil	22	0.40	144	0.150	1	1.88	0.019	0.16	<0.1	0.02	1.7	0.1	<0.05	6	<0.5	<0.2
REP PP11 DH199	QC	23	0.40	148	0.150	<1	1.86	0.016	0.17	<0.1	0.02	1.7	0.1	<0.05	6	<0.5	<0.2
PP11 DH216	Soil	37	0.86	226	0.120	1	2.31	0.030	0.18	<0.1	0.02	6.9	0.1	<0.05	7	<0.5	<0.2
REP PP11 DH216	QC	38	0.86	216	0.119	1	2.31	0.029	0.18	<0.1	0.02	7.1	0.1	<0.05	6	<0.5	0.2
PP11 DH240	Soil	15	0.18	164	0.086	1	1.91	0.018	0.08	0.1	0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
REP PP11 DH240	QC	15	0.20	170	0.089	<1	2.09	0.023	0.09	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
PP11 DH249	Soil	30	0.31	140	0.076	<1	1.74	0.023	0.05	<0.1	0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
REP PP11 DH249	QC	31	0.32	147	0.077	<1	1.79	0.023	0.05	<0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
PP11 DH271	Soil	31	0.38	200	0.098	<1	2.32	0.024	0.09	<0.1	<0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
REP PP11 DH271	QC	31	0.41	201	0.100	<1	2.49	0.025	0.09	<0.1	<0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
PP11 DH295	Soil	15	0.35	105	0.171	<1	1.89	0.013	0.13	0.3	0.01	3.4	<0.1	<0.05	7	<0.5	<0.2
REP PP11 DH295	QC	15	0.36	109	0.172	<1	1.97	0.016	0.13	0.2	<0.01	3.6	<0.1	<0.05	7	<0.5	<0.2
PP11 DH306	Soil	14	0.25	140	0.098	1	1.76	0.016	0.10	0.2	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
REP PP11 DH306	QC	14	0.25	146	0.102	2	1.88	0.021	0.10	0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
PP11 DH319	Soil	42	0.58	294	0.161	<1	1.72	0.017	0.14	<0.1	0.02	3.9	0.1	<0.05	6	<0.5	<0.2
REP PP11 DH319	QC	43	0.60	301	0.170	<1	1.81	0.018	0.15	<0.1	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
PP11 DH352	Soil	102	0.88	93	0.085	<1	1.68	0.026	0.07	<0.1	0.02	5.3	<0.1	<0.05	5	<0.5	<0.2
REP PP11 DH352	QC	93	0.83	90	0.075	<1	1.58	0.033	0.06	<0.1	0.01	4.4	0.1	<0.05	4	0.5	<0.2
PP11 DH369	Soil	34	0.26	207	0.111	<1	1.63	0.040	0.13	<0.1	0.02	2.0	0.2	<0.05	5	<0.5	<0.2
REP PP11 DH369	QC	32	0.27	199	0.106	1	1.60	0.029	0.13	<0.1	0.01	2.0	0.1	<0.05	5	<0.5	<0.2

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Project: Princeton
 Report Date: October 23, 2011

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QUALITY CONTROL REPORT

VAN11005203.1

		1DX15 Mo ppm	1DX15 Cu ppm	1DX15 Pb ppm	1DX15 Zn ppm	1DX15 Ag ppm	1DX15 Ni ppm	1DX15 Co ppm	1DX15 Mn ppm	1DX15 Fe %	1DX15 As ppm	1DX15 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
		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
PP11 DH372	Soil	0.5	8.5	4.5	55	<0.1	16.3	4.7	184	1.37	0.6	5.5	0.8	20	<0.1	<0.1	<0.1	32	0.14	0.052	3
REP PP11 DH372	QC	0.4	8.1	4.4	49	<0.1	16.9	4.7	181	1.33	<0.5	1.5	0.7	19	<0.1	<0.1	<0.1	32	0.12	0.047	3
PP11 DH375	Soil	0.4	11.4	4.5	61	0.1	23.6	5.3	211	1.47	0.9	2.0	1.2	22	<0.1	<0.1	<0.1	32	0.13	0.151	3
REP PP11 DH375	QC	0.4	10.8	4.8	60	0.1	24.0	5.5	225	1.49	1.0	3.2	1.1	22	<0.1	<0.1	<0.1	34	0.13	0.155	3
Reference Materials																					
STD DS8	Standard	12.1	98.3	113.1	287	1.8	34.5	6.5	576	2.25	23.9	100.4	6.0	68	2.0	5.4	6.3	38	0.64	0.069	15
STD DS8	Standard	14.0	117.1	131.1	337	1.9	42.2	8.3	639	2.67	27.8	131.5	7.2	77	2.7	6.0	7.4	44	0.74	0.088	17
STD DS8	Standard	13.7	111.8	120.3	309	1.8	36.5	7.6	609	2.44	25.5	110.1	6.7	67	2.5	5.5	6.5	41	0.68	0.076	15
STD DS8	Standard	13.2	106.8	124.2	314	1.8	37.4	7.5	621	2.48	26.0	121.5	6.9	71	2.4	5.7	6.8	41	0.70	0.081	16
STD DS8	Standard	14.1	118.3	125.1	329	1.9	40.8	7.7	643	2.62	24.6	123.1	6.3	64	2.3	5.4	6.2	43	0.74	0.081	16
STD DS8	Standard	14.0	115.7	123.4	303	1.7	38.8	7.7	624	2.40	24.9	109.4	7.1	67	2.4	5.4	6.3	41	0.68	0.079	16
STD DS8	Standard	13.5	111.8	130.2	324	1.9	38.9	7.4	614	2.52	23.8	110.9	6.4	63	2.3	5.4	5.9	41	0.70	0.079	15
STD DS8	Standard	13.6	108.3	121.9	310	1.7	38.4	8.0	622	2.50	22.6	115.9	6.3	65	2.2	5.2	5.7	43	0.68	0.075	15
STD DS8	Standard	11.3	97.7	119.7	286	1.7	33.6	7.0	546	2.19	24.6	101.7	6.7	61	2.2	5.3	6.3	39	0.62	0.074	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	0.02	<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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Project: Princeton
 Report Date: October 23, 2011

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QUALITY CONTROL REPORT

VAN11005203.1

		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
PP11 DH372	Soil	22	0.23	128	0.090	<1	1.56	0.020	0.11	<0.1	0.01	1.5	<0.1	0.09	5	<0.5	<0.2
REP PP11 DH372	QC	21	0.22	126	0.085	<1	1.54	0.019	0.10	<0.1	0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
PP11 DH375	Soil	18	0.17	162	0.080	<1	1.74	0.021	0.05	<0.1	0.02	1.5	<0.1	0.05	6	<0.5	<0.2
REP PP11 DH375	QC	19	0.18	166	0.081	<1	1.77	0.021	0.05	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	104	0.59	266	0.108	2	0.87	0.112	0.43	2.9	0.20	2.5	5.0	0.12	5	5.9	4.4
STD DS8	Standard	121	0.69	316	0.125	4	1.08	0.111	0.47	3.3	0.22	3.0	5.9	0.20	5	5.2	5.4
STD DS8	Standard	115	0.60	283	0.116	2	0.94	0.101	0.43	3.0	0.20	2.7	5.5	0.17	5	4.8	5.1
STD DS8	Standard	116	0.61	286	0.123	2	0.94	0.103	0.42	2.9	0.19	2.1	5.4	0.12	5	5.0	5.1
STD DS8	Standard	131	0.65	272	0.120	3	0.96	0.105	0.44	3.2	0.20	2.3	5.3	0.18	5	5.4	5.2
STD DS8	Standard	112	0.58	265	0.117	3	0.86	0.081	0.39	2.9	0.19	1.9	5.3	0.24	5	4.8	4.8
STD DS8	Standard	124	0.63	263	0.110	2	0.92	0.089	0.40	3.0	0.20	2.0	5.6	0.18	5	5.2	5.0
STD DS8	Standard	121	0.61	268	0.111	3	0.93	0.102	0.43	3.1	0.18	2.6	5.5	0.13	5	5.1	5.0
STD DS8	Standard	104	0.55	273	0.112	1	0.81	0.077	0.37	2.9	0.20	2.1	5.1	0.09	4	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
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 03, 2011
Report Date: October 20, 2011
Page: 1 of 9

CERTIFICATE OF ANALYSIS

VAN11005204.1

CLIENT JOB INFORMATION

Project: Princeton
Shipment ID:
P.O. Number
Number of Samples: 212

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	212	Dry at 60C			VAN
SS80	209	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	212	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: October 20, 2011

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CERTIFICATE OF ANALYSIS

VAN11005204.1

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
PP11 MRP121	Soil			0.4	8.2	4.9	51	<0.1	11.8	5.7	390	1.52	<0.5	2.7	1.0	33	<0.1	<0.1	0.1	47	0.18	0.026	3	
PP11 MRP122	Soil			0.4	7.7	3.4	43	<0.1	11.5	5.1	191	1.52	<0.5	0.7	0.9	32	<0.1	<0.1	<0.1	49	0.19	0.031	2	
PP11 MRP123	Soil			0.4	64.0	3.7	81	<0.1	38.4	22.0	1138	4.10	1.0	1.9	2.3	172	<0.1	0.2	0.2	103	0.69	0.062	10	
PP11 MRP124	Soil			0.4	16.0	4.0	34	<0.1	22.5	7.9	157	1.90	0.7	1.0	1.7	53	<0.1	<0.1	<0.1	68	0.25	0.016	5	
PP11 MRP125	Soil			0.4	12.4	4.2	49	<0.1	20.6	9.1	487	2.04	0.5	<0.5	1.5	44	<0.1	<0.1	<0.1	63	0.25	0.019	6	
PP11 MRP126	Soil			0.3	9.4	3.4	44	<0.1	14.5	6.6	227	1.80	<0.5	0.6	1.3	29	<0.1	<0.1	<0.1	50	0.17	0.026	4	
PP11 MRP127	Soil			0.4	11.4	3.3	59	<0.1	15.7	7.6	301	2.21	<0.5	<0.5	1.5	58	<0.1	<0.1	<0.1	64	0.36	0.037	8	
PP11 MRP128	Soil			0.4	10.5	2.5	52	<0.1	13.9	6.7	201	2.09	<0.5	<0.5	1.3	52	<0.1	<0.1	<0.1	66	0.38	0.054	6	
PP11 MRP129	Soil			0.4	8.4	3.6	42	<0.1	11.6	4.6	182	1.65	<0.5	<0.5	1.2	44	<0.1	<0.1	0.1	47	0.27	0.028	3	
PP11 MRP130	Soil			0.3	13.4	3.7	35	<0.1	21.3	6.2	140	1.98	0.7	<0.5	1.1	52	<0.1	<0.1	<0.1	57	0.25	0.037	3	
PP11 MRP131	Soil			0.4	8.8	5.0	43	<0.1	14.0	5.2	174	1.49	<0.5	<0.5	0.9	38	<0.1	<0.1	0.1	41	0.19	0.058	2	
PP11 MRP132	Soil			0.4	8.7	4.1	60	<0.1	13.0	5.1	294	1.47	<0.5	<0.5	0.9	23	<0.1	<0.1	<0.1	37	0.14	0.083	3	
PP11 MRP133	Soil			0.5	14.7	3.2	35	<0.1	15.6	7.5	142	2.01	<0.5	<0.5	1.3	43	<0.1	<0.1	<0.1	79	0.21	0.013	4	
PP11 MRP134	Soil			0.5	21.7	3.6	40	<0.1	25.3	8.6	173	2.38	0.8	<0.5	1.8	55	<0.1	<0.1	<0.1	81	0.28	0.020	6	
PP11 MRP135	Soil			0.2	12.1	5.3	51	<0.1	16.8	5.5	294	1.49	0.8	<0.5	0.9	39	<0.1	<0.1	<0.1	37	0.31	0.054	3	
PP11 MRP136	Soil			0.5	43.8	5.3	136	0.1	47.6	19.4	1865	2.89	3.4	0.9	2.1	176	0.2	0.2	<0.1	92	2.12	0.171	16	
PP11 MRP137	Soil			0.3	13.3	4.9	73	<0.1	19.2	6.3	258	1.47	0.7	0.6	0.8	28	<0.1	<0.1	<0.1	37	0.18	0.058	4	
PP11 MRP138	Soil			0.4	28.2	4.6	51	<0.1	24.4	7.9	262	2.23	1.5	2.0	1.7	58	<0.1	0.1	<0.1	65	0.33	0.029	7	
PP11 MRP139	Soil			0.4	16.9	5.2	52	<0.1	23.5	7.0	281	1.80	1.4	1.9	1.2	33	<0.1	<0.1	<0.1	43	0.21	0.091	4	
PP11 MRP140	Soil			0.5	17.3	6.4	61	<0.1	22.8	7.2	195	1.79	1.8	1.3	1.7	22	<0.1	<0.1	0.1	40	0.14	0.112	4	
PP11 MRP141	Soil			0.3	11.0	4.5	40	<0.1	15.4	4.2	106	1.46	1.1	<0.5	0.8	25	<0.1	<0.1	<0.1	31	0.14	0.106	3	
PP11 MRP142	Soil			0.3	16.5	5.4	41	<0.1	20.6	8.3	253	1.86	1.0	1.6	1.2	36	<0.1	<0.1	<0.1	52	0.23	0.018	4	
PP11 MRP143	Soil			0.4	12.2	5.7	62	<0.1	22.3	5.7	319	1.48	1.5	<0.5	1.5	21	<0.1	<0.1	0.1	34	0.13	0.116	4	
PP11 MRP144	Soil			0.8	13.8	6.9	77	0.2	27.7	7.5	330	1.87	1.6	1.8	1.1	25	<0.1	0.1	0.1	44	0.17	0.079	3	
PP11 MRP145	Soil			0.6	11.2	5.3	52	0.1	20.9	5.9	171	1.63	1.0	1.9	1.0	22	<0.1	<0.1	0.1	37	0.15	0.098	3	
PP11 MRP146	Soil			0.3	10.6	5.4	53	<0.1	21.4	6.7	553	1.55	0.6	18.1	0.9	28	<0.1	<0.1	0.1	35	0.17	0.080	3	
PP11 MRP147	Soil			0.2	12.2	4.7	31	<0.1	13.9	4.2	119	1.22	1.0	0.8	0.7	26	<0.1	<0.1	<0.1	32	0.18	0.022	4	
PP11 MRP148	Soil			0.4	8.2	6.1	30	<0.1	12.9	3.6	126	1.28	0.9	<0.5	0.6	20	<0.1	<0.1	<0.1	27	0.15	0.087	2	
PP11 MRP149	Soil			0.2	12.6	4.8	43	<0.1	19.2	4.7	323	1.38	1.1	<0.5	0.9	25	<0.1	<0.1	<0.1	32	0.17	0.064	4	
PP11 MRP150	Soil			0.5	16.2	7.2	59	<0.1	25.7	6.3	199	1.79	1.6	4.9	1.2	30	0.1	0.1	0.1	46	0.21	0.056	4	

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Project: Princeton
 Report Date: October 20, 2011

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CERTIFICATE OF ANALYSIS

VAN11005204.1

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	
PP11 MRP121	Soil	19	0.25	106	0.090	1	1.39	0.031	0.09	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP122	Soil	21	0.22	75	0.091	2	1.05	0.028	0.11	<0.1	0.01	2.2	<0.1	<0.05	3	<0.5	<0.2
PP11 MRP123	Soil	45	1.77	116	0.079	1	2.08	0.043	0.11	<0.1	0.01	10.3	0.1	<0.05	6	<0.5	<0.2
PP11 MRP124	Soil	43	0.44	58	0.102	<1	1.02	0.053	0.06	<0.1	0.01	5.0	<0.1	<0.05	3	<0.5	<0.2
PP11 MRP125	Soil	50	0.42	109	0.116	<1	1.28	0.040	0.08	<0.1	0.02	4.9	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP126	Soil	41	0.38	49	0.086	1	1.29	0.030	0.06	<0.1	0.02	4.6	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP127	Soil	39	0.52	98	0.089	2	1.34	0.041	0.06	<0.1	0.02	5.2	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP128	Soil	41	0.50	86	0.090	<1	1.15	0.043	0.10	<0.1	0.02	4.2	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP129	Soil	28	0.33	112	0.089	1	1.36	0.034	0.08	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP130	Soil	32	0.41	106	0.093	<1	1.68	0.036	0.08	<0.1	0.02	3.4	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP131	Soil	22	0.30	111	0.081	1	1.66	0.028	0.05	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP132	Soil	16	0.22	130	0.076	<1	1.52	0.032	0.07	<0.1	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP133	Soil	28	0.43	55	0.086	<1	1.17	0.048	0.05	<0.1	0.01	4.4	<0.1	<0.05	3	<0.5	<0.2
PP11 MRP134	Soil	41	0.67	73	0.094	<1	1.49	0.052	0.08	<0.1	0.02	5.7	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP135	Soil	20	0.29	105	0.088	3	1.70	0.039	0.14	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP136	Soil	57	1.01	262	0.097	10	1.93	0.099	0.31	<0.1	<0.01	8.4	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP137	Soil	22	0.25	114	0.080	<1	1.70	0.029	0.05	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP138	Soil	44	0.56	119	0.123	<1	1.78	0.044	0.11	<0.1	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP139	Soil	29	0.33	171	0.092	<1	2.15	0.025	0.10	<0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP140	Soil	24	0.28	172	0.108	<1	2.99	0.026	0.08	<0.1	0.04	2.5	<0.1	<0.05	8	<0.5	<0.2
PP11 MRP141	Soil	16	0.17	149	0.077	<1	1.80	0.026	0.04	0.2	0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP142	Soil	37	0.45	104	0.106	<1	1.78	0.031	0.07	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP143	Soil	18	0.20	152	0.091	<1	2.12	0.025	0.07	<0.1	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP144	Soil	22	0.26	148	0.097	<1	2.47	0.023	0.08	0.2	0.04	2.2	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP145	Soil	18	0.21	125	0.083	<1	1.91	0.025	0.07	0.2	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP146	Soil	19	0.21	153	0.079	<1	1.79	0.023	0.09	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP147	Soil	17	0.21	106	0.083	<1	1.22	0.033	0.07	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP148	Soil	15	0.16	96	0.072	<1	1.47	0.027	0.05	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP149	Soil	22	0.22	145	0.072	<1	1.51	0.027	0.05	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP150	Soil	28	0.31	156	0.087	<1	1.75	0.036	0.08	<0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2

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Project: Princeton
 Report Date: October 20, 2011

Page: 3 of 9 Part 1

CERTIFICATE OF ANALYSIS

VAN11005204.1

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		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	
PMS-117	Rock Pulp	123.0	4023	24.8	66	2.7	37.2	21.4	427	4.41	55.2	513.6	2.1	31	0.5	3.4	0.4	124	0.33	0.099	11
PP11 MRP151	Soil	1.0	20.8	7.3	55	0.2	28.8	7.6	146	1.92	2.4	9.8	1.2	22	<0.1	0.1	0.1	48	0.15	0.100	4
PP11 MRP152	Soil	0.3	13.6	5.9	45	0.2	21.9	5.6	74	1.66	1.7	0.8	1.4	25	0.1	<0.1	<0.1	38	0.16	0.185	4
PP11 MRP153	Soil	0.5	17.5	6.8	40	0.4	21.4	5.7	65	1.79	2.6	2.2	1.8	14	0.1	<0.1	0.1	40	0.10	0.294	4
PP11 MRP154	Soil	0.6	11.5	6.9	50	0.4	19.8	4.9	276	1.53	1.8	1.0	1.1	22	<0.1	<0.1	0.1	34	0.16	0.184	3
PP11 MRP155	Soil	0.6	11.4	5.9	34	0.1	26.9	5.4	74	1.54	1.5	<0.5	1.2	19	<0.1	<0.1	0.1	32	0.10	0.153	2
PP11 MRP156	Soil	0.4	11.8	5.1	35	<0.1	38.7	6.4	126	1.59	1.5	<0.5	1.0	23	<0.1	<0.1	0.1	36	0.15	0.103	3
PP11 MRP157	Soil	0.6	10.2	4.9	39	<0.1	23.2	5.1	69	1.56	1.7	<0.5	0.9	16	<0.1	<0.1	0.1	35	0.11	0.165	2
PP11 MRP158	Soil	0.3	8.5	4.2	25	<0.1	15.3	3.1	115	0.95	0.9	<0.5	0.5	19	<0.1	<0.1	<0.1	23	0.12	0.055	2
PP11 MRP159	Soil	0.2	12.9	6.3	26	<0.1	18.6	3.6	188	1.07	0.8	<0.5	0.6	30	<0.1	<0.1	0.1	26	0.19	0.022	5
PP11 MRP160	Soil	0.2	12.3	4.3	30	<0.1	16.5	3.2	64	1.17	1.1	<0.5	0.7	24	<0.1	<0.1	0.1	26	0.14	0.064	4
PP11 MRP161	Soil	0.3	11.5	5.1	61	<0.1	30.3	6.0	131	1.55	1.4	<0.5	1.2	22	<0.1	<0.1	<0.1	32	0.12	0.182	3
PP11 MRP162	Soil	0.1	8.5	5.0	34	<0.1	15.7	3.1	116	1.03	0.9	<0.5	0.5	25	<0.1	<0.1	<0.1	24	0.14	0.025	3
PP11 MRP163	Soil	0.4	10.6	6.0	76	<0.1	35.7	5.7	243	1.42	0.9	<0.5	1.0	31	<0.1	<0.1	0.1	32	0.17	0.114	4
PP11 MRP164	Soil	0.2	9.3	4.1	32	<0.1	14.1	2.7	233	1.08	0.6	<0.5	0.4	24	<0.1	<0.1	<0.1	24	0.13	0.021	3
PP11 MRP165	Soil	0.1	14.2	7.1	29	<0.1	20.9	3.2	195	1.17	0.9	<0.5	0.9	32	<0.1	<0.1	0.1	25	0.16	0.022	5
PP11 MRP166	Soil	0.2	11.9	5.0	42	<0.1	20.1	4.4	191	1.18	0.7	<0.5	0.8	29	<0.1	<0.1	<0.1	29	0.17	0.016	5
PP11 MRP167	Soil	0.2	30.9	7.2	44	<0.1	38.4	11.3	338	2.29	1.3	<0.5	2.5	128	<0.1	0.1	0.1	67	0.53	0.053	30
PP11 MRP168	Soil	0.2	13.4	5.4	42	<0.1	16.0	8.7	231	2.27	1.0	1.1	2.4	129	<0.1	<0.1	0.1	63	0.28	0.023	6
PP11 MRP169	Soil	0.3	13.0	5.6	42	<0.1	19.9	5.6	90	1.76	1.5	<0.5	2.0	24	<0.1	<0.1	0.1	43	0.13	0.220	5
PP11 MRP170	Soil	0.5	17.1	5.2	51	<0.1	14.2	10.1	265	2.76	1.4	<0.5	3.5	32	<0.1	0.1	0.1	74	0.24	0.127	5
PP11 MRP171	Soil	0.2	6.3	3.8	23	<0.1	7.2	3.9	97	1.23	0.6	<0.5	1.2	31	<0.1	<0.1	<0.1	36	0.16	0.019	5
PP11 MRP172	Soil	0.9	8.1	5.5	48	<0.1	8.6	6.5	152	2.26	1.6	<0.5	3.4	14	<0.1	<0.1	0.1	62	0.13	0.112	3
PP11 MRP173	Soil	0.8	9.4	5.5	35	<0.1	11.5	6.2	126	1.95	1.7	<0.5	2.0	21	<0.1	<0.1	0.1	46	0.14	0.177	3
PP11 MRP174	Soil	0.4	27.1	4.0	43	<0.1	19.2	9.2	230	2.50	1.4	1.3	2.3	51	<0.1	0.1	<0.1	67	0.30	0.032	7
PP11 MRP175	Soil	0.8	8.7	6.2	41	<0.1	15.4	6.0	114	1.98	1.7	<0.5	2.0	19	<0.1	<0.1	0.1	46	0.11	0.177	5
PP11 MRP176	Soil	0.1	22.7	6.9	41	<0.1	21.5	8.5	212	2.58	0.7	<0.5	3.4	67	<0.1	<0.1	0.1	58	0.40	0.036	22
PP11 MRP177	Soil	0.2	17.0	4.3	38	<0.1	10.2	8.2	256	2.03	0.7	<0.5	2.0	42	<0.1	<0.1	<0.1	56	0.28	0.027	9
PP11 MRP178	Soil	0.4	22.0	4.9	45	0.1	16.1	8.5	144	2.42	1.5	0.8	2.0	35	<0.1	<0.1	0.1	66	0.25	0.102	8
PP11 MRP179	Soil	0.8	18.1	5.2	52	0.1	15.7	8.9	170	2.34	1.8	<0.5	2.0	27	<0.1	<0.1	0.1	60	0.20	0.160	6

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Project: Princeton
 Report Date: October 20, 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	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	
PMS-117	Rock Pulp	53	0.92	51	0.118	<1	1.41	0.054	0.94	4.7	0.07	10.5	0.5	1.98	6	6.5	0.9
PP11 MRP151	Soil	31	0.33	105	0.091	<1	2.57	0.019	0.07	<0.1	0.03	2.5	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP152	Soil	21	0.21	115	0.091	<1	2.14	0.026	0.05	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP153	Soil	18	0.18	108	0.111	1	3.03	0.023	0.05	<0.1	0.04	2.7	<0.1	<0.05	8	<0.5	<0.2
PP11 MRP154	Soil	19	0.19	113	0.081	<1	2.19	0.022	0.05	<0.1	0.04	2.0	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP155	Soil	16	0.15	109	0.087	<1	2.27	0.019	0.04	<0.1	0.02	1.8	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP156	Soil	25	0.23	117	0.073	2	2.11	0.020	0.05	<0.1	0.03	1.6	<0.1	0.09	6	<0.5	<0.2
PP11 MRP157	Soil	17	0.12	78	0.077	2	1.98	0.020	0.04	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP158	Soil	14	0.11	81	0.051	2	1.19	0.016	0.04	<0.1	0.02	1.1	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP159	Soil	21	0.21	89	0.065	1	1.87	0.024	0.04	<0.1	0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP160	Soil	17	0.13	118	0.066	1	1.60	0.019	0.04	<0.1	0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP161	Soil	30	0.17	138	0.076	2	2.29	0.019	0.05	<0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP162	Soil	17	0.14	75	0.063	1	1.40	0.026	0.03	<0.1	<0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP163	Soil	33	0.17	115	0.078	2	2.26	0.018	0.06	<0.1	0.02	1.3	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP164	Soil	19	0.15	89	0.060	<1	1.56	0.023	0.03	<0.1	0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP165	Soil	25	0.20	110	0.086	2	2.20	0.024	0.04	<0.1	<0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP166	Soil	30	0.27	89	0.081	<1	1.63	0.022	0.04	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP167	Soil	65	0.71	121	0.135	2	2.17	0.029	0.19	<0.1	0.03	7.4	0.2	<0.05	6	<0.5	<0.2
PP11 MRP168	Soil	27	0.50	161	0.130	2	1.75	0.029	0.25	<0.1	0.01	2.7	0.2	<0.05	5	<0.5	<0.2
PP11 MRP169	Soil	15	0.17	81	0.103	2	2.50	0.016	0.08	<0.1	0.02	2.4	<0.1	<0.05	8	<0.5	<0.2
PP11 MRP170	Soil	16	0.48	115	0.157	2	2.17	0.014	0.21	0.2	0.03	2.3	0.1	<0.05	7	<0.5	<0.2
PP11 MRP171	Soil	10	0.20	70	0.095	1	0.88	0.016	0.08	<0.1	<0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP172	Soil	10	0.24	61	0.160	1	1.82	0.015	0.09	0.1	0.03	1.2	<0.1	<0.05	8	<0.5	<0.2
PP11 MRP173	Soil	10	0.14	78	0.118	2	2.56	0.017	0.06	0.1	0.03	1.3	<0.1	<0.05	8	<0.5	<0.2
PP11 MRP174	Soil	35	0.59	143	0.139	1	1.92	0.018	0.16	<0.1	0.01	3.0	0.2	<0.05	5	<0.5	<0.2
PP11 MRP175	Soil	13	0.15	85	0.121	2	2.39	0.016	0.06	0.1	0.03	1.6	<0.1	<0.05	8	<0.5	<0.2
PP11 MRP176	Soil	37	0.59	139	0.161	1	2.70	0.021	0.20	<0.1	0.02	6.7	0.2	<0.05	7	<0.5	<0.2
PP11 MRP177	Soil	17	0.48	122	0.164	1	1.50	0.021	0.25	<0.1	0.01	2.6	0.2	<0.05	5	<0.5	<0.2
PP11 MRP178	Soil	19	0.38	164	0.132	<1	2.07	0.015	0.11	0.1	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP179	Soil	18	0.33	153	0.130	1	2.13	0.018	0.09	0.2	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2

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Project: Princeton
 Report Date: October 20, 2011

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CERTIFICATE OF ANALYSIS

VAN11005204.1

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		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	
PP11 MRP180	Soil	0.7	19.5	4.4	47	0.2	9.2	9.3	248	2.82	1.6	<0.5	1.4	35	<0.1	0.1	0.2	87	0.47	0.061	5
PP11 MRP181	Soil	0.2	14.5	4.3	24	0.1	8.5	6.2	213	1.91	1.4	<0.5	0.9	46	<0.1	<0.1	0.1	45	0.51	0.033	4
PP11 MRP182	Soil	0.4	33.8	4.5	67	<0.1	20.3	15.7	472	3.83	2.2	4.8	2.6	52	0.1	0.2	0.1	127	0.71	0.091	10
PP11 MRP183	Soil	1.5	115.0	2.1	53	0.1	16.9	18.6	344	5.51	10.2	4.7	1.1	74	<0.1	0.2	0.1	138	0.73	0.146	8
PP11 MRP184	Soil	0.8	30.6	3.1	68	0.1	20.6	12.9	252	2.97	1.9	1.5	1.1	32	<0.1	0.1	0.1	86	0.35	0.074	4
PP11 MRP185	Soil	1.5	32.5	4.2	79	0.2	24.2	9.7	382	2.57	3.0	<0.5	1.3	36	<0.1	0.1	0.1	73	0.34	0.108	5
PP11 MRP186	Soil	1.4	20.1	3.9	77	0.1	17.7	8.1	278	2.21	1.8	<0.5	0.8	25	<0.1	<0.1	0.1	56	0.23	0.054	3
PP11 MRP187	Soil	2.1	28.4	4.3	76	0.1	18.6	9.1	622	2.25	2.0	<0.5	0.8	27	<0.1	<0.1	0.1	60	0.27	0.068	3
PP11 MRP188	Soil	2.3	20.6	4.2	113	0.1	20.6	8.8	566	2.11	2.7	0.8	1.1	19	0.2	<0.1	0.2	50	0.22	0.135	3
PP11 MRP189	Soil	1.7	25.3	4.0	97	0.1	21.1	9.0	334	2.43	4.3	<0.5	1.1	23	0.2	<0.1	0.1	66	0.25	0.144	3
PP11 MRP190	Soil	1.4	33.2	3.5	55	<0.1	22.5	10.4	166	2.72	5.2	<0.5	1.2	39	<0.1	0.1	<0.1	85	0.33	0.079	4
PP11 MRP191	Soil	0.3	14.2	3.8	45	0.1	13.3	6.5	123	1.90	0.8	<0.5	0.8	29	<0.1	<0.1	<0.1	52	0.22	0.052	3
PP11 MRP192	Soil	0.5	8.6	3.8	46	<0.1	14.4	5.1	299	1.39	0.9	1.3	0.9	25	<0.1	<0.1	0.2	36	0.18	0.151	3
PP11 MRP193	Soil	0.5	9.5	4.1	47	<0.1	18.5	6.4	177	1.59	0.9	0.9	0.9	19	<0.1	<0.1	0.1	46	0.11	0.069	3
PP11 MRP194	Soil	0.4	13.1	4.0	44	<0.1	18.9	6.3	248	1.86	0.8	1.6	1.0	31	<0.1	<0.1	<0.1	56	0.19	0.032	4
PP11 MRP195	Soil	0.4	11.6	3.2	41	<0.1	14.2	5.8	267	1.72	<0.5	1.3	1.0	30	<0.1	<0.1	<0.1	57	0.20	0.023	4
PP11 MRP196	Soil	0.3	7.8	3.6	48	<0.1	12.8	5.2	376	1.39	<0.5	0.6	0.5	24	<0.1	<0.1	<0.1	40	0.17	0.041	2
PP11 MRP197	Soil	0.5	8.4	3.9	54	<0.1	14.8	5.5	470	1.49	0.7	<0.5	0.9	24	<0.1	<0.1	<0.1	39	0.14	0.085	3
PP11 MRP198	Soil	0.3	4.5	1.9	46	<0.1	6.5	3.7	238	1.22	<0.5	<0.5	0.5	15	<0.1	<0.1	<0.1	33	0.09	0.053	2
PP11 MRP199	Soil	0.3	11.4	3.4	50	<0.1	19.9	6.1	119	1.71	0.8	<0.5	1.1	29	<0.1	<0.1	<0.1	46	0.17	0.078	4
PP11 MRP200	Soil	0.2	11.1	2.9	35	<0.1	14.7	4.3	219	1.43	0.6	<0.5	0.9	32	<0.1	<0.1	<0.1	39	0.21	0.022	6
PMS-101	Rock Pulp	130.3	3925	22.1	64	2.5	38.9	21.4	424	4.47	51.9	542.1	2.2	28	0.3	3.5	0.4	134	0.33	0.096	14
PP11 MRP201	Soil	0.4	15.3	4.5	64	<0.1	19.3	6.0	221	1.68	1.1	<0.5	1.0	29	<0.1	<0.1	0.1	40	0.22	0.103	4
PP11 MRP202	Soil	0.3	8.8	3.6	43	<0.1	10.5	4.1	97	1.52	1.0	<0.5	0.9	25	<0.1	<0.1	<0.1	39	0.19	0.079	3
PP11 MRP203	Soil	0.2	13.1	2.7	29	<0.1	14.2	4.6	369	1.32	0.7	0.6	0.7	28	<0.1	<0.1	<0.1	34	0.19	0.016	8
PP11 MRP204	Soil	0.3	9.0	4.0	67	<0.1	15.1	5.6	241	1.52	0.8	1.3	0.9	20	<0.1	<0.1	0.2	37	0.16	0.085	3
PP11 MRP205	Soil	0.3	12.1	3.7	54	<0.1	17.6	5.5	114	1.75	0.7	1.0	1.0	31	<0.1	<0.1	0.1	45	0.22	0.043	5
PP11 MRP206	Soil	0.2	22.5	3.2	37	0.1	17.1	5.1	653	1.63	0.7	0.6	0.9	41	<0.1	0.1	<0.1	42	0.31	0.017	10
PP11 MRP207	Soil	0.5	15.0	4.1	61	<0.1	11.9	6.9	438	1.81	0.9	1.4	0.7	28	<0.1	<0.1	<0.1	46	0.21	0.047	3
PP11 MRP208	Soil	0.4	13.0	4.6	83	<0.1	15.2	7.1	433	1.77	1.0	1.2	1.0	25	<0.1	<0.1	<0.1	41	0.20	0.089	3

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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	0.01	0.05	1	0.5	0.2
PP11 MRP180	Soil	15	0.43	152	0.150	1	1.87	0.020	0.11	0.2	0.01	2.8	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP181	Soil	12	0.33	170	0.094	<1	2.09	0.039	0.07	<0.1	0.03	2.8	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP182	Soil	29	0.83	153	0.161	2	2.71	0.026	0.15	0.3	0.01	6.7	<0.1	<0.05	8	<0.5	<0.2
PP11 MRP183	Soil	28	0.67	81	0.093	<1	2.37	0.025	0.07	<0.1	0.01	5.3	<0.1	0.05	7	<0.5	0.4
PP11 MRP184	Soil	27	0.63	140	0.125	<1	2.52	0.024	0.16	<0.1	<0.01	3.8	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP185	Soil	22	0.45	209	0.112	<1	2.34	0.023	0.13	<0.1	0.02	3.8	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP186	Soil	14	0.32	186	0.102	<1	2.15	0.016	0.10	<0.1	0.01	2.4	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP187	Soil	15	0.36	189	0.100	1	1.94	0.014	0.13	<0.1	0.03	2.8	<0.1	<0.05	6	0.5	<0.2
PP11 MRP188	Soil	12	0.28	155	0.087	2	2.01	0.019	0.07	0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP189	Soil	18	0.37	186	0.097	<1	1.92	0.015	0.11	0.2	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP190	Soil	30	0.52	178	0.110	<1	1.92	0.021	0.15	<0.1	0.01	3.8	0.2	<0.05	5	<0.5	<0.2
PP11 MRP191	Soil	20	0.32	112	0.104	<1	1.60	0.021	0.14	<0.1	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP192	Soil	16	0.20	120	0.071	3	1.42	0.017	0.07	<0.1	0.04	2.2	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP193	Soil	21	0.25	101	0.087	3	1.77	0.020	0.06	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP194	Soil	27	0.36	68	0.094	2	1.83	0.025	0.08	<0.1	0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP195	Soil	23	0.30	53	0.092	2	1.30	0.029	0.07	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP196	Soil	16	0.21	90	0.081	2	1.40	0.023	0.09	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP197	Soil	18	0.22	118	0.078	2	1.69	0.017	0.07	<0.1	0.03	1.9	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP198	Soil	16	0.15	43	0.062	2	0.87	0.024	0.03	<0.1	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
PP11 MRP199	Soil	21	0.30	120	0.085	1	1.88	0.026	0.06	<0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP200	Soil	21	0.25	66	0.074	1	1.28	0.029	0.06	<0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
PMS-101	Rock Pulp	57	0.98	46	0.119	3	1.44	0.042	1.02	5.2	0.08	12.3	0.6	2.15	6	6.8	0.9
PP11 MRP201	Soil	24	0.30	136	0.096	2	2.07	0.022	0.12	<0.1	0.03	2.5	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP202	Soil	19	0.30	77	0.088	2	1.69	0.022	0.12	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP203	Soil	18	0.23	54	0.066	<1	1.22	0.029	0.06	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP204	Soil	15	0.23	117	0.086	1	1.92	0.022	0.07	<0.1	0.02	1.9	0.1	<0.05	6	<0.5	<0.2
PP11 MRP205	Soil	26	0.32	113	0.104	1	1.83	0.029	0.09	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP206	Soil	26	0.30	47	0.074	1	1.60	0.030	0.05	<0.1	0.03	6.5	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP207	Soil	25	0.37	79	0.105	1	1.60	0.018	0.16	<0.1	0.02	2.4	0.1	<0.05	5	<0.5	<0.2
PP11 MRP208	Soil	19	0.27	145	0.102	1	2.23	0.019	0.10	<0.1	0.02	2.0	<0.1	<0.05	7	<0.5	<0.2

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Project: Princeton
 Report Date: October 20, 2011

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CERTIFICATE OF ANALYSIS

VAN11005204.1

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	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm
MDL	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
PP11 MRP209	Soil	0.3	12.6	4.8	50	<0.1	12.6	5.6	539	1.63	1.0	0.9	1.0	37	<0.1	<0.1	0.1	43	0.27	0.022	5
PP11 MRP210	Soil	0.5	9.9	4.1	66	<0.1	12.9	6.6	250	1.60	0.8	4.7	0.8	19	<0.1	<0.1	<0.1	39	0.14	0.080	3
PP11 MRP211	Soil	0.4	13.1	3.9	51	<0.1	19.3	5.7	197	1.61	1.1	1.4	1.1	30	<0.1	<0.1	<0.1	40	0.22	0.068	4
PP11 MRP212	Soil	0.4	6.7	3.4	42	<0.1	15.0	5.3	355	1.29	0.6	0.5	0.7	25	<0.1	<0.1	<0.1	33	0.18	0.032	3
PP11 MRP213	Soil	0.4	16.1	4.8	47	<0.1	35.9	8.6	248	2.08	0.9	6.7	0.9	46	<0.1	<0.1	<0.1	52	0.31	0.029	4
PP11 MRP214	Soil	0.6	23.5	4.5	54	<0.1	34.1	8.9	254	2.28	2.0	16.3	1.7	36	<0.1	0.2	<0.1	62	0.28	0.071	7
PP11 MRP215	Soil	0.6	18.6	6.5	52	<0.1	23.2	6.8	170	1.83	1.6	1.1	1.3	35	0.1	0.1	<0.1	49	0.24	0.112	5
PP11 MRP216	Soil	0.5	13.7	6.1	58	<0.1	18.8	6.0	550	1.71	1.2	0.9	1.0	33	0.1	0.1	<0.1	49	0.25	0.042	5
PP11 MRP217	Soil	0.3	13.8	3.5	66	<0.1	18.7	4.6	306	1.60	1.6	1.9	0.9	29	<0.1	<0.1	<0.1	44	0.23	0.027	4
PP11 MRP218	Soil	0.7	13.4	4.8	53	0.1	22.5	5.7	210	1.56	1.8	1.1	1.2	18	<0.1	<0.1	0.1	35	0.13	0.161	4
PP11 MRP219	Soil	1.0	8.8	5.0	48	0.1	15.4	4.8	313	1.41	1.8	1.7	1.2	9	<0.1	<0.1	<0.1	33	0.08	0.171	3
PP11 MRP220	Soil	0.4	15.3	4.9	81	0.2	24.9	6.0	180	1.75	1.6	0.7	0.9	27	<0.1	<0.1	<0.1	39	0.18	0.108	4
PP11 MRP221	Soil	0.6	14.0	8.2	57	<0.1	18.6	6.7	206	1.74	1.5	11.8	1.0	25	0.2	<0.1	<0.1	43	0.20	0.099	4
PP11 MRP222	Soil	0.6	12.8	5.2	60	0.1	22.6	6.1	261	1.64	1.2	1.1	1.4	25	<0.1	<0.1	<0.1	38	0.17	0.082	4
PP11 MRP223	Soil	0.4	20.8	4.6	49	0.1	45.1	8.6	189	2.08	1.5	2.8	1.1	43	<0.1	<0.1	0.1	50	0.31	0.072	4
PP11 MRP224	Soil	0.4	17.9	4.5	35	0.2	47.8	9.3	132	1.91	1.6	2.7	1.1	25	<0.1	<0.1	<0.1	43	0.16	0.076	4
PP11 MRP225	Soil	0.1	10.3	3.1	23	<0.1	17.0	4.1	59	1.22	0.9	1.1	0.6	25	<0.1	<0.1	<0.1	28	0.16	0.021	3
PP11 MRP226	Soil	<0.1	9.6	2.5	16	<0.1	15.2	3.2	79	1.01	0.7	5.3	1.1	26	<0.1	<0.1	<0.1	29	0.23	0.021	6
PP11 MRP227	Soil	0.3	13.0	5.7	39	<0.1	18.1	5.8	87	1.72	0.9	1.6	1.1	38	<0.1	<0.1	0.5	39	0.16	0.054	5
PP11 MRP228	Soil	0.3	10.1	6.9	54	<0.1	18.6	3.5	78	1.44	0.8	<0.5	0.7	22	<0.1	<0.1	0.2	27	0.12	0.075	3
PP11 MRP229	Soil	0.4	11.9	5.4	59	<0.1	26.9	6.3	151	1.68	1.0	<0.5	0.9	27	<0.1	<0.1	0.2	35	0.15	0.161	5
PP11 MRP230	Soil	0.2	10.1	5.4	32	<0.1	17.6	3.5	520	1.07	<0.5	3.4	0.5	34	<0.1	<0.1	0.1	28	0.19	0.023	8
PP11 MRP231	Soil	0.2	19.7	5.5	44	<0.1	30.2	7.1	198	1.87	0.7	<0.5	1.6	40	<0.1	<0.1	0.1	50	0.21	0.023	9
PP11 MRP232	Soil	<0.1	10.6	4.8	15	<0.1	7.5	2.9	93	1.02	<0.5	0.7	0.7	47	<0.1	<0.1	0.1	25	0.23	0.016	8
PP11 MRP233	Soil	<0.1	12.5	5.4	17	<0.1	9.3	3.5	158	1.08	0.7	<0.5	0.9	59	<0.1	<0.1	0.1	29	0.32	0.023	11
PP11 MRP234	Soil	<0.1	13.7	5.6	17	<0.1	9.5	3.4	141	1.12	0.5	<0.5	1.3	69	<0.1	<0.1	0.1	28	0.33	0.028	13
PP11 MRP235	Soil	0.1	14.4	4.9	18	<0.1	10.5	3.9	171	1.25	0.5	<0.5	1.4	70	<0.1	<0.1	0.1	32	0.34	0.029	14
PP11 MRP236	Soil	0.1	14.5	5.6	24	<0.1	9.4	4.4	169	1.34	0.8	<0.5	1.1	57	<0.1	<0.1	0.1	33	0.30	0.040	12
PP11 MRP237	Soil	0.2	8.1	5.6	14	<0.1	11.4	4.2	42	1.49	1.8	<0.5	1.7	41	<0.1	<0.1	0.1	36	0.14	0.156	3
PP11 MRP238	Soil	0.1	10.6	3.3	33	<0.1	8.7	6.7	164	2.16	1.0	<0.5	2.1	41	<0.1	<0.1	<0.1	54	0.28	0.042	5

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Project: Princeton
 Report Date: October 20, 2011

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CERTIFICATE OF ANALYSIS

VAN11005204.1

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
PP11 MRP209	Soil	21	0.29	70	0.101	1	1.84	0.026	0.10	<0.1	0.03	3.9	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP210	Soil	18	0.25	95	0.085	1	1.63	0.019	0.08	<0.1	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP211	Soil	23	0.27	117	0.086	1	1.63	0.028	0.12	<0.1	0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP212	Soil	21	0.23	97	0.080	1	1.30	0.026	0.11	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP213	Soil	43	0.50	171	0.112	<1	2.33	0.036	0.14	<0.1	0.01	4.6	0.1	<0.05	6	<0.5	<0.2
PP11 MRP214	Soil	41	0.55	147	0.105	<1	1.98	0.022	0.18	0.1	0.02	5.0	0.1	<0.05	6	<0.5	<0.2
PP11 MRP215	Soil	32	0.35	149	0.086	1	1.76	0.022	0.08	<0.1	0.03	3.4	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP216	Soil	22	0.28	140	0.090	1	1.67	0.027	0.06	<0.1	0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP217	Soil	25	0.29	90	0.086	<1	1.66	0.024	0.07	<0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP218	Soil	18	0.16	133	0.083	<1	2.26	0.017	0.05	<0.1	0.03	2.4	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP219	Soil	13	0.13	76	0.083	<1	1.93	0.016	0.04	<0.1	0.04	2.0	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP220	Soil	22	0.24	137	0.089	<1	2.26	0.020	0.07	<0.1	0.03	2.5	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP221	Soil	22	0.29	125	0.082	<1	2.18	0.019	0.06	<0.1	0.02	2.5	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP222	Soil	22	0.23	180	0.102	<1	2.38	0.018	0.06	<0.1	0.02	2.8	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP223	Soil	45	0.44	152	0.081	<1	2.83	0.016	0.09	<0.1	0.03	3.6	<0.1	<0.05	8	<0.5	<0.2
PP11 MRP224	Soil	36	0.39	135	0.076	<1	2.39	0.020	0.06	<0.1	0.02	3.4	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP225	Soil	25	0.23	78	0.066	<1	1.31	0.026	0.03	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP226	Soil	35	0.32	68	0.085	<1	0.89	0.026	0.05	<0.1	<0.01	2.5	<0.1	<0.05	2	<0.5	<0.2
PP11 MRP227	Soil	29	0.19	136	0.089	2	2.13	0.027	0.03	<0.1	0.02	1.8	0.1	<0.05	6	<0.5	<0.2
PP11 MRP228	Soil	25	0.19	91	0.083	2	2.28	0.018	0.05	<0.1	0.02	1.2	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP229	Soil	34	0.25	136	0.074	2	2.32	0.018	0.06	<0.1	0.04	1.7	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP230	Soil	22	0.17	98	0.058	1	1.49	0.025	0.03	<0.1	0.03	1.7	0.1	<0.05	4	<0.5	<0.2
PP11 MRP231	Soil	64	0.39	86	0.083	2	1.55	0.021	0.05	<0.1	0.02	3.7	0.2	<0.05	4	<0.5	<0.2
PP11 MRP232	Soil	19	0.20	90	0.066	2	1.07	0.031	0.06	<0.1	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
PP11 MRP233	Soil	32	0.25	92	0.067	1	1.18	0.031	0.07	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP234	Soil	32	0.25	103	0.074	2	1.30	0.030	0.07	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP235	Soil	34	0.27	99	0.080	1	1.37	0.034	0.06	<0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP236	Soil	28	0.29	115	0.087	1	1.48	0.035	0.10	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP237	Soil	13	0.12	120	0.094	1	2.44	0.024	0.06	<0.1	0.01	1.4	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP238	Soil	14	0.50	122	0.148	<1	1.63	0.028	0.18	<0.1	<0.01	2.0	0.1	<0.05	5	<0.5	<0.2

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Project: Princeton
 Report Date: October 20, 2011

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CERTIFICATE OF ANALYSIS

VAN11005204.1

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		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	
PP11 MRP239	Soil	0.4	8.3	4.1	27	<0.1	6.2	4.9	128	1.64	0.7	<0.5	1.4	27	<0.1	<0.1	<0.1	42	0.18	0.042	3
PP11 MRP240	Soil	0.1	18.2	2.7	68	<0.1	8.6	14.1	371	4.10	3.6	<0.5	3.5	111	<0.1	<0.1	<0.1	125	0.64	0.118	8
PP11 MRP241	Soil	0.1	18.3	6.3	41	<0.1	26.7	8.3	127	2.53	1.2	<0.5	2.2	81	<0.1	<0.1	<0.1	61	0.40	0.078	6
PP11 MRP242	Soil	0.1	8.2	4.0	17	<0.1	7.0	3.3	61	1.14	0.5	<0.5	0.5	23	<0.1	<0.1	0.2	27	0.12	0.038	2
PP11 MRP243	Soil	0.4	12.1	5.8	28	<0.1	12.6	6.5	110	1.84	0.8	<0.5	1.2	34	<0.1	<0.1	0.1	41	0.15	0.143	3
PP11 MRP244	Soil	0.5	9.2	5.9	26	0.1	10.4	3.6	45	1.69	1.4	<0.5	1.5	13	<0.1	<0.1	0.2	36	0.08	0.252	3
PP11 MRP245	Soil	0.5	15.9	6.9	42	<0.1	30.5	7.9	108	2.17	1.2	1.4	1.9	40	<0.1	<0.1	0.1	50	0.16	0.174	6
PP11 MRP246	Soil	0.1	15.0	4.8	25	<0.1	12.0	4.9	153	1.55	0.9	<0.5	1.3	64	<0.1	<0.1	<0.1	40	0.33	0.041	9
PP11 MRP247	Soil	<0.1	14.1	6.1	18	<0.1	9.6	3.2	119	1.02	<0.5	<0.5	1.5	54	<0.1	<0.1	0.1	26	0.22	0.025	12
PP11 MRP248	Soil	<0.1	8.8	4.9	15	<0.1	6.5	2.9	46	1.08	0.6	<0.5	0.7	35	<0.1	<0.1	<0.1	24	0.15	0.039	4
PP11 MRP249	Soil	0.1	13.2	7.3	14	<0.1	7.5	2.3	47	1.06	<0.5	<0.5	0.6	31	<0.1	<0.1	0.1	22	0.11	0.035	3
PP11 MRP250	Soil	0.1	15.6	6.9	17	<0.1	9.7	3.2	46	1.21	0.8	<0.5	1.6	47	<0.1	<0.1	0.1	25	0.19	0.072	9
PMS-81	Rock Pulp	133.6	3957	23.4	65	2.6	39.8	21.6	435	4.67	52.9	507.4	2.0	28	0.4	3.5	0.4	136	0.34	0.090	11
PP11 MRP251	Soil	0.1	8.2	4.5	21	<0.1	5.5	2.1	29	0.69	<0.5	1.1	0.4	23	<0.1	<0.1	<0.1	14	0.10	0.033	2
PP11 MRP252	Soil	0.2	8.7	4.7	26	<0.1	9.2	4.2	143	1.12	<0.5	1.2	0.7	52	<0.1	<0.1	<0.1	28	0.28	0.031	6
PP11 MRP253	Soil	0.2	10.7	5.4	27	<0.1	10.5	3.6	122	1.23	<0.5	<0.5	0.8	46	<0.1	<0.1	<0.1	29	0.22	0.022	8
PP11 MRP254	Soil	0.2	10.6	4.6	27	<0.1	11.6	4.5	156	1.39	0.6	<0.5	1.1	52	<0.1	<0.1	<0.1	36	0.25	0.020	7
PP11 MRP255	Soil	0.3	12.5	5.0	28	<0.1	11.0	4.8	366	1.34	0.6	<0.5	1.7	83	0.1	<0.1	<0.1	37	0.39	0.032	18
PP11 MRP256	Soil	0.3	14.6	7.0	29	0.1	12.6	6.2	523	1.79	1.8	0.5	2.5	88	0.1	<0.1	0.1	59	0.36	0.049	18
PP11 MRP257	Soil	0.7	15.2	6.8	36	0.2	15.0	7.8	1643	1.93	1.0	<0.5	1.5	132	0.3	<0.1	0.1	54	0.69	0.055	21
PP11 MRP258	Soil	0.5	11.3	8.6	46	0.1	9.6	5.5	176	1.60	0.6	<0.5	0.9	49	0.1	<0.1	0.1	37	0.49	0.029	6
PP11 MRP259	Soil	0.2	2.0	4.9	9	<0.1	1.3	0.8	19	0.49	<0.5	<0.5	0.2	14	<0.1	<0.1	0.1	13	0.13	0.012	1
PP11 MRP261	Soil	0.4	11.3	5.8	34	0.2	7.1	6.9	204	1.87	0.9	<0.5	1.0	34	<0.1	<0.1	0.1	51	0.34	0.035	6
PP11 MRP262	Soil	0.9	9.8	5.4	38	0.3	9.2	4.0	88	1.70	2.6	<0.5	1.3	16	<0.1	<0.1	0.1	45	0.13	0.137	5
PP11 MRP263	Soil	0.6	15.4	6.9	41	0.3	13.2	6.4	101	1.86	3.0	<0.5	1.5	17	<0.1	0.1	0.1	49	0.15	0.070	4
PP11 MRP264	Soil	0.8	33.2	4.6	53	<0.1	24.2	8.9	259	2.56	3.4	1.9	2.1	39	<0.1	0.2	<0.1	75	0.38	0.051	7
PP11 MRP265	Soil	0.9	12.3	4.7	29	0.1	11.5	5.2	92	1.88	2.2	0.9	1.1	12	<0.1	<0.1	0.1	54	0.10	0.103	3
PP11 MRP266	Soil	1.0	13.9	3.9	26	<0.1	9.2	4.3	74	1.31	1.1	<0.5	0.7	13	<0.1	<0.1	<0.1	43	0.11	0.032	3
PP11 MRP267	Soil	1.1	21.6	3.2	34	<0.1	12.5	5.6	156	2.02	3.5	<0.5	1.2	19	<0.1	0.2	<0.1	64	0.21	0.054	5
PP11 MRP268	Soil	0.6	24.1	4.8	45	<0.1	18.8	8.5	193	2.35	2.8	<0.5	1.7	26	<0.1	0.1	<0.1	66	0.23	0.069	6

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Project: Princeton
 Report Date: October 20, 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	
PP11 MRP239	Soil			12	0.38	68	0.152	1	1.18	0.019	0.13	<0.1	0.02	1.4	0.1	<0.05	6	<0.5	<0.2
PP11 MRP240	Soil			20	1.18	144	0.205	1	2.28	0.034	0.43	<0.1	<0.01	3.9	0.3	<0.05	7	<0.5	<0.2
PP11 MRP241	Soil			34	0.67	189	0.115	1	2.81	0.031	0.14	<0.1	0.02	3.4	0.2	<0.05	7	<0.5	<0.2
PP11 MRP242	Soil			14	0.15	60	0.065	<1	1.26	0.025	0.04	<0.1	0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP243	Soil			18	0.21	105	0.081	<1	2.04	0.018	0.07	<0.1	0.02	1.7	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP244	Soil			13	0.10	64	0.095	2	2.58	0.017	0.05	0.1	0.04	1.6	<0.1	<0.05	8	<0.5	<0.2
PP11 MRP245	Soil			26	0.36	170	0.115	1	3.15	0.019	0.06	<0.1	0.03	2.4	<0.1	<0.05	9	<0.5	<0.2
PP11 MRP246	Soil			26	0.36	129	0.097	1	1.51	0.032	0.12	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP247	Soil			34	0.23	98	0.082	1	1.29	0.033	0.04	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP248	Soil			17	0.13	80	0.071	<1	1.20	0.023	0.03	<0.1	0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP249	Soil			19	0.17	64	0.079	<1	1.55	0.018	0.05	<0.1	0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP250	Soil			33	0.20	97	0.080	1	1.59	0.021	0.09	<0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
PMS-81	Rock Pulp			55	0.92	45	0.113	1	1.41	0.044	0.96	4.2	0.06	9.9	0.6	2.44	6	6.9	1.0
PP11 MRP251	Soil			8	0.08	73	0.066	<1	1.02	0.023	0.03	<0.1	0.02	0.7	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP252	Soil			15	0.25	104	0.082	<1	1.14	0.025	0.07	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP253	Soil			17	0.28	138	0.090	<1	1.42	0.032	0.08	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP254	Soil			22	0.36	117	0.105	<1	1.33	0.027	0.10	<0.1	<0.01	2.4	0.1	<0.05	4	<0.5	<0.2
PP11 MRP255	Soil			18	0.32	170	0.096	<1	1.48	0.032	0.09	<0.1	0.03	3.3	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP256	Soil			34	0.41	151	0.125	1	2.24	0.028	0.05	<0.1	0.04	4.9	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP257	Soil			20	0.46	211	0.085	1	2.36	0.025	0.09	<0.1	0.07	4.4	0.1	<0.05	7	<0.5	<0.2
PP11 MRP258	Soil			13	0.35	138	0.104	1	1.88	0.025	0.06	<0.1	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP259	Soil			3	0.04	21	0.054	<1	0.38	0.020	0.02	<0.1	<0.01	0.4	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP261	Soil			10	0.34	152	0.124	<1	1.72	0.024	0.06	<0.1	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP262	Soil			12	0.19	97	0.097	<1	1.64	0.015	0.06	<0.1	0.04	1.6	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP263	Soil			14	0.29	116	0.110	2	2.05	0.020	0.05	0.1	0.02	1.8	<0.1	<0.05	8	<0.5	<0.2
PP11 MRP264	Soil			37	0.74	227	0.139	2	1.97	0.029	0.17	<0.1	0.02	4.1	0.1	<0.05	6	<0.5	<0.2
PP11 MRP265	Soil			17	0.26	83	0.128	1	1.53	0.015	0.07	<0.1	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP266	Soil			16	0.29	90	0.124	<1	1.04	0.015	0.07	<0.1	0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP267	Soil			22	0.42	128	0.110	<1	1.03	0.013	0.13	<0.1	0.01	2.5	<0.1	<0.05	5	0.6	<0.2
PP11 MRP268	Soil			27	0.57	160	0.131	1	1.90	0.015	0.14	<0.1	0.02	2.7	<0.1	<0.05	7	<0.5	<0.2

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Project: Princeton
 Report Date: October 20, 2011

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CERTIFICATE OF ANALYSIS

VAN11005204.1

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	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL	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
PP11 MRP269	Soil	0.5	8.9	5.5	25	0.2	8.2	3.8	73	1.50	2.1	<0.5	1.3	9	<0.1	<0.1	0.1	40	0.10	0.093	3
PP11 MRP270	Soil	0.5	16.8	4.6	40	0.2	14.5	7.3	117	1.99	3.0	<0.5	1.2	17	<0.1	0.1	<0.1	57	0.16	0.093	5
PP11 MRP271	Soil	0.7	21.1	4.7	41	0.3	17.1	8.3	274	1.99	3.3	<0.5	1.1	29	<0.1	0.1	<0.1	59	0.25	0.044	6
PP11 MRP272	Soil	0.9	15.9	4.7	40	0.2	19.0	6.2	102	1.95	4.3	<0.5	1.2	12	<0.1	0.1	0.1	59	0.09	0.090	4
PP11 MRP273	Soil	1.0	15.1	4.6	41	0.2	14.1	5.8	96	1.86	3.0	0.8	1.1	11	<0.1	<0.1	<0.1	53	0.09	0.107	3
PP11 MRP274	Soil	2.5	20.0	4.4	41	0.1	15.9	8.3	243	2.16	2.2	1.0	1.3	21	<0.1	0.1	<0.1	67	0.25	0.030	7
PP11 MRP275	Soil	0.7	12.0	6.3	33	0.1	11.3	4.7	91	1.64	2.1	<0.5	1.2	11	<0.1	<0.1	0.1	42	0.11	0.096	3
PP11 MRP276	Soil	0.5	17.7	5.0	29	0.1	12.8	5.5	101	1.74	1.7	<0.5	1.1	21	<0.1	<0.1	<0.1	48	0.15	0.062	5
PP11 MRP277	Soil	0.9	16.6	3.7	29	<0.1	11.0	5.9	115	1.74	1.7	0.8	1.2	13	<0.1	<0.1	0.1	54	0.15	0.069	4
PP11 MRP278	Soil	1.1	16.7	4.2	38	<0.1	13.6	6.4	103	1.87	1.8	<0.5	1.1	14	<0.1	<0.1	<0.1	60	0.17	0.079	3
PP11 MRP279	Soil	0.7	12.3	4.7	25	0.1	8.4	5.2	88	1.41	0.7	0.8	0.7	23	<0.1	<0.1	<0.1	39	0.19	0.031	3
PP11 MRP280	Soil	0.9	20.0	4.5	39	<0.1	16.4	9.5	135	2.61	3.2	5.1	1.8	14	<0.1	0.1	<0.1	75	0.15	0.124	4
PP11 MRP281	Soil	0.5	13.9	16.9	67	0.7	12.0	5.7	114	1.90	2.1	<0.5	1.7	23	<0.1	0.1	0.1	54	0.19	0.044	4
PP11 MRP282	Soil	0.5	22.9	5.0	43	0.3	10.8	4.8	230	1.36	1.9	<0.5	0.9	23	<0.1	0.1	<0.1	39	0.18	0.025	6
PP11 MRP283	Soil	0.5	13.7	6.5	37	<0.1	11.8	8.1	275	1.91	1.1	1.7	3.7	53	<0.1	<0.1	0.1	56	0.33	0.057	11
PP11 MRP284	Soil	0.3	13.1	3.8	34	<0.1	8.6	6.7	374	1.83	1.8	2.0	3.4	45	<0.1	<0.1	<0.1	59	0.41	0.090	10
PP11 MRP285	Soil	0.4	12.6	3.6	31	<0.1	10.8	6.6	444	1.68	1.2	0.7	3.3	53	<0.1	<0.1	<0.1	54	0.36	0.086	10
PP11 MRP301	Soil	0.5	19.2	4.2	28	<0.1	14.2	5.2	149	1.36	0.9	<0.5	2.0	56	<0.1	<0.1	<0.1	48	0.47	0.052	15
PP11 MRP302	Soil	1.1	16.9	3.3	36	<0.1	11.8	5.1	203	2.08	1.2	<0.5	1.1	37	<0.1	<0.1	<0.1	63	0.46	0.077	9
PP11 MRP303	Soil	0.7	19.0	4.3	27	0.1	15.6	6.1	384	1.85	2.2	<0.5	1.4	78	<0.1	0.1	<0.1	57	0.66	0.070	14
PP11 MRP304	Soil	0.9	14.7	5.6	54	<0.1	17.7	6.7	114	1.97	3.2	8.7	1.4	18	0.1	0.1	<0.1	56	0.14	0.169	4
PP11 MRP305	Soil	2.8	25.8	5.5	30	0.2	21.7	7.0	1151	2.03	4.0	0.6	1.2	115	0.2	0.2	0.1	75	1.01	0.071	18
PP11 MRP306	Soil	0.5	14.8	3.5	30	<0.1	12.7	4.7	322	1.45	1.2	0.5	1.9	48	<0.1	<0.1	<0.1	42	0.49	0.063	9
PP11 MRP307	Soil	0.3	24.8	5.8	63	0.3	35.0	7.4	112	1.84	1.5	0.6	1.6	38	0.1	0.1	0.1	44	0.23	0.124	8
PP11 MRP308	Soil	0.5	23.8	5.5	66	0.2	43.1	8.3	204	2.10	1.5	1.7	1.8	48	<0.1	0.1	0.1	53	0.26	0.137	8
PP11 MRP309	Soil	0.5	27.5	4.6	41	<0.1	34.8	7.5	157	2.15	1.1	1.2	1.7	48	<0.1	0.1	<0.1	60	0.26	0.030	13
PP11 MRP310	Soil	0.2	5.1	3.4	48	<0.1	13.4	2.9	88	1.08	<0.5	<0.5	0.6	16	<0.1	<0.1	<0.1	28	0.10	0.136	3
PP11 MRP311	Soil	0.2	8.0	3.6	47	<0.1	16.7	3.9	98	1.24	<0.5	<0.5	0.7	21	<0.1	<0.1	<0.1	28	0.11	0.067	3
PP11 MRP312	Soil	0.2	10.6	3.6	52	<0.1	18.8	4.2	116	1.31	<0.5	0.7	0.7	22	<0.1	<0.1	<0.1	30	0.13	0.036	3
PP11 MRP313	Soil	0.2	12.6	4.2	28	<0.1	17.6	5.3	105	1.40	<0.5	1.5	0.9	27	<0.1	<0.1	<0.1	35	0.16	0.015	4

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CERTIFICATE OF ANALYSIS

VAN11005204.1

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
PP11 MRP269	Soil	13	0.17	85	0.094	1	1.30	0.014	0.05	<0.1	0.04	1.4	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP270	Soil	18	0.32	139	0.130	<1	1.69	0.019	0.09	0.1	0.03	2.4	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP271	Soil	23	0.44	205	0.131	1	1.68	0.020	0.08	<0.1	0.03	2.8	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP272	Soil	31	0.34	116	0.118	1	1.73	0.017	0.09	<0.1	0.03	2.7	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP273	Soil	21	0.27	84	0.112	1	1.78	0.018	0.06	<0.1	0.04	2.3	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP274	Soil	28	0.52	200	0.163	2	1.65	0.019	0.10	0.1	0.03	3.0	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP275	Soil	14	0.24	110	0.112	1	1.48	0.016	0.06	<0.1	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP276	Soil	16	0.31	129	0.109	<1	1.62	0.016	0.05	<0.1	0.02	1.8	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP277	Soil	17	0.32	94	0.116	1	1.24	0.014	0.08	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP278	Soil	24	0.43	125	0.158	<1	1.49	0.017	0.12	0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP279	Soil	9	0.26	109	0.116	<1	1.21	0.023	0.05	<0.1	<0.01	1.3	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP280	Soil	21	0.41	100	0.119	<1	2.01	0.016	0.07	<0.1	0.03	2.3	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP281	Soil	15	0.35	110	0.126	1	1.71	0.019	0.07	<0.1	0.01	2.0	<0.1	<0.05	8	<0.5	<0.2
PP11 MRP282	Soil	10	0.24	151	0.094	<1	1.37	0.024	0.04	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP283	Soil	21	0.44	141	0.136	<1	1.80	0.026	0.09	<0.1	0.02	3.8	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP284	Soil	17	0.41	109	0.105	<1	0.98	0.019	0.14	<0.1	0.01	2.8	0.1	<0.05	3	<0.5	<0.2
PP11 MRP285	Soil	20	0.36	120	0.095	<1	0.94	0.023	0.11	<0.1	0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
PP11 MRP301	Soil	28	0.42	123	0.107	<1	1.51	0.026	0.10	<0.1	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP302	Soil	19	0.30	91	0.105	<1	1.19	0.033	0.06	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP303	Soil	31	0.43	127	0.082	1	1.72	0.026	0.09	<0.1	0.03	4.5	<0.1	0.07	5	0.9	<0.2
PP11 MRP304	Soil	25	0.31	128	0.112	<1	2.12	0.016	0.07	0.1	0.03	2.6	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP305	Soil	39	0.44	202	0.078	1	2.10	0.021	0.09	0.1	0.08	5.2	0.1	0.06	6	1.1	<0.2
PP11 MRP306	Soil	32	0.33	85	0.074	1	1.02	0.022	0.07	0.4	0.02	3.3	<0.1	<0.05	3	<0.5	<0.2
PP11 MRP307	Soil	43	0.38	190	0.087	<1	2.20	0.026	0.09	<0.1	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP308	Soil	51	0.49	194	0.105	<1	2.37	0.023	0.13	<0.1	0.02	4.5	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP309	Soil	69	0.53	104	0.092	1	1.35	0.025	0.10	<0.1	0.01	4.5	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP310	Soil	14	0.10	79	0.068	1	0.97	0.024	0.03	<0.1	0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP311	Soil	28	0.16	96	0.070	1	1.15	0.019	0.04	<0.1	0.02	1.3	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP312	Soil	31	0.20	98	0.074	1	1.32	0.021	0.05	<0.1	<0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP313	Soil	44	0.25	74	0.079	<1	1.04	0.026	0.07	<0.1	<0.01	1.7	<0.1	<0.05	3	<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	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm
MDL	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
PP11 MRP314	Soil	0.3	10.7	3.2	34	<0.1	17.2	5.2	201	1.35	<0.5	1.8	0.7	23	<0.1	<0.1	0.2	35	0.17	0.023	5
PP11 MRP315	Soil	0.4	17.3	4.4	33	<0.1	26.0	7.0	136	1.75	0.7	1.1	1.4	26	<0.1	<0.1	<0.1	44	0.16	0.053	6
PP11 MRP316	Soil	0.3	12.3	4.0	36	<0.1	22.6	5.7	146	1.56	0.8	<0.5	0.8	21	<0.1	<0.1	0.1	39	0.15	0.041	4
PP11 MRP317	Soil	0.4	13.2	4.0	53	<0.1	21.9	5.5	177	1.44	1.2	0.6	1.2	21	<0.1	<0.1	0.1	35	0.13	0.092	4
PP11 MRP318	Soil	0.2	13.3	3.3	33	<0.1	22.8	6.2	126	1.59	0.8	<0.5	1.0	24	<0.1	<0.1	<0.1	43	0.18	0.034	6
PP11 MRP319	Soil	0.3	8.6	4.3	37	<0.1	18.6	5.5	147	1.41	0.8	0.6	0.8	14	<0.1	<0.1	<0.1	33	0.12	0.054	4
PP11 MRP320	Soil	0.2	14.3	3.4	34	<0.1	27.3	5.2	97	1.54	1.1	5.0	0.9	27	<0.1	<0.1	<0.1	40	0.19	0.045	7
PP11 MRP321	Soil	0.2	14.2	2.3	29	<0.1	20.4	5.5	128	1.54	0.6	3.7	1.0	28	<0.1	<0.1	<0.1	46	0.22	0.009	6
PP11 MRP322	Soil	0.3	14.1	5.0	40	<0.1	14.9	6.0	237	1.66	0.8	<0.5	1.0	41	<0.1	<0.1	0.1	43	0.25	0.040	7
PP11 MRP323	Soil	0.2	10.9	4.3	42	0.1	11.2	4.9	189	1.58	0.5	0.9	0.9	35	<0.1	<0.1	<0.1	39	0.22	0.034	4
PP11 MRP324	Soil	0.4	12.6	4.8	40	<0.1	16.8	6.5	144	1.86	0.8	<0.5	1.0	38	<0.1	<0.1	<0.1	50	0.22	0.077	4
PP11 MRP325	Soil	0.3	8.7	4.7	52	<0.1	15.6	5.4	113	1.62	0.6	<0.5	0.7	25	<0.1	<0.1	<0.1	41	0.16	0.059	2
PP11 MRP326	Soil	0.3	11.2	3.4	37	<0.1	15.5	5.4	196	1.62	0.5	<0.5	0.8	35	<0.1	<0.1	<0.1	51	0.22	0.024	5
PP11 MRP327	Soil	0.3	16.9	3.7	45	<0.1	19.7	5.6	133	1.86	0.9	1.2	1.3	37	<0.1	<0.1	<0.1	50	0.27	0.023	8
PP11 MRP328	Soil	0.4	16.5	4.2	50	<0.1	24.4	7.5	231	1.93	1.0	<0.5	1.4	45	<0.1	<0.1	<0.1	50	0.26	0.049	8
PP11 MRP329	Soil	0.4	9.1	4.1	50	<0.1	16.1	5.1	333	1.50	<0.5	<0.5	0.9	26	<0.1	<0.1	<0.1	33	0.15	0.055	4
PP11 MRP330	Soil	0.3	11.2	3.7	40	<0.1	19.5	5.1	205	1.44	0.7	1.0	0.8	30	<0.1	<0.1	<0.1	35	0.21	0.059	6
PP11 MRP331	Soil	0.5	8.6	4.0	41	<0.1	14.6	5.8	456	1.41	<0.5	<0.5	0.9	23	<0.1	<0.1	<0.1	30	0.15	0.049	4
PP11 MRP332	Soil	0.4	8.7	4.3	50	<0.1	12.6	4.8	397	1.30	0.6	<0.5	0.6	18	<0.1	<0.1	<0.1	31	0.14	0.053	3
PP11 MRP333	Soil	0.2	10.9	3.5	33	<0.1	14.5	4.4	159	1.39	0.5	0.6	0.6	31	<0.1	<0.1	<0.1	35	0.22	0.028	5
PP11 MRP334	Soil	0.4	9.8	4.5	59	<0.1	17.8	7.3	457	1.55	0.8	2.2	0.8	24	<0.1	<0.1	<0.1	36	0.17	0.065	3
PP11 MRP335	Soil	0.3	22.7	3.4	50	<0.1	39.1	9.6	221	2.36	0.9	<0.5	1.7	51	<0.1	<0.1	<0.1	61	0.29	0.027	12
PP11 MRP336	Soil	0.2	11.0	3.6	50	<0.1	20.1	6.0	265	1.60	0.6	<0.5	0.9	27	<0.1	<0.1	<0.1	35	0.18	0.051	4
PP11 MRP337	Soil	0.4	11.0	4.9	53	<0.1	19.9	5.9	162	1.66	0.6	0.9	0.9	33	<0.1	<0.1	0.1	39	0.20	0.036	4
PP11 MRP338	Soil	0.5	9.4	4.1	57	<0.1	17.8	5.1	378	1.42	<0.5	<0.5	0.8	33	<0.1	<0.1	<0.1	35	0.18	0.032	4
PP11 MRP339	Soil	0.3	10.0	4.0	44	<0.1	20.9	5.2	215	1.53	0.5	<0.5	1.0	28	<0.1	<0.1	<0.1	34	0.17	0.020	6
PP11 MRP340	Soil	0.4	6.3	4.0	45	<0.1	14.0	4.8	159	1.40	0.5	87.5	0.7	25	<0.1	<0.1	<0.1	33	0.18	0.032	3
PP11 MRP341	Soil	0.3	8.6	3.7	39	<0.1	15.7	4.8	225	1.43	<0.5	4.6	0.9	27	<0.1	<0.1	<0.1	36	0.21	0.024	4
PP11 MRP342	Soil	0.2	12.1	3.1	28	<0.1	18.1	6.2	185	1.49	0.7	1.6	1.0	38	<0.1	<0.1	<0.1	42	0.25	0.012	5
PP11 MRP343	Soil	0.4	9.9	3.4	29	<0.1	17.0	5.0	174	1.43	0.7	1.3	0.8	28	<0.1	<0.1	0.2	37	0.18	0.021	4

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Project: Princeton
 Report Date: October 20, 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		
PP11 MRP314	Soil			38	0.26	84	0.067	1	0.96	0.019	0.07	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
PP11 MRP315	Soil			43	0.33	154	0.082	<1	1.69	0.017	0.06	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP316	Soil			33	0.27	119	0.082	<1	1.57	0.016	0.06	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP317	Soil			29	0.24	120	0.073	1	1.73	0.016	0.05	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP318	Soil			43	0.32	117	0.078	<1	1.47	0.019	0.04	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP319	Soil			31	0.23	87	0.078	<1	1.55	0.017	0.04	<0.1	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP320	Soil			39	0.27	110	0.076	<1	1.44	0.022	0.06	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP321	Soil			51	0.32	59	0.088	<1	0.88	0.032	0.05	<0.1	<0.01	3.5	<0.1	<0.05	3	<0.5	<0.2
PP11 MRP322	Soil			17	0.31	134	0.082	<1	1.78	0.028	0.10	<0.1	0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP323	Soil			17	0.27	99	0.085	1	1.60	0.027	0.11	<0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP324	Soil			24	0.37	129	0.095	<1	2.08	0.025	0.08	0.1	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP325	Soil			23	0.28	82	0.083	<1	1.83	0.023	0.05	<0.1	0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP326	Soil			28	0.37	61	0.075	<1	1.31	0.035	0.05	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP327	Soil			32	0.43	102	0.092	<1	1.64	0.024	0.14	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP328	Soil			44	0.46	129	0.095	<1	1.77	0.025	0.12	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP329	Soil			30	0.25	129	0.086	<1	1.73	0.022	0.08	<0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP330	Soil			32	0.24	123	0.078	<1	1.53	0.025	0.07	<0.1	0.03	2.6	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP331	Soil			29	0.24	119	0.083	<1	1.54	0.022	0.09	<0.1	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP332	Soil			20	0.20	99	0.078	<1	1.39	0.017	0.06	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP333	Soil			34	0.25	79	0.070	<1	1.32	0.024	0.08	<0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP334	Soil			34	0.24	92	0.088	<1	1.73	0.021	0.10	<0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP335	Soil			97	0.65	109	0.100	<1	1.68	0.042	0.12	<0.1	0.01	6.1	0.1	<0.05	5	<0.5	<0.2
PP11 MRP336	Soil			45	0.24	93	0.084	<1	1.48	0.024	0.11	<0.1	<0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP337	Soil			32	0.29	142	0.102	<1	1.81	0.021	0.14	<0.1	0.02	2.5	0.1	<0.05	5	<0.5	<0.2
PP11 MRP338	Soil			29	0.23	145	0.089	<1	1.46	0.022	0.11	<0.1	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP339	Soil			36	0.27	126	0.089	<1	1.51	0.027	0.11	<0.1	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP340	Soil			22	0.20	116	0.084	<1	1.43	0.027	0.10	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP341	Soil			32	0.26	103	0.090	<1	1.22	0.027	0.16	<0.1	<0.01	2.6	0.1	<0.05	4	<0.5	<0.2
PP11 MRP342	Soil			37	0.31	87	0.085	<1	0.93	0.033	0.11	<0.1	<0.01	3.4	0.1	<0.05	3	<0.5	<0.2
PP11 MRP343	Soil			34	0.24	99	0.082	<1	1.11	0.025	0.07	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	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	
PP11 MRP344	Soil	0.3	15.1	3.8	39	<0.1	17.7	4.8	382	1.54	0.9	6.9	0.8	35	<0.1	0.1	<0.1	44	0.28	0.014	7
PP11 MRP345	Soil	0.3	13.6	4.9	49	<0.1	22.4	4.0	82	1.52	1.4	1.0	0.9	34	<0.1	<0.1	0.1	27	0.18	0.170	4



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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	
PP11 MRP344	Soil	32	0.31	86	0.089	<1	1.10	0.033	0.06	<0.1	0.02	3.1	<0.1	<0.05	3	<0.5	<0.2
PP11 MRP345	Soil	30	0.19	149	0.067	<1	1.93	0.019	0.04	<0.1	0.03	2.7	<0.1	<0.05	6	<0.5	<0.2



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Project: Princeton
Report Date: October 20, 2011

Page: 1 of 2 **Part** 1

QUALITY CONTROL REPORT

VAN11005204.1

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																					
PP11 MRP123	Soil	0.4	64.0	3.7	81	<0.1	38.4	22.0	1138	4.10	1.0	1.9	2.3	172	<0.1	0.2	0.2	103	0.69	0.062	10
REP PP11 MRP123	QC	0.4	64.0	3.6	80	<0.1	38.5	22.3	1110	4.03	1.1	2.5	2.2	166	<0.1	0.2	0.2	98	0.68	0.058	10
PP11 MRP139	Soil	0.4	16.9	5.2	52	<0.1	23.5	7.0	281	1.80	1.4	1.9	1.2	33	<0.1	<0.1	<0.1	43	0.21	0.091	4
REP PP11 MRP139	QC	0.4	16.7	5.2	50	<0.1	22.5	6.7	278	1.70	1.3	0.9	1.2	33	<0.1	<0.1	<0.1	42	0.20	0.087	4
PP11 MRP161	Soil	0.3	11.5	5.1	61	<0.1	30.3	6.0	131	1.55	1.4	<0.5	1.2	22	<0.1	<0.1	<0.1	32	0.12	0.182	3
REP PP11 MRP161	QC	0.3	11.3	5.0	64	<0.1	31.3	6.0	137	1.64	1.5	<0.5	1.2	23	<0.1	<0.1	0.1	33	0.12	0.176	3
PP11 MRP176	Soil	0.1	22.7	6.9	41	<0.1	21.5	8.5	212	2.58	0.7	<0.5	3.4	67	<0.1	<0.1	0.1	58	0.40	0.036	22
REP PP11 MRP176	QC	0.1	22.5	6.9	41	<0.1	20.8	8.1	202	2.56	0.8	<0.5	3.5	66	<0.1	<0.1	0.1	56	0.41	0.037	21
PP11 MRP198	Soil	0.3	4.5	1.9	46	<0.1	6.5	3.7	238	1.22	<0.5	<0.5	0.5	15	<0.1	<0.1	<0.1	33	0.09	0.053	2
REP PP11 MRP198	QC	0.3	4.4	1.9	45	<0.1	6.8	3.7	226	1.19	<0.5	0.5	0.5	15	<0.1	<0.1	<0.1	32	0.09	0.053	2
PP11 MRP213	Soil	0.4	16.1	4.8	47	<0.1	35.9	8.6	248	2.08	0.9	6.7	0.9	46	<0.1	<0.1	<0.1	52	0.31	0.029	4
REP PP11 MRP213	QC	0.3	14.8	4.1	43	<0.1	33.1	7.7	225	1.85	1.1	4.8	0.8	42	<0.1	<0.1	<0.1	46	0.27	0.026	4
PP11 MRP244	Soil	0.5	9.2	5.9	26	0.1	10.4	3.6	45	1.69	1.4	<0.5	1.5	13	<0.1	<0.1	0.2	36	0.08	0.252	3
REP PP11 MRP244	QC	0.5	9.1	6.0	28	0.1	10.7	3.7	45	1.73	1.6	<0.5	1.4	14	<0.1	<0.1	0.2	38	0.08	0.262	3
PP11 MRP258	Soil	0.5	11.3	8.6	46	0.1	9.6	5.5	176	1.60	0.6	<0.5	0.9	49	0.1	<0.1	0.1	37	0.49	0.029	6
REP PP11 MRP258	QC	0.5	11.5	8.4	46	0.1	9.6	5.6	180	1.60	0.7	<0.5	1.0	50	0.1	<0.1	0.1	36	0.51	0.030	6
PP11 MRP274	Soil	2.5	20.0	4.4	41	0.1	15.9	8.3	243	2.16	2.2	1.0	1.3	21	<0.1	0.1	<0.1	67	0.25	0.030	7
REP PP11 MRP274	QC	2.8	21.0	4.6	42	0.1	16.3	8.5	250	2.21	2.5	0.7	1.3	22	<0.1	<0.1	<0.1	69	0.26	0.029	7
PP11 MRP307	Soil	0.3	24.8	5.8	63	0.3	35.0	7.4	112	1.84	1.5	0.6	1.6	38	0.1	0.1	0.1	44	0.23	0.124	8
REP PP11 MRP307	QC	0.3	25.6	5.3	63	0.2	34.9	7.7	113	1.87	1.5	1.3	1.7	39	<0.1	<0.1	0.1	44	0.23	0.129	8
PP11 MRP320	Soil	0.2	14.3	3.4	34	<0.1	27.3	5.2	97	1.54	1.1	5.0	0.9	27	<0.1	<0.1	<0.1	40	0.19	0.045	7
REP PP11 MRP320	QC	0.2	14.2	3.4	34	<0.1	28.4	5.2	98	1.56	1.2	<0.5	1.0	27	<0.1	<0.1	<0.1	41	0.19	0.043	7
PP11 MRP343	Soil	0.4	9.9	3.4	29	<0.1	17.0	5.0	174	1.43	0.7	1.3	0.8	28	<0.1	<0.1	0.2	37	0.18	0.021	4
REP PP11 MRP343	QC	0.4	9.7	3.7	32	<0.1	16.6	5.0	176	1.46	0.6	1.1	0.8	28	<0.1	<0.1	0.1	37	0.18	0.020	4
Reference Materials																					
STD DS8	Standard	13.0	105.0	115.4	289	1.7	35.7	7.3	574	2.28	23.7	109.2	6.0	64	2.0	4.6	6.3	40	0.64	0.074	13
STD DS8	Standard	14.0	114.2	136.9	319	1.8	39.3	7.7	607	2.52	26.7	127.1	7.3	76	2.7	5.8	7.3	43	0.71	0.082	16
STD DS8	Standard	12.7	108.7	114.3	297	1.7	36.5	7.3	588	2.33	25.0	104.1	6.2	63	2.3	5.2	6.3	41	0.65	0.075	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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Project: Princeton
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Page: 1 of 2 Part 2

QUALITY CONTROL REPORT

VAN11005204.1

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																	
PP11 MRP123	Soil	45	1.77	116	0.079	1	2.08	0.043	0.11	<0.1	0.01	10.3	0.1	<0.05	6	<0.5	<0.2
REP PP11 MRP123	QC	43	1.71	118	0.075	2	2.03	0.041	0.10	<0.1	0.02	10.1	0.1	<0.05	6	<0.5	<0.2
PP11 MRP139	Soil	29	0.33	171	0.092	<1	2.15	0.025	0.10	<0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
REP PP11 MRP139	QC	27	0.32	169	0.090	<1	2.01	0.028	0.10	<0.1	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP161	Soil	30	0.17	138	0.076	2	2.29	0.019	0.05	<0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
REP PP11 MRP161	QC	30	0.17	138	0.080	<1	2.25	0.017	0.05	<0.1	0.03	1.9	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP176	Soil	37	0.59	139	0.161	1	2.70	0.021	0.20	<0.1	0.02	6.7	0.2	<0.05	7	<0.5	<0.2
REP PP11 MRP176	QC	34	0.60	134	0.151	2	2.60	0.020	0.19	<0.1	0.01	6.3	0.2	<0.05	7	<0.5	<0.2
PP11 MRP198	Soil	16	0.15	43	0.062	2	0.87	0.024	0.03	<0.1	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
REP PP11 MRP198	QC	16	0.14	43	0.061	1	0.86	0.022	0.03	<0.1	0.02	1.5	<0.1	<0.05	3	<0.5	<0.2
PP11 MRP213	Soil	43	0.50	171	0.112	<1	2.33	0.036	0.14	<0.1	0.01	4.6	0.1	<0.05	6	<0.5	<0.2
REP PP11 MRP213	QC	40	0.44	151	0.100	<1	2.07	0.032	0.13	<0.1	0.02	4.3	0.1	<0.05	6	<0.5	<0.2
PP11 MRP244	Soil	13	0.10	64	0.095	2	2.58	0.017	0.05	0.1	0.04	1.6	<0.1	<0.05	8	<0.5	<0.2
REP PP11 MRP244	QC	14	0.11	64	0.097	1	2.67	0.017	0.05	0.1	0.04	1.5	<0.1	<0.05	9	<0.5	<0.2
PP11 MRP258	Soil	13	0.35	138	0.104	1	1.88	0.025	0.06	<0.1	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
REP PP11 MRP258	QC	13	0.38	138	0.105	1	1.98	0.024	0.07	<0.1	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
PP11 MRP274	Soil	28	0.52	200	0.163	2	1.65	0.019	0.10	0.1	0.03	3.0	<0.1	<0.05	6	<0.5	<0.2
REP PP11 MRP274	QC	29	0.54	216	0.164	<1	1.70	0.020	0.11	<0.1	0.03	3.1	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP307	Soil	43	0.38	190	0.087	<1	2.20	0.026	0.09	<0.1	0.02	4.1	<0.1	<0.05	6	<0.5	<0.2
REP PP11 MRP307	QC	43	0.39	193	0.088	1	2.29	0.026	0.09	<0.1	0.02	4.3	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP320	Soil	39	0.27	110	0.076	<1	1.44	0.022	0.06	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
REP PP11 MRP320	QC	40	0.27	113	0.076	<1	1.39	0.028	0.05	<0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP343	Soil	34	0.24	99	0.082	<1	1.11	0.025	0.07	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
REP PP11 MRP343	QC	35	0.24	100	0.084	<1	1.09	0.023	0.07	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	108	0.53	256	0.100	1	0.90	0.104	0.41	2.7	0.17	2.4	5.1	0.15	5	4.3	4.5
STD DS8	Standard	117	0.61	260	0.122	3	1.00	0.099	0.49	3.2	0.19	2.3	5.7	0.15	5	5.2	4.9
STD DS8	Standard	111	0.57	281	0.112	3	0.89	0.093	0.43	3.0	0.19	2.4	5.2	0.16	5	5.2	4.9



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Report Date: October 20, 2011

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QUALITY CONTROL REPORT

VAN11005204.1

		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	13.8	109.1	122.2	305	1.9	39.2	8.0	611	2.50	23.5	111.2	6.5	62	2.1	5.4	5.8	44	0.70	0.079	17
STD DS8	Standard	13.6	110.8	121.5	322	1.8	39.3	7.5	630	2.55	23.9	119.2	6.6	65	2.3	5.6	6.3	45	0.71	0.078	18
STD DS8	Standard	14.8	118.2	133.3	341	1.9	43.5	8.1	681	2.69	25.6	142.0	7.2	70	2.4	5.7	6.5	46	0.75	0.083	17
STD DS8	Standard	12.5	107.1	130.2	310	1.7	38.9	7.3	603	2.45	25.1	106.7	6.4	68	2.7	5.4	6.5	39	0.67	0.077	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	<0.01	<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: October 20, 2011

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QUALITY CONTROL REPORT

VAN11005204.1

		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	120	0.63	268	0.120	2	0.92	0.087	0.41	3.1	0.21	2.7	5.3	0.18	5	5.3	4.8
STD DS8	Standard	124	0.60	278	0.120	2	0.92	0.087	0.41	3.1	0.18	2.9	5.5	0.18	5	5.2	4.9
STD DS8	Standard	136	0.67	285	0.125	3	1.02	0.111	0.46	3.1	0.21	2.4	5.7	0.16	5	5.5	5.3
STD DS8	Standard	113	0.60	273	0.105	2	0.93	0.093	0.40	2.9	0.20	2.2	5.5	<0.05	4	5.3	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
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: September 26, 2011
Report Date: November 27, 2011
Page: 1 of 11

CERTIFICATE OF ANALYSIS

VAN11005253.1

CLIENT JOB INFORMATION

Project: Princeton
Shipment ID:
P.O. Number
Number of Samples: 275

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, SS80, 1DX2.

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. 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

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CERTIFICATE OF ANALYSIS

VAN11005253.1

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		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	
PP11-MRP01	Soil	0.3	17.3	8.5	49	<0.1	37.6	11.3	795	2.14	0.8	0.5	2.8	89	<0.1	0.1	53	0.38	0.022	15	
PP11-MRP02	Soil	0.2	12.2	7.1	33	<0.1	27.3	9.2	522	1.85	<0.5	<0.5	2.1	83	<0.1	0.1	44	0.33	0.014	7	
PP11-MRP03	Soil	0.1	6.3	3.3	33	<0.1	11.0	3.9	230	1.31	<0.5	<0.5	0.9	42	<0.1	<0.1	32	0.21	0.021	3	
PP11-MRP04	Soil	0.2	15.4	4.5	38	<0.1	25.5	7.6	497	1.91	<0.5	<0.5	1.6	50	<0.1	<0.1	45	0.29	0.023	7	
PP11-MRP05	Soil	0.2	6.5	2.9	34	<0.1	9.3	2.8	189	0.95	<0.5	2.2	0.5	27	<0.1	<0.1	21	0.15	0.036	2	
PP11-MRP06	Soil	0.3	14.1	4.6	45	<0.1	22.8	8.6	353	2.04	<0.5	<0.5	1.7	56	<0.1	<0.1	53	0.27	0.029	7	
PP11-MRP07	Soil	0.3	9.5	5.2	34	<0.1	18.5	6.6	253	1.77	<0.5	<0.5	1.6	46	<0.1	<0.1	38	0.20	0.018	5	
PP11-MRP08	Soil	0.2	8.5	4.2	39	<0.1	12.8	4.7	157	1.37	<0.5	<0.5	0.6	31	<0.1	<0.1	30	0.18	0.039	2	
PP11-MRP09	Soil	0.3	19.6	5.4	37	<0.1	31.6	8.2	175	2.07	0.5	1.1	1.8	60	<0.1	<0.1	51	0.28	0.032	6	
PP11-MRP10	Soil	0.3	9.3	5.3	53	<0.1	14.8	5.8	356	1.43	<0.5	<0.5	0.7	31	<0.1	<0.1	35	0.18	0.027	3	
PP11-MRP11	Soil	0.3	10.8	5.9	44	<0.1	28.0	5.9	235	1.57	0.7	<0.5	1.2	25	<0.1	<0.1	34	0.14	0.134	3	
PP11-MRP12	Soil	0.3	11.6	5.0	42	<0.1	23.7	6.0	240	1.53	<0.5	0.7	1.0	24	<0.1	<0.1	35	0.14	0.114	3	
PP11-MRP13	Soil	0.3	17.6	5.5	51	<0.1	33.8	7.4	238	1.83	1.3	0.5	1.3	32	<0.1	<0.1	42	0.20	0.153	4	
PP11-MRP14	Soil	0.2	11.3	5.8	42	<0.1	24.7	6.0	100	1.51	<0.5	<0.5	0.9	24	<0.1	<0.1	33	0.14	0.085	2	
PP11-MRP15	Soil	0.3	12.5	5.3	45	<0.1	31.2	5.8	216	1.52	0.8	1.7	1.1	21	<0.1	<0.1	34	0.14	0.133	3	
PP11-MRP16	Soil	0.1	10.5	4.9	35	<0.1	21.9	4.6	77	1.54	<0.5	0.5	0.9	35	<0.1	<0.1	34	0.23	0.024	3	
PP11-MRP17	Soil	0.5	12.5	6.0	56	<0.1	32.1	8.0	187	1.82	<0.5	<0.5	1.1	23	<0.1	<0.1	39	0.17	0.062	2	
PP11-MRP18	Soil	0.4	15.4	6.2	41	<0.1	20.8	5.4	169	1.42	1.4	0.6	1.9	16	<0.1	<0.1	29	0.10	0.091	4	
PP11-MRP19	Soil	0.2	13.4	4.8	24	<0.1	19.5	4.5	107	1.39	<0.5	0.6	0.8	29	<0.1	<0.1	33	0.22	0.015	4	
PP11-MRP20	Soil	0.2	15.5	4.4	31	<0.1	21.9	4.8	90	1.40	<0.5	<0.5	0.8	28	<0.1	<0.1	34	0.22	0.014	5	
PP11-MRP21	Soil	0.2	14.4	4.0	30	<0.1	27.8	7.1	99	1.74	0.6	0.9	0.9	26	<0.1	<0.1	45	0.20	0.059	3	
PP11-MRP22	Soil	0.2	15.8	4.0	27	<0.1	25.0	5.9	89	1.52	<0.5	27.5	1.1	19	<0.1	<0.1	39	0.15	0.062	4	
PP11-MRP23	Soil	0.1	19.8	2.5	21	<0.1	33.9	7.6	138	1.49	<0.5	1.1	0.6	33	<0.1	<0.1	39	0.37	0.009	3	
PP11-MRP24	Soil	0.4	12.6	5.1	30	<0.1	26.6	6.3	74	1.71	1.1	0.6	1.1	12	<0.1	<0.1	37	0.09	0.127	2	
PP11-MRP25	Soil	0.4	14.1	6.2	25	<0.1	41.0	7.1	86	1.82	1.2	1.7	1.7	17	<0.1	<0.1	35	0.12	0.168	4	
PP11-MRP26	Soil	0.1	5.7	3.7	20	<0.1	11.2	2.6	45	0.89	<0.5	3.7	0.2	11	<0.1	<0.1	20	0.08	0.014	2	
PP11-MRP27	Soil	0.1	6.4	3.1	19	<0.1	11.4	2.7	66	0.99	<0.5	<0.5	0.3	19	<0.1	<0.1	24	0.12	0.012	2	
PP11-MRP28	Soil	0.5	14.2	5.5	31	<0.1	48.2	8.7	82	2.05	0.6	0.5	1.2	16	<0.1	<0.1	40	0.09	0.167	2	
PP11-MRP29	Soil	0.4	21.2	6.4	73	<0.1	70.8	10.2	143	2.37	0.9	0.7	1.5	32	<0.1	<0.1	47	0.21	0.121	4	
PP11-MRP30	Soil	0.4	21.9	7.6	59	0.1	53.1	10.9	181	2.40	0.8	<0.5	1.5	35	<0.1	<0.1	50	0.29	0.056	3	

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Project: Princeton
 Report Date: November 27, 2011

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CERTIFICATE OF ANALYSIS

VAN11005253.1

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	
PP11-MRP01	Soil	41	0.41	150	0.096	1	2.16	0.021	0.10	<0.1	0.03	5.4	0.1	<0.05	6	<0.5	<0.2
PP11-MRP02	Soil	39	0.29	189	0.092	<1	1.29	0.029	0.10	<0.1	0.02	3.7	0.1	<0.05	4	<0.5	<0.2
PP11-MRP03	Soil	19	0.15	129	0.073	2	0.85	0.024	0.09	<0.1	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
PP11-MRP04	Soil	42	0.51	81	0.070	2	1.42	0.022	0.09	<0.1	0.03	4.6	<0.1	<0.05	4	<0.5	<0.2
PP11-MRP05	Soil	12	0.15	66	0.049	<1	0.86	0.017	0.05	<0.1	0.02	1.1	<0.1	<0.05	3	<0.5	<0.2
PP11-MRP06	Soil	41	0.38	91	0.087	<1	1.76	0.028	0.11	<0.1	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP07	Soil	25	0.28	99	0.088	1	1.88	0.024	0.09	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP08	Soil	17	0.23	81	0.072	<1	1.48	0.018	0.06	<0.1	0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP09	Soil	40	0.47	130	0.095	<1	2.25	0.023	0.09	<0.1	0.02	4.6	<0.1	<0.05	6	<0.5	<0.2
PP11-MRP10	Soil	18	0.23	78	0.080	<1	1.65	0.021	0.05	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP11	Soil	19	0.20	133	0.095	<1	2.37	0.018	0.06	<0.1	0.02	1.4	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP12	Soil	20	0.21	119	0.085	<1	2.08	0.020	0.04	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
PP11-MRP13	Soil	26	0.27	148	0.092	1	2.74	0.023	0.06	0.4	0.03	2.4	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP14	Soil	22	0.23	112	0.079	<1	2.10	0.015	0.05	<0.1	0.02	1.4	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP15	Soil	22	0.19	112	0.081	<1	2.14	0.019	0.05	<0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP16	Soil	28	0.25	136	0.082	<1	1.76	0.030	0.04	<0.1	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP17	Soil	27	0.22	181	0.090	<1	2.89	0.019	0.06	<0.1	0.02	2.1	<0.1	<0.05	8	<0.5	<0.2
PP11-MRP18	Soil	16	0.17	138	0.100	<1	2.71	0.021	0.06	0.1	0.02	2.4	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP19	Soil	26	0.30	92	0.077	<1	1.42	0.020	0.05	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PP11-MRP20	Soil	31	0.34	105	0.079	<1	1.45	0.025	0.04	<0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PP11-MRP21	Soil	42	0.42	112	0.083	<1	1.74	0.025	0.05	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP22	Soil	29	0.30	88	0.080	<1	1.73	0.025	0.05	<0.1	<0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP23	Soil	71	0.75	68	0.124	<1	1.42	0.037	0.05	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PP11-MRP24	Soil	26	0.26	57	0.084	<1	2.04	0.021	0.04	<0.1	0.02	1.8	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP25	Soil	25	0.22	117	0.106	1	2.82	0.022	0.08	<0.1	0.03	2.4	<0.1	<0.05	8	<0.5	<0.2
PP11-MRP26	Soil	15	0.15	47	0.060	<1	1.11	0.020	0.02	<0.1	<0.01	0.9	<0.1	<0.05	4	<0.5	<0.2
PP11-MRP27	Soil	12	0.14	43	0.057	<1	0.95	0.023	0.02	<0.1	0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
PP11-MRP28	Soil	39	0.45	82	0.084	<1	2.43	0.017	0.04	<0.1	0.02	2.7	<0.1	<0.05	8	<0.5	<0.2
PP11-MRP29	Soil	42	0.45	209	0.115	<1	4.45	0.020	0.08	<0.1	0.03	3.5	<0.1	<0.05	10	<0.5	<0.2
PP11-MRP30	Soil	47	0.42	163	0.112	<1	3.57	0.018	0.12	<0.1	0.03	3.5	<0.1	<0.05	9	<0.5	<0.2

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Project: Princeton
 Report Date: November 27, 2011

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CERTIFICATE OF ANALYSIS

VAN11005253.1

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	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	
PP11-MRP31	Soil	0.1	17.8	4.5	25	<0.1	26.5	5.8	213	1.39	<0.5	<0.5	0.9	27	<0.1	<0.1	<0.1	33	0.20	0.012	4
PP11-MRP32	Soil	0.1	8.0	2.2	24	<0.1	16.2	4.1	110	1.21	<0.5	0.6	0.5	21	<0.1	<0.1	<0.1	32	0.16	0.009	4
PP11-MRP33	Soil	0.1	11.2	3.9	29	<0.1	25.6	4.3	303	1.32	<0.5	0.7	0.7	29	<0.1	<0.1	<0.1	33	0.23	0.015	5
PP11-MRP34	Soil	0.4	7.5	7.3	45	<0.1	11.7	4.9	138	1.50	0.8	0.5	1.6	32	<0.1	<0.1	0.1	34	0.12	0.155	5
PP11-MRP35	Soil	0.2	12.2	5.6	30	<0.1	13.7	6.4	106	1.61	<0.5	1.0	1.7	54	<0.1	<0.1	0.1	39	0.18	0.042	7
PP11-MRP36	Soil	0.2	7.9	6.5	33	<0.1	9.3	4.6	567	1.29	<0.5	<0.5	0.9	45	<0.1	<0.1	0.1	32	0.19	0.033	4
PP11-MRP37	Soil	0.3	9.4	5.6	56	<0.1	12.6	5.2	286	1.50	0.8	<0.5	1.5	28	<0.1	<0.1	0.1	36	0.10	0.115	5
PP11-MRP38	Soil	0.2	11.2	5.4	38	<0.1	13.5	5.9	159	1.61	0.5	0.9	1.6	44	<0.1	<0.1	0.1	39	0.16	0.190	7
PP11-MRP39	Soil	0.4	7.8	5.6	47	<0.1	11.8	5.0	307	1.53	0.8	<0.5	1.4	17	<0.1	<0.1	0.1	40	0.10	0.111	3
PP11-MRP40	Soil	0.2	8.8	4.5	24	<0.1	11.2	3.8	83	1.37	0.7	<0.5	0.8	32	<0.1	<0.1	<0.1	33	0.15	0.033	6
PP11-MRP41	Soil	0.6	6.0	5.5	35	<0.1	13.1	4.0	85	1.39	0.8	<0.5	1.3	20	<0.1	<0.1	0.1	30	0.10	0.139	3
PP11-MRP42	Soil	0.4	7.2	6.0	96	<0.1	15.0	4.0	374	1.36	0.7	<0.5	1.4	30	<0.1	<0.1	0.2	27	0.19	0.209	5
PP11-MRP43	Soil	0.2	22.6	6.1	53	<0.1	34.5	9.3	292	2.66	1.4	<0.5	2.3	60	<0.1	0.1	0.1	62	0.33	0.094	7
PP11-MRP44	Soil	0.4	10.0	5.3	55	<0.1	13.3	4.5	437	1.45	1.0	0.5	0.9	27	<0.1	<0.1	0.1	28	0.15	0.220	3
PP11-MRP45	Soil	0.3	3.7	5.0	54	<0.1	4.2	2.9	319	1.22	<0.5	<0.5	0.5	29	<0.1	<0.1	0.1	24	0.19	0.260	2
PP11-MRP46	Soil	0.4	10.6	5.4	60	<0.1	15.8	4.4	433	1.53	1.1	<0.5	1.7	16	<0.1	<0.1	0.1	32	0.12	0.261	3
PP11-MRP47	Soil	0.3	5.8	4.0	42	<0.1	8.9	5.1	307	1.56	<0.5	<0.5	0.7	22	<0.1	<0.1	<0.1	43	0.14	0.080	3
PP11-MRP48	Soil	0.2	13.6	5.6	65	<0.1	24.8	6.9	277	2.00	0.9	<0.5	1.7	38	<0.1	<0.1	0.1	51	0.22	0.072	4
PP11-MRP49	Soil	0.3	12.2	6.1	66	<0.1	16.8	8.6	312	2.46	1.0	1.2	2.0	32	<0.1	0.1	0.1	63	0.23	0.092	4
PP11-MRP50	Soil	0.3	9.2	5.7	59	<0.1	17.1	6.7	216	1.91	0.5	<0.5	1.1	33	<0.1	<0.1	0.1	46	0.16	0.063	3
PMS-120	Soil Pulp	17.1	62.9	17.2	17	0.2	16.1	2.5	123	3.77	448.1	206.3	0.8	32	0.3	28.4	0.2	10	1.05	0.005	2
PP11-MRP51	Soil	0.3	6.0	5.2	44	<0.1	11.6	4.4	335	1.49	<0.5	<0.5	0.6	39	<0.1	<0.1	0.1	34	0.15	0.046	3
PP11-MRP52	Soil	0.3	5.3	4.2	42	<0.1	6.3	3.7	350	1.08	<0.5	1.6	0.5	23	<0.1	<0.1	<0.1	30	0.12	0.028	2
PP11-MRP53	Soil	0.3	13.1	7.0	38	<0.1	15.5	6.1	153	1.74	0.5	2.6	1.7	43	<0.1	<0.1	<0.1	50	0.21	0.034	4
PP11-MRP54	Soil	0.4	7.3	5.9	56	<0.1	10.7	3.8	134	1.04	0.8	0.9	1.0	25	<0.1	<0.1	0.1	31	0.17	0.060	3
PP11-MRP55	Soil	0.3	7.5	5.5	42	<0.1	13.1	4.0	193	1.08	<0.5	<0.5	0.8	28	<0.1	<0.1	0.1	28	0.16	0.041	3
PP11-MRP56	Soil	0.3	6.2	5.9	48	<0.1	12.4	3.9	236	1.43	<0.5	<0.5	1.1	29	<0.1	<0.1	0.1	30	0.14	0.098	3
PP11-MRP57	Soil	0.2	9.2	5.2	42	<0.1	14.4	4.9	153	1.59	<0.5	<0.5	1.5	44	<0.1	<0.1	0.1	37	0.16	0.046	4
PP11-MRP58	Soil	0.4	5.3	5.3	54	<0.1	7.9	3.4	192	1.47	0.9	<0.5	1.3	12	<0.1	<0.1	0.1	30	0.07	0.114	3
PP11-MRP59	Soil	0.6	9.3	6.4	70	<0.1	14.8	4.4	338	1.50	1.0	0.9	1.4	21	<0.1	<0.1	0.1	34	0.10	0.108	3

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Project: Princeton
 Report Date: November 27, 2011

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CERTIFICATE OF ANALYSIS

VAN11005253.1

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
PP11-MRP31	Soil	25	0.28	73	0.073	<1	1.46	0.033	0.03	<0.1	0.01	3.7	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP32	Soil	21	0.24	57	0.069	<1	0.99	0.025	0.03	<0.1	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
PP11-MRP33	Soil	26	0.31	79	0.069	<1	1.46	0.025	0.04	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
PP11-MRP34	Soil	14	0.15	93	0.111	<1	2.38	0.018	0.06	<0.1	0.04	1.4	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP35	Soil	23	0.28	98	0.117	<1	1.44	0.024	0.06	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP36	Soil	16	0.20	94	0.103	<1	1.46	0.027	0.07	<0.1	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP37	Soil	12	0.17	100	0.103	<1	1.97	0.023	0.05	0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP38	Soil	16	0.22	143	0.099	2	1.81	0.022	0.05	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
PP11-MRP39	Soil	15	0.20	90	0.099	<1	1.50	0.015	0.07	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
PP11-MRP40	Soil	15	0.21	69	0.076	<1	1.26	0.024	0.06	<0.1	0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP41	Soil	11	0.14	82	0.090	<1	1.67	0.019	0.05	0.1	0.03	1.2	<0.1	<0.05	6	<0.5	<0.2
PP11-MRP42	Soil	14	0.14	136	0.098	3	2.02	0.025	0.07	<0.1	0.04	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11-MRP43	Soil	33	0.63	207	0.143	<1	3.33	0.024	0.16	<0.1	0.02	4.0	0.1	<0.05	9	<0.5	<0.2
PP11-MRP44	Soil	15	0.21	108	0.085	2	1.71	0.020	0.06	<0.1	0.03	1.9	<0.1	<0.05	6	<0.5	<0.2
PP11-MRP45	Soil	7	0.10	83	0.067	<1	1.00	0.017	0.04	<0.1	0.02	1.1	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP46	Soil	11	0.16	74	0.103	1	2.26	0.019	0.05	<0.1	0.04	1.8	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP47	Soil	13	0.16	52	0.087	<1	1.04	0.024	0.04	<0.1	0.03	1.3	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP48	Soil	23	0.37	102	0.120	<1	2.05	0.024	0.10	<0.1	0.02	2.4	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP49	Soil	19	0.47	114	0.135	<1	2.24	0.021	0.16	<0.1	0.03	2.4	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP50	Soil	24	0.28	119	0.106	<1	2.45	0.025	0.08	<0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
PMS-120	Soil Pulp	23	0.03	991	0.010	2	0.20	0.008	0.06	2.6	3.00	0.7	11.0	0.14	<1	1.4	<0.2
PP11-MRP51	Soil	13	0.14	128	0.084	<1	1.80	0.029	0.05	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP52	Soil	9	0.10	107	0.070	<1	1.57	0.020	0.04	<0.1	<0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP53	Soil	34	0.17	156	0.114	1	2.31	0.024	0.07	<0.1	0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
PP11-MRP54	Soil	15	0.11	96	0.093	2	1.64	0.021	0.07	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP55	Soil	18	0.12	137	0.094	<1	1.90	0.023	0.08	<0.1	0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
PP11-MRP56	Soil	13	0.13	114	0.096	<1	1.79	0.027	0.06	<0.1	0.02	1.1	<0.1	<0.05	6	<0.5	<0.2
PP11-MRP57	Soil	23	0.16	183	0.114	1	2.40	0.032	0.06	<0.1	0.02	1.7	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP58	Soil	9	0.08	52	0.097	1	1.79	0.021	0.03	0.1	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2
PP11-MRP59	Soil	15	0.14	101	0.106	<1	2.34	0.023	0.04	<0.1	0.02	1.4	<0.1	<0.05	8	<0.5	<0.2

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Project: Princeton
 Report Date: November 27, 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	
		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	
PP11-MRP60	Soil	0.4	8.2	6.1	53	<0.1	10.9	4.1	362	1.48	1.2	<0.5	1.5	24	<0.1	<0.1	0.1	35	0.13	0.072	4
PP11-MRP61	Soil	0.6	7.5	6.1	69	<0.1	15.3	4.9	396	1.53	0.9	4.0	0.8	22	<0.1	<0.1	0.1	38	0.16	0.055	2
PP11-MRP62	Soil	0.5	7.4	5.8	59	<0.1	14.9	4.3	380	1.52	0.8	<0.5	1.3	22	<0.1	<0.1	0.1	36	0.13	0.085	3
PP11-MRP63	Soil	0.5	9.2	5.8	55	<0.1	15.3	5.2	271	1.61	0.9	4.7	1.4	25	<0.1	<0.1	0.1	39	0.13	0.063	4
PP11-MRP64	Soil	0.5	6.0	6.1	65	<0.1	14.8	5.2	469	1.54	0.8	<0.5	0.8	30	<0.1	<0.1	0.1	36	0.16	0.070	3
PP11-MRP65	Soil	0.2	9.1	7.0	61	<0.1	24.8	6.4	571	1.85	<0.5	<0.5	1.2	49	<0.1	<0.1	0.1	41	0.20	0.023	4
PP11-MRP66	Soil	0.3	18.2	4.6	32	<0.1	20.4	7.1	604	1.92	0.9	<0.5	2.2	63	<0.1	<0.1	0.1	44	0.36	0.027	17
PP11-MRP67	Soil	0.2	15.8	4.0	33	<0.1	15.1	5.2	450	1.57	0.7	<0.5	1.3	42	<0.1	<0.1	<0.1	39	0.23	0.026	8
PP11-MRP68	Soil	0.2	6.0	4.0	27	<0.1	7.1	3.6	325	1.24	<0.5	<0.5	0.5	31	<0.1	<0.1	<0.1	29	0.17	0.024	2
PP11-MRP69	Soil	0.2	6.3	2.6	31	<0.1	11.8	3.8	254	1.29	<0.5	0.5	0.4	23	<0.1	<0.1	<0.1	28	0.15	0.027	2
PP11-MRP70	Soil	0.2	8.3	4.1	39	<0.1	12.4	4.0	350	1.36	<0.5	1.2	0.5	31	<0.1	<0.1	<0.1	32	0.18	0.033	3
PP11-MRP71	Soil	0.4	11.2	4.3	49	<0.1	17.8	5.7	328	1.51	<0.5	<0.5	0.7	31	<0.1	<0.1	<0.1	37	0.17	0.092	2
PP11-MRP72	Soil	0.2	11.2	3.9	38	<0.1	19.1	4.4	240	1.24	0.7	3.2	0.7	24	<0.1	<0.1	0.1	28	0.13	0.070	3
PP11-MRP73	Soil	0.4	15.2	4.6	56	<0.1	15.9	6.6	254	1.63	1.1	2.2	1.0	21	<0.1	<0.1	0.1	35	0.11	0.086	3
PP11-MRP74	Soil	0.2	26.6	4.3	31	<0.1	25.3	4.9	345	1.62	1.2	0.7	0.9	42	<0.1	<0.1	0.1	40	0.24	0.019	11
PP11-MRP75	Soil	0.3	14.5	4.5	30	<0.1	24.2	5.5	100	1.43	1.7	1.1	0.9	20	<0.1	<0.1	0.1	32	0.12	0.095	4
PP11-MRP76	Soil	0.4	12.6	4.9	40	<0.1	23.0	6.3	248	1.54	1.8	7.6	1.4	28	<0.1	<0.1	0.1	39	0.17	0.096	4
PP11-MRP77	Soil	0.2	17.5	4.1	28	<0.1	20.3	4.5	403	1.34	1.0	1.4	0.8	42	<0.1	<0.1	<0.1	33	0.28	0.017	10
PP11-MRP78	Soil	0.2	13.6	4.2	28	<0.1	20.8	5.7	168	1.49	1.0	2.8	1.0	33	<0.1	0.1	<0.1	41	0.21	0.015	5
PP11-MRP79	Soil	0.2	10.9	4.3	27	<0.1	18.2	4.4	89	1.37	1.0	4.9	0.8	26	<0.1	0.1	<0.1	35	0.16	0.022	3
PP11-MRP80	Soil	0.4	18.2	4.2	46	0.3	23.3	6.7	127	1.69	2.0	19.7	1.2	24	<0.1	0.2	<0.1	44	0.15	0.089	4
PP11-MRP81	Soil	0.7	17.5	4.9	51	0.2	24.5	6.3	228	1.63	1.8	6.3	1.4	17	<0.1	0.1	<0.1	40	0.14	0.093	5
PP11-MRP82	Soil	0.4	16.6	4.9	50	0.2	26.3	6.5	148	1.69	2.3	20.1	1.3	23	<0.1	0.1	0.1	41	0.15	0.111	4
PP11-MRP83	Soil	0.6	18.6	5.4	41	0.1	29.6	6.4	148	1.76	3.1	101.4	1.3	21	<0.1	0.2	0.1	39	0.13	0.137	4
PP11-MRP84	Soil	0.7	20.6	4.7	49	0.2	22.3	5.8	135	1.90	3.2	<0.5	1.0	28	<0.1	0.2	<0.1	48	0.19	0.031	4
PP11-MRP85	Soil	0.8	17.6	4.9	57	0.2	27.5	6.6	168	1.71	3.2	3.1	1.1	15	0.1	0.1	<0.1	42	0.13	0.111	3
PP11-MRP86	Soil	0.4	21.2	51.6	73	1.9	17.3	5.0	113	1.70	2.9	360.5	1.3	23	0.2	0.8	0.2	38	0.13	0.184	5
PP11-MRP87	Soil	0.5	13.3	4.9	50	0.9	18.4	5.4	142	1.39	1.8	5.5	1.0	14	<0.1	<0.1	<0.1	36	0.12	0.096	3
PP11-MRP88	Soil	0.5	13.8	4.4	72	0.4	21.8	6.2	167	1.99	1.2	8.7	0.7	23	0.2	<0.1	<0.1	39	0.23	0.067	3
PP11-MRP89	Soil	0.4	9.8	4.4	45	0.1	28.1	6.2	223	1.41	1.1	1.1	1.0	19	<0.1	<0.1	<0.1	33	0.13	0.107	3

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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	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		
PP11-MRP60	Soil	15	0.14	84	0.102	2	2.01	0.032	0.04	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2	
PP11-MRP61	Soil	16	0.15	95	0.103	3	2.08	0.021	0.06	<0.1	0.04	1.0	<0.1	<0.05	7	<0.5	<0.2	
PP11-MRP62	Soil	13	0.13	84	0.111	1	2.31	0.023	0.04	0.1	0.05	1.5	<0.1	<0.05	7	<0.5	<0.2	
PP11-MRP63	Soil	16	0.16	96	0.114	1	2.27	0.025	0.04	<0.1	0.03	1.6	<0.1	<0.05	7	<0.5	<0.2	
PP11-MRP64	Soil	16	0.14	98	0.096	2	1.64	0.027	0.06	0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2	
PP11-MRP65	Soil	29	0.24	144	0.106	<1	2.49	0.026	0.06	<0.1	0.02	2.0	<0.1	<0.05	7	<0.5	<0.2	
PP11-MRP66	Soil	32	0.43	49	0.073	<1	1.86	0.029	0.09	<0.1	0.03	7.9	<0.1	<0.05	5	<0.5	<0.2	
PP11-MRP67	Soil	22	0.34	63	0.070	1	1.39	0.026	0.08	<0.1	0.03	4.9	<0.1	0.06	4	<0.5	<0.2	
PP11-MRP68	Soil	13	0.19	55	0.058	1	0.94	0.026	0.07	<0.1	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2	
PP11-MRP69	Soil	13	0.17	47	0.057	<1	1.01	0.022	0.05	<0.1	0.02	1.4	<0.1	<0.05	3	<0.5	<0.2	
PP11-MRP70	Soil	14	0.20	67	0.070	<1	1.26	0.025	0.04	<0.1	<0.01	1.4	<0.1	0.05	4	<0.5	<0.2	
PP11-MRP71	Soil	21	0.27	92	0.077	<1	1.64	0.022	0.06	<0.1	0.03	1.8	<0.1	0.05	5	<0.5	<0.2	
PP11-MRP72	Soil	16	0.18	129	0.072	2	1.63	0.025	0.06	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2	
PP11-MRP73	Soil	17	0.23	135	0.094	2	2.22	0.022	0.04	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2	
PP11-MRP74	Soil	28	0.28	83	0.080	2	1.78	0.027	0.04	<0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2	
PP11-MRP75	Soil	22	0.18	98	0.076	2	1.77	0.019	0.05	0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2	
PP11-MRP76	Soil	23	0.20	115	0.091	2	2.16	0.024	0.04	0.1	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2	
PP11-MRP77	Soil	29	0.30	85	0.076	<1	1.57	0.035	0.04	<0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2	
PP11-MRP78	Soil	35	0.34	82	0.091	<1	1.35	0.029	0.06	0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2	
PP11-MRP79	Soil	26	0.26	91	0.081	<1	1.46	0.023	0.06	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2	
PP11-MRP80	Soil	23	0.28	116	0.077	<1	1.58	0.023	0.05	0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2	
PP11-MRP81	Soil	23	0.23	108	0.086	1	1.98	0.029	0.06	0.2	0.03	2.3	<0.1	<0.05	5	<0.5	<0.2	
PP11-MRP82	Soil	25	0.27	127	0.085	1	1.75	0.020	0.06	0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2	
PP11-MRP83	Soil	25	0.25	113	0.077	<1	2.05	0.018	0.07	0.2	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2	
PP11-MRP84	Soil	26	0.39	128	0.087	<1	1.63	0.023	0.10	<0.1	0.01	2.7	<0.1	<0.05	5	<0.5	<0.2	
PP11-MRP85	Soil	23	0.29	117	0.083	1	1.78	0.023	0.05	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2	
PP11-MRP86	Soil	19	0.24	132	0.061	<1	1.49	0.014	0.05	<0.1	0.04	2.4	<0.1	<0.05	6	<0.5	0.5	
PP11-MRP87	Soil	18	0.19	74	0.083	<1	1.78	0.020	0.04	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2	
PP11-MRP88	Soil	24	0.22	99	0.073	<1	1.68	0.015	0.05	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2	
PP11-MRP89	Soil	25	0.21	101	0.081	<1	1.99	0.023	0.05	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2	

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Project: Princeton
 Report Date: November 27, 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
PP11-MRP90	Soil	0.3	11.8	5.4	51	<0.1	29.6	5.6	142	1.58	1.3	3.6	1.0	22	<0.1	<0.1	0.1	33	0.13	0.173	5
PP11-MRP91	Soil	0.4	19.0	5.2	45	<0.1	47.9	9.0	155	2.06	0.9	1.7	1.1	36	<0.1	<0.1	<0.1	46	0.19	0.052	3
PP11-MRP92	Soil	0.4	12.0	5.0	58	<0.1	27.5	8.5	561	1.61	0.9	0.5	0.8	33	<0.1	<0.1	<0.1	39	0.17	0.087	3
PP11-MRP93	Soil	0.3	20.3	6.9	42	<0.1	62.3	10.9	213	2.25	1.1	1.1	0.9	36	<0.1	<0.1	0.1	44	0.24	0.051	2
PP11-MRP94	Soil	0.2	14.6	4.9	40	<0.1	35.2	6.2	134	1.63	0.7	<0.5	1.0	35	<0.1	<0.1	<0.1	39	0.21	0.024	5
PP11-MRP95	Soil	0.3	12.0	4.4	34	<0.1	32.7	6.3	143	1.58	1.2	<0.5	1.0	22	<0.1	<0.1	0.1	32	0.12	0.132	3
PP11-MRP96	Soil	0.2	16.4	3.1	29	<0.1	23.7	5.7	107	1.44	1.2	2.3	0.9	18	<0.1	<0.1	<0.1	39	0.16	0.050	3
PP11-MRP97	Soil	0.2	14.5	3.1	29	<0.1	20.3	5.6	193	1.47	1.2	1.4	0.9	29	<0.1	<0.1	<0.1	39	0.24	0.031	4
PP11-MRP98	Soil	0.3	4.1	4.2	13	<0.1	4.2	2.1	25	0.76	0.8	1.0	0.6	15	<0.1	0.2	<0.1	21	0.06	0.115	3
PP11-MRP99	Soil	0.4	9.0	6.2	32	<0.1	14.2	5.0	70	1.43	0.8	<0.5	1.1	30	<0.1	<0.1	0.1	35	0.12	0.121	4
PP11-MRP100	Soil	0.2	13.0	5.4	27	<0.1	15.5	6.1	103	1.73	0.5	<0.5	1.3	66	<0.1	<0.1	0.1	44	0.20	0.044	4
PMS-119	Soil Pulp	116.1	3322	22.0	57	2.3	32.8	18.9	382	3.97	52.3	411.8	1.9	28	0.3	3.1	0.4	118	0.30	0.082	10
PP11-MRP101	Soil	0.2	13.2	5.9	35	<0.1	18.3	4.8	131	1.64	1.4	1.6	1.4	25	<0.1	<0.1	0.1	45	0.11	0.132	9
PP11-MRP102	Soil	0.2	14.0	4.4	28	<0.1	13.2	5.6	117	1.63	0.6	<0.5	1.2	52	<0.1	<0.1	<0.1	45	0.20	0.025	7
PP11-MRP103	Soil	0.4	15.3	4.6	44	<0.1	17.8	8.6	166	2.13	1.1	2.2	2.4	46	<0.1	<0.1	<0.1	61	0.21	0.091	7
PP11-MRP104	Soil	0.2	24.0	6.0	32	0.1	14.6	6.2	239	1.69	0.9	3.5	1.5	74	<0.1	<0.1	0.1	43	0.39	0.029	18
PP11-MRP104 D	Soil	0.2	17.4	6.4	29	<0.1	15.7	6.1	134	1.71	0.8	1.3	2.2	61	<0.1	0.1	0.1	48	0.27	0.029	17
PP11-MRP105	Soil	0.3	15.4	4.6	39	0.2	10.5	7.0	213	1.99	0.9	2.3	2.5	34	<0.1	<0.1	0.1	51	0.26	0.058	18
PP11-MRP106	Soil	0.4	20.4	4.6	55	<0.1	15.1	9.2	228	2.66	1.6	0.6	2.6	41	<0.1	<0.1	0.2	80	0.32	0.075	6
PP11-MRP107	Soil	0.5	21.1	5.6	60	0.1	16.3	8.9	205	2.43	1.9	<0.5	3.0	34	<0.1	0.1	0.2	66	0.27	0.137	6
PP11-MRP108	Soil	1.0	9.4	5.6	53	<0.1	8.8	8.8	387	2.43	1.4	<0.5	1.2	27	<0.1	<0.1	0.2	71	0.26	0.052	3
PP11-MRP109	Soil	0.9	14.5	4.5	64	0.2	10.6	10.2	368	2.79	1.6	1.1	2.2	26	<0.1	<0.1	0.2	87	0.27	0.117	4
PP11-MRP110	Soil	0.6	31.8	4.0	76	<0.1	12.2	17.1	458	4.37	2.7	2.1	4.0	57	<0.1	0.2	0.2	130	0.40	0.088	6
PP11-MRP111	Soil	0.4	32.5	4.6	65	<0.1	10.4	13.9	304	4.64	3.3	1.3	2.8	40	<0.1	0.2	0.2	151	0.56	0.080	6
PP11-MRP112	Soil	0.7	11.2	6.1	72	<0.1	10.7	9.2	830	2.51	1.3	1.2	1.2	32	<0.1	<0.1	0.2	71	0.27	0.063	3
PP11-MRP113	Soil	0.4	17.8	4.8	65	0.2	16.7	8.9	220	2.53	1.7	<0.5	1.6	35	<0.1	0.1	0.2	77	0.27	0.070	4
PP11-MRP114	Soil	0.5	22.6	4.4	66	<0.1	15.8	11.4	324	3.24	2.3	0.7	1.9	49	<0.1	0.2	0.1	103	0.43	0.115	6
PP11-MRP115	Soil	0.5	12.0	4.8	56	0.1	11.5	8.1	458	2.10	1.4	0.9	0.9	31	<0.1	<0.1	0.1	65	0.25	0.075	3
PP11-MRP116	Soil	0.7	13.1	5.2	99	0.1	11.5	7.8	898	2.15	1.6	<0.5	1.0	28	0.1	<0.1	0.1	65	0.23	0.149	3
PP11-MRP117	Soil	0.4	15.1	5.1	55	<0.1	14.7	8.9	298	2.66	1.8	<0.5	1.6	55	<0.1	1.0	0.1	82	0.43	0.060	4

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 Report Date: November 27, 2011

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CERTIFICATE OF ANALYSIS

VAN11005253.1

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	0.01	0.05	1	0.5	0.2
PP11-MRP90	Soil	29	0.22	135	0.083	<1	2.46	0.017	0.05	<0.1	0.03	1.8	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP91	Soil	41	0.33	118	0.093	<1	2.49	0.019	0.06	0.1	0.02	2.5	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP92	Soil	33	0.25	122	0.078	<1	2.70	0.020	0.07	<0.1	0.02	1.9	<0.1	<0.05	8	0.6	<0.2
PP11-MRP93	Soil	49	0.61	148	0.101	<1	3.41	0.020	0.05	<0.1	0.03	2.7	<0.1	<0.05	8	<0.5	<0.2
PP11-MRP94	Soil	41	0.44	111	0.090	<1	1.95	0.029	0.05	<0.1	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP95	Soil	25	0.21	94	0.078	<1	2.35	0.020	0.04	<0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP96	Soil	32	0.34	102	0.072	<1	1.58	0.022	0.03	<0.1	<0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP97	Soil	38	0.37	87	0.077	1	1.33	0.024	0.08	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
PP11-MRP98	Soil	8	0.05	37	0.063	<1	1.39	0.016	0.03	<0.1	0.03	0.9	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP99	Soil	16	0.17	92	0.094	<1	2.10	0.018	0.05	<0.1	0.03	1.3	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP100	Soil	26	0.36	126	0.121	<1	1.83	0.025	0.08	<0.1	0.01	2.0	0.1	<0.05	5	<0.5	<0.2
PMS-119	Soil Pulp	51	0.83	45	0.106	1	1.28	0.041	0.83	3.6	0.07	8.9	0.5	1.95	5	6.5	0.8
PP11-MRP101	Soil	20	0.18	85	0.104	<1	2.04	0.024	0.05	<0.1	0.02	2.0	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP102	Soil	28	0.33	95	0.119	<1	1.55	0.026	0.08	<0.1	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP103	Soil	24	0.41	168	0.142	<1	2.02	0.029	0.13	<0.1	0.02	2.2	0.1	<0.05	6	<0.5	<0.2
PP11-MRP104	Soil	28	0.43	143	0.123	<1	1.73	0.029	0.13	<0.1	0.03	4.8	0.1	<0.05	5	0.6	<0.2
PP11-MRP104 D	Soil	34	0.40	115	0.125	<1	1.86	0.030	0.08	<0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP105	Soil	18	0.45	162	0.154	<1	1.84	0.020	0.16	0.1	0.02	2.9	0.1	<0.05	6	<0.5	<0.2
PP11-MRP106	Soil	20	0.54	194	0.173	3	2.32	0.024	0.27	0.1	0.02	3.0	0.1	<0.05	7	<0.5	<0.2
PP11-MRP107	Soil	17	0.48	223	0.170	2	2.76	0.026	0.22	0.2	0.02	2.8	<0.1	<0.05	8	<0.5	<0.2
PP11-MRP108	Soil	11	0.44	148	0.189	2	2.10	0.020	0.15	0.4	0.02	1.7	0.1	<0.05	7	<0.5	<0.2
PP11-MRP109	Soil	14	0.50	161	0.193	<1	1.98	0.021	0.18	0.5	0.03	2.0	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP110	Soil	19	1.11	243	0.310	<1	2.66	0.015	0.68	0.4	0.01	3.2	0.2	0.05	9	<0.5	<0.2
PP11-MRP111	Soil	21	0.94	136	0.232	<1	2.31	0.020	0.46	0.2	0.01	4.2	0.1	0.05	8	<0.5	<0.2
PP11-MRP112	Soil	15	0.42	142	0.155	<1	2.47	0.018	0.10	0.3	0.02	2.6	<0.1	<0.05	8	<0.5	<0.2
PP11-MRP113	Soil	22	0.49	131	0.138	<1	2.58	0.027	0.13	0.2	0.02	2.8	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP114	Soil	23	0.68	125	0.144	<1	2.50	0.026	0.16	0.1	0.02	4.7	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP115	Soil	17	0.37	111	0.117	1	2.11	0.022	0.11	<0.1	0.02	2.3	<0.1	0.05	6	<0.5	<0.2
PP11-MRP116	Soil	14	0.31	115	0.104	<1	2.04	0.024	0.08	<0.1	0.02	2.0	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP117	Soil	19	0.48	136	0.124	5	2.33	0.023	0.15	0.1	<0.01	3.4	0.1	<0.05	7	<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	
PP11-MRP118	Soil	0.5	11.3	5.3	56	<0.1	20.8	7.7	252	1.93	1.0	0.8	1.0	39	<0.1	<0.1	<0.1	56	0.20	0.069	3
PP11-MRP119	Soil	0.3	14.3	4.8	47	<0.1	17.4	6.8	191	2.15	0.7	0.8	1.3	67	<0.1	<0.1	<0.1	65	0.24	0.025	4
PP11-MRP120	Soil	0.4	20.8	5.6	49	<0.1	22.8	8.4	264	2.44	1.4	<0.5	1.9	65	<0.1	0.1	0.1	68	0.32	0.024	9
PP11-RP01	Soil	0.5	17.8	11.3	53	<0.1	16.8	7.1	405	1.93	1.6	<0.5	2.1	33	<0.1	<0.1	0.2	45	0.15	0.104	9
PP11-RP02	Soil	0.5	9.0	6.7	38	<0.1	12.3	5.5	145	1.60	1.3	1.1	1.4	24	<0.1	<0.1	0.1	40	0.12	0.095	5
PP11-RP03	Soil	0.4	13.8	5.9	47	<0.1	22.2	8.8	205	1.99	1.3	20.8	2.5	34	<0.1	<0.1	0.1	51	0.15	0.074	7
PP11-RP04	Soil	0.6	14.0	6.4	60	<0.1	20.2	8.4	344	2.23	2.1	1.2	2.6	15	<0.1	<0.1	0.1	59	0.11	0.127	5
PP11-RP05	Soil	0.4	13.2	6.3	62	<0.1	18.7	8.0	362	2.23	1.7	13.3	2.8	33	<0.1	<0.1	0.1	64	0.20	0.093	6
PP11-RP06	Soil	0.2	16.7	6.3	64	<0.1	23.2	8.8	415	2.38	1.6	2.6	2.8	30	<0.1	<0.1	0.1	67	0.16	0.082	5
PP11-RP07	Soil	0.3	13.7	5.3	59	<0.1	22.1	8.9	271	2.10	1.5	2.0	2.7	40	<0.1	<0.1	0.1	58	0.19	0.098	7
PP11-RP08	Soil	0.5	8.7	5.9	59	<0.1	14.8	6.2	325	1.73	1.2	0.6	1.9	25	<0.1	<0.1	0.1	47	0.12	0.118	5
PP11-RP09	Soil	0.3	5.0	5.6	45	<0.1	10.4	3.7	204	1.18	0.9	<0.5	1.1	13	<0.1	<0.1	0.1	27	0.06	0.167	4
PP11-RP10	Soil	0.5	4.4	9.1	41	<0.1	7.0	3.0	246	1.21	1.5	1.8	1.2	18	0.2	<0.1	0.1	28	0.10	0.152	3
PP11-RP11	Soil	0.5	10.5	7.9	79	<0.1	19.8	6.5	358	1.60	1.3	0.9	2.0	26	<0.1	<0.1	0.1	37	0.10	0.115	5
PP11-RP12	Soil	0.7	4.7	5.9	73	<0.1	12.9	4.6	828	1.33	1.0	<0.5	1.1	21	<0.1	<0.1	0.1	33	0.12	0.086	4
PP11-RP13	Soil	1.0	5.8	7.1	72	<0.1	10.7	4.5	745	1.35	1.6	1.1	1.5	12	<0.1	<0.1	0.1	29	0.06	0.158	3
PP11-RP14	Soil	0.7	5.9	6.8	58	<0.1	8.5	3.1	210	1.25	1.8	0.5	1.5	13	<0.1	<0.1	0.1	30	0.08	0.173	3
PP11-RP15	Soil	0.4	6.0	5.6	41	<0.1	9.5	3.8	123	1.23	1.1	<0.5	1.3	19	<0.1	<0.1	0.1	28	0.12	0.151	3
PP11-RP16	Soil	0.4	13.7	10.0	36	<0.1	18.0	6.7	143	1.67	1.7	<0.5	1.5	26	0.3	<0.1	0.1	39	0.13	0.052	5
PP11-RP17	Soil	0.2	12.3	4.9	58	<0.1	23.8	7.8	280	1.86	0.7	0.7	1.0	38	<0.1	<0.1	<0.1	46	0.22	0.041	4
PP11-RP18	Soil	0.3	16.2	5.4	46	<0.1	26.1	8.0	233	1.91	0.9	0.5	1.4	43	<0.1	<0.1	<0.1	49	0.22	0.040	5
PP11-RP19	Soil	0.3	14.7	6.0	49	<0.1	28.2	7.8	425	2.09	1.0	0.8	1.5	56	<0.1	<0.1	<0.1	52	0.29	0.037	8
PP11-RP20	Soil	0.5	11.6	8.0	59	<0.1	14.0	6.7	228	1.89	1.2	<0.5	1.3	52	<0.1	<0.1	0.1	47	0.17	0.103	7
PP11-RP21	Soil	0.4	10.1	5.5	48	<0.1	8.7	4.8	305	1.58	0.9	<0.5	1.4	22	<0.1	<0.1	0.1	39	0.12	0.136	4
PP11-RP22	Soil	0.6	7.9	5.4	50	<0.1	7.7	4.5	264	1.38	0.7	<0.5	1.0	18	<0.1	<0.1	0.2	33	0.11	0.183	3
PP11-RP23	Soil	0.6	8.3	6.1	37	<0.1	10.8	4.1	130	1.52	1.0	<0.5	1.2	16	<0.1	<0.1	0.2	37	0.09	0.122	3
PP11-RP24	Soil	0.4	14.1	6.3	53	<0.1	20.6	7.7	170	1.96	1.2	0.6	1.5	29	<0.1	<0.1	0.1	49	0.15	0.107	5
PP11-RP25	Soil	0.6	14.9	7.0	57	<0.1	19.4	7.1	317	1.96	1.6	1.0	1.9	19	<0.1	<0.1	0.1	51	0.12	0.151	6
PP11-RP26	Soil	0.5	4.7	5.6	28	<0.1	6.1	2.7	126	1.28	1.0	<0.5	0.9	15	<0.1	<0.1	0.1	30	0.13	0.138	2
PP11-RP27	Soil	0.6	12.7	5.9	50	<0.1	20.7	5.7	102	1.60	1.1	0.5	1.6	11	<0.1	<0.1	0.1	36	0.07	0.136	5

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Project: Princeton
Report Date: November 27, 2011

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Method Analyte	Unit	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
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	
PP11-MRP118	Soil	25	0.33	107	0.101	<1	2.24	0.022	0.07	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2
PP11-MRP119	Soil	24	0.43	113	0.109	<1	2.12	0.028	0.07	<0.1	<0.01	3.4	<0.1	<0.05	6	<0.5	<0.2
PP11-MRP120	Soil	33	0.61	91	0.119	<1	2.25	0.035	0.08	<0.1	0.02	6.7	<0.1	<0.05	6	<0.5	<0.2
PP11-RP01	Soil	16	0.25	173	0.151	<1	3.44	0.024	0.05	<0.1	0.03	1.8	0.1	<0.05	9	<0.5	<0.2
PP11-RP02	Soil	13	0.17	90	0.126	<1	1.90	0.020	0.06	<0.1	0.03	1.2	<0.1	<0.05	6	<0.5	<0.2
PP11-RP03	Soil	23	0.34	146	0.136	<1	2.22	0.018	0.11	<0.1	0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
PP11-RP04	Soil	18	0.28	101	0.141	1	2.68	0.016	0.08	0.1	0.03	1.7	<0.1	<0.05	8	<0.5	<0.2
PP11-RP05	Soil	19	0.29	136	0.144	<1	2.28	0.018	0.09	0.1	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
PP11-RP06	Soil	26	0.43	127	0.150	<1	2.51	0.020	0.08	<0.1	0.01	2.0	<0.1	<0.05	7	<0.5	<0.2
PP11-RP07	Soil	21	0.32	120	0.125	1	2.21	0.025	0.07	<0.1	0.03	1.7	<0.1	<0.05	6	<0.5	<0.2
PP11-RP08	Soil	14	0.21	109	0.116	1	1.80	0.016	0.06	0.1	0.03	1.2	<0.1	<0.05	6	<0.5	<0.2
PP11-RP09	Soil	10	0.08	52	0.087	<1	1.30	0.016	0.03	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
PP11-RP10	Soil	8	0.06	53	0.105	<1	1.80	0.019	0.03	0.1	0.04	0.9	<0.1	<0.05	7	<0.5	<0.2
PP11-RP11	Soil	12	0.18	142	0.133	<1	2.81	0.022	0.06	<0.1	0.02	1.7	<0.1	<0.05	8	<0.5	<0.2
PP11-RP12	Soil	8	0.08	86	0.104	<1	1.65	0.023	0.03	0.1	0.03	1.1	<0.1	<0.05	6	<0.5	<0.2
PP11-RP13	Soil	8	0.07	64	0.115	1	2.30	0.020	0.03	0.2	0.04	0.9	<0.1	<0.05	7	<0.5	<0.2
PP11-RP14	Soil	8	0.07	58	0.111	<1	2.34	0.018	0.03	0.2	0.05	1.1	<0.1	<0.05	6	<0.5	<0.2
PP11-RP15	Soil	8	0.08	62	0.096	<1	1.83	0.022	0.04	<0.1	0.03	1.1	<0.1	<0.05	5	<0.5	<0.2
PP11-RP16	Soil	28	0.26	164	0.111	<1	3.01	0.022	0.04	<0.1	0.03	1.9	<0.1	<0.05	8	<0.5	<0.2
PP11-RP17	Soil	47	0.37	147	0.100	<1	2.40	0.023	0.06	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
PP11-RP18	Soil	57	0.41	155	0.107	<1	2.49	0.021	0.06	<0.1	0.02	2.7	<0.1	<0.05	7	<0.5	<0.2
PP11-RP19	Soil	65	0.43	130	0.103	1	2.43	0.020	0.12	<0.1	0.02	2.9	<0.1	<0.05	6	<0.5	<0.2
PP11-RP20	Soil	13	0.23	147	0.101	<1	2.70	0.028	0.05	<0.1	0.02	1.8	<0.1	<0.05	7	<0.5	<0.2
PP11-RP21	Soil	10	0.12	101	0.097	<1	2.21	0.023	0.03	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PP11-RP22	Soil	12	0.10	74	0.084	2	1.78	0.021	0.03	0.1	0.03	1.2	<0.1	<0.05	6	<0.5	<0.2
PP11-RP23	Soil	14	0.11	67	0.098	2	2.07	0.018	0.05	0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
PP11-RP24	Soil	25	0.25	138	0.104	2	2.74	0.022	0.05	<0.1	0.03	2.1	<0.1	<0.05	7	<0.5	<0.2
PP11-RP25	Soil	21	0.21	93	0.107	1	2.63	0.019	0.05	<0.1	0.03	2.3	<0.1	<0.05	7	<0.5	<0.2
PP11-RP26	Soil	8	0.06	48	0.095	2	1.87	0.016	0.03	0.1	0.04	1.1	<0.1	<0.05	6	<0.5	<0.2
PP11-RP27	Soil	16	0.17	68	0.104	1	2.71	0.015	0.04	<0.1	0.03	2.2	<0.1	<0.05	7	<0.5	<0.2

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Project: Princeton
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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	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	
PP11-RP28	Soil		0.6	9.6	6.9	57	<0.1	18.7	4.8	367	1.53	0.9	0.6	1.3	13	<0.1	<0.1	0.1	35	0.08	0.138	3
PP11-RP29	Soil		0.5	12.4	6.7	58	<0.1	25.1	6.0	345	1.59	0.6	<0.5	1.1	17	<0.1	<0.1	0.1	37	0.11	0.093	3
PP11-RP30	Soil		0.5	13.6	6.8	57	<0.1	31.1	7.6	284	1.83	0.8	<0.5	1.4	16	<0.1	<0.1	0.1	41	0.09	0.094	4
PP11-RP31	Soil		0.3	17.8	7.1	48	<0.1	50.4	9.6	193	2.12	0.8	<0.5	1.4	50	<0.1	<0.1	0.1	45	0.24	0.108	4
PP11-RP32	Soil		0.3	21.5	7.1	65	<0.1	59.7	11.3	185	2.44	0.8	<0.5	1.9	57	<0.1	<0.1	0.1	50	0.25	0.109	7
PP11-RP33	Soil		0.2	38.6	5.7	44	<0.1	82.8	14.2	275	2.94	1.0	1.3	3.0	116	<0.1	<0.1	<0.1	68	0.45	0.037	11
PP11-RP34	Soil		0.2	13.3	5.9	50	<0.1	36.4	7.7	351	1.85	0.7	<0.5	1.0	47	<0.1	<0.1	0.1	43	0.21	0.081	3
PP11-RP35	Soil		0.3	12.6	5.8	50	<0.1	35.3	7.4	321	1.74	<0.5	<0.5	0.9	45	<0.1	<0.1	0.1	40	0.20	0.038	4
PP11-RP36	Soil		0.2	9.5	5.7	34	<0.1	21.1	4.8	240	1.35	<0.5	<0.5	0.7	44	<0.1	<0.1	<0.1	33	0.16	0.021	6
PP11-RP37	Soil		0.3	15.3	4.7	42	<0.1	35.0	8.6	736	1.62	<0.5	<0.5	0.8	70	<0.1	<0.1	<0.1	36	0.26	0.027	10
PP11-RP38	Soil		0.1	8.2	4.0	28	<0.1	18.7	4.5	196	1.35	<0.5	<0.5	0.5	54	<0.1	<0.1	<0.1	30	0.18	0.011	4
PP11-RP39	Soil		0.3	11.8	6.2	33	<0.1	24.3	8.7	392	1.83	<0.5	<0.5	1.1	110	<0.1	<0.1	0.1	46	0.29	0.014	4
PP11-RP40	Soil		0.2	10.1	5.7	42	<0.1	27.1	7.1	330	1.64	<0.5	0.6	1.1	40	<0.1	<0.1	<0.1	35	0.18	0.049	2
PP11-RP41	Soil		0.2	14.7	6.7	55	<0.1	35.9	8.7	178	1.88	<0.5	<0.5	2.0	47	<0.1	<0.1	0.1	34	0.18	0.083	4
PP11-RP42	Soil		0.2	19.4	5.8	35	<0.1	34.5	8.6	228	2.03	<0.5	<0.5	1.7	71	<0.1	<0.1	0.1	52	0.32	0.013	6
PP11-RP43	Soil		<0.1	15.4	4.4	33	<0.1	27.7	5.4	252	1.50	<0.5	<0.5	0.8	36	<0.1	<0.1	<0.1	33	0.23	0.017	4
PP11-RP44	Soil		<0.1	8.4	3.0	25	<0.1	14.5	3.9	108	1.22	<0.5	0.7	0.5	34	<0.1	<0.1	<0.1	29	0.23	0.013	5
PP11-RP45	Soil		0.2	14.5	4.5	35	<0.1	23.6	5.9	190	1.60	<0.5	1.4	1.1	57	<0.1	<0.1	<0.1	36	0.30	0.013	4
PP11-RP46	Soil		0.2	43.1	5.5	52	0.3	70.5	7.6	959	2.03	1.3	0.7	1.2	135	0.1	0.2	<0.1	45	1.37	0.050	45
PP11-RP47	Soil		0.2	17.3	4.9	34	<0.1	33.4	7.0	442	1.64	<0.5	0.8	1.0	50	<0.1	<0.1	<0.1	42	0.41	0.021	6
PP11-RP48	Soil		0.2	21.9	5.3	64	0.2	32.5	5.8	834	1.51	0.7	<0.5	0.8	72	0.1	<0.1	<0.1	38	0.73	0.034	8
PP11-RP49	Soil		0.3	10.5	6.0	50	<0.1	22.2	5.9	234	1.60	<0.5	2.2	0.6	32	<0.1	<0.1	<0.1	34	0.20	0.054	2
PP11-RP50	Soil		0.5	15.5	6.3	44	<0.1	32.3	6.8	141	1.79	1.1	<0.5	1.2	19	<0.1	<0.1	0.1	40	0.16	0.101	4
PMS-118	Soil Pulp		16.5	64.3	17.7	17	0.2	17.5	2.4	109	3.69	444.9	205.6	0.8	28	0.4	26.3	0.1	10	0.99	0.004	2
PP11-RP51	Soil		0.1	12.9	5.0	36	<0.1	21.4	4.6	138	1.34	<0.5	<0.5	0.6	26	<0.1	<0.1	<0.1	34	0.22	0.014	4
PP11-RP52	Soil		0.3	25.5	4.9	42	<0.1	33.7	6.5	257	1.97	0.8	1.2	1.2	42	<0.1	<0.1	<0.1	53	0.36	0.018	8
PP11-RP53	Soil		0.1	47.7	4.5	43	<0.1	163.7	20.9	149	3.86	<0.5	<0.5	1.9	64	<0.1	<0.1	<0.1	73	0.56	0.014	5
PP11-RP54	Soil		0.3	13.8	6.0	47	<0.1	30.7	6.1	60	1.99	1.4	<0.5	1.3	18	<0.1	<0.1	0.1	44	0.16	0.220	2
PP11-RP55	Soil		0.5	11.4	6.1	33	<0.1	27.1	5.7	67	1.71	1.2	<0.5	1.2	15	<0.1	<0.1	0.1	43	0.13	0.171	3
PP11-RP56	Soil		0.3	32.4	6.0	41	<0.1	106.3	15.4	198	2.85	1.0	<0.5	1.8	38	<0.1	<0.1	<0.1	63	0.35	0.035	5

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
MDL		ppm	%	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	
PP11-RP28	Soil	14	0.14	77	0.103	<1	2.62	0.016	0.04	<0.1	0.03	1.4	<0.1	<0.05	7	<0.5	<0.2
PP11-RP29	Soil	20	0.22	90	0.095	<1	2.31	0.015	0.05	<0.1	0.03	1.5	<0.1	<0.05	7	<0.5	<0.2
PP11-RP30	Soil	25	0.24	101	0.109	2	2.81	0.017	0.05	<0.1	0.02	1.7	<0.1	<0.05	8	<0.5	<0.2
PP11-RP31	Soil	36	0.43	143	0.107	1	2.99	0.021	0.09	<0.1	0.04	2.8	<0.1	<0.05	8	<0.5	<0.2
PP11-RP32	Soil	43	0.52	191	0.116	<1	3.57	0.021	0.09	<0.1	0.02	3.8	<0.1	<0.05	9	<0.5	<0.2
PP11-RP33	Soil	73	1.11	145	0.105	<1	3.01	0.027	0.10	<0.1	0.02	8.7	0.1	<0.05	7	<0.5	<0.2
PP11-RP34	Soil	28	0.32	110	0.094	<1	2.68	0.020	0.05	<0.1	0.02	2.2	<0.1	<0.05	8	<0.5	<0.2
PP11-RP35	Soil	27	0.34	94	0.082	<1	2.01	0.021	0.04	<0.1	<0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
PP11-RP36	Soil	22	0.24	90	0.075	<1	1.61	0.022	0.04	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PP11-RP37	Soil	31	0.40	112	0.067	<1	1.60	0.025	0.06	<0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
PP11-RP38	Soil	22	0.24	86	0.071	<1	1.33	0.030	0.03	<0.1	<0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PP11-RP39	Soil	31	0.37	98	0.096	<1	1.73	0.031	0.06	<0.1	0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
PP11-RP40	Soil	23	0.24	120	0.086	<1	2.25	0.021	0.06	<0.1	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
PP11-RP41	Soil	24	0.31	173	0.092	<1	3.07	0.021	0.06	<0.1	0.01	2.3	<0.1	<0.05	7	<0.5	<0.2
PP11-RP42	Soil	50	0.53	47	0.106	<1	1.99	0.034	0.06	<0.1	<0.01	6.2	<0.1	<0.05	5	<0.5	<0.2
PP11-RP43	Soil	28	0.35	46	0.070	1	1.61	0.022	0.04	<0.1	<0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
PP11-RP44	Soil	18	0.22	42	0.067	<1	1.15	0.027	0.04	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
PP11-RP45	Soil	32	0.36	63	0.085	<1	1.58	0.038	0.04	<0.1	<0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
PP11-RP46	Soil	59	0.80	121	0.056	2	2.97	0.017	0.06	<0.1	0.10	10.3	<0.1	<0.05	7	<0.5	<0.2
PP11-RP47	Soil	38	0.50	74	0.083	2	1.42	0.038	0.05	<0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
PP11-RP48	Soil	32	0.40	98	0.065	<1	1.89	0.025	0.05	<0.1	0.05	3.8	<0.1	<0.05	5	<0.5	<0.2
PP11-RP49	Soil	24	0.27	71	0.085	2	1.80	0.020	0.07	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11-RP50	Soil	22	0.24	105	0.104	2	2.70	0.020	0.05	<0.1	0.01	1.9	<0.1	<0.05	8	<0.5	<0.2
PMS-118	Soil Pulp	23	0.03	1045	0.011	<1	0.17	0.008	0.06	2.6	2.92	0.5	10.9	0.11	<1	1.8	<0.2
PP11-RP51	Soil	25	0.30	83	0.085	<1	1.58	0.028	0.04	<0.1	<0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
PP11-RP52	Soil	45	0.54	105	0.108	<1	1.97	0.034	0.07	<0.1	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
PP11-RP53	Soil	126	2.24	78	0.074	1	2.10	0.040	0.07	<0.1	0.01	11.0	<0.1	<0.05	6	<0.5	<0.2
PP11-RP54	Soil	28	0.25	86	0.105	<1	3.07	0.018	0.06	<0.1	0.03	2.1	<0.1	<0.05	9	<0.5	<0.2
PP11-RP55	Soil	22	0.17	74	0.101	1	2.22	0.017	0.04	0.1	0.03	1.9	<0.1	<0.05	8	<0.5	<0.2
PP11-RP56	Soil	61	0.93	141	0.117	<1	3.37	0.029	0.06	<0.1	0.02	6.3	<0.1	<0.05	8	<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	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	0.1	2	0.01	0.001	1
PP11-RP57	Soil		0.5	6.4	5.0	31	<0.1	24.4	4.7	104	1.38	2.4	1.2	0.7	10	<0.1	<0.1	0.2	35	0.08	0.081	2
PP11-RP58	Soil		0.5	12.2	6.5	38	<0.1	26.6	4.9	185	1.47	2.3	0.9	1.0	13	<0.1	<0.1	0.2	35	0.11	0.081	2
PP11-RP59	Soil		0.2	12.8	3.3	31	<0.1	17.5	5.2	213	1.35	1.7	2.0	0.6	22	<0.1	0.1	0.2	39	0.23	0.016	3
PP11-RP60	Soil		0.6	12.5	4.9	48	<0.1	30.5	6.2	128	1.59	2.5	<0.5	1.1	11	<0.1	<0.1	0.2	37	0.10	0.084	3
PP11-RP61	Soil		0.6	14.0	5.0	56	<0.1	35.6	7.1	130	1.66	2.4	<0.5	1.1	12	<0.1	0.1	0.2	37	0.12	0.088	3
PP11-RP62	Soil		0.7	7.2	5.0	32	<0.1	19.1	4.5	78	1.44	1.9	0.8	0.9	9	<0.1	<0.1	0.2	33	0.08	0.093	2
PP11-RP63	Soil		0.3	12.3	4.6	28	<0.1	47.6	7.3	91	1.54	1.2	2.7	0.7	20	<0.1	<0.1	0.1	29	0.19	0.091	2
PP11-RP64	Soil		0.1	14.4	4.3	23	<0.1	42.2	7.9	326	1.43	1.3	<0.5	0.7	33	<0.1	<0.1	0.2	35	0.27	0.015	4
PP11-RP65	Soil		0.4	9.2	6.5	51	<0.1	13.7	7.5	466	1.81	0.9	1.0	1.2	29	<0.1	<0.1	0.2	47	0.13	0.072	3
PP11-RP66	Soil		0.3	6.8	5.2	52	<0.1	11.1	6.1	191	1.75	0.6	<0.5	1.3	25	<0.1	<0.1	0.2	45	0.15	0.065	3
PP11-RP68	Soil		0.5	14.0	6.3	39	<0.1	17.5	8.3	168	2.22	1.5	<0.5	2.3	23	<0.1	<0.1	0.2	58	0.13	0.133	4
PP11-RP69	Soil		0.3	8.5	6.8	35	<0.1	13.1	4.8	81	1.47	1.3	<0.5	1.2	19	<0.1	<0.1	0.2	34	0.09	0.158	3
PP11-RP70	Soil		0.2	19.9	8.2	31	<0.1	17.8	5.1	271	1.41	1.5	1.3	1.4	115	<0.1	0.1	0.2	40	0.61	0.042	24
PP11-RP71	Soil		0.2	21.6	7.6	37	<0.1	19.4	6.3	185	1.94	1.5	1.9	2.3	78	<0.1	<0.1	0.2	50	0.42	0.052	17
PP11-RP72	Soil		0.6	9.2	6.3	39	0.2	8.5	4.0	118	1.64	1.5	<0.5	2.0	11	<0.1	<0.1	0.2	37	0.08	0.174	4
PP11-RP73	Soil		0.5	15.6	6.0	72	<0.1	14.7	11.3	540	2.79	1.3	<0.5	2.8	35	<0.1	<0.1	0.2	72	0.28	0.092	4
PP11-RP74	Soil		0.3	17.0	5.2	63	<0.1	12.8	11.4	465	3.12	1.5	1.7	2.2	30	<0.1	0.1	0.2	86	0.27	0.049	4
PP11-RP75	Soil		0.8	12.0	5.0	76	<0.1	9.8	8.9	485	2.59	1.3	<0.5	2.3	16	<0.1	0.1	0.2	65	0.18	0.091	3
PP11-RP76	Soil		0.3	11.9	5.5	69	<0.1	13.2	8.3	310	2.16	1.0	<0.5	1.7	23	<0.1	<0.1	0.2	51	0.16	0.115	4
PP11-RP77	Soil		0.4	11.4	5.0	67	<0.1	9.6	7.5	327	2.41	0.7	<0.5	1.7	29	<0.1	<0.1	0.2	59	0.22	0.039	3
PP11-RP78	Soil		0.6	18.9	5.4	99	<0.1	9.7	11.3	979	3.08	2.0	1.5	2.1	31	0.1	0.2	0.3	80	0.37	0.125	5
PP11-RP79	Soil		0.2	9.9	4.3	55	<0.1	8.8	5.8	184	2.12	0.8	<0.5	2.1	31	<0.1	<0.1	0.2	57	0.23	0.035	5
PP11-RP80	Soil		0.4	8.4	5.2	58	<0.1	11.3	7.0	354	2.06	0.7	<0.5	1.4	32	<0.1	<0.1	0.1	57	0.23	0.055	4
PP11-RP81	Soil		0.3	7.6	4.6	45	<0.1	8.6	5.9	329	1.98	0.5	<0.5	1.4	41	<0.1	<0.1	0.1	55	0.23	0.023	4
PP11-RP82	Soil		0.4	9.6	5.0	55	<0.1	8.0	5.9	222	2.04	0.7	6.6	0.8	27	<0.1	0.1	0.2	63	0.24	0.061	3
PP11-RP83	Soil		0.2	20.5	8.0	73	<0.1	8.8	10.1	359	2.95	1.7	<0.5	2.5	24	<0.1	0.2	1.5	100	0.26	0.051	2
PP11-RP84	Soil		0.6	6.5	6.2	64	<0.1	12.2	4.3	261	1.29	0.8	<0.5	1.0	21	<0.1	<0.1	0.1	29	0.13	0.116	3
PP11-RP85	Soil		0.3	7.9	6.3	42	<0.1	13.1	4.9	115	1.55	<0.5	<0.5	0.9	28	<0.1	<0.1	0.1	36	0.17	0.034	3
PP11-RP86	Soil		0.4	3.9	4.5	46	<0.1	9.3	3.0	172	0.95	0.5	<0.5	0.6	16	<0.1	<0.1	0.1	23	0.11	0.072	2
PP11-RP87	Soil		0.3	5.1	5.0	48	<0.1	10.8	3.1	225	1.14	0.5	<0.5	1.1	20	<0.1	<0.1	0.1	22	0.13	0.225	2

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Method Analyte	Unit	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
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	
PP11-RP57	Soil	12	0.13	50	0.079	2	1.70	0.016	0.04	<0.1	0.03	1.2	<0.1	<0.05	6	<0.5	<0.2
PP11-RP58	Soil	17	0.17	77	0.094	1	2.05	0.016	0.03	<0.1	0.04	1.8	<0.1	<0.05	7	<0.5	<0.2
PP11-RP59	Soil	32	0.34	77	0.075	<1	1.16	0.022	0.04	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PP11-RP60	Soil	19	0.18	73	0.094	1	2.34	0.019	0.04	0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
PP11-RP61	Soil	22	0.22	99	0.093	1	2.49	0.018	0.04	<0.1	0.01	2.1	<0.1	<0.05	7	<0.5	<0.2
PP11-RP62	Soil	12	0.11	36	0.086	2	2.01	0.016	0.03	<0.1	0.03	1.3	<0.1	<0.05	6	<0.5	<0.2
PP11-RP63	Soil	33	0.33	67	0.070	2	1.85	0.016	0.05	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
PP11-RP64	Soil	41	0.44	64	0.068	<1	1.43	0.036	0.04	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PP11-RP65	Soil	17	0.23	116	0.139	1	1.83	0.016	0.10	<0.1	0.03	1.2	<0.1	<0.05	6	<0.5	<0.2
PP11-RP66	Soil	11	0.23	96	0.139	<1	1.55	0.015	0.10	<0.1	<0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
PP11-RP68	Soil	16	0.25	130	0.142	<1	2.53	0.019	0.10	<0.1	0.03	1.7	<0.1	<0.05	8	<0.5	<0.2
PP11-RP69	Soil	14	0.16	90	0.105	<1	1.77	0.017	0.07	<0.1	0.03	1.3	<0.1	<0.05	7	<0.5	<0.2
PP11-RP70	Soil	42	0.36	140	0.101	3	1.75	0.022	0.11	<0.1	0.05	4.7	<0.1	<0.05	5	<0.5	<0.2
PP11-RP71	Soil	42	0.56	150	0.136	1	1.81	0.032	0.15	<0.1	0.02	6.6	0.2	<0.05	6	<0.5	<0.2
PP11-RP72	Soil	10	0.12	103	0.120	<1	2.09	0.015	0.05	0.1	0.03	1.3	<0.1	<0.05	7	<0.5	<0.2
PP11-RP73	Soil	17	0.63	219	0.249	2	2.56	0.016	0.32	<0.1	0.01	1.8	0.2	<0.05	9	<0.5	<0.2
PP11-RP74	Soil	18	0.69	190	0.218	<1	2.36	0.013	0.15	<0.1	0.02	2.1	0.1	<0.05	7	<0.5	<0.2
PP11-RP75	Soil	11	0.43	119	0.172	2	2.14	0.015	0.11	0.1	0.02	1.7	<0.1	<0.05	8	<0.5	<0.2
PP11-RP76	Soil	11	0.36	159	0.162	1	2.53	0.022	0.12	<0.1	0.02	1.6	0.1	<0.05	8	<0.5	<0.2
PP11-RP77	Soil	11	0.36	168	0.150	<1	2.32	0.018	0.13	<0.1	0.01	1.7	<0.1	<0.05	7	<0.5	<0.2
PP11-RP78	Soil	13	0.60	158	0.163	2	2.20	0.014	0.22	0.1	0.03	2.9	0.1	<0.05	8	<0.5	<0.2
PP11-RP79	Soil	13	0.34	72	0.127	1	1.74	0.017	0.12	<0.1	0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
PP11-RP80	Soil	15	0.32	117	0.132	2	1.98	0.022	0.12	<0.1	0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
PP11-RP81	Soil	12	0.28	110	0.121	<1	1.87	0.022	0.06	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
PP11-RP82	Soil	11	0.30	82	0.139	1	1.71	0.018	0.07	<0.1	0.01	2.6	<0.1	<0.05	6	<0.5	<0.2
PP11-RP83	Soil	13	0.60	125	0.185	<1	2.34	0.013	0.14	<0.1	<0.01	2.0	0.5	<0.05	7	<0.5	0.3
PP11-RP84	Soil	13	0.15	111	0.099	2	1.64	0.016	0.07	0.1	0.03	1.4	<0.1	<0.05	6	<0.5	<0.2
PP11-RP85	Soil	20	0.18	158	0.102	<1	2.26	0.018	0.09	<0.1	0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11-RP86	Soil	8	0.09	82	0.083	1	1.17	0.020	0.04	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
PP11-RP87	Soil	10	0.09	123	0.078	2	1.53	0.017	0.04	<0.1	0.03	1.4	<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
				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
PP11-RP88	Soil			0.2	5.3	4.3	48	<0.1	10.6	3.4	117	1.20	0.9	<0.5	0.8	17	<0.1	<0.1	<0.1	30	0.12	0.085	2
PP11-RP89	Soil			<0.1	5.7	3.0	30	<0.1	9.4	3.3	126	1.39	<0.5	<0.5	0.7	26	<0.1	<0.1	<0.1	32	0.17	0.012	2
PP11-RP90	Soil			0.2	14.0	7.9	38	<0.1	20.7	8.8	483	2.08	0.9	0.6	2.2	50	<0.1	<0.1	0.2	55	0.24	0.017	10
PP11-RP91	Soil			0.2	14.8	8.2	37	<0.1	21.5	10.2	684	2.16	1.1	<0.5	2.9	47	<0.1	0.1	0.1	64	0.24	0.020	14
PP11-RP92	Soil			0.3	15.0	8.3	35	<0.1	34.9	9.7	467	2.15	<0.5	0.9	1.8	64	<0.1	<0.1	0.1	51	0.26	0.017	6
PP11-RP93	Soil			0.3	35.6	6.5	75	<0.1	47.1	17.1	952	3.21	2.3	<0.5	1.8	64	<0.1	0.2	0.2	96	0.52	0.104	13
PP11-RP94	Soil			0.4	35.4	8.1	70	<0.1	52.5	15.5	891	3.07	1.8	1.1	2.8	69	0.1	0.1	<0.1	89	0.52	0.091	13
PP11-RP95	Soil			0.5	33.2	8.0	65	<0.1	33.3	15.0	1104	3.08	1.4	1.4	2.6	62	0.1	0.1	0.1	83	0.54	0.103	11
PP11-RP96	Soil			0.4	26.6	7.3	59	<0.1	25.2	10.5	1299	2.57	0.8	0.8	3.4	80	0.1	0.1	0.3	70	0.48	0.041	14
PP11-RP97	Soil			0.2	15.3	3.5	46	<0.1	18.4	8.0	353	2.26	<0.5	<0.5	2.5	45	<0.1	<0.1	<0.1	62	0.33	0.028	8
PP11-RP98	Soil			0.4	10.2	5.1	36	<0.1	13.5	6.1	409	1.72	<0.5	<0.5	1.3	28	<0.1	<0.1	<0.1	42	0.15	0.020	4
PP11-RP99	Soil			0.3	5.1	2.9	26	<0.1	7.9	2.5	101	0.84	<0.5	<0.5	0.4	19	<0.1	<0.1	<0.1	22	0.12	0.037	1
PP11-RP100	Soil			0.2	11.5	3.7	25	<0.1	22.6	6.3	127	1.66	<0.5	<0.5	0.8	45	<0.1	<0.1	<0.1	39	0.20	0.029	3
PMS-87	Soil Pulp			126.9	4272	26.3	65	2.6	35.4	21.0	419	4.36	58.3	508.5	2.4	27	0.4	3.0	0.4	124	0.33	0.096	10
PP11-RP101	Soil			0.3	5.9	3.7	51	<0.1	6.7	2.9	388	0.90	<0.5	<0.5	0.5	25	<0.1	<0.1	<0.1	22	0.17	0.143	1
PP11-RP102	Soil			0.3	13.7	4.8	39	<0.1	19.8	7.5	135	1.83	<0.5	<0.5	1.6	39	<0.1	<0.1	<0.1	48	0.22	0.032	3
PP11-RP103	Soil			0.2	7.7	4.4	55	<0.1	11.7	3.8	443	0.94	<0.5	<0.5	0.4	23	<0.1	<0.1	<0.1	25	0.17	0.051	3
PP11-RP104	Soil			0.3	7.8	4.2	40	<0.1	14.3	4.3	131	0.99	<0.5	<0.5	0.6	16	<0.1	<0.1	<0.1	27	0.11	0.057	2
PP11-RP105	Soil			0.4	13.6	6.0	42	<0.1	18.1	6.9	176	1.61	0.7	<0.5	1.2	18	<0.1	<0.1	<0.1	33	0.11	0.082	2
PP11-RP106	Soil			0.3	18.2	5.4	33	<0.1	27.4	8.4	114	2.04	0.6	<0.5	1.1	44	<0.1	<0.1	<0.1	47	0.24	0.054	3
PP11-RP107	Soil			0.2	13.7	5.7	43	<0.1	26.2	5.5	171	1.67	1.3	<0.5	1.4	29	<0.1	<0.1	<0.1	37	0.19	0.145	4
PP11-RP108	Soil			0.5	9.4	5.1	59	<0.1	19.0	5.6	451	1.42	0.7	<0.5	1.0	16	<0.1	<0.1	<0.1	34	0.10	0.102	2
PP11-RP109	Soil			0.3	10.8	6.4	48	<0.1	22.7	6.0	287	1.56	<0.5	1.0	0.9	20	<0.1	<0.1	<0.1	35	0.13	0.053	3
PP11-RP110	Soil			0.2	17.4	5.9	39	<0.1	34.2	6.7	73	1.80	1.3	0.5	1.9	30	0.1	<0.1	0.1	37	0.16	0.149	5
PP11-RP111	Soil			0.1	10.8	5.8	28	<0.1	14.6	3.3	116	1.02	<0.5	2.6	1.1	28	<0.1	<0.1	<0.1	28	0.19	0.013	4
PP11-RP112	Soil			0.5	15.2	6.0	45	0.1	26.5	5.8	93	1.70	1.2	<0.5	1.4	25	<0.1	<0.1	<0.1	40	0.14	0.122	7
PP11-RP113	Soil			0.9	12.5	5.7	57	0.2	20.2	5.4	158	1.59	1.2	<0.5	1.4	17	<0.1	<0.1	0.1	39	0.14	0.142	3
PP11-RP114	Soil			0.4	17.5	5.7	48	0.1	26.1	6.4	108	1.66	1.1	1.1	1.1	24	0.1	0.1	<0.1	41	0.18	0.038	4
PP11-RP115	Soil			0.5	18.3	5.9	59	0.2	35.3	7.1	147	2.02	2.0	5.6	1.3	29	<0.1	0.1	0.1	44	0.23	0.126	4
PP11-RP116	Soil			0.6	23.0	6.6	59	0.6	35.0	6.9	116	1.98	3.4	3.7	1.8	21	<0.1	0.2	<0.1	42	0.14	0.176	5

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 Report Date: November 27, 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	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	
PP11-RP88	Soil	9	0.10	77	0.090	1	1.23	0.025	0.04	<0.1	0.02	1.2	<0.1	<0.05	5	<0.5	<0.2
PP11-RP89	Soil	17	0.13	92	0.091	2	1.09	0.026	0.08	<0.1	0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
PP11-RP90	Soil	34	0.25	110	0.131	<1	2.07	0.023	0.08	<0.1	0.03	3.7	0.1	<0.05	6	<0.5	<0.2
PP11-RP91	Soil	37	0.25	130	0.134	<1	2.24	0.022	0.08	<0.1	0.01	5.7	0.2	<0.05	6	<0.5	<0.2
PP11-RP92	Soil	42	0.39	145	0.098	2	2.47	0.015	0.06	<0.1	0.01	3.1	<0.1	<0.05	7	<0.5	<0.2
PP11-RP93	Soil	108	1.09	78	0.072	<1	2.55	0.034	0.06	<0.1	0.04	10.2	<0.1	<0.05	7	<0.5	<0.2
PP11-RP94	Soil	89	1.02	116	0.072	2	2.04	0.038	0.06	<0.1	0.02	9.4	<0.1	<0.05	6	<0.5	<0.2
PP11-RP95	Soil	59	1.16	60	0.059	3	1.42	0.055	0.07	<0.1	0.03	7.9	<0.1	<0.05	4	<0.5	<0.2
PP11-RP96	Soil	48	0.61	178	0.068	3	1.97	0.030	0.16	<0.1	0.02	8.0	0.1	<0.05	6	<0.5	<0.2
PP11-RP97	Soil	43	0.52	96	0.064	2	1.06	0.042	0.13	<0.1	0.01	5.6	<0.1	<0.05	3	<0.5	<0.2
PP11-RP98	Soil	21	0.33	78	0.072	2	1.48	0.026	0.08	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
PP11-RP99	Soil	10	0.13	51	0.052	2	0.91	0.020	0.05	<0.1	0.02	1.2	<0.1	<0.05	4	<0.5	<0.2
PP11-RP100	Soil	31	0.38	84	0.066	<1	1.22	0.033	0.07	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
PMS-87	Soil Pulp	52	0.91	47	0.114	2	1.33	0.044	0.95	4.0	0.07	10.3	0.5	1.92	6	6.3	1.0
PP11-RP101	Soil	9	0.12	125	0.059	1	0.94	0.022	0.06	<0.1	0.02	1.1	<0.1	<0.05	4	<0.5	<0.2
PP11-RP102	Soil	29	0.35	126	0.102	1	1.86	0.032	0.12	<0.1	0.01	3.1	<0.1	<0.05	5	<0.5	<0.2
PP11-RP103	Soil	14	0.17	72	0.057	2	1.22	0.019	0.05	<0.1	0.03	1.6	<0.1	<0.05	4	0.8	<0.2
PP11-RP104	Soil	15	0.16	74	0.066	<1	1.27	0.023	0.04	<0.1	0.01	1.4	<0.1	<0.05	5	<0.5	<0.2
PP11-RP105	Soil	19	0.24	129	0.098	1	2.42	0.020	0.05	<0.1	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2
PP11-RP106	Soil	37	0.39	101	0.096	1	1.90	0.022	0.06	<0.1	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
PP11-RP107	Soil	19	0.21	139	0.085	1	2.48	0.023	0.05	<0.1	0.02	2.5	<0.1	<0.05	7	<0.5	<0.2
PP11-RP108	Soil	19	0.18	87	0.080	<1	1.75	0.021	0.03	<0.1	0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
PP11-RP109	Soil	24	0.26	100	0.083	<1	2.10	0.025	0.05	<0.1	0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11-RP110	Soil	27	0.22	181	0.093	<1	2.92	0.032	0.05	0.1	0.02	2.7	<0.1	<0.05	8	<0.5	<0.2
PP11-RP111	Soil	19	0.25	76	0.077	<1	1.42	0.033	0.04	<0.1	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
PP11-RP112	Soil	20	0.22	122	0.082	1	2.35	0.022	0.05	0.1	0.02	2.5	<0.1	<0.05	7	0.8	<0.2
PP11-RP113	Soil	16	0.17	82	0.084	<1	2.07	0.021	0.05	0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11-RP114	Soil	26	0.28	115	0.080	<1	1.93	0.024	0.05	0.1	0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11-RP115	Soil	34	0.33	140	0.086	<1	2.74	0.023	0.07	0.2	0.03	2.7	<0.1	<0.05	7	<0.5	<0.2
PP11-RP116	Soil	24	0.24	145	0.079	<1	2.54	0.019	0.06	0.1	0.03	3.2	<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	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	
PP11-RP117	Soil		0.4	12.2	3.1	48	0.2	14.0	4.6	453	1.76	0.9	1.1	0.7	23	0.1	0.1	<0.1	50	0.18	0.016	4
PP11-RP118	Soil		0.7	17.0	5.2	79	0.3	25.9	7.6	249	1.89	2.1	2.5	1.3	19	0.3	0.1	<0.1	45	0.18	0.136	4
PP11-RP119	Soil		0.5	26.8	5.8	40	<0.1	27.0	8.0	137	1.87	1.7	5.7	1.5	20	<0.1	0.1	<0.1	49	0.19	0.072	4
PP11-RP120	Soil		0.4	11.8	5.1	40	0.1	32.1	7.5	117	1.64	0.7	1.4	1.3	23	<0.1	<0.1	<0.1	37	0.18	0.121	3
PP11-RP121	Soil		0.3	11.6	5.9	36	<0.1	34.5	6.3	141	1.55	0.6	0.6	1.7	25	<0.1	<0.1	<0.1	31	0.13	0.141	5
PP11-RP122	Soil		0.2	10.7	6.7	32	<0.1	26.3	5.3	93	1.49	0.6	<0.5	1.1	28	<0.1	<0.1	<0.1	31	0.16	0.083	3
PP11-RP123	Soil		0.5	10.6	6.6	57	<0.1	22.2	5.1	200	1.65	1.5	<0.5	1.1	14	<0.1	<0.1	<0.1	35	0.11	0.172	3
PP11-RP124	Soil		0.4	25.9	6.8	48	<0.1	51.8	15.3	477	2.34	0.9	1.2	1.6	51	<0.1	0.1	<0.1	60	0.34	0.041	7
PP11-RP125	Soil		0.3	39.7	6.8	46	<0.1	123.0	18.8	191	3.34	0.7	31.8	2.3	72	<0.1	<0.1	0.1	71	0.43	0.069	5
PP11-RP126	Soil		0.3	24.3	8.4	51	<0.1	94.5	14.1	329	2.76	0.7	<0.5	1.9	53	<0.1	<0.1	0.1	50	0.37	0.104	3
PP11-RP127	Soil		0.4	17.8	6.8	48	<0.1	53.7	10.4	115	2.19	0.5	<0.5	1.5	26	<0.1	<0.1	<0.1	43	0.19	0.072	3
PP11-RP128	Soil		0.2	10.8	3.7	28	<0.1	15.3	4.4	145	1.19	<0.5	1.9	0.8	22	<0.1	<0.1	<0.1	35	0.19	0.013	3
PP11-RP129	Soil		0.2	10.3	5.2	26	<0.1	11.5	6.1	134	1.54	0.5	0.6	1.1	44	<0.1	<0.1	0.1	44	0.17	0.027	4
PP11-RP130	Soil		0.1	14.4	6.3	37	<0.1	22.7	7.5	124	1.98	<0.5	<0.5	1.7	69	<0.1	<0.1	0.1	45	0.20	0.062	5
PP11-RP131	Soil		0.2	9.7	4.9	37	<0.1	14.0	5.7	173	1.74	<0.5	<0.5	1.1	35	<0.1	<0.1	<0.1	44	0.16	0.046	10
PP11-RP132	Soil		0.2	11.2	4.6	41	<0.1	13.5	6.8	142	1.91	0.7	<0.5	1.7	34	<0.1	<0.1	<0.1	49	0.20	0.064	4
PP11-RP133	Soil		0.3	13.2	6.5	29	<0.1	14.2	5.1	643	1.52	0.5	<0.5	1.5	72	<0.1	<0.1	<0.1	42	0.41	0.022	15
PP11-RP134	Soil		0.2	13.7	5.7	42	<0.1	14.9	7.5	276	1.90	0.8	<0.5	2.0	65	<0.1	<0.1	<0.1	54	0.33	0.064	9
PP11-RP135	Soil		0.3	16.9	6.8	37	<0.1	15.9	7.3	469	1.63	0.8	0.5	1.8	91	0.2	0.1	0.1	47	0.50	0.046	17
PP11-RP136	Soil		0.2	18.0	6.5	37	<0.1	14.5	5.6	356	1.69	0.9	<0.5	1.8	69	<0.1	<0.1	0.1	46	0.39	0.036	14
PP11-RP137	Soil		0.8	16.2	5.9	57	0.1	13.0	7.3	1126	1.91	1.8	<0.5	1.9	122	<0.1	0.2	0.1	51	1.24	0.222	7
PP11-RP138	Soil		0.3	32.2	3.4	77	<0.1	8.5	18.2	988	4.27	2.1	9.4	5.5	43	<0.1	0.2	<0.1	101	0.71	0.142	14
PP11-RP139	Soil		0.4	18.2	4.5	58	<0.1	10.5	8.4	281	2.82	1.2	5.8	1.5	42	<0.1	0.2	0.2	81	0.33	0.055	7
PP11-RP140	Soil		0.6	10.7	4.5	79	0.1	7.7	6.6	1067	1.93	0.6	<0.5	1.1	33	0.1	<0.1	0.1	49	0.26	0.099	3
PP11-RP141	Soil		0.6	14.9	4.5	67	<0.1	7.9	10.3	513	2.99	1.0	1.0	1.8	39	<0.1	0.1	0.1	85	0.37	0.058	4
PP11-RP142	Soil		0.2	39.8	4.7	58	0.1	5.7	12.9	737	4.10	2.8	4.9	5.3	63	<0.1	0.3	0.1	110	1.09	0.160	14
PP11-RP143	Soil		0.3	28.6	4.0	67	<0.1	8.9	17.1	1043	4.67	2.7	2.6	1.6	111	<0.1	0.2	0.2	116	1.55	0.074	10
PP11-RP144	Soil		0.2	13.7	4.3	38	<0.1	9.3	5.1	328	1.82	0.6	<0.5	1.2	35	<0.1	<0.1	0.1	45	0.32	0.022	12
PP11-RP145	Soil		0.3	7.5	3.5	54	<0.1	8.6	4.7	191	1.70	<0.5	<0.5	0.9	28	<0.1	<0.1	<0.1	41	0.15	0.068	2
PP11-RP146	Soil		0.4	14.8	4.6	70	0.1	15.7	8.3	348	2.54	0.9	<0.5	1.5	40	<0.1	0.1	0.1	73	0.31	0.061	4

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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	
PP11-RP117	Soil			17	0.22	69	0.077	<1	0.99	0.025	0.04	0.2	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
PP11-RP118	Soil			31	0.33	107	0.072	<1	1.61	0.023	0.04	<0.1	0.02	2.4	<0.1	<0.05	6	0.5	<0.2
PP11-RP119	Soil			34	0.38	103	0.083	<1	2.05	0.024	0.05	<0.1	0.01	2.5	<0.1	<0.05	6	0.6	<0.2
PP11-RP120	Soil			30	0.27	102	0.081	<1	1.99	0.025	0.05	<0.1	0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
PP11-RP121	Soil			33	0.20	124	0.087	<1	2.20	0.023	0.05	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11-RP122	Soil			18	0.19	155	0.077	<1	2.18	0.028	0.04	<0.1	0.02	1.9	<0.1	<0.05	7	0.6	<0.2
PP11-RP123	Soil			23	0.20	112	0.086	<1	2.48	0.020	0.04	<0.1	0.04	1.8	<0.1	<0.05	9	<0.5	<0.2
PP11-RP124	Soil			80	0.81	130	0.088	<1	2.02	0.032	0.08	<0.1	0.02	4.3	<0.1	<0.05	5	0.5	<0.2
PP11-RP125	Soil			89	1.43	171	0.098	<1	3.50	0.034	0.11	<0.1	0.01	7.2	<0.1	<0.05	8	0.6	<0.2
PP11-RP126	Soil			51	0.64	248	0.109	2	4.45	0.027	0.31	<0.1	0.02	4.7	<0.1	<0.05	10	0.5	<0.2
PP11-RP127	Soil			39	0.34	150	0.097	<1	3.65	0.022	0.08	<0.1	0.01	3.1	<0.1	<0.05	9	<0.5	<0.2
PP11-RP128	Soil			24	0.29	71	0.075	<1	1.17	0.025	0.04	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PP11-RP129	Soil			27	0.24	96	0.110	<1	1.58	0.026	0.06	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
PP11-RP130	Soil			23	0.36	135	0.130	<1	2.63	0.024	0.09	<0.1	<0.01	2.3	<0.1	<0.05	7	<0.5	<0.2
PP11-RP131	Soil			15	0.29	108	0.128	<1	1.67	0.016	0.14	<0.1	<0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
PP11-RP132	Soil			14	0.35	127	0.151	<1	1.93	0.019	0.15	<0.1	<0.01	2.0	0.1	<0.05	6	<0.5	<0.2
PP11-RP133	Soil			21	0.35	81	0.114	1	1.51	0.024	0.12	<0.1	0.03	3.8	0.1	<0.05	5	<0.5	<0.2
PP11-RP134	Soil			22	0.45	148	0.144	1	1.63	0.026	0.17	<0.1	0.02	2.7	0.1	<0.05	5	<0.5	<0.2
PP11-RP135	Soil			32	0.42	143	0.116	2	1.46	0.028	0.15	<0.1	0.04	4.1	0.2	<0.05	4	<0.5	<0.2
PP11-RP136	Soil			25	0.46	134	0.125	<1	1.45	0.027	0.18	<0.1	0.03	4.0	0.2	<0.05	4	<0.5	<0.2
PP11-RP137	Soil			13	0.42	224	0.125	12	1.64	0.080	0.26	0.2	<0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
PP11-RP138	Soil			16	1.15	281	0.125	<1	2.84	0.019	0.53	0.1	0.02	7.1	0.2	<0.05	8	<0.5	<0.2
PP11-RP139	Soil			16	0.50	122	0.154	2	2.58	0.022	0.09	0.1	0.01	3.7	<0.1	<0.05	8	<0.5	<0.2
PP11-RP140	Soil			9	0.28	164	0.137	1	1.78	0.016	0.13	0.2	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
PP11-RP141	Soil			10	0.55	177	0.183	1	2.34	0.014	0.26	0.2	0.01	2.6	<0.1	<0.05	8	<0.5	<0.2
PP11-RP142	Soil			11	0.79	182	0.131	<1	2.93	0.016	0.33	0.2	0.04	5.0	<0.1	<0.05	8	<0.5	<0.2
PP11-RP143	Soil			17	1.13	58	0.154	<1	4.01	0.018	0.19	<0.1	0.02	12.6	<0.1	<0.05	12	<0.5	<0.2
PP11-RP144	Soil			13	0.28	65	0.101	<1	1.71	0.021	0.07	<0.1	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
PP11-RP145	Soil			8	0.21	75	0.086	<1	1.82	0.021	0.04	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
PP11-RP146	Soil			24	0.49	131	0.127	1	2.51	0.020	0.14	<0.1	0.02	3.6	<0.1	<0.05	7	<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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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	
Unit	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	%	%	ppm	
PP11-RP147	Soil	0.5	7.3	4.7	85	<0.1	10.6	4.8	826	1.42	0.6	<0.5	0.8	25	<0.1	<0.1	<0.1	36	0.21	0.116	2
PP11-RP148	Soil	0.4	9.8	5.1	67	<0.1	15.5	6.7	524	1.96	<0.5	<0.5	1.0	25	<0.1	<0.1	<0.1	54	0.18	0.050	3
PP11-RP149	Soil	0.3	5.9	4.1	52	<0.1	10.4	4.8	451	1.23	<0.5	<0.5	0.6	26	<0.1	<0.1	<0.1	31	0.16	0.045	2
PP11-RP150	Soil	0.3	8.6	4.4	53	<0.1	15.0	5.0	252	1.40	0.5	<0.5	1.0	30	<0.1	<0.1	<0.1	37	0.17	0.065	3
PMS-90	Soil Pulp	14.2	53.5	15.6	15	0.2	13.9	2.1	95	3.22	403.0	196.8	0.7	27	0.3	24.0	0.2	8	0.87	0.004	2



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Method	Analyte	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
PP11-RP147	Soil	14	0.19	116	0.093	2	1.73	0.020	0.08	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PP11-RP148	Soil	20	0.31	104	0.100	<1	2.33	0.019	0.07	<0.1	<0.01	1.9	<0.1	<0.05	7	<0.5	<0.2
PP11-RP149	Soil	13	0.14	97	0.075	<1	1.54	0.020	0.06	<0.1	0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PP11-RP150	Soil	19	0.21	115	0.085	<1	1.79	0.022	0.08	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5	<0.2
PMS-90	Soil Pulp	17	0.02	897	0.009	<1	0.15	0.005	0.06	2.2	2.80	0.5	9.9	0.08	<1	1.3	<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	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	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																					
PP11-MRP06	Soil	0.3	14.1	4.6	45	<0.1	22.8	8.6	353	2.04	<0.5	<0.5	1.7	56	<0.1	<0.1	<0.1	53	0.27	0.029	7
REP PP11-MRP06	QC	0.3	14.0	4.8	47	<0.1	23.6	8.9	365	2.10	<0.5	<0.5	1.8	56	<0.1	<0.1	<0.1	54	0.28	0.029	7
PP11-MRP27	Soil	0.1	6.4	3.1	19	<0.1	11.4	2.7	66	0.99	<0.5	<0.5	0.3	19	<0.1	<0.1	<0.1	24	0.12	0.012	2
REP PP11-MRP27	QC	0.1	6.6	3.0	19	<0.1	11.7	2.9	66	0.98	<0.5	2.2	0.3	19	<0.1	<0.1	<0.1	24	0.12	0.013	2
PP11-MRP70	Soil	0.2	8.3	4.1	39	<0.1	12.4	4.0	350	1.36	<0.5	1.2	0.5	31	<0.1	<0.1	<0.1	32	0.18	0.033	3
REP PP11-MRP70	QC	0.2	8.0	3.8	37	<0.1	12.2	3.7	328	1.30	<0.5	1.0	0.5	30	<0.1	<0.1	<0.1	30	0.17	0.030	3
PP11-MRP75	Soil	0.3	14.5	4.5	30	<0.1	24.2	5.5	100	1.43	1.7	1.1	0.9	20	<0.1	<0.1	0.1	32	0.12	0.095	4
REP PP11-MRP75	QC	0.4	14.3	4.6	31	<0.1	23.3	5.3	100	1.38	1.5	0.6	1.0	21	<0.1	<0.1	0.1	33	0.12	0.100	4
PP11-MRP90	Soil	0.3	11.8	5.4	51	<0.1	29.6	5.6	142	1.58	1.3	3.6	1.0	22	<0.1	<0.1	0.1	33	0.13	0.173	5
REP PP11-MRP90	QC	0.3	11.6	5.5	48	<0.1	29.1	5.6	135	1.58	1.2	0.8	1.1	23	<0.1	<0.1	<0.1	31	0.12	0.166	5
PP11-MRP109	Soil	0.9	14.5	4.5	64	0.2	10.6	10.2	368	2.79	1.6	1.1	2.2	26	<0.1	<0.1	0.2	87	0.27	0.117	4
REP PP11-MRP109	QC	0.8	14.8	4.2	63	0.1	10.4	10.0	369	2.76	1.6	1.5	1.8	25	<0.1	<0.1	0.2	85	0.25	0.120	4
PP11-RP07	Soil	0.3	13.7	5.3	59	<0.1	22.1	8.9	271	2.10	1.5	2.0	2.7	40	<0.1	<0.1	0.1	58	0.19	0.098	7
REP PP11-RP07	QC	0.3	14.2	5.6	61	<0.1	22.7	9.4	280	2.14	1.8	1.4	3.2	39	<0.1	0.1	0.1	59	0.19	0.101	7
PP11-RP32	Soil	0.3	21.5	7.1	65	<0.1	59.7	11.3	185	2.44	0.8	<0.5	1.9	57	<0.1	<0.1	0.1	50	0.25	0.109	7
REP PP11-RP32	QC	0.2	21.7	7.3	64	<0.1	59.1	11.2	185	2.42	0.7	<0.5	1.8	57	<0.1	<0.1	0.1	49	0.26	0.106	7
PP11-RP47	Soil	0.2	17.3	4.9	34	<0.1	33.4	7.0	442	1.64	<0.5	0.8	1.0	50	<0.1	<0.1	<0.1	42	0.41	0.021	6
REP PP11-RP47	QC	0.2	17.3	5.0	33	<0.1	33.8	7.0	440	1.63	<0.5	1.1	1.1	53	<0.1	<0.1	<0.1	43	0.41	0.021	6
PP11-RP75	Soil	0.8	12.0	5.0	76	<0.1	9.8	8.9	485	2.59	1.3	<0.5	2.3	16	<0.1	0.1	0.2	65	0.18	0.091	3
REP PP11-RP75	QC	0.7	11.9	5.0	77	<0.1	9.6	8.6	488	2.45	1.2	<0.5	1.6	16	<0.1	0.1	0.2	63	0.17	0.089	3
PP11-RP87	Soil	0.3	5.1	5.0	48	<0.1	10.8	3.1	225	1.14	0.5	<0.5	1.1	20	<0.1	<0.1	0.1	22	0.13	0.225	2
REP PP11-RP87	QC	0.2	5.1	5.6	50	<0.1	11.4	3.1	236	1.18	0.7	<0.5	1.1	21	<0.1	<0.1	<0.1	22	0.14	0.231	2
PP11-RP92	Soil	0.3	15.0	8.3	35	<0.1	34.9	9.7	467	2.15	<0.5	0.9	1.8	64	<0.1	<0.1	0.1	51	0.26	0.017	6
REP PP11-RP92	QC	0.4	15.7	8.8	37	<0.1	38.7	11.0	515	2.40	0.7	<0.5	2.0	69	<0.1	<0.1	0.1	56	0.29	0.019	7
PP11-RP109	Soil	0.3	10.8	6.4	48	<0.1	22.7	6.0	287	1.56	<0.5	1.0	0.9	20	<0.1	<0.1	<0.1	35	0.13	0.053	3
REP PP11-RP109	QC	0.3	10.5	6.7	48	<0.1	22.6	5.9	292	1.58	0.5	5.4	0.9	20	<0.1	<0.1	<0.1	35	0.13	0.053	3
PP11-RP118	Soil	0.7	17.0	5.2	79	0.3	25.9	7.6	249	1.89	2.1	2.5	1.3	19	0.3	0.1	<0.1	45	0.18	0.136	4
REP PP11-RP118	QC	0.6	16.6	4.9	77	0.3	27.0	7.7	262	1.93	2.2	1.3	1.3	19	0.3	0.1	<0.1	44	0.18	0.135	4



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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																	
PP11-MRP06	Soil	41	0.38	91	0.087	<1	1.76	0.028	0.11	<0.1	0.02	4.6	<0.1	<0.05	5	<0.5	<0.2
REP PP11-MRP06	QC	42	0.39	92	0.089	<1	1.82	0.028	0.11	<0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
PP11-MRP27	Soil	12	0.14	43	0.057	<1	0.95	0.023	0.02	<0.1	0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
REP PP11-MRP27	QC	13	0.15	43	0.057	<1	0.97	0.027	0.02	<0.1	0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
PP11-MRP70	Soil	14	0.20	67	0.070	<1	1.26	0.025	0.04	<0.1	<0.01	1.4	<0.1	0.05	4	<0.5	<0.2
REP PP11-MRP70	QC	13	0.19	67	0.066	<1	1.21	0.024	0.04	<0.1	0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PP11-MRP75	Soil	22	0.18	98	0.076	2	1.77	0.019	0.05	0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
REP PP11-MRP75	QC	22	0.19	96	0.076	1	1.74	0.019	0.05	0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
PP11-MRP90	Soil	29	0.22	135	0.083	<1	2.46	0.017	0.05	<0.1	0.03	1.8	<0.1	<0.05	7	<0.5	<0.2
REP PP11-MRP90	QC	29	0.21	133	0.081	<1	2.39	0.018	0.04	<0.1	0.01	2.0	<0.1	<0.05	7	<0.5	<0.2
PP11-MRP109	Soil	14	0.50	161	0.193	<1	1.98	0.021	0.18	0.5	0.03	2.0	<0.1	<0.05	7	<0.5	<0.2
REP PP11-MRP109	QC	13	0.49	165	0.187	1	1.98	0.020	0.17	0.5	0.02	2.1	<0.1	0.06	7	<0.5	<0.2
PP11-RP07	Soil	21	0.32	120	0.125	1	2.21	0.025	0.07	<0.1	0.03	1.7	<0.1	<0.05	6	<0.5	<0.2
REP PP11-RP07	QC	21	0.33	125	0.126	<1	2.28	0.019	0.07	0.1	0.03	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11-RP32	Soil	43	0.52	191	0.116	<1	3.57	0.021	0.09	<0.1	0.02	3.8	<0.1	<0.05	9	<0.5	<0.2
REP PP11-RP32	QC	43	0.52	187	0.116	<1	3.46	0.023	0.09	<0.1	0.02	3.9	<0.1	<0.05	9	<0.5	<0.2
PP11-RP47	Soil	38	0.50	74	0.083	2	1.42	0.038	0.05	<0.1	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2
REP PP11-RP47	QC	39	0.50	74	0.087	1	1.44	0.041	0.05	<0.1	0.03	3.9	<0.1	<0.05	4	<0.5	<0.2
PP11-RP75	Soil	11	0.43	119	0.172	2	2.14	0.015	0.11	0.1	0.02	1.7	<0.1	<0.05	8	<0.5	<0.2
REP PP11-RP75	QC	10	0.43	119	0.170	1	2.13	0.015	0.11	0.1	0.02	1.7	<0.1	<0.05	7	<0.5	<0.2
PP11-RP87	Soil	10	0.09	123	0.078	2	1.53	0.017	0.04	<0.1	0.03	1.4	<0.1	<0.05	5	<0.5	<0.2
REP PP11-RP87	QC	10	0.09	129	0.084	2	1.57	0.018	0.05	<0.1	0.04	1.5	<0.1	<0.05	5	<0.5	<0.2
PP11-RP92	Soil	42	0.39	145	0.098	2	2.47	0.015	0.06	<0.1	0.01	3.1	<0.1	<0.05	7	<0.5	<0.2
REP PP11-RP92	QC	46	0.42	159	0.113	2	2.79	0.016	0.07	<0.1	0.02	3.7	<0.1	<0.05	8	<0.5	<0.2
PP11-RP109	Soil	24	0.26	100	0.083	<1	2.10	0.025	0.05	<0.1	0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
REP PP11-RP109	QC	25	0.26	102	0.086	<1	2.10	0.025	0.05	<0.1	0.02	1.8	<0.1	<0.05	6	0.6	<0.2
PP11-RP118	Soil	31	0.33	107	0.072	<1	1.61	0.023	0.04	<0.1	0.02	2.4	<0.1	<0.05	6	0.5	<0.2
REP PP11-RP118	QC	31	0.33	108	0.074	1	1.64	0.022	0.05	<0.1	0.01	2.5	<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
		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
PP11-RP141	Soil	0.6	14.9	4.5	67	<0.1	7.9	10.3	513	2.99	1.0	1.0	1.8	39	<0.1	0.1	0.1	85	0.37	0.058	4
REP PP11-RP141	QC	0.4	14.0	4.6	64	<0.1	7.7	9.7	485	2.91	0.8	<0.5	1.6	36	<0.1	0.1	0.1	87	0.37	0.055	4
Reference Materials																					
STD DS8	Standard	10.9	93.7	114.3	280	1.6	32.1	6.4	546	2.17	22.7	103.2	6.2	65	2.2	5.0	5.4	36	0.65	0.069	15
STD DS8	Standard	14.6	122.3	130.5	331	1.9	41.6	8.3	645	2.60	27.9	126.1	7.5	69	2.5	5.9	6.7	46	0.73	0.079	17
STD DS8	Standard	13.5	109.3	132.7	314	1.9	37.8	7.8	613	2.48	26.6	126.9	7.9	65	2.5	5.2	5.7	42	0.70	0.080	15
STD DS8	Standard	12.7	107.8	124.0	303	1.7	37.1	7.3	606	2.41	25.8	103.0	6.5	69	2.2	5.2	6.7	41	0.68	0.078	15
STD DS8	Standard	12.6	104.0	122.9	291	1.7	35.4	7.1	578	2.32	24.7	104.2	6.8	67	2.1	5.3	6.5	39	0.66	0.074	15
STD DS8	Standard	13.7	113.0	129.1	306	1.9	39.3	7.6	614	2.46	26.7	108.3	7.0	67	2.3	5.5	6.7	43	0.70	0.077	16
STD DS8	Standard	13.0	108.5	125.3	302	1.9	37.1	7.4	598	2.35	25.0	117.8	6.8	67	2.2	6.0	6.7	41	0.65	0.074	15
STD DS8	Standard	12.8	108.8	129.4	305	1.8	37.9	7.2	613	2.45	25.8	101.6	7.2	77	2.2	5.3	7.1	42	0.69	0.078	15
STD DS8	Standard	12.1	101.3	114.1	289	1.6	36.0	7.2	581	2.25	24.6	107.4	6.1	68	2.2	5.1	6.1	40	0.63	0.075	15
STD DS8	Standard	12.1	97.5	109.5	281	1.7	32.9	6.6	554	2.17	22.4	115.1	5.8	53	2.0	4.3	5.4	39	0.61	0.064	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
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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 2446 Bidston Road
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Project: Princeton
 Report Date: November 27, 2011

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QUALITY CONTROL REPORT

VAN11005253.1

		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
PP11-RP141	Soil	10	0.55	177	0.183	1	2.34	0.014	0.26	0.2	0.01	2.6	<0.1	<0.05	8	<0.5	<0.2
REP PP11-RP141	QC	10	0.52	169	0.173	<1	2.24	0.014	0.25	0.3	0.02	2.6	<0.1	<0.05	8	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	100	0.54	250	0.105	2	0.84	0.099	0.39	2.6	0.19	2.6	5.0	0.07	4	4.0	4.1
STD DS8	Standard	128	0.64	293	0.137	3	0.98	0.104	0.44	3.2	0.21	2.3	5.5	0.23	5	5.2	4.6
STD DS8	Standard	114	0.60	289	0.119	3	0.92	0.093	0.43	3.0	0.21	2.5	5.6	0.14	5	6.2	5.5
STD DS8	Standard	116	0.61	267	0.124	2	0.95	0.102	0.41	2.9	0.19	2.9	5.5	0.15	5	4.7	5.0
STD DS8	Standard	110	0.59	271	0.119	1	0.89	0.096	0.40	2.9	0.18	2.0	5.3	0.13	4	4.8	4.8
STD DS8	Standard	119	0.62	275	0.126	3	0.93	0.090	0.42	3.1	0.19	2.1	5.6	0.15	5	5.5	4.9
STD DS8	Standard	116	0.62	272	0.119	4	0.88	0.086	0.41	3.0	0.20	2.3	5.3	0.17	5	5.3	5.0
STD DS8	Standard	117	0.62	271	0.115	2	0.98	0.107	0.42	2.7	0.21	2.9	5.4	0.18	5	4.6	4.7
STD DS8	Standard	110	0.56	259	0.115	2	0.90	0.100	0.39	2.8	0.18	2.6	5.1	0.17	5	4.6	4.8
STD DS8	Standard	110	0.51	243	0.098	2	0.80	0.081	0.38	2.8	0.18	2.6	5.0	0.12	4	3.9	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
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 05, 2011
Report Date: October 13, 2011
Page: 1 of 4

CERTIFICATE OF ANALYSIS

VAN11005273.1

CLIENT JOB INFORMATION

Project: Princeton
Shipment ID:
P.O. Number
Number of Samples: 73

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	73	Dry at 60C			VAN
SS80	70	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	73	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: October 13, 2011

Page: 2 of 4 Part 1

CERTIFICATE OF ANALYSIS

VAN11005273.1

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	
PP11 MRP 346	Soil	0.2	14.2	4.4	29	<0.1	19.9	4.7	195	1.26	<0.5	4.7	0.8	25	<0.1	<0.1	<0.1	30	0.16	0.018	4
PP11 MRP 347	Soil	0.5	11.9	4.5	33	<0.1	19.8	4.9	86	1.38	1.0	8.9	0.9	19	<0.1	<0.1	<0.1	29	0.10	0.065	3
PP11 MRP 348	Soil	0.4	13.2	4.5	30	<0.1	23.2	5.4	121	1.40	0.7	<0.5	0.9	19	<0.1	<0.1	<0.1	31	0.13	0.083	4
PP11 MRP 349	Soil	0.1	18.1	3.4	26	0.2	19.2	5.0	337	1.22	1.1	4.0	1.0	31	<0.1	<0.1	<0.1	30	0.23	0.015	7
PP11 MRP 350	Soil	0.1	13.1	3.3	24	<0.1	21.3	4.4	72	1.22	<0.5	1.1	0.9	22	<0.1	<0.1	<0.1	31	0.14	0.020	5
PP11 MRP 351	Soil	0.3	9.2	3.9	31	<0.1	20.3	4.5	104	1.27	0.9	1.3	0.8	17	<0.1	<0.1	<0.1	28	0.12	0.140	3
PP11 MRP 352	Soil	0.4	10.6	4.2	28	<0.1	19.9	5.6	84	1.32	0.9	2.5	0.9	22	<0.1	<0.1	<0.1	32	0.11	0.079	4
PP11 MRP 353	Soil	0.5	10.0	5.2	43	<0.1	23.6	5.3	177	1.48	0.5	<0.5	0.9	25	<0.1	<0.1	0.1	30	0.12	0.094	4
PP11 MRP 354	Soil	0.3	9.6	3.9	40	<0.1	21.4	5.0	77	1.39	0.6	<0.5	0.9	19	<0.1	<0.1	<0.1	28	0.11	0.117	3
PP11 MRP 355	Soil	0.3	6.2	4.8	46	<0.1	18.6	4.6	282	1.10	0.7	<0.5	0.6	19	<0.1	<0.1	<0.1	24	0.10	0.119	3
PP11 MRP 356	Soil	0.3	8.8	4.1	43	<0.1	18.7	4.5	230	1.20	0.8	7.8	0.8	17	<0.1	<0.1	<0.1	27	0.11	0.070	3
PP11 MRP 357	Soil	0.5	10.3	4.7	47	0.1	7.4	7.8	183	2.30	0.7	<0.5	1.1	21	<0.1	<0.1	0.2	60	0.24	0.138	2
PP11 MRP 358	Soil	0.4	16.1	5.1	51	0.2	11.1	7.6	356	1.95	1.0	<0.5	1.0	39	<0.1	<0.1	0.2	52	0.36	0.079	6
PP11 MRP 359	Soil	0.4	15.8	4.7	46	0.2	10.1	8.3	231	2.40	1.3	<0.5	1.1	38	<0.1	0.1	<0.1	68	0.43	0.052	7
PP11 MRP 360	Soil	0.4	42.1	2.7	49	<0.1	11.1	12.6	404	3.84	3.0	2.1	1.6	68	<0.1	0.2	0.1	114	0.79	0.143	10
PP11 MRP 361	Soil	0.4	10.1	4.6	58	0.2	8.3	7.3	562	1.99	0.5	<0.5	0.7	24	<0.1	<0.1	0.1	55	0.24	0.086	2
PP11 MRP 362	Soil	0.4	17.3	5.1	46	<0.1	13.4	8.1	156	2.48	0.8	<0.5	1.0	46	<0.1	0.1	0.2	77	0.37	0.068	3
PP11 MRP 363	Soil	0.4	10.8	5.8	57	<0.1	16.8	6.2	468	1.55	0.5	<0.5	0.8	37	<0.1	<0.1	<0.1	43	0.23	0.069	2
PMS-106	Soil Pulp	15.9	59.7	16.8	16	0.2	15.9	2.3	101	3.52	434.1	208.9	0.8	26	0.3	24.6	0.2	9	0.93	0.005	1
PP11 MRP 364	Soil	0.3	11.1	7.0	49	<0.1	14.0	6.0	281	1.87	<0.5	<0.5	1.1	54	<0.1	<0.1	<0.1	57	0.26	0.026	4
PP11 MRP 365	Soil	0.4	32.1	5.3	54	<0.1	24.8	9.8	375	2.82	0.7	<0.5	2.4	119	<0.1	<0.1	<0.1	68	0.54	0.036	11
PP11 MRP 366	Soil	0.3	8.9	4.4	48	<0.1	12.8	5.2	482	1.47	<0.5	<0.5	0.9	35	<0.1	<0.1	<0.1	43	0.22	0.028	2
PP11 MRP 367	Soil	0.3	8.5	4.2	43	<0.1	11.6	5.0	384	1.39	<0.5	<0.5	0.9	32	<0.1	<0.1	<0.1	41	0.20	0.026	2
PP11-RP391	Soil	0.2	6.6	3.1	20	<0.1	12.3	3.0	51	1.01	<0.5	<0.5	0.5	21	<0.1	<0.1	<0.1	24	0.14	0.018	2
PP11-RP392	Soil	0.2	11.5	4.3	34	<0.1	23.7	4.2	99	1.33	1.0	<0.5	1.0	37	<0.1	<0.1	<0.1	25	0.19	0.185	4
PP11-RP393	Soil	0.4	11.0	4.0	32	<0.1	22.3	4.9	110	1.21	0.7	1.8	1.0	17	<0.1	<0.1	<0.1	26	0.12	0.128	4
PP11-RP394	Soil	0.4	7.9	4.8	41	<0.1	16.7	3.4	159	1.15	1.0	<0.5	1.1	19	<0.1	<0.1	<0.1	24	0.12	0.136	3
PP11-RP395	Soil	0.5	6.7	4.1	47	<0.1	17.6	3.5	486	1.13	0.8	0.5	0.9	27	<0.1	<0.1	<0.1	24	0.15	0.118	4
PP11-RP396	Soil	0.4	10.4	4.9	44	<0.1	20.4	4.5	217	1.27	0.9	<0.5	0.9	25	<0.1	<0.1	<0.1	28	0.15	0.118	4
PP11-RP397	Soil	0.3	11.0	4.0	39	<0.1	17.7	4.4	144	1.23	0.9	<0.5	1.0	16	<0.1	<0.1	<0.1	27	0.10	0.099	4

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 Report Date: October 13, 2011

Page: 2 of 4 Part 2

CERTIFICATE OF ANALYSIS

VAN11005273.1

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	
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	
PP11 MRP 346	Soil	25	0.28	115	0.061	<1	1.22	0.019	0.05	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP 347	Soil	24	0.22	89	0.058	<1	1.50	0.013	0.05	<0.1	0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP 348	Soil	26	0.22	121	0.052	<1	1.35	0.013	0.04	<0.1	0.02	1.6	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP 349	Soil	26	0.31	89	0.051	<1	0.92	0.020	0.05	<0.1	0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
PP11 MRP 350	Soil	35	0.26	86	0.059	<1	1.09	0.018	0.04	<0.1	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
PP11 MRP 351	Soil	29	0.16	77	0.056	<1	1.39	0.012	0.05	<0.1	0.02	1.4	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP 352	Soil	31	0.19	90	0.057	<1	1.22	0.014	0.04	<0.1	0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP 353	Soil	34	0.19	99	0.065	<1	1.99	0.015	0.03	<0.1	0.02	1.4	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP 354	Soil	28	0.20	141	0.059	<1	1.51	0.015	0.06	<0.1	<0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP 355	Soil	20	0.12	95	0.055	<1	1.31	0.014	0.05	<0.1	0.03	1.0	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP 356	Soil	22	0.20	95	0.060	<1	1.49	0.015	0.04	<0.1	0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP 357	Soil	11	0.37	105	0.104	1	2.00	0.013	0.10	0.2	0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP 358	Soil	15	0.40	94	0.092	1	1.76	0.017	0.17	0.2	0.05	2.8	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP 359	Soil	14	0.48	64	0.101	1	2.17	0.023	0.06	<0.1	0.05	3.9	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP 360	Soil	17	0.90	84	0.085	<1	2.41	0.030	0.18	<0.1	0.01	6.9	0.1	<0.05	7	0.7	<0.2
PP11 MRP 361	Soil	11	0.34	103	0.068	<1	1.89	0.016	0.09	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP 362	Soil	15	0.53	113	0.099	<1	2.09	0.019	0.12	<0.1	<0.01	2.5	0.2	<0.05	6	<0.5	<0.2
PP11 MRP 363	Soil	17	0.25	140	0.074	<1	2.09	0.016	0.08	<0.1	0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
PMS-106	Soil Pulp	21	0.02	1147	0.008	1	0.15	0.006	0.06	2.6	3.03	0.6	10.6	0.12	<1	1.7	<0.2
PP11 MRP 364	Soil	20	0.34	124	0.107	<1	1.92	0.033	0.10	<0.1	<0.01	2.7	0.1	<0.05	5	<0.5	<0.2
PP11 MRP 365	Soil	40	0.95	131	0.080	1	2.12	0.022	0.16	<0.1	0.04	6.8	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP 366	Soil	18	0.27	93	0.076	<1	1.28	0.020	0.09	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP 367	Soil	17	0.25	93	0.070	<1	1.16	0.017	0.09	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PP11-RP391	Soil	21	0.18	66	0.052	<1	0.97	0.020	0.03	<0.1	<0.01	1.1	<0.1	<0.05	3	<0.5	<0.2
PP11-RP392	Soil	27	0.17	123	0.065	<1	1.61	0.015	0.05	<0.1	0.02	1.8	<0.1	<0.05	5	0.6	<0.2
PP11-RP393	Soil	26	0.17	97	0.062	<1	1.67	0.014	0.05	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
PP11-RP394	Soil	16	0.12	95	0.076	2	1.74	0.016	0.06	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
PP11-RP395	Soil	17	0.12	108	0.065	<1	1.53	0.018	0.04	<0.1	0.01	1.2	<0.1	<0.05	5	<0.5	<0.2
PP11-RP396	Soil	27	0.19	104	0.062	<1	1.44	0.015	0.04	<0.1	0.03	1.7	<0.1	<0.05	5	<0.5	<0.2
PP11-RP397	Soil	22	0.18	97	0.064	<1	1.47	0.017	0.04	<0.1	0.01	1.6	<0.1	<0.05	4	<0.5	<0.2

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 Report Date: October 13, 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
PP11-RP398	Soil	0.3	10.5	3.2	33	<0.1	22.8	4.8	153	1.26	<0.5	<0.5	0.8	20	<0.1	<0.1	<0.1	31	0.13	0.058	4
PP11-RP399	Soil	0.2	13.3	4.2	30	<0.1	13.9	5.8	172	1.73	0.6	<0.5	1.9	132	<0.1	<0.1	<0.1	48	0.29	0.014	8
PP11-RP400	Soil	0.1	8.7	5.4	26	<0.1	7.9	3.0	105	1.00	<0.5	<0.5	1.0	55	<0.1	<0.1	<0.1	24	0.15	0.023	5
PP11-RP401	Soil	0.2	14.5	5.1	34	<0.1	16.9	6.8	125	1.97	0.8	<0.5	1.8	48	<0.1	<0.1	<0.1	50	0.17	0.071	6
PP11-RP402	Soil	0.1	12.8	3.8	32	<0.1	11.2	5.7	187	1.64	0.5	<0.5	1.5	65	<0.1	<0.1	<0.1	45	0.28	0.033	6
PP11-RP403	Soil	0.2	11.5	5.5	24	<0.1	10.0	3.9	77	1.35	<0.5	<0.5	1.1	50	<0.1	<0.1	<0.1	30	0.22	0.031	5
PP11-RP404	Soil	0.4	11.6	4.9	28	<0.1	11.5	8.0	135	2.03	<0.5	0.9	1.8	41	<0.1	<0.1	0.2	45	0.21	0.086	5
PMS-110	Soil Pulp	16.3	61.7	15.9	17	0.1	16.1	2.5	106	3.64	440.1	213.0	0.7	28	0.4	25.3	0.2	9	0.98	0.005	2
PP11-RP405	Soil	0.2	17.4	6.8	34	<0.1	14.9	6.3	294	1.74	1.3	1.9	1.7	83	<0.1	0.1	0.2	47	0.45	0.045	14
PP11 JMT378	Soil	0.3	7.1	3.4	47	<0.1	12.2	4.9	308	1.49	<0.5	0.7	0.7	27	<0.1	<0.1	<0.1	41	0.15	0.025	2
PP11 JMT379	Soil	0.4	19.2	3.7	45	<0.1	24.5	8.4	324	2.32	<0.5	<0.5	1.5	47	<0.1	<0.1	<0.1	66	0.27	0.019	7
PP11 JMT380	Soil	0.3	10.8	3.7	49	<0.1	15.0	5.0	165	1.59	<0.5	<0.5	1.0	34	<0.1	<0.1	<0.1	45	0.21	0.030	3
PP11 JMT381	Soil	0.5	26.3	3.3	45	<0.1	33.4	9.7	395	2.77	0.9	0.9	2.2	88	<0.1	<0.1	<0.1	90	0.30	0.020	9
PP11 JMT382	Soil	0.3	12.3	3.4	47	<0.1	23.7	7.2	223	2.06	<0.5	<0.5	1.2	47	<0.1	<0.1	<0.1	62	0.26	0.020	5
PP11 JMT383	Soil	0.3	9.7	2.5	47	<0.1	13.8	5.4	169	1.91	<0.5	<0.5	1.0	40	<0.1	<0.1	<0.1	58	0.22	0.022	4
PP11 JMT384	Soil	0.3	8.0	3.0	48	<0.1	10.4	4.2	182	1.61	<0.5	<0.5	0.7	37	<0.1	<0.1	<0.1	39	0.22	0.030	3
PP11 JMT385	Soil	0.3	10.9	4.0	48	<0.1	15.5	5.9	195	1.91	<0.5	<0.5	1.0	35	<0.1	<0.1	<0.1	57	0.20	0.022	4
PP11 JMT386	Soil	0.4	13.2	2.7	34	<0.1	17.5	6.1	122	1.90	<0.5	<0.5	1.4	44	<0.1	<0.1	<0.1	68	0.22	0.017	4
PP11 JMT070	Soil	0.4	10.8	3.0	34	<0.1	15.1	5.5	147	1.75	0.5	<0.5	1.1	42	<0.1	<0.1	<0.1	59	0.22	0.024	3
PP11 MRP 260	Soil	1.8	27.4	5.7	29	0.3	8.8	7.5	4617	1.83	0.9	1.4	1.0	47	0.3	<0.1	0.1	51	0.68	0.044	12
PP11 MRP 286	Soil	0.8	18.5	3.0	27	0.1	22.8	6.8	89	1.68	4.7	0.9	0.4	9	<0.1	<0.1	<0.1	52	0.06	0.053	2
PP11 MRP 287	Soil	0.8	10.0	4.5	21	<0.1	7.6	2.9	57	1.14	1.3	<0.5	0.4	10	<0.1	<0.1	<0.1	33	0.08	0.045	3
PP11 MRP 288	Soil	0.7	19.2	3.0	31	<0.1	21.9	5.7	121	1.59	2.5	<0.5	0.5	20	<0.1	<0.1	<0.1	54	0.11	0.018	4
PP11 MRP 289	Soil	0.5	26.4	3.6	37	0.1	35.2	11.3	269	1.61	3.6	0.7	0.5	32	<0.1	<0.1	<0.1	53	0.18	0.038	6
PP11 MRP 290	Soil	1.3	14.9	1.1	22	0.3	78.5	14.4	195	1.72	3.0	<0.5	0.4	21	<0.1	0.1	<0.1	74	0.94	0.031	2
PP11 MRP 291	Soil	1.0	18.6	4.0	37	0.1	12.9	5.3	88	1.54	1.1	<0.5	0.5	9	<0.1	<0.1	<0.1	48	0.08	0.026	3
PMS-89	Soil Pulp	124.9	3572	22.6	65	2.5	36.8	20.5	415	4.36	52.6	439.1	1.9	29	0.4	3.6	0.4	125	0.34	0.090	10
PP11 MRP 292	Soil	0.3	12.2	4.5	31	<0.1	9.6	3.2	96	1.08	0.8	1.6	0.4	32	<0.1	<0.1	<0.1	26	0.16	0.019	4
PP11 MRP 293	Soil	0.9	27.6	6.6	52	<0.1	23.4	7.2	453	2.04	3.3	2.1	0.8	59	0.1	<0.1	<0.1	57	0.35	0.034	15
PP11 MRP 294	Soil	0.9	20.3	5.2	57	0.2	20.6	7.5	161	2.01	3.2	1.9	1.2	21	<0.1	0.1	<0.1	56	0.13	0.137	5

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Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
	Cr 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	
PP11-RP398	Soil	42	0.21	113	0.059	<1	1.32	0.014	0.05	<0.1	<0.01	1.3	<0.1	<0.05	4	<0.5	<0.2
PP11-RP399	Soil	26	0.50	148	0.109	<1	1.23	0.023	0.20	<0.1	0.01	3.2	0.3	<0.05	4	<0.5	<0.2
PP11-RP400	Soil	14	0.22	92	0.080	<1	1.06	0.021	0.06	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
PP11-RP401	Soil	23	0.41	170	0.123	<1	2.10	0.017	0.14	<0.1	0.01	2.1	0.1	<0.05	6	<0.5	<0.2
PP11-RP402	Soil	20	0.51	135	0.128	<1	1.31	0.020	0.18	<0.1	<0.01	2.5	0.2	<0.05	4	<0.5	<0.2
PP11-RP403	Soil	21	0.30	76	0.086	<1	1.27	0.021	0.07	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
PP11-RP404	Soil	19	0.44	103	0.136	2	1.63	0.023	0.12	<0.1	<0.01	1.9	0.1	<0.05	5	<0.5	<0.2
PMS-110	Soil Pulp	22	0.03	1119	0.009	2	0.16	0.008	0.06	2.9	2.93	0.5	10.6	0.12	<1	1.6	<0.2
PP11-RP405	Soil	32	0.53	147	0.123	1	1.57	0.027	0.15	<0.1	0.05	3.8	0.3	<0.05	5	<0.5	<0.2
PP11 JMT378	Soil	16	0.23	89	0.084	<1	1.27	0.024	0.08	<0.1	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT379	Soil	38	0.51	64	0.096	1	1.70	0.035	0.08	<0.1	0.03	6.2	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT380	Soil	24	0.32	78	0.087	2	1.40	0.026	0.09	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT381	Soil	59	0.81	89	0.115	<1	1.55	0.044	0.07	<0.1	0.01	7.0	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT382	Soil	34	0.49	81	0.087	1	1.48	0.040	0.06	<0.1	<0.01	3.6	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT383	Soil	35	0.44	76	0.082	1	1.30	0.033	0.07	<0.1	<0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT384	Soil	23	0.39	98	0.079	<1	1.59	0.028	0.06	<0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT385	Soil	26	0.47	80	0.089	1	1.83	0.030	0.06	<0.1	<0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT386	Soil	34	0.47	60	0.088	<1	1.12	0.039	0.07	<0.1	<0.01	3.6	<0.1	<0.05	3	<0.5	<0.2
PP11 JMT070	Soil	28	0.41	64	0.083	<1	1.15	0.034	0.08	<0.1	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
PP11 MRP 260	Soil	9	0.35	226	0.095	<1	1.72	0.028	0.07	<0.1	0.04	2.4	0.1	<0.05	7	<0.5	<0.2
PP11 MRP 286	Soil	40	0.40	96	0.116	<1	1.35	0.015	0.05	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP 287	Soil	12	0.17	72	0.096	<1	0.60	0.012	0.05	<0.1	0.03	1.1	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP 288	Soil	49	0.52	196	0.145	<1	1.26	0.015	0.07	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP 289	Soil	72	0.54	302	0.137	<1	1.50	0.022	0.06	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
PP11 MRP 290	Soil	177	1.22	193	0.223	1	1.36	0.016	0.07	0.1	0.02	1.9	<0.1	<0.05	4	1.0	<0.2
PP11 MRP 291	Soil	15	0.31	103	0.124	<1	1.40	0.017	0.04	<0.1	<0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PMS-89	Soil Pulp	53	0.92	43	0.116	1	1.35	0.040	0.90	4.1	0.05	9.5	0.5	1.93	5	6.1	0.8
PP11 MRP 292	Soil	10	0.18	132	0.080	<1	1.18	0.028	0.04	<0.1	0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP 293	Soil	29	0.47	226	0.095	<1	1.92	0.032	0.09	<0.1	0.02	3.6	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP 294	Soil	31	0.46	149	0.121	<1	1.90	0.015	0.10	0.1	0.04	2.7	<0.1	<0.05	6	<0.5	<0.2

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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	
PP11 MRP 295	Soil	0.6	13.0	5.6	49	<0.1	14.4	6.2	153	1.62	2.4	0.8	1.1	15	<0.1	<0.1	<0.1	42	0.15	0.202	4
PP11 MRP 296	Soil	0.4	12.2	4.6	21	0.1	9.2	3.5	70	1.11	1.2	2.7	0.3	37	0.1	<0.1	<0.1	23	0.20	0.044	5
PP11 MRP 297	Soil	0.4	11.7	4.9	35	<0.1	12.6	4.9	80	1.43	1.8	<0.5	1.0	30	<0.1	<0.1	<0.1	33	0.17	0.080	3
PP11 MRP 298	Soil	0.5	10.9	4.7	36	<0.1	11.1	4.4	100	1.47	1.2	<0.5	1.0	24	<0.1	<0.1	<0.1	34	0.16	0.099	4
PP11 MRP 299	Soil	0.7	12.7	4.2	38	<0.1	13.7	6.1	117	1.69	0.9	<0.5	1.3	46	<0.1	<0.1	<0.1	41	0.38	0.105	6
PP11 MRP 300	Soil	1.7	48.1	4.7	39	0.1	24.4	6.5	300	2.28	2.0	<0.5	1.5	65	0.1	<0.1	<0.1	65	0.75	0.065	27
PP11-RP406	Soil	0.3	11.8	4.9	27	0.2	8.4	5.0	126	1.52	0.6	<0.5	0.8	32	<0.1	<0.1	0.1	37	0.23	0.036	4
PP11-RP407	Soil	0.6	12.1	5.0	49	<0.1	13.3	7.7	265	2.35	1.3	<0.5	1.9	19	<0.1	<0.1	0.1	58	0.17	0.159	4
PP11-RP408	Soil	0.9	3.9	5.0	36	0.1	5.2	3.8	230	1.33	1.3	<0.5	0.7	14	<0.1	<0.1	0.1	30	0.11	0.174	2
PP11-RP409	Soil	0.6	10.6	4.5	48	0.2	7.6	6.3	400	1.85	1.2	<0.5	1.2	24	<0.1	<0.1	0.1	47	0.25	0.143	4
PP11-RP410	Soil	1.0	47.0	4.6	59	1.0	13.0	13.9	553	4.15	1.3	5.9	3.4	68	0.1	0.2	0.3	119	0.94	0.062	28
PP11-RP411	Soil	0.5	39.5	3.7	62	0.2	9.7	12.3	460	4.00	2.6	6.1	2.4	49	<0.1	0.2	0.2	126	0.72	0.111	12
PP11-RP412	Soil	0.2	6.8	4.9	27	<0.1	8.9	3.1	54	1.03	0.9	<0.5	0.6	17	<0.1	<0.1	<0.1	24	0.09	0.087	3



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Project: Princeton
Report Date: October 13, 2011

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CERTIFICATE OF ANALYSIS

VAN11005273.1

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
PP11 MRP 295	Soil	20	0.29	120	0.088	<1	1.69	0.018	0.07	0.1	0.04	1.9	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP 296	Soil	13	0.20	134	0.057	<1	1.19	0.019	0.04	<0.1	0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP 297	Soil	19	0.28	155	0.090	<1	1.59	0.019	0.06	<0.1	<0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP 298	Soil	16	0.30	129	0.084	<1	1.58	0.020	0.05	<0.1	0.01	1.7	<0.1	<0.05	6	<0.5	<0.2
PP11 MRP 299	Soil	23	0.53	108	0.098	<1	1.54	0.023	0.10	<0.1	<0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
PP11 MRP 300	Soil	31	0.48	205	0.092	<1	2.22	0.033	0.09	<0.1	0.03	6.6	<0.1	<0.05	6	<0.5	<0.2
PP11-RP406	Soil	13	0.36	112	0.115	<1	1.38	0.023	0.07	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
PP11-RP407	Soil	13	0.39	128	0.151	<1	2.08	0.019	0.11	0.2	0.02	1.8	<0.1	<0.05	7	<0.5	<0.2
PP11-RP408	Soil	5	0.12	69	0.095	<1	1.36	0.017	0.05	0.2	0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
PP11-RP409	Soil	8	0.32	154	0.122	<1	1.67	0.022	0.12	0.3	0.05	1.6	<0.1	<0.05	5	<0.5	<0.2
PP11-RP410	Soil	19	0.90	263	0.242	<1	2.76	0.021	0.44	0.4	0.06	5.6	0.2	<0.05	9	0.6	<0.2
PP11-RP411	Soil	16	0.84	175	0.163	<1	2.45	0.023	0.35	0.3	0.04	5.8	<0.1	<0.05	8	<0.5	<0.2
PP11-RP412	Soil	12	0.13	56	0.078	<1	1.14	0.019	0.04	<0.1	0.01	1.1	<0.1	<0.05	5	<0.5	<0.2



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Project: Princeton

Report Date: October 13, 2011

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QUALITY CONTROL REPORT

VAN11005273.1

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																					
PP11 MRP 355	Soil	0.3	6.2	4.8	46	<0.1	18.6	4.6	282	1.10	0.7	<0.5	0.6	19	<0.1	<0.1	<0.1	24	0.10	0.119	3
REP PP11 MRP 355	QC	0.4	6.6	5.0	46	<0.1	19.0	4.8	300	1.14	0.8	<0.5	0.7	20	<0.1	<0.1	<0.1	24	0.10	0.122	3
PP11-RP392	Soil	0.2	11.5	4.3	34	<0.1	23.7	4.2	99	1.33	1.0	<0.5	1.0	37	<0.1	<0.1	<0.1	25	0.19	0.185	4
REP PP11-RP392	QC	0.2	10.8	4.2	32	<0.1	22.5	4.0	96	1.26	0.9	<0.5	0.9	34	<0.1	<0.1	<0.1	24	0.18	0.179	4
PP11-RP405	Soil	0.2	17.4	6.8	34	<0.1	14.9	6.3	294	1.74	1.3	1.9	1.7	83	<0.1	0.1	0.2	47	0.45	0.045	14
REP PP11-RP405	QC	0.2	17.8	6.8	35	<0.1	15.2	6.7	296	1.77	0.8	2.7	1.9	82	<0.1	<0.1	0.1	47	0.44	0.045	14
PP11-RP409	Soil	0.6	10.6	4.5	48	0.2	7.6	6.3	400	1.85	1.2	<0.5	1.2	24	<0.1	<0.1	0.1	47	0.25	0.143	4
REP PP11-RP409	QC	0.7	11.0	4.6	45	0.2	8.0	6.2	395	1.88	1.1	<0.5	1.4	24	<0.1	<0.1	0.1	48	0.24	0.144	4
Reference Materials																					
STD DS8	Standard	13.1	104.6	124.4	310	1.7	38.0	7.4	628	2.47	23.8	101.5	6.4	69	2.2	5.5	6.5	41	0.71	0.075	17
STD DS8	Standard	12.8	107.2	122.7	305	1.7	37.9	7.7	598	2.46	23.9	107.6	6.1	62	2.2	5.7	6.4	41	0.69	0.080	14
STD DS8	Standard	11.3	105.3	122.1	300	1.8	36.4	6.9	570	2.36	24.2	114.1	6.2	58	2.3	5.3	6.3	39	0.62	0.076	12
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



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Project: Princeton
Report Date: October 13, 2011

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QUALITY CONTROL REPORT

VAN11005273.1

Method	Analyte	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																	
PP11 MRP 355	Soil	20	0.12	95	0.055	<1	1.31	0.014	0.05	<0.1	0.03	1.0	<0.1	<0.05	5	<0.5	<0.2
REP PP11 MRP 355	QC	20	0.13	99	0.057	<1	1.37	0.014	0.05	<0.1	0.04	1.0	<0.1	<0.05	5	<0.5	<0.2
PP11-RP392	Soil	27	0.17	123	0.065	<1	1.61	0.015	0.05	<0.1	0.02	1.8	<0.1	<0.05	5	0.6	<0.2
REP PP11-RP392	QC	25	0.17	121	0.061	<1	1.60	0.015	0.04	<0.1	<0.01	1.6	<0.1	<0.05	5	0.5	<0.2
PP11-RP405	Soil	32	0.53	147	0.123	1	1.57	0.027	0.15	<0.1	0.05	3.8	0.3	<0.05	5	<0.5	<0.2
REP PP11-RP405	QC	32	0.52	146	0.127	2	1.61	0.028	0.16	<0.1	0.06	4.1	0.2	<0.05	5	<0.5	<0.2
PP11-RP409	Soil	8	0.32	154	0.122	<1	1.67	0.022	0.12	0.3	0.05	1.6	<0.1	<0.05	5	<0.5	<0.2
REP PP11-RP409	QC	9	0.32	164	0.126	<1	1.69	0.023	0.12	0.4	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	117	0.63	284	0.121	1	0.93	0.100	0.44	2.9	0.18	2.4	5.4	0.14	5	5.3	4.8
STD DS8	Standard	115	0.59	261	0.113	3	0.88	0.082	0.38	2.9	0.22	1.9	5.3	0.15	5	5.0	4.6
STD DS8	Standard	111	0.58	259	0.104	2	0.83	0.075	0.38	2.7	0.18	1.8	5.4	0.16	4	5.2	4.4
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



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Submitted By: Tim Henneberry
Receiving Lab: Canada-Vancouver
Received: October 03, 2011
Report Date: November 23, 2011
Page: 1 of 9

CERTIFICATE OF ANALYSIS

VAN11005421.1

CLIENT JOB INFORMATION

Project: Princeton
Shipment ID:
P.O. Number
Number of Samples: 228

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	228	Dry at 60C			VAN
SS80	224	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	228	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 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11005421.1

Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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	%	%	%	
		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	
PP11 JMT151	Soil	0.1	9.2	3.8	32	<0.1	12.6	4.3	75	1.28	0.8	2.0	1.0	23	<0.1	<0.1	<0.1	40	0.16	0.029	2
PP11 JMT152	Soil	0.3	13.5	3.0	32	<0.1	15.6	7.4	101	2.29	1.0	1.4	1.3	40	<0.1	<0.1	0.1	68	0.22	0.018	3
PP11 JMT153	Soil	0.3	8.3	3.5	36	<0.1	17.5	4.0	97	1.15	1.1	0.5	1.2	19	<0.1	<0.1	0.1	29	0.13	0.115	3
PP11 JMT154	Soil	0.3	10.5	3.4	29	<0.1	15.9	5.3	80	1.55	0.6	1.1	1.1	34	<0.1	<0.1	<0.1	53	0.17	0.021	3
PP11 JMT155	Soil	0.2	14.0	5.1	26	<0.1	17.1	4.1	96	1.14	1.1	2.3	2.1	17	<0.1	<0.1	0.1	28	0.11	0.098	6
PP11 JMT156	Soil	0.2	11.2	4.9	26	<0.1	19.0	6.3	172	1.52	<0.5	0.9	1.8	38	<0.1	<0.1	0.1	41	0.23	0.018	6
PP11 JMT157	Soil	0.5	49.6	9.5	48	0.1	39.1	13.7	1722	2.83	1.8	0.6	2.9	98	0.3	<0.1	0.3	76	0.64	0.055	44
PP11 JMT158	Soil	0.3	33.7	5.8	71	<0.1	40.2	15.0	1337	3.19	1.3	1.5	1.7	85	<0.1	<0.1	0.2	96	0.73	0.067	12
PP11 JMT159	Soil	0.4	35.0	11.6	70	<0.1	31.6	12.8	1275	3.09	1.2	<0.5	2.1	77	0.2	0.1	0.9	82	0.64	0.074	16
PP11 JMT160	Soil	0.2	29.9	5.3	60	<0.1	32.9	13.0	1197	3.01	1.1	0.7	2.0	50	0.1	<0.1	0.2	78	0.43	0.056	9
PP11 JMT161	Soil	0.3	18.0	3.4	49	<0.1	28.4	9.4	588	2.47	0.5	<0.5	1.8	55	0.1	<0.1	<0.1	58	0.38	0.036	9
PP11 JMT162	Soil	0.4	17.8	1.8	40	<0.1	20.1	6.3	94	2.34	0.6	0.9	1.7	40	<0.1	<0.1	<0.1	71	0.25	0.020	10
PP11 JMT163	Soil	0.3	9.9	4.0	33	<0.1	14.5	4.6	141	1.47	<0.5	<0.5	0.9	31	<0.1	<0.1	<0.1	42	0.21	0.018	2
PP11 JMT164	Soil	0.4	9.3	3.3	36	<0.1	12.7	5.0	192	1.32	<0.5	<0.5	0.9	23	<0.1	<0.1	<0.1	38	0.12	0.043	2
PP11 JMT165	Soil	0.4	10.0	2.8	34	<0.1	10.7	5.0	200	1.27	0.6	1.2	0.6	23	<0.1	<0.1	<0.1	50	0.17	0.019	4
PP11 JMT166	Soil	0.3	10.2	3.6	34	<0.1	13.4	4.8	156	1.35	0.6	2.5	0.9	26	<0.1	<0.1	<0.1	48	0.17	0.018	3
PP11 JMT167	Soil	0.3	12.3	3.9	35	<0.1	16.6	5.2	138	1.62	0.7	<0.5	1.1	31	<0.1	<0.1	<0.1	47	0.24	0.014	5
PP11 JMT168	Soil	0.2	12.1	3.8	34	<0.1	13.1	3.9	140	1.23	0.7	<0.5	0.9	29	<0.1	<0.1	<0.1	36	0.20	0.013	5
PP11 JMT169	Soil	0.3	10.3	3.9	57	<0.1	18.3	4.9	142	1.24	0.8	1.2	0.9	22	<0.1	<0.1	<0.1	31	0.16	0.147	3
PP11 JMT170	Soil	0.4	10.5	4.5	58	<0.1	17.8	4.7	257	1.26	1.1	0.8	1.0	16	<0.1	<0.1	<0.1	30	0.13	0.106	3
PP11 JMT171	Soil	0.4	46.8	3.5	48	<0.1	34.7	9.2	208	3.31	1.8	3.2	2.3	75	<0.1	0.1	<0.1	72	0.43	0.048	14
PP11 JMT172	Soil	0.3	18.2	4.0	49	<0.1	21.3	6.1	180	1.62	1.3	2.8	1.4	30	<0.1	0.1	<0.1	45	0.19	0.039	5
PP11 JMT173	Soil	0.3	12.5	6.0	42	<0.1	15.5	6.0	185	1.52	0.9	1.3	1.2	27	<0.1	<0.1	<0.1	43	0.17	0.023	4
PP11 JMT174	Soil	0.3	6.8	3.7	47	<0.1	10.3	3.5	227	1.13	0.7	1.5	0.9	12	<0.1	<0.1	<0.1	29	0.10	0.103	2
PP11 JMT175	Soil	0.5	12.0	3.8	41	<0.1	18.9	5.7	134	1.56	0.8	7.8	0.9	24	<0.1	<0.1	<0.1	42	0.17	0.042	3
PP11 JMT176	Soil	0.5	12.1	4.6	50	<0.1	17.9	5.8	191	1.42	0.9	2.1	1.0	19	0.1	0.1	<0.1	37	0.17	0.090	3
PP11 JMT177	Soil	0.6	10.4	4.1	45	<0.1	17.3	5.8	226	1.31	1.1	1.3	0.9	16	<0.1	<0.1	<0.1	33	0.14	0.092	3
PP11 JMT178	Soil	0.4	15.5	6.2	35	<0.1	18.6	5.7	97	1.61	1.3	28.3	1.0	24	<0.1	0.2	<0.1	42	0.19	0.051	4
PP11 JMT179	Soil	0.2	10.9	3.3	29	<0.1	11.9	3.6	153	1.17	0.8	1.6	0.6	19	<0.1	<0.1	<0.1	35	0.16	0.019	4
PP11 JMT180	Soil	0.2	7.9	3.7	27	<0.1	10.7	2.9	95	0.88	0.8	<0.5	0.5	15	<0.1	<0.1	<0.1	24	0.11	0.026	3

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Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
	Cr 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		
PP11 JMT151	Soil	16	0.17	153	0.097	2	1.75	0.017	0.09	<0.1	<0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT152	Soil	32	0.34	80	0.107	1	1.25	0.024	0.07	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT153	Soil	11	0.12	169	0.087	2	1.79	0.021	0.05	<0.1	0.03	2.0	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT154	Soil	27	0.26	112	0.092	1	1.58	0.015	0.06	<0.1	0.02	2.2	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT155	Soil	13	0.11	126	0.113	2	2.54	0.024	0.03	<0.1	0.04	2.5	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT156	Soil	30	0.23	89	0.109	2	1.46	0.025	0.12	<0.1	0.01	2.6	0.1	<0.05	4	<0.5	<0.2
PP11 JMT157	Soil	58	0.52	150	0.082	2	3.17	0.023	0.10	<0.1	0.07	12.2	0.4	0.07	8	<0.5	<0.2
PP11 JMT158	Soil	125	1.22	100	0.065	3	1.95	0.043	0.11	<0.1	0.03	8.7	<0.1	0.05	6	<0.5	<0.2
PP11 JMT159	Soil	75	1.00	164	0.059	2	1.75	0.033	0.08	<0.1	0.05	7.7	<0.1	0.09	5	<0.5	<0.2
PP11 JMT160	Soil	64	1.01	62	0.060	<1	1.71	0.028	0.07	<0.1	0.03	7.3	<0.1	0.06	5	<0.5	<0.2
PP11 JMT161	Soil	44	0.46	113	0.065	2	1.29	0.027	0.13	<0.1	0.02	5.1	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT162	Soil	34	0.45	71	0.083	2	1.35	0.028	0.07	<0.1	<0.01	5.8	<0.1	0.06	4	<0.5	<0.2
PP11 JMT163	Soil	23	0.25	96	0.084	<1	1.51	0.029	0.07	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT164	Soil	18	0.21	100	0.077	1	1.52	0.018	0.07	<0.1	<0.01	1.7	<0.1	0.06	4	<0.5	<0.2
PP11 JMT165	Soil	16	0.21	58	0.064	<1	1.09	0.017	0.04	<0.1	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
PP11 JMT166	Soil	19	0.25	73	0.075	<1	1.30	0.020	0.06	<0.1	<0.01	2.2	<0.1	0.07	4	<0.5	<0.2
PP11 JMT167	Soil	31	0.37	82	0.097	<1	1.39	0.032	0.06	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT168	Soil	20	0.23	70	0.079	<1	1.19	0.028	0.05	<0.1	0.02	2.9	<0.1	<0.05	3	<0.5	<0.2
PP11 JMT169	Soil	15	0.16	117	0.073	<1	1.62	0.016	0.05	<0.1	0.02	1.9	<0.1	0.05	5	<0.5	<0.2
PP11 JMT170	Soil	17	0.17	145	0.077	<1	1.82	0.014	0.05	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT171	Soil	54	0.77	144	0.093	<1	2.41	0.018	0.15	<0.1	0.02	7.3	0.1	<0.05	6	<0.5	<0.2
PP11 JMT172	Soil	29	0.32	139	0.096	<1	1.92	0.016	0.10	<0.1	0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT173	Soil	24	0.25	136	0.108	1	2.06	0.014	0.06	<0.1	<0.01	2.2	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT174	Soil	9	0.10	87	0.082	1	1.47	0.018	0.03	<0.1	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT175	Soil	21	0.23	126	0.075	<1	1.74	0.013	0.08	0.2	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT176	Soil	19	0.19	119	0.072	<1	1.62	0.014	0.08	0.2	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT177	Soil	18	0.16	109	0.070	<1	1.41	0.013	0.05	0.2	0.02	1.5	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT178	Soil	23	0.26	125	0.086	<1	1.79	0.013	0.09	0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT179	Soil	16	0.16	87	0.064	<1	1.07	0.016	0.03	<0.1	0.02	1.4	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT180	Soil	10	0.11	81	0.054	<1	0.91	0.015	0.03	<0.1	0.01	1.2	<0.1	<0.05	4	<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	1
PP11 JMT181	Soil	0.4	12.5	13.1	53	0.1	26.9	5.9	122	1.49	1.4	2.0	1.3	25	0.6	0.1	<0.1	36	0.16	0.080	4
PP11 JMT182	Soil	0.4	15.8	4.8	35	<0.1	20.9	4.9	91	1.49	1.5	12.8	1.1	27	<0.1	0.1	<0.1	40	0.20	0.049	4
PP11 JMT183	Soil	0.6	11.3	4.2	31	<0.1	18.1	5.1	61	1.40	1.5	6.4	0.8	11	<0.1	<0.1	<0.1	37	0.08	0.081	3
PP11 JMT184	Soil	1.5	40.5	3.9	79	0.2	33.9	7.0	173	2.85	4.3	22.8	2.0	51	0.2	0.3	<0.1	88	0.36	0.056	9
PP11 JMT185	Soil	0.8	21.3	5.4	60	0.2	29.4	6.8	107	1.75	2.3	3.4	1.1	18	0.2	<0.1	<0.1	45	0.15	0.139	4
PP11 JMT186	Soil	0.7	17.4	6.7	58	0.2	41.8	7.5	255	1.60	1.8	2.3	1.5	17	0.1	<0.1	0.1	37	0.13	0.137	5
PP11 JMT187	Soil	0.3	24.8	4.0	36	<0.1	41.6	7.7	167	2.14	1.4	2.0	1.6	60	<0.1	0.2	0.1	55	0.33	0.015	7
PP11 JMT188	Soil	0.2	14.7	2.2	29	<0.1	26.6	5.3	129	1.52	0.8	0.6	1.2	37	<0.1	<0.1	<0.1	42	0.21	0.016	5
PP11 JMT189	Soil	0.1	8.1	3.8	28	<0.1	14.9	4.0	298	1.09	0.8	0.8	0.8	21	<0.1	<0.1	<0.1	29	0.10	0.018	5
PP11 JMT190	Soil	0.1	17.5	3.0	28	<0.1	28.7	6.0	181	1.66	0.9	0.6	1.2	45	<0.1	<0.1	<0.1	43	0.27	0.019	6
PP11 JMT191	Soil	0.2	25.7	5.9	47	<0.1	41.0	10.2	221	2.69	1.0	<0.5	3.5	156	<0.1	<0.1	0.1	68	0.41	0.066	14
PP11 JMT192	Soil	0.3	9.4	4.0	50	<0.1	15.8	5.9	213	1.85	0.6	0.7	1.5	65	<0.1	<0.1	<0.1	52	0.22	0.060	3
PP11 JMT193	Soil	0.3	12.6	5.6	42	<0.1	18.9	8.1	114	2.28	1.7	<0.5	2.0	21	<0.1	<0.1	0.1	61	0.11	0.141	4
PP11 JMT194	Soil	0.4	17.8	4.4	63	<0.1	17.9	10.9	269	2.88	1.3	<0.5	3.6	37	<0.1	0.1	0.1	76	0.19	0.090	5
PP11 JMT195	Soil	0.5	16.1	6.5	87	<0.1	17.6	10.5	213	2.76	2.0	0.6	4.0	24	<0.1	0.1	0.1	68	0.15	0.179	5
PP11 JMT196	Soil	0.6	19.1	4.9	71	<0.1	22.5	11.8	232	3.03	2.1	<0.5	3.8	27	<0.1	0.1	0.1	79	0.22	0.148	4
PP11 JMT197	Soil	0.3	14.1	4.0	39	<0.1	13.8	7.4	228	2.09	1.3	1.1	2.4	43	<0.1	<0.1	<0.1	59	0.22	0.066	7
PP11 JMT198	Soil	0.2	16.6	2.7	35	<0.1	15.9	7.6	218	2.23	1.1	<0.5	2.6	78	<0.1	<0.1	<0.1	65	0.33	0.030	6
PP11 JMT199	Soil	0.1	16.9	5.4	33	<0.1	15.6	6.3	156	1.98	0.6	1.8	2.5	71	<0.1	<0.1	0.1	42	0.33	0.037	13
PP11 JMT200	Soil	0.3	16.1	3.4	68	<0.1	14.1	10.4	226	2.82	1.6	<0.5	3.1	27	<0.1	<0.1	0.1	77	0.22	0.165	4
PMS-104	Rock Pulp	16.0	62.7	16.2	18	0.2	16.3	2.4	114	3.68	424.5	200.9	0.8	33	0.3	27.6	0.2	10	0.97	0.005	2
PP11 JMT201	Soil	0.5	14.0	4.0	59	<0.1	11.5	9.2	239	2.60	1.4	<0.5	2.6	33	<0.1	<0.1	0.1	68	0.22	0.160	5
PP11 JMT202	Soil	0.3	17.8	3.4	47	0.2	12.1	8.5	506	2.44	1.1	<0.5	1.9	31	<0.1	<0.1	0.1	72	0.25	0.035	9
PP11 JMT203	Soil	0.4	18.0	4.3	48	0.1	13.7	7.4	213	2.33	1.2	<0.5	1.7	28	<0.1	0.1	0.1	60	0.20	0.112	4
PP11 JMT204	Soil	0.8	15.2	3.9	42	0.1	9.9	6.7	130	2.14	1.6	1.5	1.6	20	<0.1	<0.1	0.2	55	0.20	0.136	4
PP11 JMT205	Soil	0.5	17.4	3.3	47	0.1	13.2	7.0	162	2.38	1.3	<0.5	1.4	33	<0.1	<0.1	0.2	65	0.28	0.070	4
PP11 JMT206	Soil	0.2	13.9	4.0	47	0.1	10.1	6.4	319	2.30	1.0	0.6	1.2	34	<0.1	<0.1	0.1	61	0.32	0.030	6
PP11 JMT207	Soil	0.8	15.3	5.1	65	0.1	13.3	7.9	388	2.29	1.7	0.8	1.0	30	<0.1	0.1	0.1	64	0.30	0.136	3
PP11 JMT208	Soil	0.7	26.1	3.0	70	<0.1	14.4	9.6	396	2.61	1.4	1.0	1.0	36	<0.1	0.1	0.1	72	0.32	0.071	3
PP11 JMT209	Soil	1.0	26.1	3.2	71	0.1	23.1	8.8	481	2.42	1.6	1.3	1.0	37	<0.1	0.1	0.1	62	0.28	0.067	3

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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	
PP11 JMT181	Soil	19	0.22	170	0.080	<1	2.06	0.018	0.08	<0.1	0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT182	Soil	26	0.26	132	0.074	<1	1.56	0.014	0.09	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT183	Soil	22	0.17	73	0.064	<1	1.46	0.012	0.03	<0.1	<0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT184	Soil	44	0.68	200	0.061	<1	2.14	0.011	0.22	<0.1	0.01	6.2	0.2	<0.05	6	<0.5	<0.2
PP11 JMT185	Soil	31	0.28	118	0.082	<1	2.54	0.013	0.04	<0.1	0.02	2.4	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT186	Soil	24	0.23	150	0.091	<1	2.82	0.015	0.07	<0.1	0.02	2.4	<0.1	<0.05	8	<0.5	<0.2
PP11 JMT187	Soil	50	0.70	114	0.109	1	1.85	0.035	0.08	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT188	Soil	56	0.43	62	0.091	1	1.08	0.031	0.04	<0.1	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT189	Soil	19	0.17	59	0.072	<1	1.23	0.025	0.04	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT190	Soil	46	0.55	100	0.097	<1	1.60	0.032	0.06	<0.1	<0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT191	Soil	47	0.83	253	0.146	<1	3.20	0.026	0.16	<0.1	0.02	5.0	0.2	<0.05	8	<0.5	<0.2
PP11 JMT192	Soil	23	0.34	132	0.115	1	2.06	0.026	0.10	<0.1	0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT193	Soil	17	0.26	125	0.129	1	2.99	0.021	0.05	<0.1	0.03	1.9	<0.1	<0.05	9	<0.5	<0.2
PP11 JMT194	Soil	18	0.61	152	0.226	2	2.95	0.019	0.26	<0.1	0.02	2.4	0.2	<0.05	8	<0.5	<0.2
PP11 JMT195	Soil	17	0.40	131	0.176	1	3.42	0.016	0.10	0.1	0.04	2.6	<0.1	<0.05	10	<0.5	<0.2
PP11 JMT196	Soil	23	0.59	130	0.196	2	3.10	0.018	0.18	<0.1	0.02	2.6	0.1	<0.05	9	<0.5	<0.2
PP11 JMT197	Soil	18	0.39	114	0.142	1	1.69	0.021	0.13	<0.1	0.02	2.1	0.1	<0.05	6	<0.5	<0.2
PP11 JMT198	Soil	30	0.59	124	0.149	1	1.47	0.032	0.16	<0.1	<0.01	2.8	0.1	<0.05	5	<0.5	<0.2
PP11 JMT199	Soil	29	0.50	102	0.151	2	2.09	0.027	0.23	<0.1	0.02	4.4	0.2	<0.05	6	<0.5	<0.2
PP11 JMT200	Soil	15	0.53	155	0.209	1	2.41	0.021	0.21	0.2	0.02	2.1	0.1	<0.05	8	<0.5	<0.2
PMS-104	Rock Pulp	21	0.03	977	0.011	2	0.19	0.007	0.07	2.3	2.91	0.8	10.5	0.12	<1	1.9	<0.2
PP11 JMT201	Soil	13	0.44	166	0.206	2	2.20	0.023	0.19	0.1	0.01	2.1	0.2	<0.05	8	<0.5	<0.2
PP11 JMT202	Soil	14	0.51	178	0.202	1	1.91	0.023	0.23	0.2	0.04	2.3	0.2	<0.05	7	<0.5	<0.2
PP11 JMT203	Soil	17	0.36	165	0.140	1	2.30	0.022	0.08	0.2	0.02	2.4	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT204	Soil	12	0.30	112	0.133	<1	2.13	0.024	0.07	0.2	0.02	2.4	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT205	Soil	17	0.42	132	0.136	<1	2.29	0.030	0.08	0.1	0.02	2.9	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT206	Soil	15	0.34	76	0.129	1	1.92	0.035	0.06	0.1	0.02	3.1	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT207	Soil	15	0.38	113	0.120	2	2.18	0.023	0.07	<0.1	0.04	2.8	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT208	Soil	16	0.46	139	0.140	1	2.71	0.022	0.10	<0.1	0.01	3.1	<0.1	<0.05	8	<0.5	<0.2
PP11 JMT209	Soil	19	0.43	164	0.120	<1	2.27	0.021	0.10	<0.1	<0.01	2.7	<0.1	<0.05	7	<0.5	<0.2

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Project: Princeton
 Report Date: November 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11005421.1

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	
PP11 JMT210	Soil		1.9	39.9	3.2	71	<0.1	24.0	8.6	191	2.79	4.2	0.6	1.5	39	<0.1	0.2	0.1	76	0.27	0.088	4
PP11 JMT211	Soil		2.6	43.0	2.9	78	<0.1	21.6	8.4	265	3.23	7.2	1.7	1.4	45	<0.1	0.2	0.1	100	0.37	0.077	5
PP11 JMT212	Soil		2.2	35.5	3.3	91	0.2	27.1	8.6	361	2.53	2.8	<0.5	1.2	35	<0.1	0.1	0.1	76	0.25	0.085	4
PP11 JMT213	Soil		2.5	87.8	0.3	67	<0.1	18.6	9.0	250	4.60	6.1	<0.5	1.2	58	<0.1	0.1	0.3	107	0.66	0.153	9
PP11 JMT214	Soil		0.4	20.8	2.9	41	0.1	12.7	7.7	143	3.01	0.9	0.7	1.0	42	<0.1	<0.1	<0.1	60	0.28	0.054	3
PP11 JMT215	Soil		0.4	10.8	3.4	50	<0.1	11.9	5.4	166	1.60	0.7	<0.5	0.9	36	<0.1	<0.1	<0.1	42	0.18	0.077	3
PP11 JMT216	Soil		0.3	11.2	3.2	46	<0.1	18.4	6.4	174	1.74	0.6	0.9	1.1	33	<0.1	<0.1	<0.1	47	0.16	0.094	3
PP11 JMT217	Soil		0.3	13.6	3.9	51	<0.1	21.3	6.7	244	1.89	0.7	0.6	1.3	43	<0.1	<0.1	<0.1	51	0.20	0.041	3
PP11 JMT218	Soil		0.3	9.6	3.0	57	<0.1	16.0	5.9	245	1.70	0.8	0.7	1.0	32	<0.1	<0.1	<0.1	45	0.17	0.055	2
PP11 JMT219	Soil		0.4	18.4	2.2	40	<0.1	22.2	7.1	265	2.22	0.8	<0.5	1.5	57	<0.1	<0.1	<0.1	64	0.28	0.021	6
PP11 JMT220	Soil		0.4	12.0	2.9	45	<0.1	18.1	5.9	279	1.79	0.6	<0.5	1.0	41	<0.1	<0.1	<0.1	50	0.23	0.035	3
PP11 JMT221	Soil		0.3	19.0	2.0	41	0.1	17.8	6.2	238	1.94	<0.5	<0.5	1.3	45	<0.1	<0.1	<0.1	57	0.26	0.022	10
PP11 JMT222	Soil		0.3	9.1	3.9	48	<0.1	13.7	5.6	195	1.57	0.7	1.0	1.0	25	<0.1	<0.1	<0.1	47	0.15	0.060	2
PP11 JMT223	Soil		0.3	12.3	3.7	37	<0.1	17.2	5.6	131	1.75	0.7	<0.5	1.2	34	<0.1	<0.1	<0.1	51	0.21	0.029	5
PP11 JMT224	Soil		0.3	13.3	4.2	51	<0.1	18.5	6.0	153	1.70	0.9	1.9	1.2	30	<0.1	<0.1	<0.1	46	0.19	0.057	5
PP11 JMT225	Soil		0.3	11.7	4.3	54	0.1	19.3	6.1	182	1.59	0.7	<0.5	1.2	26	<0.1	<0.1	<0.1	40	0.15	0.117	3
PP11 JMT226	Soil		0.3	14.1	4.1	46	<0.1	18.4	5.8	195	1.59	0.9	3.2	1.2	30	<0.1	<0.1	<0.1	44	0.18	0.048	6
PP11 JMT227	Soil		0.3	11.1	4.2	40	<0.1	14.6	5.2	156	1.47	0.9	5.8	1.0	26	<0.1	<0.1	<0.1	39	0.15	0.059	4
PP11 JMT228	Soil		0.3	12.0	5.1	48	<0.1	15.7	6.2	167	1.72	0.8	<0.5	1.3	34	<0.1	<0.1	<0.1	51	0.21	0.047	4
PP11 JMT229	Soil		0.1	22.2	3.4	50	<0.1	22.5	6.5	375	2.43	0.8	3.8	1.5	42	<0.1	<0.1	<0.1	64	0.28	0.019	9
PP11 JMT230	Soil		0.3	12.0	5.2	70	<0.1	18.7	6.0	266	1.59	0.9	<0.5	1.1	25	<0.1	<0.1	<0.1	36	0.16	0.106	4
PP11 JMT231	Soil		0.4	12.9	5.3	67	<0.1	15.2	6.8	214	1.76	1.0	<0.5	1.1	27	<0.1	<0.1	<0.1	41	0.16	0.070	3
PP11 JMT232	Soil		0.2	12.1	4.2	33	0.1	10.3	4.7	152	1.47	1.0	1.6	0.8	30	<0.1	<0.1	<0.1	38	0.21	0.018	3
PP11 JMT233	Soil		0.3	16.8	5.8	59	<0.1	16.8	7.0	260	1.91	1.2	<0.5	1.4	35	<0.1	0.1	0.1	46	0.21	0.029	4
PP11 JMT234	Soil		0.4	9.9	5.3	56	<0.1	12.5	5.1	395	1.52	1.0	0.6	1.1	29	<0.1	0.1	0.1	38	0.19	0.027	3
PP11 JMT235	Soil		0.3	40.2	4.8	62	<0.1	32.3	10.8	239	3.41	1.6	3.4	3.8	91	<0.1	0.2	<0.1	82	0.55	0.041	19
PP11 JMT236	Soil		0.3	11.2	5.7	45	<0.1	18.9	6.7	92	1.79	1.0	<0.5	1.1	39	<0.1	<0.1	0.1	43	0.21	0.055	4
PP11 JMT237	Soil		0.4	15.4	6.1	58	0.1	35.9	8.1	202	1.94	1.6	37.4	1.6	30	<0.1	0.1	0.1	43	0.21	0.073	4
PP11 JMT238	Soil		0.4	15.3	4.7	35	0.1	23.9	6.3	112	1.86	1.6	26.3	1.3	33	<0.1	0.1	0.1	45	0.24	0.077	4
PP11 JMT239	Soil		0.5	13.8	5.4	49	0.1	26.1	6.9	181	1.69	1.6	9.2	1.5	21	<0.1	0.1	0.1	41	0.14	0.108	4

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Project: Princeton
 Report Date: November 23, 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	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	
PP11 JMT210	Soil	21	0.47	184	0.117	1	2.39	0.025	0.09	<0.1	0.01	3.7	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT211	Soil	25	0.61	171	0.122	<1	2.42	0.022	0.15	<0.1	<0.01	5.3	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT212	Soil	22	0.46	218	0.120	<1	2.36	0.022	0.10	<0.1	0.01	3.5	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT213	Soil	15	0.98	181	0.103	2	2.24	0.016	0.13	<0.1	0.01	5.6	0.1	<0.05	6	<0.5	<0.2
PP11 JMT214	Soil	15	0.38	146	0.127	1	1.69	0.028	0.15	<0.1	0.01	2.5	0.1	<0.05	5	<0.5	<0.2
PP11 JMT215	Soil	16	0.27	88	0.089	<1	1.54	0.022	0.08	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT216	Soil	20	0.27	128	0.097	<1	1.88	0.029	0.07	<0.1	0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT217	Soil	27	0.36	157	0.107	1	2.31	0.028	0.06	<0.1	0.01	2.4	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT218	Soil	21	0.26	124	0.089	<1	1.80	0.025	0.07	<0.1	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT219	Soil	34	0.51	51	0.096	<1	1.45	0.046	0.07	<0.1	0.02	5.9	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT220	Soil	25	0.35	100	0.095	1	1.56	0.030	0.06	<0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT221	Soil	30	0.46	49	0.086	<1	1.42	0.036	0.05	<0.1	0.02	5.9	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT222	Soil	22	0.28	99	0.081	<1	1.71	0.023	0.08	<0.1	<0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT223	Soil	25	0.36	72	0.080	<1	1.49	0.026	0.06	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT224	Soil	26	0.34	85	0.086	<1	1.65	0.022	0.09	<0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT225	Soil	22	0.28	127	0.077	<1	1.80	0.024	0.08	<0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT226	Soil	24	0.33	111	0.083	<1	1.51	0.022	0.08	<0.1	0.01	3.0	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT227	Soil	21	0.28	99	0.082	<1	1.49	0.021	0.09	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT228	Soil	25	0.33	128	0.104	<1	1.92	0.022	0.09	<0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT229	Soil	30	0.35	76	0.111	<1	1.56	0.031	0.06	<0.1	0.01	5.7	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT230	Soil	21	0.27	134	0.083	<1	2.00	0.021	0.09	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT231	Soil	21	0.31	167	0.104	<1	2.15	0.022	0.06	<0.1	0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT232	Soil	20	0.26	54	0.091	<1	1.37	0.027	0.08	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT233	Soil	27	0.36	161	0.122	<1	2.23	0.019	0.13	<0.1	<0.01	2.3	<0.1	<0.05	6	0.5	<0.2
PP11 JMT234	Soil	20	0.27	121	0.095	<1	1.64	0.018	0.13	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT235	Soil	46	0.93	168	0.070	<1	3.69	0.030	0.18	<0.1	0.02	10.0	0.1	<0.05	9	<0.5	<0.2
PP11 JMT236	Soil	25	0.38	134	0.093	<1	1.90	0.021	0.12	<0.1	0.01	2.7	0.1	<0.05	5	<0.5	<0.2
PP11 JMT237	Soil	27	0.34	199	0.108	<1	2.46	0.025	0.12	<0.1	<0.01	2.7	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT238	Soil	29	0.36	134	0.089	<1	1.66	0.019	0.16	0.2	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT239	Soil	22	0.24	132	0.098	<1	2.16	0.024	0.09	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2

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Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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	
PP11 JMT240	Soil	0.4	12.8	5.5	43	0.1	18.2	5.0	207	1.43	1.7	18.3	1.1	26	<0.1	0.1	36	0.18	0.111	4	
PP11 JMT241	Soil	0.4	21.4	5.1	45	0.1	19.1	5.4	152	1.78	2.4	5.2	1.6	42	<0.1	0.3	<0.1	57	0.30	0.016	9
PP11 JMT242	Soil	0.2	28.4	4.6	31	<0.1	17.1	4.4	103	1.59	2.2	1.4	1.1	38	<0.1	0.2	<0.1	47	0.29	0.016	8
PP11 JMT243	Soil	0.2	27.1	5.6	46	0.1	32.2	5.6	109	2.11	2.1	3.3	1.6	44	<0.1	0.1	52	0.33	0.028	6	
PP11 JMT244	Soil	0.7	22.0	6.1	63	0.1	26.7	8.4	170	2.15	2.9	1.4	1.4	36	<0.1	0.2	54	0.23	0.090	6	
PP11 JMT245	Soil	0.5	20.0	5.4	56	0.1	22.7	6.3	177	2.03	2.3	9.3	1.2	33	<0.1	0.2	57	0.27	0.032	5	
PP11 JMT246	Soil	0.7	17.7	5.7	75	0.3	26.7	7.2	254	1.81	1.9	2.3	1.6	24	<0.1	0.1	45	0.18	0.119	5	
PP11 JMT247	Soil	0.7	11.7	5.7	60	0.2	23.0	5.7	619	1.50	1.8	<0.5	1.1	18	<0.1	<0.1	37	0.13	0.103	3	
PP11 JMT248	Soil	0.4	27.5	4.3	37	0.2	51.7	9.3	150	2.25	1.9	2.6	1.8	41	<0.1	0.1	<0.1	55	0.29	0.044	5
PP11 JMT249	Soil	0.5	19.1	5.6	30	0.2	33.4	7.0	74	1.97	3.0	2.0	1.4	28	<0.1	<0.1	45	0.18	0.147	7	
PP11 JMT250	Soil	0.2	12.3	5.1	22	0.2	17.7	4.4	159	1.11	1.0	2.3	1.6	30	<0.1	<0.1	31	0.21	0.015	5	
PMS-106	Rock Pulp	17.1	58.5	17.4	18	0.1	15.8	2.6	97	3.55	448.0	212.5	0.7	29	0.4	26.3	0.2	9	0.98	0.007	2
PP11 JMT251	Soil	0.1	17.4	5.9	28	0.2	18.7	3.9	109	1.20	1.6	3.9	1.4	37	<0.1	<0.1	31	0.26	0.016	5	
PP11 JMT252	Soil	0.4	12.0	4.3	48	<0.1	24.0	6.2	106	1.63	1.7	3.2	1.3	17	<0.1	<0.1	38	0.12	0.178	4	
PP11 JMT253	Soil	0.3	15.6	6.2	66	<0.1	28.0	5.6	141	1.72	1.9	<0.5	1.7	31	<0.1	<0.1	37	0.18	0.213	7	
PP11 JMT254	Soil	0.3	12.7	4.5	34	<0.1	26.1	6.1	101	1.57	1.3	<0.5	1.3	27	<0.1	<0.1	39	0.15	0.093	7	
PP11 JMT255	Soil	0.2	12.4	3.7	29	<0.1	18.5	4.8	144	1.34	0.8	1.8	1.0	32	<0.1	<0.1	34	0.21	0.028	7	
PP11 JMT256	Soil	0.2	22.1	6.1	22	0.1	17.8	5.2	225	1.42	1.0	1.4	1.3	115	<0.1	0.1	34	0.73	0.049	25	
PP11 JMT257	Soil	0.2	22.4	4.3	36	<0.1	18.2	9.3	332	1.90	0.8	2.3	3.2	66	<0.1	<0.1	55	0.45	0.087	15	
PP11 JMT258	Soil	0.2	25.7	6.3	22	<0.1	19.0	5.3	223	1.48	0.9	0.6	1.6	91	<0.1	0.1	37	0.52	0.038	24	
PP11 JMT259	Soil	0.1	17.7	4.8	25	<0.1	11.4	6.3	188	1.62	0.9	<0.5	2.6	55	<0.1	<0.1	42	0.30	0.028	7	
PP11 JMT260	Soil	0.3	17.5	5.8	22	<0.1	13.4	6.7	197	1.67	1.2	<0.5	3.0	65	<0.1	<0.1	44	0.34	0.031	13	
PP11 JMT261	Soil	0.5	8.8	4.6	22	<0.1	8.2	5.8	78	1.88	1.2	2.9	1.8	33	<0.1	<0.1	48	0.16	0.125	4	
PP11 JMT262	Soil	0.6	12.9	5.8	40	<0.1	13.5	7.1	99	2.14	1.6	<0.5	3.0	27	<0.1	<0.1	51	0.15	0.186	4	
PP11 JMT263	Soil	0.2	14.0	5.0	40	<0.1	18.0	6.7	174	2.06	1.0	<0.5	2.8	65	<0.1	<0.1	58	0.29	0.033	7	
PP11 JMT264	Soil	0.2	15.6	4.6	36	<0.1	18.7	7.9	241	2.21	1.5	0.8	2.8	91	<0.1	0.1	64	0.35	0.023	7	
PP11 JMT265	Soil	0.1	32.4	7.1	25	0.1	28.7	6.9	204	1.47	1.6	0.7	2.5	95	<0.1	0.1	40	0.48	0.034	24	
PP11 JMT266	Soil	0.2	25.0	7.7	42	<0.1	36.9	10.3	180	2.57	1.0	<0.5	2.6	92	<0.1	<0.1	65	0.43	0.037	10	
PP11 JMT267	Soil	0.1	18.8	4.7	25	<0.1	14.7	5.2	171	1.47	<0.5	<0.5	1.4	52	<0.1	<0.1	39	0.26	0.017	11	
PP11 JMT268	Soil	0.3	11.9	4.3	29	<0.1	13.0	5.0	86	1.46	0.9	<0.5	1.5	35	<0.1	<0.1	34	0.17	0.205	5	

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Project: Princeton
 Report Date: November 23, 2011

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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
PP11 JMT240	Soil	22	0.25	120	0.073	<1	1.45	0.019	0.08	0.1	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT241	Soil	32	0.42	132	0.115	<1	1.48	0.032	0.10	<0.1	0.01	4.0	0.1	<0.05	4	<0.5	<0.2
PP11 JMT242	Soil	25	0.35	123	0.109	<1	1.51	0.033	0.07	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT243	Soil	40	0.58	185	0.104	<1	2.55	0.029	0.08	<0.1	0.02	4.2	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT244	Soil	29	0.38	170	0.099	<1	2.63	0.017	0.06	<0.1	0.01	3.4	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT245	Soil	36	0.48	125	0.109	<1	1.92	0.021	0.10	<0.1	0.02	3.3	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT246	Soil	26	0.30	169	0.094	<1	2.41	0.019	0.08	<0.1	0.02	2.7	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT247	Soil	20	0.21	133	0.095	<1	1.99	0.020	0.05	<0.1	0.04	1.7	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT248	Soil	48	0.69	135	0.079	<1	1.87	0.029	0.09	<0.1	<0.01	4.5	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT249	Soil	31	0.26	144	0.090	<1	2.61	0.023	0.05	<0.1	0.02	2.8	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT250	Soil	37	0.36	84	0.099	<1	1.17	0.028	0.05	<0.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
PMS-106	Rock Pulp	22	0.03	1545	0.011	<1	0.18	0.008	0.07	2.8	2.94	0.8	10.7	0.18	<1	1.9	<0.2
PP11 JMT251	Soil	34	0.36	90	0.090	<1	1.43	0.038	0.05	<0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT252	Soil	34	0.25	95	0.083	<1	1.92	0.023	0.04	0.1	0.03	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT253	Soil	32	0.26	174	0.103	<1	2.83	0.028	0.05	<0.1	0.02	2.8	<0.1	<0.05	8	<0.5	<0.2
PP11 JMT254	Soil	39	0.27	130	0.088	<1	1.69	0.024	0.05	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT255	Soil	37	0.38	100	0.088	<1	1.22	0.020	0.05	<0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT256	Soil	51	0.47	111	0.078	<1	1.72	0.029	0.11	<0.1	0.03	5.8	0.1	<0.05	5	<0.5	<0.2
PP11 JMT257	Soil	41	0.50	114	0.127	<1	1.37	0.034	0.15	0.1	0.01	5.6	0.1	<0.05	5	<0.5	<0.2
PP11 JMT258	Soil	48	0.39	94	0.098	1	1.79	0.033	0.08	<0.1	0.03	7.2	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT259	Soil	23	0.39	100	0.138	<1	1.50	0.034	0.11	<0.1	<0.01	3.1	0.1	<0.05	5	<0.5	<0.2
PP11 JMT260	Soil	26	0.35	106	0.124	<1	1.57	0.035	0.10	<0.1	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT261	Soil	12	0.20	90	0.124	<1	1.86	0.023	0.04	<0.1	0.01	1.6	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT262	Soil	13	0.25	123	0.140	1	2.62	0.019	0.07	<0.1	0.02	2.2	<0.1	<0.05	8	<0.5	<0.2
PP11 JMT263	Soil	22	0.49	146	0.161	<1	1.85	0.028	0.14	<0.1	0.01	3.1	0.1	<0.05	5	<0.5	<0.2
PP11 JMT264	Soil	28	0.57	151	0.170	<1	1.47	0.034	0.21	<0.1	0.01	3.5	0.2	<0.05	5	<0.5	<0.2
PP11 JMT265	Soil	54	0.46	155	0.138	<1	1.84	0.040	0.13	<0.1	0.03	6.3	0.2	<0.05	5	0.6	<0.2
PP11 JMT266	Soil	48	0.70	160	0.184	1	2.56	0.046	0.13	<0.1	0.01	5.2	0.2	<0.05	7	<0.5	<0.2
PP11 JMT267	Soil	32	0.33	64	0.107	<1	1.41	0.041	0.07	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT268	Soil	17	0.19	91	0.101	<1	1.90	0.026	0.05	<0.1	0.03	2.3	<0.1	<0.05	6	<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	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	
PP11 JMT269	Soil		0.2	25.9	4.2	35	<0.1	18.0	8.3	207	2.01	1.6	1.7	1.6	85	<0.1	0.1	<0.1	64	0.57	0.059	15
PP11 JMT270	Soil		0.2	11.7	5.1	21	<0.1	9.5	4.6	90	1.23	1.4	0.5	1.1	59	<0.1	<0.1	0.1	30	0.32	0.073	3
PP11 JMT271	Soil		0.4	20.6	7.3	50	<0.1	25.5	11.5	168	2.84	1.2	<0.5	2.7	78	<0.1	0.1	0.1	77	0.29	0.098	8
PP11 JMT272	Soil		0.1	7.6	4.3	18	<0.1	7.2	3.0	94	0.99	0.9	<0.5	1.1	33	<0.1	<0.1	<0.1	25	0.18	0.017	5
PP11 JMT273	Soil		0.6	11.5	5.6	32	<0.1	11.2	5.8	93	1.91	1.9	0.7	2.2	26	<0.1	<0.1	0.1	47	0.13	0.190	4
PP11 JMT274	Soil		0.2	13.9	5.3	30	<0.1	13.1	6.4	131	2.09	1.5	<0.5	2.1	50	<0.1	0.1	<0.1	55	0.23	0.069	5
PP11 JMT275	Soil		0.1	13.9	4.0	39	<0.1	11.4	7.7	200	2.15	1.0	1.0	2.6	64	<0.1	<0.1	<0.1	58	0.36	0.048	6
PP11 JMT276	Soil		0.2	9.4	5.2	32	<0.1	10.0	4.7	93	1.51	1.2	1.2	1.3	33	<0.1	<0.1	<0.1	40	0.16	0.097	4
PP11 JMT277	Soil		0.1	11.2	5.0	19	<0.1	7.1	3.0	76	1.07	<0.5	8.0	0.9	49	<0.1	<0.1	<0.1	25	0.23	0.024	7
PP11 JMT278	Soil		0.1	13.6	4.8	21	<0.1	7.9	4.9	146	1.34	0.8	1.9	1.9	60	<0.1	<0.1	<0.1	35	0.28	0.024	9
PP11 JMT279	Soil		0.1	14.4	4.9	19	<0.1	9.0	4.7	226	1.28	0.9	<0.5	1.4	66	<0.1	<0.1	<0.1	33	0.35	0.035	10
PP11 JMT280	Soil		0.2	17.9	6.0	22	<0.1	10.4	5.4	276	1.29	1.1	<0.5	1.8	73	<0.1	<0.1	0.1	37	0.39	0.040	13
PP11 JMT282	Soil		0.1	15.2	5.5	22	<0.1	10.6	4.3	96	1.33	0.7	0.9	1.5	57	<0.1	<0.1	<0.1	31	0.26	0.030	9
PP11 JMT283	Soil		0.2	9.6	5.2	19	<0.1	7.9	3.8	81	1.18	0.6	1.2	1.0	40	<0.1	<0.1	<0.1	29	0.17	0.020	4
PP11 JMT284	Soil		0.2	11.0	4.6	24	<0.1	10.7	4.9	79	1.49	1.1	1.0	1.5	42	<0.1	<0.1	<0.1	35	0.19	0.068	4
PP11 JMT285	Soil		0.3	13.2	5.0	33	<0.1	12.6	5.7	213	1.58	0.8	0.9	1.4	58	<0.1	<0.1	<0.1	41	0.30	0.032	9
PP11 JMT286	Soil		0.5	13.4	5.4	24	<0.1	14.0	6.2	68	1.72	1.9	<0.5	1.9	40	<0.1	<0.1	0.1	42	0.21	0.157	5
PP11 JMT287	Soil		0.3	16.0	5.2	24	<0.1	12.3	4.1	197	1.24	0.8	<0.5	1.4	85	<0.1	0.1	<0.1	39	0.52	0.050	16
PP11 JMT288	Soil		0.3	11.4	6.8	22	0.2	8.1	3.6	59	1.21	1.4	<0.5	0.8	42	<0.1	<0.1	0.1	29	0.25	0.069	5
PP11 JMT289	Soil		0.5	15.6	6.4	30	0.5	14.8	5.9	78	1.78	2.4	0.7	1.3	41	<0.1	<0.1	0.1	40	0.27	0.135	4
PP11 JMT290	Soil		0.6	10.9	5.3	27	0.3	8.8	4.9	64	1.71	2.3	1.1	1.9	16	<0.1	<0.1	0.1	41	0.13	0.197	4
PP11 JMT291	Soil		0.4	14.7	5.1	35	0.2	10.0	6.0	133	1.80	1.1	0.6	1.1	33	<0.1	<0.1	<0.1	53	0.27	0.035	5
PP11 JMT292	Soil		0.3	13.5	5.8	43	0.1	9.4	6.8	219	1.77	1.1	<0.5	2.7	26	<0.1	<0.1	<0.1	49	0.21	0.054	6
PP11 JMT293	Soil		0.4	20.9	7.0	32	0.2	12.5	5.1	154	1.91	1.7	1.1	2.0	40	<0.1	<0.1	<0.1	46	0.28	0.036	8
PP11 JMT294	Soil		0.5	13.7	4.9	34	0.1	10.8	6.2	311	1.82	1.1	1.2	1.3	37	<0.1	0.1	<0.1	50	0.30	0.031	7
PP11 JMT295	Soil		0.5	12.1	4.7	41	<0.1	12.4	5.8	81	1.92	2.0	3.5	1.5	12	<0.1	<0.1	0.1	50	0.12	0.176	3
PP11 JMT296	Soil		0.8	21.0	4.7	28	0.1	13.0	6.6	260	1.74	1.5	1.9	1.3	46	<0.1	<0.1	<0.1	55	0.37	0.044	11
PP11 JMT297	Soil		1.9	36.8	5.3	30	0.3	19.7	9.6	192	1.88	1.7	2.2	2.5	42	0.2	0.1	<0.1	63	0.66	0.049	25
PP11 JMT298	Soil		0.8	18.7	5.3	44	0.2	17.8	7.7	126	1.90	3.4	0.5	1.0	19	0.1	<0.1	0.1	51	0.16	0.082	6
PP11 JMT299	Soil		1.4	16.2	4.7	32	0.1	13.0	5.9	160	1.72	1.6	0.7	0.9	21	<0.1	<0.1	<0.1	52	0.31	0.021	6

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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	
PP11 JMT269	Soil	50	0.62	128	0.108	1	1.81	0.032	0.20	<0.1	0.02	7.9	<0.1	<0.05	5	0.6	<0.2
PP11 JMT270	Soil	17	0.25	72	0.093	<1	1.54	0.023	0.10	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT271	Soil	36	0.61	242	0.170	<1	3.53	0.025	0.12	<0.1	0.02	4.0	0.1	<0.05	9	<0.5	<0.2
PP11 JMT272	Soil	9	0.18	83	0.089	<1	1.12	0.031	0.05	<0.1	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT273	Soil	14	0.21	88	0.133	1	2.52	0.022	0.04	<0.1	0.03	2.2	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT274	Soil	18	0.38	147	0.152	<1	2.15	0.026	0.10	<0.1	0.02	2.6	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT275	Soil	20	0.56	136	0.165	<1	1.66	0.026	0.18	<0.1	<0.01	3.0	0.1	<0.05	5	<0.5	<0.2
PP11 JMT276	Soil	15	0.22	102	0.120	<1	1.74	0.023	0.04	<0.1	0.02	1.8	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT277	Soil	15	0.23	77	0.100	<1	1.26	0.028	0.06	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT278	Soil	22	0.33	106	0.125	<1	1.39	0.041	0.09	<0.1	<0.01	3.5	0.1	<0.05	4	<0.5	<0.2
PP11 JMT279	Soil	30	0.27	100	0.095	<1	1.38	0.035	0.07	<0.1	0.02	4.0	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT280	Soil	36	0.33	117	0.101	<1	1.48	0.037	0.09	<0.1	0.02	4.9	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT282	Soil	24	0.31	98	0.118	<1	1.44	0.032	0.08	<0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT283	Soil	15	0.24	91	0.116	<1	1.31	0.029	0.04	<0.1	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT284	Soil	17	0.24	112	0.118	<1	1.82	0.027	0.04	<0.1	0.01	1.8	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT285	Soil	21	0.35	130	0.126	<1	1.61	0.033	0.09	<0.1	<0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT286	Soil	17	0.23	136	0.114	<1	2.28	0.026	0.06	<0.1	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT287	Soil	31	0.31	130	0.086	1	1.61	0.029	0.07	<0.1	0.05	4.0	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT288	Soil	12	0.16	99	0.108	<1	1.67	0.026	0.03	<0.1	0.03	1.6	<0.1	<0.05	8	<0.5	<0.2
PP11 JMT289	Soil	11	0.20	170	0.121	1	2.60	0.027	0.04	<0.1	0.03	1.7	<0.1	<0.05	8	<0.5	<0.2
PP11 JMT290	Soil	11	0.15	70	0.114	<1	2.64	0.023	0.03	<0.1	0.05	1.8	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT291	Soil	14	0.31	110	0.127	1	1.76	0.029	0.04	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT292	Soil	13	0.37	127	0.153	1	1.78	0.026	0.07	<0.1	0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT293	Soil	16	0.31	202	0.143	<1	2.74	0.037	0.07	<0.1	0.02	2.8	<0.1	<0.05	8	<0.5	<0.2
PP11 JMT294	Soil	16	0.35	142	0.097	1	1.81	0.027	0.07	<0.1	0.02	2.3	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT295	Soil	17	0.23	79	0.093	1	2.34	0.014	0.04	0.1	0.05	1.9	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT296	Soil	19	0.37	154	0.088	<1	1.79	0.025	0.08	<0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT297	Soil	26	0.44	235	0.096	1	2.32	0.027	0.11	0.1	0.05	5.5	<0.1	<0.05	6	1.1	<0.2
PP11 JMT298	Soil	19	0.29	176	0.104	1	1.87	0.017	0.08	<0.1	0.03	2.1	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT299	Soil	18	0.33	186	0.111	<1	1.48	0.026	0.08	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2

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Project: Princeton
 Report Date: November 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11005421.1

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		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	
PP11 JMT300	Soil	1.3	24.7	3.8	32	0.2	15.1	7.4	246	1.66	1.5	1.4	1.3	32	<0.1	<0.1	<0.1	52	0.49	0.063	10
PMS-91	Rock Pulp	117.6	3580	22.5	60	2.4	34.7	20.1	389	4.15	52.8	482.8	1.9	26	0.2	3.2	0.4	116	0.30	0.087	10
PP11 JMT301	Soil	0.8	20.9	3.4	34	<0.1	11.1	7.7	204	1.90	1.6	1.4	1.1	21	<0.1	<0.1	<0.1	58	0.24	0.044	8
PP11 JMT302	Soil	1.0	15.2	4.3	30	<0.1	12.4	7.1	111	2.00	2.2	0.8	1.4	14	<0.1	<0.1	<0.1	63	0.17	0.114	4
PP11 JMT303	Soil	1.4	15.3	4.7	32	<0.1	14.9	8.3	116	2.24	2.6	0.9	1.8	16	<0.1	<0.1	<0.1	62	0.19	0.159	4
PP11 JMT304	Soil	1.0	18.6	3.6	35	<0.1	14.6	11.1	149	2.73	3.2	<0.5	1.9	18	<0.1	0.1	<0.1	85	0.22	0.145	5
PP11 JMT305	Soil	0.6	11.6	3.9	22	0.1	7.6	5.1	81	1.66	1.9	<0.5	1.3	11	<0.1	<0.1	<0.1	48	0.14	0.078	4
PP11 JMT306	Soil	0.3	9.4	5.7	25	0.4	5.8	4.4	109	1.23	1.3	<0.5	0.6	19	<0.1	<0.1	<0.1	38	0.19	0.026	3
PP11 JMT307	Soil	1.0	13.9	5.9	46	0.4	12.6	6.4	101	2.31	5.9	0.8	1.5	12	0.1	0.1	0.1	60	0.12	0.164	4
PP11 JMT308	Soil	0.5	20.2	5.1	50	0.2	14.2	6.2	160	1.92	3.1	0.7	1.0	27	0.1	0.1	<0.1	55	0.28	0.052	5
PP11 JMT309	Soil	1.2	11.9	3.3	14	0.3	5.3	2.9	409	0.94	1.4	1.2	0.3	40	0.1	<0.1	0.1	31	0.59	0.050	10
PP11 JMT310	Soil	0.6	10.2	6.0	35	0.2	7.8	5.8	474	1.32	0.8	0.5	0.7	42	0.3	<0.1	0.1	36	0.40	0.042	6
PP11 JMT311	Soil	0.4	18.8	4.9	53	<0.1	10.5	11.0	499	2.46	2.7	1.8	3.4	48	<0.1	<0.1	<0.1	70	0.42	0.090	11
PP11 JMT312	Soil	0.3	15.2	5.5	43	<0.1	10.4	8.4	402	2.00	1.8	1.5	3.0	51	<0.1	<0.1	<0.1	58	0.41	0.083	10
PP11 JMT313	Soil	0.1	10.5	4.7	17	<0.1	7.8	3.6	172	1.05	0.5	<0.5	1.1	60	<0.1	<0.1	<0.1	28	0.32	0.034	8
PP11 JMT315	Soil	0.5	14.1	4.2	31	0.1	18.6	6.0	106	1.57	2.7	2.8	0.6	11	<0.1	<0.1	<0.1	46	0.10	0.073	3
PP11 JMT316	Soil	0.5	21.4	3.8	37	0.1	28.6	9.4	103	1.63	3.1	0.6	0.8	14	<0.1	<0.1	<0.1	47	0.10	0.068	3
PP11 JMT317	Soil	2.5	36.1	3.6	36	<0.1	44.2	13.6	323	2.07	3.5	1.4	0.9	29	<0.1	<0.1	<0.1	77	0.33	0.023	8
PP11 JMT318	Soil	0.3	15.0	2.1	25	<0.1	46.9	9.5	72	1.33	1.9	1.7	0.3	14	<0.1	<0.1	<0.1	42	0.28	0.015	1
PP11 JMT319	Soil	2.4	25.3	3.9	31	0.1	62.4	14.1	267	2.07	2.8	<0.5	0.9	19	<0.1	<0.1	<0.1	59	0.53	0.017	5
PP11 JMT320	Soil	3.7	69.3	5.8	45	0.2	48.8	9.7	486	2.61	3.1	1.4	1.5	35	0.1	<0.1	0.1	72	0.56	0.032	17
PP11 JMT321	Soil	4.2	58.6	6.0	48	0.3	47.8	10.0	509	2.64	3.6	1.1	2.2	32	0.2	<0.1	0.1	72	0.52	0.029	12
PP11 JMT322	Soil	2.6	18.9	3.9	26	<0.1	13.9	5.4	168	1.52	1.1	<0.5	1.1	45	<0.1	0.1	<0.1	50	0.57	0.042	11
PP11 JMT323	Soil	1.3	51.3	5.3	32	0.2	30.3	7.9	909	1.92	2.5	1.3	1.5	54	0.1	<0.1	<0.1	52	0.44	0.038	19
PP11 JMT324	Soil	0.4	17.4	4.1	29	0.1	13.3	6.8	250	1.53	1.0	<0.5	1.4	51	<0.1	<0.1	<0.1	47	0.39	0.038	7
PP11 JMT325	Soil	0.8	47.1	5.4	49	0.3	30.2	10.0	699	2.46	2.9	1.0	1.8	63	0.1	<0.1	<0.1	65	0.55	0.064	23
PP11 JMT326	Soil	0.4	14.1	3.7	25	<0.1	10.3	5.3	150	1.60	1.1	0.6	1.3	43	<0.1	<0.1	<0.1	49	0.39	0.025	7
PP11 JMT327	Soil	0.3	14.2	3.9	27	<0.1	10.2	5.2	91	1.62	0.7	<0.5	1.0	33	<0.1	<0.1	<0.1	42	0.28	0.059	4
PP11 JMT328	Soil	0.4	18.5	3.8	33	<0.1	12.1	5.1	160	1.71	1.1	1.0	1.3	48	<0.1	<0.1	<0.1	47	0.44	0.066	9
PP11 JMT329	Soil	0.7	19.7	4.3	25	0.1	14.9	5.9	283	1.60	1.4	1.4	1.3	58	<0.1	<0.1	<0.1	54	0.47	0.044	15

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Project: Princeton
 Report Date: November 23, 2011

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CERTIFICATE OF ANALYSIS

VAN11005421.1

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
PP11 JMT300	Soil	19	0.41	300	0.101	1	1.78	0.022	0.15	<0.1	0.04	3.2	<0.1	<0.05	5	<0.5	<0.2
PMS-91	Rock Pulp	49	0.87	47	0.097	2	1.32	0.043	0.83	3.9	0.05	8.5	0.5	1.89	5	5.8	1.0
PP11 JMT301	Soil	17	0.46	180	0.113	1	1.42	0.018	0.08	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT302	Soil	20	0.37	102	0.108	<1	1.75	0.017	0.08	<0.1	0.03	1.9	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT303	Soil	15	0.32	147	0.117	1	2.30	0.020	0.07	0.1	0.02	1.8	<0.1	<0.05	8	<0.5	<0.2
PP11 JMT304	Soil	18	0.45	124	0.105	<1	2.42	0.014	0.08	0.1	0.02	2.4	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT305	Soil	10	0.21	75	0.091	<1	1.61	0.023	0.05	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT306	Soil	8	0.24	88	0.085	<1	1.17	0.025	0.03	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT307	Soil	16	0.23	84	0.095	<1	2.29	0.015	0.04	0.1	0.02	1.9	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT308	Soil	17	0.38	197	0.101	<1	1.88	0.018	0.07	<0.1	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT309	Soil	7	0.10	142	0.046	<1	1.10	0.032	0.03	<0.1	0.05	1.0	<0.1	<0.05	4	0.5	<0.2
PP11 JMT310	Soil	12	0.26	150	0.076	<1	1.48	0.020	0.07	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT311	Soil	17	0.70	163	0.139	<1	1.49	0.020	0.31	<0.1	0.01	3.4	0.2	<0.05	5	<0.5	<0.2
PP11 JMT312	Soil	19	0.50	126	0.114	<1	1.35	0.022	0.19	<0.1	0.02	3.1	0.2	<0.05	5	<0.5	<0.2
PP11 JMT313	Soil	24	0.24	88	0.072	<1	1.20	0.029	0.07	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT315	Soil	19	0.21	122	0.090	<1	1.55	0.022	0.05	<0.1	0.02	1.7	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT316	Soil	34	0.32	176	0.101	<1	1.67	0.017	0.05	<0.1	<0.01	1.9	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT317	Soil	95	0.74	360	0.160	<1	1.84	0.028	0.15	<0.1	0.02	3.4	0.1	<0.05	6	<0.5	<0.2
PP11 JMT318	Soil	80	0.74	211	0.159	<1	1.25	0.011	0.07	<0.1	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT319	Soil	121	1.03	213	0.167	<1	2.56	0.024	0.06	<0.1	0.02	2.4	<0.1	<0.05	7	0.5	<0.2
PP11 JMT320	Soil	36	0.45	442	0.112	1	3.02	0.030	0.12	<0.1	0.03	6.1	<0.1	<0.05	8	0.6	<0.2
PP11 JMT321	Soil	38	0.51	367	0.126	<1	2.76	0.038	0.16	<0.1	0.03	6.2	0.1	<0.05	7	<0.5	<0.2
PP11 JMT322	Soil	25	0.41	188	0.085	<1	1.45	0.027	0.09	<0.1	0.02	3.6	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT323	Soil	32	0.41	144	0.069	<1	2.09	0.036	0.07	<0.1	0.02	6.3	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT324	Soil	24	0.52	102	0.081	<1	1.22	0.036	0.10	<0.1	0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT325	Soil	36	0.55	166	0.081	<1	2.49	0.037	0.08	<0.1	0.03	6.7	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT326	Soil	21	0.42	84	0.090	<1	1.23	0.026	0.09	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT327	Soil	19	0.40	132	0.084	<1	1.36	0.017	0.05	0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT328	Soil	22	0.48	95	0.086	<1	1.38	0.025	0.13	<0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT329	Soil	29	0.42	109	0.084	<1	1.54	0.027	0.11	<0.1	0.02	4.1	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	%	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	
PP11 JMT330	Soil	1.8	33.6	5.5	39	0.2	25.8	34.2	1365	3.43	4.0	0.9	2.6	75	0.2	0.1	0.1	133	0.62	0.112	22
PP11 JMT332	Soil	0.6	55.7	5.0	34	0.3	27.6	6.3	437	2.10	2.7	1.0	1.5	82	0.2	0.2	0.1	61	0.68	0.086	23
PP11 JMT333	Soil	0.2	38.0	5.6	21	0.2	22.8	5.3	171	1.27	1.6	1.0	2.3	56	<0.1	0.1	0.1	30	0.40	0.043	17
PP11 JMT334	Soil	0.3	28.7	5.9	86	0.3	40.9	9.1	130	2.14	1.7	2.6	1.9	45	0.1	0.1	0.1	49	0.23	0.154	7
PP11 JMT335	Soil	0.3	21.2	4.4	63	<0.1	29.0	7.3	200	1.97	0.9	1.1	1.5	53	<0.1	0.2	0.1	52	0.31	0.040	6
PP11 JMT336	Soil	0.3	17.6	6.9	76	0.1	48.4	6.9	150	1.88	1.2	0.9	1.9	40	0.1	<0.1	0.1	41	0.18	0.207	6
PP11 JMT337	Soil	0.4	27.7	5.5	52	<0.1	42.5	7.7	192	2.21	1.1	11.2	2.2	53	<0.1	0.2	0.1	57	0.30	0.062	14
PP11 JMT338	Soil	0.2	16.8	5.4	38	<0.1	25.9	5.3	87	1.67	0.6	<0.5	1.6	41	<0.1	<0.1	0.1	37	0.18	0.041	5
PP11 JMT339	Soil	0.2	15.1	4.5	40	<0.1	23.4	5.0	101	1.52	<0.5	0.7	1.0	27	<0.1	<0.1	0.1	38	0.16	0.041	4
PP11 JMT340	Soil	0.3	15.8	4.0	45	<0.1	23.0	5.8	275	1.61	<0.5	1.7	1.3	33	<0.1	<0.1	<0.1	42	0.20	0.027	7
PP11 JMT341	Soil	0.1	11.0	4.1	40	<0.1	17.2	4.5	104	1.40	<0.5	<0.5	0.8	24	<0.1	<0.1	<0.1	32	0.14	0.029	3
PP11 JMT342	Soil	0.3	16.7	6.1	70	0.2	17.6	6.0	103	1.88	1.6	1.0	1.5	26	<0.1	<0.1	0.2	43	0.13	0.293	4
PP11 JMT343	Soil	0.3	27.9	6.4	50	0.1	22.6	6.3	475	2.03	1.3	0.6	1.6	58	<0.1	0.1	0.1	54	0.33	0.036	12
PP11 JMT344	Soil	0.3	23.9	4.9	46	<0.1	19.0	7.1	191	2.27	1.7	<0.5	2.3	62	0.1	0.1	<0.1	68	0.34	0.029	8
PP11 JMT345	Soil	0.3	14.5	5.4	68	0.1	17.5	5.4	271	1.76	1.9	0.5	1.4	37	<0.1	<0.1	0.1	42	0.23	0.191	5
PP11 JMT346	Soil	0.3	10.2	4.6	49	<0.1	16.2	5.7	149	1.68	1.0	<0.5	1.3	26	<0.1	<0.1	<0.1	44	0.16	0.199	3
PP11 JMT347	Soil	0.3	10.7	4.1	48	<0.1	16.5	6.2	95	1.70	0.7	<0.5	0.9	33	<0.1	<0.1	<0.1	44	0.19	0.092	3
PP11 JMT348	Soil	0.5	35.8	5.1	54	<0.1	30.9	10.3	292	2.90	1.6	<0.5	2.8	74	<0.1	0.2	<0.1	90	0.54	0.058	12
PP11 JMT349	Soil	0.3	38.4	5.9	64	0.2	33.9	10.1	368	2.92	2.1	0.6	3.1	69	0.1	0.1	0.1	70	0.46	0.034	14
PP11 JMT350	Soil	0.3	17.0	4.8	49	<0.1	25.5	7.0	160	1.90	0.7	<0.5	1.8	42	<0.1	<0.1	0.1	45	0.21	0.074	6
PMS-105	Rock Pulp	129.5	3654	26.2	64	2.6	36.3	20.9	406	4.28	58.7	472.9	2.2	32	0.7	3.8	0.5	115	0.33	0.104	11
PP11 JMT351	Soil	0.4	34.0	6.2	62	0.2	30.1	7.5	167	2.33	1.3	1.4	2.5	64	0.1	0.1	0.1	64	0.36	0.046	12
PP11 JMT352	Soil	0.3	19.9	5.8	71	0.1	31.5	7.3	161	1.92	1.2	1.5	2.0	35	<0.1	<0.1	0.1	40	0.21	0.185	5
PP11 JMT353	Soil	0.6	17.2	6.7	66	<0.1	23.7	6.9	336	1.71	1.5	<0.5	1.3	37	<0.1	<0.1	0.1	39	0.22	0.109	5
PP11 JMT354	Soil	0.4	17.2	5.8	73	<0.1	23.2	7.0	439	1.79	1.3	5.3	1.5	31	<0.1	0.1	0.1	44	0.20	0.123	5
PP11 JMT355	Soil	0.4	16.3	5.3	55	<0.1	23.9	6.9	227	1.79	0.9	0.9	1.5	33	<0.1	0.1	0.1	43	0.20	0.105	5
PP11 JMT356	Soil	0.4	12.0	5.6	59	<0.1	20.9	5.9	439	1.51	<0.5	<0.5	1.1	33	<0.1	<0.1	0.1	35	0.18	0.106	4
PP11 JMT357	Soil	0.2	14.2	4.5	59	<0.1	28.0	6.4	131	1.70	0.8	<0.5	1.3	30	<0.1	<0.1	0.1	35	0.14	0.086	4
PP11 JMT358	Soil	0.4	15.5	6.4	69	<0.1	32.9	6.7	147	1.90	1.1	0.9	1.7	38	<0.1	<0.1	0.2	41	0.17	0.103	4
PP11 JMT359	Soil	0.4	11.3	5.4	75	<0.1	25.8	5.0	174	1.50	1.0	<0.5	1.5	31	<0.1	0.2	0.1	32	0.17	0.148	4

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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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	
	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	
PP11 JMT330	Soil	42	0.66	180	0.112	2	1.97	0.029	0.13	0.1	0.03	7.1	0.2	<0.05	6	0.7	<0.2
PP11 JMT332	Soil	43	0.51	153	0.090	2	2.22	0.029	0.10	<0.1	0.05	6.6	0.1	<0.05	7	1.0	<0.2
PP11 JMT333	Soil	28	0.31	209	0.097	1	1.98	0.038	0.08	<0.1	0.02	4.6	0.1	<0.05	5	<0.5	<0.2
PP11 JMT334	Soil	49	0.43	215	0.108	2	2.77	0.030	0.08	<0.1	0.02	4.7	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT335	Soil	58	0.42	130	0.108	1	1.41	0.036	0.11	<0.1	0.02	4.3	0.1	<0.05	4	<0.5	<0.2
PP11 JMT336	Soil	36	0.30	237	0.122	1	2.79	0.027	0.09	<0.1	0.02	3.4	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT337	Soil	64	0.55	147	0.107	1	1.82	0.027	0.12	<0.1	0.02	5.4	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT338	Soil	45	0.31	181	0.109	<1	1.85	0.027	0.07	<0.1	<0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT339	Soil	45	0.25	108	0.095	1	1.38	0.024	0.07	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT340	Soil	53	0.26	83	0.094	1	1.08	0.026	0.08	<0.1	0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
PP11 JMT341	Soil	33	0.23	101	0.089	<1	1.28	0.024	0.09	<0.1	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT342	Soil	21	0.26	122	0.104	<1	2.47	0.021	0.05	<0.1	0.02	3.3	<0.1	<0.05	8	<0.5	<0.2
PP11 JMT343	Soil	27	0.45	131	0.104	<1	2.22	0.035	0.07	<0.1	0.02	5.6	<0.1	<0.05	6	0.5	<0.2
PP11 JMT344	Soil	34	0.62	154	0.148	1	1.78	0.036	0.18	<0.1	<0.01	5.3	0.1	<0.05	5	<0.5	<0.2
PP11 JMT345	Soil	20	0.24	186	0.101	<1	2.36	0.024	0.06	<0.1	0.03	2.8	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT346	Soil	23	0.25	98	0.099	2	1.98	0.024	0.05	<0.1	0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT347	Soil	25	0.29	89	0.088	1	1.78	0.030	0.04	<0.1	0.01	2.7	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT348	Soil	47	1.03	99	0.115	1	1.91	0.046	0.14	<0.1	0.02	8.4	0.1	<0.05	6	<0.5	<0.2
PP11 JMT349	Soil	54	0.75	153	0.131	2	2.84	0.036	0.17	<0.1	0.02	9.4	0.1	<0.05	7	<0.5	<0.2
PP11 JMT350	Soil	46	0.40	149	0.103	<1	2.15	0.024	0.12	<0.1	0.01	3.3	<0.1	<0.05	6	<0.5	<0.2
PMS-105	Rock Pulp	53	0.92	47	0.121	2	1.46	0.043	0.93	4.1	0.07	11.0	0.6	2.03	6	6.4	0.8
PP11 JMT351	Soil	50	0.63	193	0.134	1	2.48	0.036	0.15	<0.1	0.02	6.0	0.1	<0.05	7	<0.5	<0.2
PP11 JMT352	Soil	37	0.33	221	0.111	1	2.84	0.025	0.09	<0.1	0.02	3.4	<0.1	<0.05	7	<0.5	<0.2
PP11 JMT353	Soil	29	0.35	149	0.109	1	2.02	0.019	0.08	<0.1	0.04	2.4	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT354	Soil	32	0.31	162	0.110	<1	2.15	0.023	0.10	<0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT355	Soil	34	0.31	157	0.111	1	1.95	0.024	0.11	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT356	Soil	36	0.23	157	0.098	1	1.80	0.028	0.09	<0.1	0.03	2.2	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT357	Soil	45	0.25	168	0.100	<1	2.08	0.028	0.07	<0.1	0.01	2.3	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT358	Soil	36	0.29	232	0.123	2	2.76	0.026	0.09	<0.1	0.01	2.7	<0.1	<0.05	8	<0.5	<0.2
PP11 JMT359	Soil	25	0.21	188	0.113	1	2.02	0.028	0.11	<0.1	0.02	2.2	<0.1	<0.05	6	<0.5	<0.2



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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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
PP11 JMT360	Soil	0.3	13.0	5.5	51	<0.1	20.4	5.3	161	1.58	0.5	1.0	1.1	36	<0.1	<0.1	0.1	36	0.18	0.046	4
PP11 JMT361	Soil	0.3	6.3	4.1	70	<0.1	15.1	3.9	185	1.27	<0.5	0.8	0.7	26	0.1	<0.1	<0.1	30	0.17	0.102	3
PP11 JMT362	Soil	0.3	26.1	5.6	49	0.1	29.8	7.4	220	1.93	1.0	2.2	2.6	63	<0.1	0.2	0.1	47	0.40	0.025	15
PP11 JMT363	Soil	0.3	28.0	5.7	51	0.1	31.6	7.9	255	2.04	1.2	1.6	2.6	66	<0.1	0.2	0.1	50	0.44	0.027	17
PP11 JMT364	Soil	0.3	16.5	5.8	44	<0.1	23.1	6.3	214	1.75	0.6	<0.5	1.9	41	<0.1	0.1	0.1	43	0.26	0.022	8
PP11 JMT365	Soil	0.3	11.8	3.8	36	<0.1	17.6	4.9	144	1.56	0.8	2.2	1.0	37	<0.1	<0.1	<0.1	43	0.22	0.020	4
PP11 JMT366	Soil	0.3	12.0	4.0	27	<0.1	17.3	4.4	108	1.40	0.7	1.1	1.0	30	<0.1	0.1	<0.1	37	0.18	0.023	4
PP11 JMT367	Soil	0.3	24.6	4.2	36	<0.1	23.0	6.5	142	1.78	1.3	11.4	1.4	43	<0.1	0.1	<0.1	54	0.29	0.057	8
PP11 JMT368	Soil	0.3	16.2	4.8	82	<0.1	33.7	6.5	230	1.69	1.2	1.1	1.3	19	<0.1	<0.1	<0.1	34	0.13	0.166	4
PP11 JMT369	Soil	0.4	12.8	4.3	48	<0.1	24.0	5.6	214	1.66	0.9	3.2	1.0	21	<0.1	<0.1	<0.1	37	0.14	0.141	4
PP11 JMT370	Soil	0.3	15.8	2.5	26	<0.1	22.6	5.4	147	1.55	0.7	1.3	0.9	28	<0.1	<0.1	<0.1	43	0.19	0.018	4
PP11 JMT371	Soil	0.2	17.2	3.3	28	0.1	19.8	4.6	244	1.22	0.7	2.5	1.0	33	<0.1	<0.1	<0.1	31	0.22	0.015	7
PP11 JMT372	Soil	0.3	16.0	3.8	31	<0.1	24.5	4.9	145	1.32	0.8	<0.5	0.8	29	<0.1	<0.1	<0.1	37	0.18	0.024	7
PP11 JMT373	Soil	0.2	13.1	2.7	24	<0.1	18.5	3.9	127	1.26	0.6	4.7	0.8	28	<0.1	<0.1	<0.1	36	0.18	0.011	7
PP11 JMT374	Soil	0.3	14.1	3.8	37	<0.1	23.1	6.1	135	1.64	0.7	1.2	1.3	28	<0.1	0.1	<0.1	41	0.17	0.060	6
PP11 JMT375	Soil	0.2	19.1	3.3	32	0.1	28.8	6.6	125	1.73	0.8	0.8	1.1	37	<0.1	0.1	<0.1	44	0.22	0.020	8
PP11 JMT376	Soil	0.3	9.9	3.7	44	<0.1	23.2	5.1	122	1.35	0.6	1.3	1.0	17	<0.1	<0.1	<0.1	34	0.10	0.093	3
PP11 JMT377	Soil	0.3	9.6	2.9	28	<0.1	16.2	4.6	187	1.28	<0.5	<0.5	0.8	20	<0.1	<0.1	<0.1	33	0.15	0.037	4



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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	
PP11 JMT360	Soil	34	0.27	158	0.112	<1	1.90	0.027	0.09	<0.1	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT361	Soil	18	0.15	108	0.087	1	1.25	0.023	0.08	<0.1	0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT362	Soil	48	0.38	132	0.106	2	1.53	0.036	0.15	<0.1	0.02	5.8	0.1	<0.05	5	<0.5	<0.2
PP11 JMT363	Soil	52	0.40	142	0.115	2	1.68	0.039	0.15	<0.1	0.02	6.1	0.1	<0.05	5	<0.5	<0.2
PP11 JMT364	Soil	44	0.30	125	0.120	1	1.60	0.029	0.11	<0.1	<0.01	3.7	0.1	<0.05	5	<0.5	<0.2
PP11 JMT365	Soil	33	0.27	106	0.107	<1	1.16	0.033	0.12	<0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT366	Soil	31	0.27	105	0.068	<1	1.06	0.024	0.07	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT367	Soil	44	0.57	111	0.083	<1	1.29	0.023	0.09	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT368	Soil	32	0.26	172	0.068	<1	2.36	0.016	0.05	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT369	Soil	27	0.19	120	0.068	<1	1.89	0.020	0.04	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT370	Soil	41	0.37	72	0.065	<1	0.94	0.024	0.05	<0.1	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
PP11 JMT371	Soil	36	0.33	83	0.071	<1	1.03	0.025	0.05	<0.1	0.02	2.6	<0.1	<0.05	3	<0.5	<0.2
PP11 JMT372	Soil	40	0.32	78	0.055	<1	1.01	0.017	0.05	<0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
PP11 JMT373	Soil	40	0.27	70	0.067	<1	0.84	0.020	0.04	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
PP11 JMT374	Soil	42	0.31	111	0.074	1	1.38	0.017	0.07	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT375	Soil	53	0.40	102	0.067	<1	1.25	0.020	0.06	<0.1	<0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT376	Soil	30	0.20	113	0.062	<1	1.58	0.016	0.04	<0.1	0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT377	Soil	31	0.26	85	0.053	<1	1.05	0.014	0.05	<0.1	0.01	1.3	<0.1	<0.05	3	<0.5	<0.2



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QUALITY CONTROL REPORT

VAN11005421.1

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																					
PP11 JMT164	Soil	0.4	9.3	3.3	36	<0.1	12.7	5.0	192	1.32	<0.5	<0.5	0.9	23	<0.1	<0.1	<0.1	38	0.12	0.043	2
REP PP11 JMT164	QC	0.4	8.5	3.2	35	<0.1	12.1	4.7	194	1.26	<0.5	1.7	0.8	22	<0.1	<0.1	<0.1	38	0.12	0.040	2
PP11 JMT180	Soil	0.2	7.9	3.7	27	<0.1	10.7	2.9	95	0.88	0.8	<0.5	0.5	15	<0.1	<0.1	<0.1	24	0.11	0.026	3
REP PP11 JMT180	QC	0.2	8.1	5.4	27	<0.1	11.0	3.1	106	0.91	1.0	1.3	0.5	16	0.1	<0.1	<0.1	25	0.12	0.027	3
PP11 JMT189	Soil	0.1	8.1	3.8	28	<0.1	14.9	4.0	298	1.09	0.8	0.8	0.8	21	<0.1	<0.1	<0.1	29	0.10	0.018	5
REP PP11 JMT189	QC	0.2	8.4	4.2	30	<0.1	15.5	3.7	316	1.09	0.8	2.7	0.7	22	<0.1	<0.1	<0.1	28	0.10	0.018	5
PP11 JMT220	Soil	0.4	12.0	2.9	45	<0.1	18.1	5.9	279	1.79	0.6	<0.5	1.0	41	<0.1	<0.1	<0.1	50	0.23	0.035	3
REP PP11 JMT220	QC	0.3	12.0	3.1	41	<0.1	19.2	6.4	276	1.77	0.8	<0.5	1.0	41	<0.1	<0.1	<0.1	50	0.23	0.036	3
PP11 JMT225	Soil	0.3	11.7	4.3	54	0.1	19.3	6.1	182	1.59	0.7	<0.5	1.2	26	<0.1	<0.1	<0.1	40	0.15	0.117	3
REP PP11 JMT225	QC	0.3	11.5	4.3	58	0.1	19.3	6.3	177	1.63	1.0	0.7	1.1	26	<0.1	<0.1	<0.1	39	0.16	0.124	3
PP11 JMT241	Soil	0.4	21.4	5.1	45	0.1	19.1	5.4	152	1.78	2.4	5.2	1.6	42	<0.1	0.3	<0.1	57	0.30	0.016	9
REP PP11 JMT241	QC	0.3	22.9	5.3	48	0.1	19.7	5.6	161	1.84	2.6	3.4	1.7	44	<0.1	0.2	0.1	58	0.32	0.015	9
PP11 JMT262	Soil	0.6	12.9	5.8	40	<0.1	13.5	7.1	99	2.14	1.6	<0.5	3.0	27	<0.1	<0.1	0.1	51	0.15	0.186	4
REP PP11 JMT262	QC	0.6	12.6	5.6	39	<0.1	13.6	6.9	99	2.12	1.8	0.8	2.7	27	<0.1	<0.1	0.1	51	0.15	0.188	4
PP11 JMT280	Soil	0.2	17.9	6.0	22	<0.1	10.4	5.4	276	1.29	1.1	<0.5	1.8	73	<0.1	<0.1	0.1	37	0.39	0.040	13
REP PP11 JMT280	QC	0.2	17.6	5.9	21	<0.1	10.0	5.3	278	1.28	0.9	1.3	1.8	75	<0.1	<0.1	0.1	36	0.39	0.039	13
PP11 JMT309	Soil	1.2	11.9	3.3	14	0.3	5.3	2.9	409	0.94	1.4	1.2	0.3	40	0.1	<0.1	0.1	31	0.59	0.050	10
REP PP11 JMT309	QC	1.2	11.9	3.4	12	0.3	5.7	2.8	403	0.89	1.3	0.7	0.3	38	0.2	<0.1	<0.1	30	0.58	0.049	10
PP11 JMT317	Soil	2.5	36.1	3.6	36	<0.1	44.2	13.6	323	2.07	3.5	1.4	0.9	29	<0.1	<0.1	<0.1	77	0.33	0.023	8
REP PP11 JMT317	QC	2.3	36.2	3.5	33	<0.1	45.8	13.6	302	2.09	3.6	0.6	1.0	28	<0.1	<0.1	<0.1	75	0.32	0.025	8
PP11 JMT342	Soil	0.3	16.7	6.1	70	0.2	17.6	6.0	103	1.88	1.6	1.0	1.5	26	<0.1	<0.1	0.2	43	0.13	0.293	4
REP PP11 JMT342	QC	0.3	16.7	6.6	70	0.2	17.3	5.9	98	1.85	1.8	<0.5	1.5	25	<0.1	<0.1	0.1	42	0.14	0.290	4
PP11 JMT365	Soil	0.3	11.8	3.8	36	<0.1	17.6	4.9	144	1.56	0.8	2.2	1.0	37	<0.1	<0.1	<0.1	43	0.22	0.020	4
REP PP11 JMT365	QC	0.3	11.6	3.7	35	<0.1	17.5	4.9	147	1.56	0.5	5.7	1.0	37	<0.1	0.1	<0.1	43	0.22	0.020	4
PP11 JMT376	Soil	0.3	9.9	3.7	44	<0.1	23.2	5.1	122	1.35	0.6	1.3	1.0	17	<0.1	<0.1	<0.1	34	0.10	0.093	3
REP PP11 JMT376	QC	0.3	10.1	3.7	43	<0.1	22.7	5.2	120	1.36	0.6	0.7	1.0	18	<0.1	<0.1	<0.1	35	0.10	0.099	4
Reference Materials																					
STD DS8	Standard	13.0	98.4	116.2	295	1.8	34.8	7.2	583	2.29	25.0	143.3	6.4	64	2.2	5.2	6.3	41	0.67	0.079	15



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Project: Princeton
 Report Date: November 23, 2011

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QUALITY CONTROL REPORT

VAN11005421.1

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																	
PP11 JMT164	Soil	18	0.21	100	0.077	1	1.52	0.018	0.07	<0.1	<0.01	1.7	<0.1	0.06	4	<0.5	<0.2
REP PP11 JMT164	QC	18	0.21	97	0.073	<1	1.39	0.016	0.07	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT180	Soil	10	0.11	81	0.054	<1	0.91	0.015	0.03	<0.1	0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
REP PP11 JMT180	QC	11	0.11	89	0.058	<1	0.95	0.017	0.03	<0.1	<0.01	1.0	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT189	Soil	19	0.17	59	0.072	<1	1.23	0.025	0.04	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
REP PP11 JMT189	QC	19	0.17	63	0.073	1	1.27	0.026	0.04	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT220	Soil	25	0.35	100	0.095	1	1.56	0.030	0.06	<0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
REP PP11 JMT220	QC	25	0.34	99	0.094	<1	1.60	0.033	0.06	<0.1	0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT225	Soil	22	0.28	127	0.077	<1	1.80	0.024	0.08	<0.1	0.01	2.4	<0.1	<0.05	5	<0.5	<0.2
REP PP11 JMT225	QC	22	0.29	127	0.077	<1	1.82	0.024	0.08	<0.1	<0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
PP11 JMT241	Soil	32	0.42	132	0.115	<1	1.48	0.032	0.10	<0.1	0.01	4.0	0.1	<0.05	4	<0.5	<0.2
REP PP11 JMT241	QC	34	0.41	135	0.116	<1	1.53	0.034	0.10	<0.1	0.02	4.1	0.1	<0.05	5	<0.5	<0.2
PP11 JMT262	Soil	13	0.25	123	0.140	1	2.62	0.019	0.07	<0.1	0.02	2.2	<0.1	<0.05	8	<0.5	<0.2
REP PP11 JMT262	QC	13	0.24	123	0.139	1	2.56	0.021	0.07	<0.1	0.03	2.2	<0.1	<0.05	8	<0.5	<0.2
PP11 JMT280	Soil	36	0.33	117	0.101	<1	1.48	0.037	0.09	<0.1	0.02	4.9	<0.1	<0.05	4	<0.5	<0.2
REP PP11 JMT280	QC	36	0.33	116	0.102	<1	1.44	0.039	0.09	<0.1	0.03	5.1	0.1	<0.05	4	<0.5	<0.2
PP11 JMT309	Soil	7	0.10	142	0.046	<1	1.10	0.032	0.03	<0.1	0.05	1.0	<0.1	<0.05	4	0.5	<0.2
REP PP11 JMT309	QC	6	0.10	140	0.042	<1	1.06	0.032	0.03	<0.1	0.04	0.9	<0.1	<0.05	4	0.6	<0.2
PP11 JMT317	Soil	95	0.74	360	0.160	<1	1.84	0.028	0.15	<0.1	0.02	3.4	0.1	<0.05	6	<0.5	<0.2
REP PP11 JMT317	QC	93	0.78	365	0.160	<1	1.83	0.029	0.15	<0.1	0.02	3.2	<0.1	<0.05	6	<0.5	<0.2
PP11 JMT342	Soil	21	0.26	122	0.104	<1	2.47	0.021	0.05	<0.1	0.02	3.3	<0.1	<0.05	8	<0.5	<0.2
REP PP11 JMT342	QC	21	0.25	123	0.103	1	2.40	0.020	0.05	0.1	0.02	3.2	<0.1	<0.05	8	<0.5	<0.2
PP11 JMT365	Soil	33	0.27	106	0.107	<1	1.16	0.033	0.12	<0.1	0.01	2.4	<0.1	<0.05	4	<0.5	<0.2
REP PP11 JMT365	QC	34	0.27	104	0.105	1	1.15	0.032	0.13	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PP11 JMT376	Soil	30	0.20	113	0.062	<1	1.58	0.016	0.04	<0.1	0.01	1.6	<0.1	<0.05	5	<0.5	<0.2
REP PP11 JMT376	QC	31	0.22	111	0.063	<1	1.57	0.017	0.05	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	110	0.58	278	0.120	1	0.88	0.091	0.40	3.0	0.19	2.5	5.1	0.19	5	4.8	4.8

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 23, 2011

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QUALITY CONTROL REPORT

VAN11005421.1

		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	12.7	113.3	128.2	319	1.8	38.8	7.4	626	2.49	25.4	132.5	6.4	68	2.4	6.0	6.8	42	0.69	0.081	14
STD DS8	Standard	12.7	102.4	123.8	278	1.8	35.0	6.9	588	2.40	22.8	99.0	7.3	77	2.2	5.8	6.8	41	0.70	0.074	17
STD DS8	Standard	13.5	115.5	126.9	311	1.9	38.4	7.5	614	2.43	26.4	111.5	7.7	70	2.6	6.1	7.4	43	0.73	0.087	19
STD DS8	Standard	13.7	118.0	127.5	318	1.8	38.2	7.7	624	2.46	28.1	109.5	7.9	69	2.5	6.2	7.1	44	0.74	0.092	18
STD DS8	Standard	13.1	103.3	115.8	305	1.7	35.6	7.2	598	2.58	24.6	104.9	6.0	58	2.1	4.5	6.2	41	0.69	0.074	14
STD DS8	Standard	12.8	101.9	117.8	293	1.7	36.2	7.4	588	2.30	23.9	102.7	6.0	62	2.4	4.9	6.1	42	0.67	0.077	15
STD DS8	Standard	12.4	101.7	114.2	280	1.6	34.9	6.9	523	2.20	23.9	102.3	6.4	66	2.3	5.6	5.0	42	0.69	0.067	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
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 23, 2011

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QUALITY CONTROL REPORT

VAN11005421.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	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	115	0.63	275	0.111	3	0.94	0.111	0.44	2.9	0.20	2.7	5.5	0.16	5	4.8	5.3
STD DS8	Standard	112	0.59	276	0.126	3	0.95	0.115	0.41	3.0	0.18	2.9	5.2	0.15	5	5.2	4.6
STD DS8	Standard	116	0.61	288	0.138	2	0.94	0.099	0.42	3.0	0.19	2.8	5.6	0.16	5	5.4	5.3
STD DS8	Standard	119	0.62	288	0.142	2	0.98	0.093	0.41	3.1	0.20	2.8	5.6	0.12	5	5.1	5.1
STD DS8	Standard	113	0.51	273	0.108	3	0.95	0.108	0.44	2.9	0.19	2.7	5.4	0.19	5	5.5	5.2
STD DS8	Standard	113	0.57	275	0.106	2	0.93	0.101	0.39	2.8	0.19	2.3	4.9	0.16	5	4.9	4.1
STD DS8	Standard	111	0.57	250	0.114	4	0.85	0.091	0.39	2.5	0.16	2.0	5.0	0.19	4	4.3	4.7
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 03, 2011

Report Date: October 22, 2011

Page: 1 of 10

CERTIFICATE OF ANALYSIS

VAN11005422.1

CLIENT JOB INFORMATION

Project: Princeton
Shipment ID:
P.O. Number
Number of Samples: 244

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	244	Dry at 60C			VAN
SS80	240	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	244	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: October 22, 2011

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CERTIFICATE OF ANALYSIS

VAN11005422.1

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	
PP11 RP151	Soil		0.3	9.0	4.7	41	<0.1	14.0	5.2	155	1.49	<0.5	0.7	1.0	29	<0.1	<0.1	0.1	41	0.17	0.047	2
PP11 RP152	Soil		0.3	8.1	3.6	42	<0.1	11.3	4.6	202	1.60	<0.5	<0.5	1.0	33	<0.1	<0.1	<0.1	46	0.17	0.014	3
PP11 RP153	Soil		0.4	16.3	5.2	50	<0.1	21.0	8.6	688	2.00	<0.5	<0.5	1.6	48	<0.1	<0.1	<0.1	57	0.27	0.022	6
PP11 RP154	Soil		0.3	24.3	5.0	59	<0.1	28.9	10.8	634	2.43	<0.5	<0.5	2.1	52	<0.1	0.1	0.1	72	0.37	0.041	11
PP11 RP155	Soil		0.3	24.2	3.7	53	<0.1	26.6	9.9	339	2.40	<0.5	<0.5	2.5	58	<0.1	<0.1	0.2	69	0.40	0.030	14
PP11 RP156	Soil		0.3	18.8	6.4	47	<0.1	26.1	10.7	677	2.20	<0.5	<0.5	2.2	59	<0.1	<0.1	0.2	70	0.33	0.026	10
PP11 RP157	Soil		0.2	10.4	3.0	31	<0.1	13.2	5.3	187	1.68	<0.5	<0.5	1.3	52	<0.1	<0.1	0.1	48	0.36	0.029	4
PP11 RP158	Soil		0.3	25.4	5.2	74	<0.1	21.9	11.2	1120	2.33	0.7	<0.5	2.2	105	0.2	<0.1	0.4	66	0.66	0.056	15
PP11 RP159	Soil		0.2	8.5	2.4	37	<0.1	8.5	4.2	204	1.44	<0.5	<0.5	1.1	40	<0.1	<0.1	0.2	35	0.29	0.027	4
PP11 RP160	Soil		0.2	11.4	3.4	43	<0.1	16.6	5.9	313	1.77	<0.5	<0.5	1.6	48	<0.1	<0.1	0.1	46	0.29	0.019	5
PP11 RP161	Soil		0.3	24.4	3.9	43	<0.1	45.1	11.3	214	2.74	0.8	<0.5	2.8	82	<0.1	<0.1	<0.1	68	0.42	0.040	15
PP11 RP162	Soil		0.4	12.9	4.3	40	<0.1	14.5	7.3	357	1.82	<0.5	<0.5	1.8	39	<0.1	<0.1	<0.1	52	0.24	0.025	8
PP11 RP163	Soil		0.2	26.4	3.9	33	<0.1	23.1	5.6	488	1.76	0.8	0.8	2.2	61	<0.1	<0.1	0.1	38	0.39	0.030	20
PP11 RP164	Soil		0.3	8.2	4.1	34	<0.1	9.2	4.1	411	1.32	<0.5	<0.5	0.7	30	<0.1	<0.1	<0.1	35	0.17	0.024	2
PP11 RP165	Soil		0.3	4.2	3.5	37	<0.1	7.3	2.8	205	1.03	<0.5	<0.5	0.4	24	<0.1	<0.1	<0.1	21	0.16	0.087	1
PP11 RP166	Soil		0.1	7.2	3.9	25	<0.1	8.8	2.9	49	1.00	<0.5	2.2	0.4	20	<0.1	<0.1	<0.1	24	0.12	0.022	2
PP11 RP167	Soil		0.5	11.6	4.9	55	<0.1	15.9	5.0	241	1.29	1.0	<0.5	1.3	20	<0.1	<0.1	<0.1	29	0.12	0.179	3
PP11 RP168	Soil		0.4	10.8	4.8	55	<0.1	20.8	4.9	211	1.30	0.9	<0.5	1.4	22	<0.1	<0.1	<0.1	28	0.13	0.165	4
PP11 RP169	Soil		0.3	10.9	4.9	42	<0.1	21.2	5.1	131	1.34	0.9	<0.5	1.2	19	<0.1	<0.1	<0.1	30	0.13	0.128	3
PP11 RP170	Soil		0.2	12.8	4.4	36	<0.1	16.8	4.2	108	1.28	0.9	<0.5	0.8	29	<0.1	<0.1	<0.1	29	0.17	0.050	4
PP11 RP171	Soil		0.6	9.5	5.8	39	<0.1	20.8	4.8	147	1.44	1.4	<0.5	1.1	18	<0.1	<0.1	0.1	32	0.10	0.112	3
PP11 RP172	Soil		0.5	8.4	5.6	41	<0.1	17.7	4.6	178	1.41	1.8	<0.5	1.4	14	<0.1	<0.1	0.1	32	0.08	0.100	3
PP11 RP173	Soil		0.3	15.7	5.3	33	<0.1	22.1	5.0	135	1.53	1.3	4.8	1.2	31	<0.1	0.1	<0.1	39	0.19	0.019	5
PP11 RP174	Soil		0.6	9.8	5.3	50	0.1	18.8	5.1	293	1.37	1.3	182.8	1.3	18	<0.1	0.1	<0.1	33	0.13	0.100	4
PP11 RP175	Soil		0.5	12.7	6.5	50	0.2	19.2	5.4	271	1.53	2.0	99.5	1.4	12	<0.1	0.2	0.1	35	0.11	0.129	3
PP11 RP176	Soil		0.6	16.2	5.8	69	<0.1	26.1	7.8	625	2.02	2.3	<0.5	1.7	16	<0.1	0.2	<0.1	48	0.13	0.092	5
PP11 RP177	Soil		0.8	17.8	5.7	52	<0.1	26.4	6.8	222	1.72	1.9	1.0	1.2	26	<0.1	0.2	<0.1	42	0.19	0.098	4
PP11 RP178	Soil		0.2	20.0	4.7	29	0.1	19.0	4.6	211	1.44	1.2	1.4	1.1	33	<0.1	0.1	<0.1	37	0.24	0.017	8
PP11 RP179	Soil		0.4	10.3	4.3	52	<0.1	15.7	4.0	102	1.25	1.4	4.6	0.8	22	<0.1	0.2	<0.1	34	0.17	0.014	4
PP11 RP180	Soil		1.6	23.1	6.2	79	<0.1	30.3	7.1	168	2.27	6.4	1.5	2.1	28	<0.1	1.0	<0.1	65	0.21	0.039	8

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: October 22, 2011

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CERTIFICATE OF ANALYSIS

VAN11005422.1

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
PP11 RP151	Soil	21	0.23	124	0.094	1	1.64	0.024	0.07	<0.1	0.01	1.7	<0.1	<0.05	5	<0.5	<0.2
PP11 RP152	Soil	21	0.22	93	0.093	2	1.27	0.021	0.07	<0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
PP11 RP153	Soil	36	0.43	91	0.089	<1	1.51	0.024	0.10	<0.1	0.02	4.6	<0.1	<0.05	4	<0.5	<0.2
PP11 RP154	Soil	77	0.72	80	0.070	1	1.42	0.033	0.09	<0.1	0.03	6.6	<0.1	<0.05	4	<0.5	<0.2
PP11 RP155	Soil	63	0.80	58	0.063	1	1.24	0.038	0.07	<0.1	0.02	6.4	<0.1	<0.05	4	<0.5	<0.2
PP11 RP156	Soil	45	0.48	87	0.088	<1	1.61	0.027	0.06	<0.1	0.02	5.6	<0.1	<0.05	5	<0.5	<0.2
PP11 RP157	Soil	33	0.33	72	0.074	2	0.98	0.029	0.08	<0.1	0.02	3.3	<0.1	<0.05	3	<0.5	<0.2
PP11 RP158	Soil	50	0.72	157	0.051	3	1.77	0.025	0.14	<0.1	0.05	7.0	<0.1	<0.05	4	<0.5	<0.2
PP11 RP159	Soil	24	0.29	83	0.051	2	0.96	0.023	0.08	<0.1	0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
PP11 RP160	Soil	29	0.30	95	0.082	2	1.35	0.030	0.07	<0.1	0.01	3.5	<0.1	<0.05	4	<0.5	<0.2
PP11 RP161	Soil	57	0.82	93	0.086	2	2.18	0.030	0.15	<0.1	0.02	9.6	<0.1	<0.05	5	<0.5	<0.2
PP11 RP162	Soil	26	0.41	60	0.077	<1	1.13	0.031	0.08	<0.1	0.02	5.6	<0.1	<0.05	3	<0.5	<0.2
PP11 RP163	Soil	30	0.39	66	0.065	2	1.97	0.016	0.08	<0.1	0.03	8.2	<0.1	<0.05	5	<0.5	<0.2
PP11 RP164	Soil	14	0.22	64	0.067	<1	1.16	0.023	0.05	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PP11 RP165	Soil	9	0.12	91	0.058	2	1.18	0.016	0.06	<0.1	0.02	0.9	<0.1	<0.05	4	<0.5	<0.2
PP11 RP166	Soil	12	0.16	49	0.061	<1	1.15	0.021	0.03	<0.1	<0.01	1.1	<0.1	<0.05	4	<0.5	<0.2
PP11 RP167	Soil	13	0.16	107	0.082	1	1.76	0.017	0.04	<0.1	0.03	1.6	<0.1	<0.05	5	<0.5	<0.2
PP11 RP168	Soil	14	0.15	119	0.087	1	1.95	0.021	0.05	<0.1	0.03	1.7	<0.1	<0.05	5	<0.5	<0.2
PP11 RP169	Soil	15	0.15	99	0.082	1	1.86	0.020	0.05	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
PP11 RP170	Soil	18	0.19	86	0.070	<1	1.61	0.023	0.05	<0.1	0.02	2.0	<0.1	<0.05	5	<0.5	<0.2
PP11 RP171	Soil	17	0.17	99	0.088	1	2.06	0.015	0.03	0.1	0.03	1.2	<0.1	<0.05	6	<0.5	<0.2
PP11 RP172	Soil	15	0.13	93	0.096	1	2.26	0.019	0.03	0.1	0.03	1.4	<0.1	<0.05	6	<0.5	<0.2
PP11 RP173	Soil	29	0.31	100	0.089	<1	1.79	0.021	0.05	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
PP11 RP174	Soil	17	0.18	96	0.084	2	1.86	0.018	0.06	0.1	0.03	1.6	<0.1	<0.05	6	<0.5	<0.2
PP11 RP175	Soil	19	0.20	83	0.089	2	2.18	0.017	0.05	<0.1	0.04	1.6	<0.1	<0.05	6	<0.5	<0.2
PP11 RP176	Soil	29	0.37	153	0.102	<1	2.29	0.015	0.13	0.1	0.02	3.1	<0.1	<0.05	7	<0.5	<0.2
PP11 RP177	Soil	25	0.30	114	0.077	<1	1.84	0.014	0.07	<0.1	0.03	2.4	<0.1	<0.05	5	<0.5	<0.2
PP11 RP178	Soil	21	0.26	89	0.072	<1	1.39	0.029	0.04	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
PP11 RP179	Soil	21	0.29	107	0.073	<1	1.19	0.022	0.07	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PP11 RP180	Soil	29	0.45	139	0.084	<1	1.64	0.015	0.16	<0.1	<0.01	3.5	<0.1	<0.05	5	<0.5	<0.2



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Project: Princeton
 Report Date: October 22, 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
PP11 RP181	Soil	2.2	21.8	6.9	141	0.2	44.1	7.9	377	2.21	5.9	8.3	1.4	20	0.4	0.8	<0.1	85	0.18	0.086	5
PP11 RP182	Soil	0.4	10.1	4.2	45	1.2	17.4	4.3	122	1.18	1.2	0.5	1.2	26	0.2	<0.1	0.1	27	0.20	0.215	4
PP11 RP183	Soil	0.4	12.0	4.6	28	<0.1	24.7	5.7	127	1.45	1.3	<0.5	1.2	20	0.1	<0.1	<0.1	33	0.15	0.084	3
PP11 RP184	Soil	1.0	11.8	5.0	49	0.6	20.3	7.7	184	2.18	1.5	8.7	0.9	24	<0.1	0.2	<0.1	50	0.17	0.082	3
PP11 RP185	Soil	0.4	9.9	4.3	35	0.1	26.5	6.2	171	1.42	1.3	<0.5	1.0	16	<0.1	<0.1	<0.1	32	0.14	0.106	3
PP11 RP186	Soil	0.4	7.5	5.3	35	<0.1	25.9	6.2	75	1.67	0.9	<0.5	1.0	17	<0.1	<0.1	<0.1	36	0.10	0.103	3
PP11 RP187	Soil	0.4	11.9	5.0	42	<0.1	23.0	5.2	118	1.54	0.9	0.7	0.8	25	<0.1	<0.1	<0.1	34	0.15	0.083	4
PP11 RP188	Soil	0.5	15.1	6.3	41	<0.1	41.5	7.2	320	1.73	0.8	<0.5	1.0	35	<0.1	<0.1	0.1	36	0.21	0.082	3
PP11 RP189	Soil	0.2	41.8	7.6	40	<0.1	141.6	19.0	222	3.52	0.7	<0.5	2.7	101	<0.1	<0.1	0.1	64	0.53	0.031	5
PP11 RP190	Soil	0.5	10.2	5.6	48	<0.1	24.0	5.4	223	1.63	1.8	1.3	1.2	15	<0.1	<0.1	0.1	35	0.11	0.185	3
PP11 RP191	Soil	0.1	8.9	4.6	35	<0.1	18.6	4.3	134	1.22	0.6	0.7	0.6	25	<0.1	<0.1	<0.1	29	0.17	0.019	3
PP11 RP192	Soil	0.3	6.3	4.3	29	<0.1	12.9	3.3	93	1.02	0.6	<0.5	0.4	15	<0.1	<0.1	<0.1	24	0.09	0.047	2
PP11 RP193	Soil	0.3	11.5	3.8	34	<0.1	20.0	5.4	203	1.45	1.3	15.7	0.9	21	<0.1	<0.1	<0.1	33	0.16	0.147	4
PP11 RP194	Soil	0.1	14.6	5.7	30	<0.1	20.5	10.7	343	1.40	<0.5	0.5	1.3	111	<0.1	<0.1	0.1	39	0.32	0.022	7
PP11 RP195	Soil	<0.1	13.0	6.2	25	<0.1	13.2	4.7	101	1.27	<0.5	0.6	1.3	88	0.1	<0.1	0.1	30	0.31	0.020	5
PP11 RP196	Soil	0.2	10.9	7.2	32	<0.1	14.3	6.8	138	2.00	<0.5	1.2	2.3	58	<0.1	<0.1	0.1	50	0.28	0.052	6
PP11 RP197	Soil	0.1	10.7	5.1	35	<0.1	12.2	6.7	295	1.82	<0.5	1.3	2.1	67	<0.1	<0.1	<0.1	51	0.29	0.021	6
PP11 RP198	Soil	0.7	9.8	5.3	46	0.1	11.4	7.1	195	2.13	1.5	<0.5	3.0	13	<0.1	<0.1	0.1	52	0.10	0.171	3
PP11 RP199	Soil	0.6	16.7	5.2	48	0.5	12.9	10.0	209	2.91	1.3	0.8	5.3	25	<0.1	0.3	0.2	76	0.22	0.121	6
PP11 RP200	Soil	0.3	25.5	3.7	61	<0.1	16.9	13.2	380	3.64	1.6	1.5	5.2	47	<0.1	0.2	<0.1	98	0.39	0.079	10
PMS-109	Rock Pulp	111.1	3596	23.7	63	2.6	35.2	19.4	405	4.29	54.9	538.0	1.9	29	0.3	3.4	0.4	119	0.33	0.094	10
PP11 RP201	Soil	0.4	15.4	6.1	48	<0.1	18.5	8.7	169	2.63	2.2	<0.5	2.8	35	<0.1	0.1	0.1	63	0.25	0.218	5
PP11 RP202	Soil	0.6	6.0	6.1	32	<0.1	11.3	4.7	206	1.59	1.1	<0.5	1.7	17	<0.1	<0.1	0.1	39	0.13	0.142	3
PP11 RP203	Soil	0.3	10.4	5.8	31	<0.1	10.4	5.5	113	1.77	0.9	<0.5	2.5	16	<0.1	<0.1	0.1	43	0.10	0.104	8
PP11 RP204	Soil	0.7	11.9	5.2	55	<0.1	10.7	7.9	181	2.37	1.0	0.6	2.6	13	<0.1	<0.1	0.1	57	0.13	0.191	3
PP11 RP205	Soil	0.2	22.7	6.7	35	<0.1	17.2	10.2	317	2.37	1.3	1.2	3.1	77	0.1	<0.1	0.1	61	0.41	0.056	21
PP11 RP206	Soil	0.1	20.7	5.9	35	<0.1	16.2	7.4	266	2.10	0.8	0.7	2.9	84	<0.1	<0.1	0.1	51	0.47	0.030	21
PP11 RP207	Soil	0.2	26.5	6.2	40	0.1	16.4	7.6	366	2.14	1.0	1.2	2.9	91	<0.1	<0.1	0.1	56	0.56	0.045	22
PP11 RP208	Soil	0.3	42.8	6.2	43	0.2	19.7	8.0	635	2.40	1.4	1.0	2.8	112	0.1	0.1	0.1	64	0.89	0.065	28
PP11 RP209	Soil	0.3	32.3	6.2	38	0.2	17.5	8.7	441	2.70	1.1	1.9	2.9	61	<0.1	<0.1	0.2	57	0.65	0.038	12

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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	
PP11 RP181	Soil			19	0.32	88	0.062	<1	1.72	0.013	0.06	0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11 RP182	Soil			16	0.15	94	0.069	1	1.53	0.018	0.04	<0.1	0.05	1.6	<0.1	<0.05	4	<0.5	<0.2
PP11 RP183	Soil			24	0.23	103	0.087	1	2.03	0.023	0.05	<0.1	0.02	1.5	<0.1	<0.05	6	<0.5	<0.2
PP11 RP184	Soil			20	0.23	94	0.069	<1	1.74	0.016	0.07	<0.1	0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11 RP185	Soil			24	0.22	77	0.078	1	1.89	0.020	0.05	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
PP11 RP186	Soil			22	0.17	89	0.088	1	2.30	0.017	0.04	<0.1	0.02	1.3	<0.1	<0.05	6	<0.5	<0.2
PP11 RP187	Soil			31	0.33	108	0.071	<1	1.79	0.017	0.05	<0.1	0.02	1.6	<0.1	<0.05	5	<0.5	<0.2
PP11 RP188	Soil			29	0.39	127	0.073	1	2.14	0.015	0.07	<0.1	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2
PP11 RP189	Soil			92	1.83	225	0.071	<1	4.00	0.026	0.12	<0.1	0.01	8.9	<0.1	<0.05	9	<0.5	<0.2
PP11 RP190	Soil			18	0.16	81	0.091	1	2.61	0.016	0.05	<0.1	0.03	1.7	<0.1	<0.05	7	<0.5	<0.2
PP11 RP191	Soil			21	0.23	96	0.073	1	1.53	0.021	0.04	<0.1	0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
PP11 RP192	Soil			15	0.15	68	0.064	<1	1.27	0.014	0.03	<0.1	0.02	1.0	<0.1	<0.05	5	<0.5	<0.2
PP11 RP193	Soil			23	0.23	108	0.071	<1	1.71	0.018	0.05	<0.1	0.03	1.7	<0.1	<0.05	5	<0.5	<0.2
PP11 RP194	Soil			28	0.49	136	0.097	1	1.36	0.029	0.11	<0.1	0.02	2.8	0.1	<0.05	4	<0.5	<0.2
PP11 RP195	Soil			25	0.40	110	0.097	<1	1.44	0.032	0.12	<0.1	0.01	2.8	0.1	<0.05	4	<0.5	<0.2
PP11 RP196	Soil			23	0.38	104	0.118	<1	1.93	0.018	0.16	<0.1	0.01	2.3	0.2	<0.05	6	<0.5	<0.2
PP11 RP197	Soil			19	0.43	85	0.131	<1	1.44	0.020	0.14	<0.1	0.01	2.6	0.2	<0.05	5	<0.5	<0.2
PP11 RP198	Soil			9	0.26	85	0.164	1	2.41	0.016	0.09	0.1	0.02	1.5	0.1	<0.05	7	<0.5	<0.2
PP11 RP199	Soil			14	0.55	149	0.195	1	2.45	0.016	0.24	0.2	0.03	2.2	0.2	<0.05	7	<0.5	<0.2
PP11 RP200	Soil			26	1.01	172	0.220	<1	2.23	0.015	0.52	0.1	0.01	3.9	0.4	<0.05	7	<0.5	<0.2
PMS-109	Rock Pulp			51	0.91	44	0.111	2	1.33	0.034	0.92	4.2	0.06	10.0	0.5	1.94	5	6.9	0.9
PP11 RP201	Soil			16	0.40	115	0.143	1	2.68	0.017	0.09	0.1	0.02	2.5	<0.1	<0.05	8	<0.5	<0.2
PP11 RP202	Soil			9	0.14	67	0.110	2	1.70	0.016	0.06	<0.1	0.02	1.2	<0.1	<0.05	7	<0.5	<0.2
PP11 RP203	Soil			11	0.25	110	0.116	1	1.73	0.012	0.08	<0.1	0.02	1.6	<0.1	<0.05	7	<0.5	<0.2
PP11 RP204	Soil			11	0.37	107	0.167	<1	2.22	0.016	0.12	0.1	0.03	2.0	<0.1	<0.05	8	<0.5	<0.2
PP11 RP205	Soil			32	0.60	147	0.164	2	2.13	0.025	0.13	<0.1	0.04	6.3	0.2	<0.05	6	<0.5	<0.2
PP11 RP206	Soil			29	0.55	145	0.146	1	1.83	0.025	0.20	<0.1	0.02	6.7	0.2	<0.05	6	<0.5	<0.2
PP11 RP207	Soil			30	0.54	166	0.146	2	1.75	0.023	0.22	<0.1	0.03	6.2	0.2	<0.05	5	<0.5	<0.2
PP11 RP208	Soil			29	0.62	259	0.139	3	2.14	0.035	0.23	0.1	0.02	6.1	0.1	<0.05	6	<0.5	<0.2
PP11 RP209	Soil			27	0.54	203	0.136	1	2.55	0.026	0.19	0.1	0.03	5.8	0.1	<0.05	7	<0.5	<0.2



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Project: Princeton
 Report Date: October 22, 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	%	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	
PP11 RP210	Soil		0.1	25.6	5.6	34	0.3	16.0	6.8	346	2.13	1.2	0.6	1.5	48	0.1	<0.1	0.2	48	0.58	0.050	9
PP11 RP211	Soil		1.0	21.4	4.7	56	0.2	16.2	9.1	229	2.41	1.9	0.8	1.4	22	<0.1	<0.1	0.1	62	0.26	0.124	5
PP11 RP212	Soil		1.0	17.9	3.5	52	<0.1	10.5	8.3	232	2.24	1.5	<0.5	0.9	23	<0.1	<0.1	<0.1	59	0.24	0.101	3
PP11 RP213	Soil		1.9	27.7	3.8	76	<0.1	11.2	8.0	1024	2.50	2.6	<0.5	0.8	25	0.1	0.1	<0.1	66	0.41	0.085	3
PP11 RP214	Soil		2.1	23.2	4.3	63	0.1	15.4	8.0	431	2.29	2.7	<0.5	1.0	31	<0.1	0.1	<0.1	65	0.37	0.054	4
PP11 RP215	Soil		1.2	23.0	3.5	78	0.1	13.9	6.7	276	2.63	1.9	<0.5	1.1	27	0.1	0.1	0.1	59	0.67	0.049	3
PP11 RP216	Soil		2.4	11.8	5.0	77	<0.1	9.3	6.1	879	2.14	1.1	<0.5	1.0	28	0.2	<0.1	0.1	44	0.69	0.033	3
PP11 RP217	Soil		1.2	17.8	5.0	110	0.1	15.8	7.5	453	2.40	3.0	<0.5	1.4	18	0.1	0.1	0.1	46	0.33	0.108	4
PP11 RP218	Soil		0.8	21.5	4.2	61	<0.1	14.8	7.5	287	2.43	3.4	<0.5	1.1	31	<0.1	0.1	0.1	55	0.42	0.049	3
PP11 RP219	Soil		0.4	20.2	4.0	40	<0.1	20.1	7.6	331	1.97	0.6	<0.5	1.1	51	<0.1	<0.1	<0.1	61	0.32	0.032	15
PP11 RP220	Soil		0.3	14.7	5.1	58	<0.1	20.5	6.8	277	1.89	1.0	3.2	1.3	31	<0.1	<0.1	<0.1	49	0.19	0.107	4
PP11 RP221	Soil		0.4	9.0	4.6	48	<0.1	16.8	5.3	188	1.50	<0.5	0.6	0.9	26	<0.1	<0.1	<0.1	40	0.15	0.098	3
PP11 RP222	Soil		0.5	13.8	4.1	46	<0.1	18.0	6.9	203	1.75	0.8	0.5	1.1	34	<0.1	<0.1	0.1	52	0.22	0.071	4
PP11 RP223	Soil		0.4	11.2	4.6	45	<0.1	16.4	5.5	138	1.54	0.7	<0.5	0.9	24	<0.1	<0.1	<0.1	44	0.16	0.060	3
PP11 RP224	Soil		0.3	12.5	4.9	47	<0.1	17.3	6.2	146	1.73	0.9	1.0	1.1	27	<0.1	<0.1	<0.1	48	0.17	0.054	3
PP11 RP225	Soil		0.3	6.1	3.7	40	<0.1	11.3	4.1	140	1.23	0.5	<0.5	0.9	21	<0.1	<0.1	<0.1	32	0.14	0.116	2
PP11 RP226	Soil		0.3	6.4	3.4	39	<0.1	11.1	4.4	108	1.34	<0.5	<0.5	0.9	21	<0.1	<0.1	<0.1	36	0.12	0.076	2
PP11 RP227	Soil		0.3	10.9	4.5	40	0.1	15.6	5.2	113	1.40	0.7	1.2	1.1	29	<0.1	<0.1	<0.1	35	0.21	0.094	4
PP11 RP228	Soil		0.5	19.7	4.6	45	<0.1	18.9	6.9	209	2.03	1.5	1.0	1.7	40	<0.1	0.2	<0.1	59	0.26	0.046	5
PP11 RP229	Soil		0.2	13.9	4.1	35	<0.1	16.3	5.3	272	1.40	0.9	<0.5	0.8	31	<0.1	<0.1	<0.1	42	0.22	0.037	7
PP11 RP230	Soil		0.2	16.7	3.8	37	<0.1	13.8	5.2	215	1.49	0.9	1.4	1.1	33	<0.1	<0.1	<0.1	41	0.23	0.018	7
PP11 RP231	Soil		0.2	14.0	4.1	43	<0.1	15.4	4.2	179	1.45	0.5	<0.5	0.9	33	<0.1	<0.1	<0.1	39	0.24	0.023	7
PP11 RP232	Soil		0.2	11.1	3.1	35	<0.1	10.1	3.3	341	1.08	<0.5	7.7	0.5	27	<0.1	<0.1	<0.1	32	0.19	0.018	5
PP11 RP233	Soil		0.2	17.1	4.0	35	0.1	13.6	4.4	345	1.48	0.7	0.7	1.1	38	<0.1	<0.1	<0.1	38	0.27	0.013	6
PP11 RP234	Soil		0.4	15.6	4.4	47	<0.1	18.5	7.8	256	2.18	0.7	1.7	1.4	41	<0.1	<0.1	<0.1	66	0.26	0.028	6
PP11 RP235	Soil		0.3	10.3	4.1	43	<0.1	9.8	5.0	275	1.45	0.6	<0.5	0.8	26	<0.1	<0.1	<0.1	39	0.19	0.031	3
PP11 RP236	Soil		0.2	8.5	4.5	50	<0.1	10.8	5.3	424	1.37	<0.5	<0.5	1.1	28	<0.1	<0.1	<0.1	37	0.19	0.021	4
PP11 RP237	Soil		0.2	8.8	3.7	45	<0.1	13.0	4.7	216	1.49	<0.5	<0.5	1.3	34	<0.1	<0.1	<0.1	36	0.17	0.018	9
PP11 RP238	Soil		0.4	7.3	3.6	36	<0.1	9.6	4.0	309	1.20	0.6	0.6	0.9	37	<0.1	<0.1	<0.1	32	0.22	0.024	5
PP11 RP239	Soil		0.6	13.1	4.1	42	<0.1	18.7	6.1	207	1.69	1.2	2.0	0.9	34	<0.1	0.1	<0.1	45	0.21	0.025	4

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Project: Princeton
 Report Date: October 22, 2011

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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	
PP11 RP210	Soil			21	0.42	121	0.099	1	2.64	0.032	0.09	<0.1	0.02	4.9	<0.1	<0.05	7	<0.5	<0.2
PP11 RP211	Soil			18	0.38	124	0.122	<1	2.26	0.021	0.07	0.1	0.02	2.9	<0.1	<0.05	7	<0.5	<0.2
PP11 RP212	Soil			12	0.33	135	0.111	1	1.87	0.015	0.08	0.2	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11 RP213	Soil			14	0.41	157	0.107	2	1.62	0.015	0.19	0.4	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
PP11 RP214	Soil			19	0.41	162	0.110	1	1.71	0.016	0.15	0.2	0.01	2.6	<0.1	<0.05	6	<0.5	<0.2
PP11 RP215	Soil			19	0.38	144	0.108	2	1.85	0.015	0.10	0.6	<0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
PP11 RP216	Soil			14	0.28	127	0.098	1	1.57	0.013	0.08	0.9	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11 RP217	Soil			16	0.32	147	0.108	2	2.25	0.017	0.13	0.5	0.02	2.7	<0.1	<0.05	7	<0.5	<0.2
PP11 RP218	Soil			19	0.43	122	0.109	1	1.92	0.018	0.10	0.2	0.01	2.7	<0.1	<0.05	6	<0.5	<0.2
PP11 RP219	Soil			26	0.44	61	0.089	2	1.39	0.028	0.11	<0.1	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
PP11 RP220	Soil			23	0.34	132	0.099	<1	2.19	0.020	0.09	<0.1	0.02	2.8	<0.1	<0.05	6	<0.5	<0.2
PP11 RP221	Soil			19	0.24	93	0.080	1	1.62	0.019	0.08	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PP11 RP222	Soil			24	0.36	104	0.086	2	1.61	0.019	0.09	<0.1	0.01	2.8	<0.1	<0.05	5	<0.5	<0.2
PP11 RP223	Soil			21	0.27	84	0.083	1	1.58	0.018	0.09	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PP11 RP224	Soil			23	0.31	112	0.093	<1	1.82	0.018	0.07	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PP11 RP225	Soil			19	0.18	100	0.073	1	1.28	0.014	0.05	<0.1	0.02	1.5	<0.1	<0.05	4	0.6	<0.2
PP11 RP226	Soil			22	0.23	68	0.075	1	1.35	0.016	0.04	<0.1	0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PP11 RP227	Soil			20	0.26	101	0.075	<1	1.64	0.017	0.06	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
PP11 RP228	Soil			32	0.47	117	0.114	1	1.61	0.019	0.16	<0.1	0.02	3.0	0.1	<0.05	5	<0.5	<0.2
PP11 RP229	Soil			20	0.26	82	0.075	2	1.41	0.018	0.09	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
PP11 RP230	Soil			20	0.29	83	0.088	<1	1.41	0.026	0.07	<0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
PP11 RP231	Soil			24	0.30	103	0.089	<1	1.51	0.022	0.10	<0.1	0.02	2.5	<0.1	<0.05	4	0.6	<0.2
PP11 RP232	Soil			16	0.21	64	0.056	<1	0.93	0.018	0.05	<0.1	0.02	1.8	<0.1	<0.05	3	<0.5	<0.2
PP11 RP233	Soil			23	0.29	55	0.084	<1	1.37	0.029	0.06	<0.1	0.01	3.8	<0.1	<0.05	4	<0.5	<0.2
PP11 RP234	Soil			37	0.44	146	0.110	<1	1.84	0.029	0.12	<0.1	0.02	3.9	0.1	<0.05	5	<0.5	<0.2
PP11 RP235	Soil			18	0.27	93	0.091	<1	1.44	0.018	0.10	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PP11 RP236	Soil			18	0.22	101	0.088	<1	1.51	0.018	0.11	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
PP11 RP237	Soil			25	0.21	110	0.083	1	1.32	0.020	0.08	<0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PP11 RP238	Soil			19	0.22	139	0.081	<1	1.15	0.018	0.11	<0.1	0.02	1.7	<0.1	<0.05	4	<0.5	<0.2
PP11 RP239	Soil			28	0.36	131	0.098	<1	1.29	0.020	0.13	<0.1	0.01	2.3	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	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	
PP11 RP240	Soil		0.5	8.9	4.2	47	<0.1	16.0	5.7	312	1.46	0.7	1.5	0.8	30	<0.1	0.1	<0.1	41	0.18	0.019	3
PP11 RP241	Soil		0.6	9.5	4.8	52	<0.1	21.4	5.3	234	1.54	0.9	1.3	0.7	23	<0.1	<0.1	<0.1	39	0.19	0.035	3
PP11 RP242	Soil		0.5	17.1	5.7	59	0.1	29.5	7.5	500	1.81	1.4	16.3	1.4	35	<0.1	0.1	0.1	44	0.25	0.077	4
PP11 RP243	Soil		0.5	15.5	5.1	57	0.3	25.4	5.8	334	1.57	2.1	1.2	1.3	28	<0.1	<0.1	<0.1	36	0.19	0.217	4
PP11 RP244	Soil		0.2	14.9	4.2	35	<0.1	15.0	3.6	220	1.23	1.4	3.0	0.9	38	<0.1	<0.1	<0.1	33	0.27	0.016	5
PP11 RP245	Soil		0.2	13.4	4.3	27	0.2	12.3	3.5	80	1.11	0.9	19.6	0.6	28	<0.1	<0.1	<0.1	27	0.17	0.013	4
PP11 RP246	Soil		0.5	29.1	4.6	54	<0.1	28.6	9.0	188	2.42	2.5	4.1	1.6	48	<0.1	0.3	<0.1	72	0.36	0.031	7
PP11 RP247	Soil		0.4	11.4	5.8	32	0.2	13.1	6.3	355	1.07	1.2	1.8	0.7	25	<0.1	<0.1	<0.1	31	0.17	0.026	3
PP11 RP248	Soil		0.2	18.5	4.5	29	0.2	18.8	4.3	157	1.29	1.3	4.6	0.9	35	<0.1	<0.1	<0.1	33	0.26	0.016	6
PP11 RP249	Soil		0.7	14.0	5.2	42	0.2	26.6	7.4	248	1.77	1.1	3.9	1.0	24	<0.1	0.1	<0.1	42	0.17	0.074	3
PP11 RP250	Soil		0.4	10.4	4.8	42	<0.1	27.2	7.7	113	1.67	0.8	0.9	1.0	22	<0.1	<0.1	<0.1	36	0.13	0.059	3
PMS-116	Rock Pulp		16.4	61.8	16.9	17	0.1	16.0	2.5	103	3.54	426.5	215.4	0.8	27	0.3	25.9	0.2	10	0.93	0.005	2
PP11 RP251	Soil		0.2	11.7	4.6	26	0.2	19.2	3.6	265	1.20	1.2	2.8	0.8	35	<0.1	<0.1	<0.1	31	0.22	0.016	4
PP11 RP252	Soil		0.2	7.7	3.3	22	<0.1	12.7	2.8	89	0.90	0.8	0.6	0.5	22	<0.1	<0.1	<0.1	24	0.15	0.013	3
PP11 RP253	Soil		0.6	9.4	4.9	44	<0.1	18.5	4.8	336	1.30	1.7	<0.5	1.2	15	<0.1	<0.1	0.1	29	0.11	0.182	3
PP11 RP254	Soil		0.2	9.2	3.9	31	<0.1	15.3	4.1	108	1.21	0.9	0.7	0.8	25	<0.1	<0.1	<0.1	29	0.15	0.047	5
PP11 RP255	Soil		0.3	14.4	5.0	47	<0.1	28.8	7.7	153	1.62	1.3	<0.5	1.4	31	<0.1	<0.1	<0.1	39	0.16	0.104	6
PP11 RP256	Soil		0.4	13.6	5.9	55	<0.1	22.7	4.9	201	1.50	1.3	0.8	1.6	21	<0.1	<0.1	0.1	34	0.12	0.141	6
PP11 RP257	Soil		0.3	14.5	5.8	31	<0.1	12.5	4.5	112	1.49	0.9	1.5	1.7	52	<0.1	<0.1	0.2	37	0.32	0.027	9
PP11 RP258	Soil		0.3	13.8	5.4	29	<0.1	11.9	5.3	162	1.57	1.0	1.4	1.8	50	<0.1	<0.1	0.2	40	0.32	0.029	8
PP11 RP259	Soil		0.3	15.2	5.4	31	<0.1	12.5	5.4	157	1.57	0.9	1.5	1.9	54	<0.1	<0.1	0.1	41	0.36	0.034	10
PP11 RP260	Soil		0.3	17.8	4.8	35	<0.1	12.6	7.3	336	1.87	0.9	1.1	3.5	48	<0.1	<0.1	0.1	57	0.34	0.036	19
PP11 RP261	Soil		0.3	12.4	3.0	42	<0.1	10.9	9.1	285	2.55	1.2	1.8	4.5	47	<0.1	<0.1	<0.1	78	0.40	0.062	8
PP11 RP262	Soil		0.1	6.3	3.6	23	<0.1	6.5	4.1	103	1.33	0.5	1.0	1.3	29	<0.1	<0.1	<0.1	30	0.18	0.014	3
PP11 RP263	Soil		0.3	7.0	4.8	30	<0.1	8.5	4.8	97	1.48	0.7	0.6	1.5	23	<0.1	<0.1	<0.1	36	0.14	0.057	3
PP11 RP264	Soil		0.3	14.3	3.2	38	<0.1	13.9	8.9	184	2.53	1.3	<0.5	2.8	37	<0.1	0.1	0.2	71	0.24	0.065	5
PP11 RP265	Soil		0.4	12.2	6.0	29	<0.1	17.1	5.3	60	1.94	1.8	1.5	2.1	13	<0.1	<0.1	0.2	43	0.07	0.210	5
PP11 RP266	Soil		0.5	15.8	5.4	45	<0.1	19.2	7.9	741	2.08	1.9	0.6	2.1	93	<0.1	0.1	0.1	54	0.91	0.195	6
PP11 RP267	Soil		0.3	30.2	4.6	106	<0.1	22.5	17.4	1254	3.83	2.5	1.1	5.3	150	0.1	0.2	0.1	109	1.49	0.181	16
PP11 RP268	Soil		0.3	28.5	4.3	59	<0.1	27.9	13.4	541	3.14	1.9	1.6	4.4	97	<0.1	0.1	<0.1	89	0.64	0.121	19

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Project: Princeton
 Report Date: October 22, 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	0.1	0.05	1	0.5	0.2	
PP11 RP240	Soil	25	0.27	122	0.091	<1	1.26	0.029	0.12	<0.1	0.02	2.2	0.1	<0.05	4	<0.5	<0.2
PP11 RP241	Soil	24	0.27	125	0.084	<1	1.64	0.017	0.08	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PP11 RP242	Soil	30	0.35	174	0.087	<1	1.89	0.015	0.11	<0.1	0.01	2.9	<0.1	<0.05	5	<0.5	<0.2
PP11 RP243	Soil	26	0.21	138	0.078	1	2.02	0.018	0.06	<0.1	0.04	2.2	<0.1	<0.05	6	<0.5	<0.2
PP11 RP244	Soil	21	0.27	95	0.069	<1	1.16	0.026	0.06	<0.1	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
PP11 RP245	Soil	16	0.18	82	0.065	<1	1.25	0.024	0.04	<0.1	0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
PP11 RP246	Soil	45	0.62	122	0.105	<1	1.72	0.021	0.12	<0.1	<0.01	4.9	0.1	<0.05	5	<0.5	<0.2
PP11 RP247	Soil	18	0.21	87	0.059	<1	1.11	0.017	0.03	<0.1	0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
PP11 RP248	Soil	25	0.33	96	0.066	<1	1.26	0.023	0.05	<0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
PP11 RP249	Soil	29	0.27	132	0.072	1	1.51	0.016	0.06	<0.1	0.02	2.1	<0.1	<0.05	5	<0.5	<0.2
PP11 RP250	Soil	27	0.25	104	0.080	<1	2.10	0.022	0.06	<0.1	0.01	2.0	<0.1	<0.05	6	<0.5	<0.2
PMS-116	Rock Pulp	22	0.02	841	0.009	1	0.16	0.006	0.06	2.3	2.95	0.5	10.5	0.12	<1	1.8	<0.2
PP11 RP251	Soil	25	0.23	93	0.067	<1	1.33	0.027	0.04	<0.1	0.02	2.0	<0.1	<0.05	4	<0.5	<0.2
PP11 RP252	Soil	23	0.18	64	0.062	<1	0.91	0.019	0.03	<0.1	0.02	1.0	<0.1	<0.05	3	<0.5	<0.2
PP11 RP253	Soil	19	0.14	105	0.076	<1	1.76	0.017	0.04	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
PP11 RP254	Soil	24	0.18	108	0.064	<1	1.24	0.019	0.03	<0.1	0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
PP11 RP255	Soil	37	0.29	133	0.086	<1	2.01	0.017	0.05	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
PP11 RP256	Soil	30	0.17	121	0.096	<1	2.52	0.019	0.05	<0.1	0.03	2.2	<0.1	<0.05	7	<0.5	<0.2
PP11 RP257	Soil	20	0.40	105	0.101	2	1.40	0.024	0.06	<0.1	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
PP11 RP258	Soil	19	0.42	108	0.108	2	1.47	0.024	0.07	<0.1	0.02	2.3	<0.1	<0.05	5	<0.5	<0.2
PP11 RP259	Soil	19	0.41	113	0.106	2	1.45	0.025	0.07	<0.1	0.02	2.5	<0.1	<0.05	5	<0.5	<0.2
PP11 RP260	Soil	19	0.52	116	0.142	1	1.45	0.031	0.18	<0.1	0.01	4.0	0.2	<0.05	5	<0.5	<0.2
PP11 RP261	Soil	21	0.74	101	0.177	1	1.33	0.020	0.30	<0.1	0.02	3.2	0.2	<0.05	5	<0.5	<0.2
PP11 RP262	Soil	10	0.32	70	0.108	1	1.21	0.017	0.15	<0.1	0.02	1.2	0.1	<0.05	4	<0.5	<0.2
PP11 RP263	Soil	11	0.29	82	0.107	1	1.46	0.013	0.08	<0.1	0.02	1.2	<0.1	<0.05	6	<0.5	<0.2
PP11 RP264	Soil	22	0.53	98	0.138	1	1.60	0.016	0.11	<0.1	0.02	2.2	0.2	<0.05	5	<0.5	<0.2
PP11 RP265	Soil	15	0.15	90	0.103	1	2.63	0.015	0.05	0.2	0.04	1.9	<0.1	<0.05	8	<0.5	<0.2
PP11 RP266	Soil	17	0.42	151	0.114	7	2.08	0.041	0.20	0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
PP11 RP267	Soil	29	1.10	232	0.141	7	1.89	0.037	0.57	0.1	<0.01	6.1	0.2	<0.05	7	<0.5	<0.2
PP11 RP268	Soil	34	0.92	281	0.167	1	1.69	0.025	0.30	<0.1	0.01	5.2	0.3	<0.05	6	<0.5	<0.2

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Project: Princeton
 Report Date: October 22, 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	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	
PP11 RP269	Soil		0.4	15.9	7.6	36	<0.1	31.6	8.9	89	1.95	0.9	0.8	1.7	69	<0.1	0.5	0.1	42	0.21	0.110	7
PP11 RP270	Soil		0.5	11.7	6.7	48	<0.1	35.0	8.4	132	1.97	1.2	<0.5	1.7	39	<0.1	<0.1	0.1	42	0.16	0.129	5
PP11 RP271	Soil		0.6	9.8	6.2	52	<0.1	27.3	7.0	93	1.83	1.4	0.5	1.6	16	<0.1	<0.1	0.1	39	0.09	0.150	3
PP11 RP272	Soil		0.4	9.2	4.9	40	<0.1	15.8	5.0	162	1.42	1.1	<0.5	1.1	23	<0.1	<0.1	<0.1	34	0.11	0.126	4
PP11 RP273	Soil		0.3	12.3	5.5	33	<0.1	16.5	5.5	119	1.38	0.6	<0.5	0.6	37	<0.1	<0.1	<0.1	32	0.21	0.084	4
PP11 RP274	Soil		0.1	13.8	5.1	23	<0.1	13.6	4.6	239	1.35	0.6	<0.5	1.2	42	<0.1	<0.1	<0.1	32	0.25	0.014	8
PP11 RP275	Soil		0.4	22.5	7.3	47	<0.1	38.6	10.9	114	2.10	1.2	0.5	1.6	84	<0.1	<0.1	0.1	47	0.32	0.082	8
PP11 RP276	Soil		0.4	28.3	4.5	60	<0.1	35.9	14.6	546	3.30	2.3	1.2	4.8	135	<0.1	0.1	<0.1	98	0.63	0.106	16
PP11 RP277	Soil		0.1	8.7	6.3	26	<0.1	15.4	3.7	211	1.21	0.8	<0.5	1.1	48	<0.1	<0.1	0.1	33	0.25	0.026	8
PP11 RP278	Soil		0.6	16.3	4.6	44	<0.1	15.8	9.5	193	2.49	1.4	<0.5	2.9	29	<0.1	<0.1	<0.1	60	0.20	0.092	5
PP11 RP279	Soil		0.8	8.1	5.1	28	<0.1	10.6	5.7	90	2.07	1.7	<0.5	2.1	9	<0.1	<0.1	0.1	48	0.07	0.118	3
PP11 RP280	Soil		0.5	14.7	4.6	41	<0.1	14.9	8.2	145	2.40	1.6	<0.5	3.2	26	<0.1	<0.1	<0.1	61	0.18	0.117	5
PP11 RP281	Soil		0.2	9.1	4.0	36	<0.1	9.6	6.6	149	1.92	0.7	0.7	1.9	27	<0.1	<0.1	<0.1	50	0.20	0.038	5
PP11 RP282	Soil		0.2	12.4	5.6	35	<0.1	14.2	5.1	180	1.75	0.8	<0.5	1.9	39	<0.1	<0.1	<0.1	41	0.22	0.020	7
PP11 RP283	Soil		0.4	11.8	5.9	45	<0.1	15.7	5.8	75	1.96	1.6	<0.5	2.3	21	<0.1	<0.1	0.1	46	0.13	0.270	6
PP11 RP284	Soil		0.3	20.3	4.0	41	<0.1	21.4	8.0	276	2.58	1.5	0.8	3.8	75	<0.1	<0.1	<0.1	73	0.53	0.110	15
PP11 RP285	Soil		0.2	19.2	5.8	23	<0.1	14.2	5.7	218	1.56	1.0	0.5	2.1	71	<0.1	<0.1	0.1	41	0.44	0.035	19
PP11 RP286	Soil		0.3	19.4	5.1	31	<0.1	13.8	6.1	254	1.77	0.9	0.8	1.6	69	0.1	<0.1	<0.1	42	0.41	0.034	17
PP11 RP287	Soil		0.1	16.7	5.5	19	<0.1	11.9	4.4	254	1.26	1.1	<0.5	1.0	63	<0.1	<0.1	0.1	33	0.38	0.038	15
PP11 RP288	Soil		0.6	13.6	4.0	34	<0.1	12.0	8.4	331	2.10	1.4	<0.5	3.0	49	<0.1	<0.1	<0.1	59	0.38	0.062	13
PP11 RP289	Soil		0.2	16.3	5.4	20	<0.1	12.5	4.7	306	1.29	0.9	<0.5	1.0	66	<0.1	<0.1	0.1	34	0.37	0.037	17
PP11 RP290	Soil		0.2	14.1	5.1	20	<0.1	11.9	4.7	223	1.32	1.0	<0.5	1.0	72	<0.1	<0.1	<0.1	37	0.45	0.028	11
PP11 RP291	Soil		0.2	11.5	4.0	22	<0.1	9.3	4.3	139	1.35	0.9	<0.5	1.4	45	<0.1	<0.1	<0.1	34	0.27	0.029	5
PP11 RP292	Soil		0.1	11.3	4.1	23	<0.1	9.2	4.3	135	1.37	0.7	<0.5	1.5	43	<0.1	<0.1	<0.1	32	0.26	0.024	5
PP11 RP293	Soil		0.4	4.8	4.6	21	<0.1	5.1	2.5	49	1.23	1.1	0.9	1.0	11	<0.1	<0.1	0.1	34	0.05	0.124	3
PP11 RP294	Soil		0.5	8.4	4.1	30	<0.1	8.1	4.7	89	1.75	1.4	<0.5	1.8	14	<0.1	<0.1	<0.1	47	0.10	0.199	3
PP11 RP295	Soil		0.7	12.3	4.9	34	<0.1	12.5	6.5	102	1.83	2.0	<0.5	1.4	21	<0.1	<0.1	0.1	43	0.15	0.188	4
PP11 RP296	Soil		1.2	13.2	4.5	45	<0.1	13.8	6.6	136	1.87	1.6	<0.5	1.6	19	<0.1	0.1	<0.1	43	0.15	0.140	4
PP11 RP297	Soil		0.6	14.8	4.1	50	<0.1	14.8	7.5	116	2.08	1.7	1.5	1.4	32	<0.1	<0.1	<0.1	49	0.24	0.124	4
PP11 RP298	Soil		0.3	30.0	3.3	36	<0.1	18.1	5.5	363	1.98	1.2	<0.5	1.1	54	0.1	0.1	<0.1	47	0.40	0.026	19

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Method Analyte	Unit	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
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	
PP11 RP269	Soil	31	0.34	172	0.107	<1	3.00	0.019	0.09	<0.1	0.02	2.5	0.1	<0.05	8	<0.5	<0.2
PP11 RP270	Soil	22	0.26	165	0.118	1	2.92	0.020	0.09	<0.1	0.02	2.0	<0.1	<0.05	8	<0.5	<0.2
PP11 RP271	Soil	17	0.20	100	0.108	1	2.57	0.017	0.07	0.1	0.03	1.6	<0.1	<0.05	8	<0.5	<0.2
PP11 RP272	Soil	15	0.18	77	0.081	1	1.91	0.016	0.04	<0.1	0.03	1.5	<0.1	<0.05	6	<0.5	<0.2
PP11 RP273	Soil	22	0.24	94	0.065	1	1.62	0.018	0.06	<0.1	0.05	1.5	<0.1	<0.05	5	<0.5	<0.2
PP11 RP274	Soil	35	0.27	63	0.077	<1	1.31	0.031	0.06	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
PP11 RP275	Soil	44	0.50	201	0.128	2	2.33	0.027	0.10	<0.1	0.03	3.1	0.1	<0.05	7	<0.5	<0.2
PP11 RP276	Soil	38	1.13	227	0.214	2	1.94	0.022	0.59	<0.1	0.02	5.5	0.4	<0.05	7	<0.5	<0.2
PP11 RP277	Soil	14	0.23	123	0.085	<1	1.37	0.025	0.09	<0.1	<0.01	1.5	<0.1	<0.05	5	<0.5	<0.2
PP11 RP278	Soil	15	0.45	141	0.156	2	2.57	0.021	0.26	<0.1	0.02	1.8	<0.1	<0.05	8	<0.5	<0.2
PP11 RP279	Soil	10	0.19	59	0.116	1	2.39	0.014	0.06	0.1	0.04	1.6	<0.1	<0.05	8	<0.5	<0.2
PP11 RP280	Soil	19	0.37	112	0.135	<1	2.43	0.021	0.08	<0.1	0.02	2.2	<0.1	<0.05	7	<0.5	<0.2
PP11 RP281	Soil	12	0.41	94	0.149	<1	1.41	0.016	0.10	<0.1	0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
PP11 RP282	Soil	18	0.37	136	0.120	<1	1.75	0.028	0.09	<0.1	0.01	2.3	0.1	<0.05	5	<0.5	<0.2
PP11 RP283	Soil	16	0.22	115	0.107	<1	2.59	0.018	0.08	<0.1	0.02	2.5	<0.1	<0.05	8	<0.5	<0.2
PP11 RP284	Soil	41	0.63	169	0.123	<1	1.48	0.029	0.19	<0.1	<0.01	4.7	0.1	<0.05	5	<0.5	<0.2
PP11 RP285	Soil	36	0.42	104	0.093	<1	1.59	0.031	0.11	<0.1	0.03	5.6	0.1	<0.05	5	<0.5	<0.2
PP11 RP286	Soil	23	0.45	141	0.110	<1	1.57	0.029	0.10	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
PP11 RP287	Soil	37	0.34	72	0.064	<1	1.37	0.026	0.07	<0.1	0.02	4.4	<0.1	<0.05	4	<0.5	<0.2
PP11 RP288	Soil	22	0.50	89	0.126	<1	1.42	0.018	0.18	<0.1	0.03	3.8	0.1	<0.05	5	<0.5	<0.2
PP11 RP289	Soil	37	0.33	76	0.076	<1	1.34	0.024	0.10	<0.1	0.04	3.9	0.1	<0.05	4	<0.5	<0.2
PP11 RP290	Soil	27	0.35	85	0.083	<1	1.40	0.027	0.08	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
PP11 RP291	Soil	20	0.38	83	0.101	<1	1.18	0.029	0.13	<0.1	0.01	2.2	0.1	<0.05	4	<0.5	<0.2
PP11 RP292	Soil	20	0.38	81	0.097	<1	1.17	0.029	0.13	<0.1	0.01	2.3	0.1	<0.05	4	<0.5	<0.2
PP11 RP293	Soil	9	0.08	37	0.073	2	1.30	0.014	0.02	<0.1	0.03	0.8	<0.1	<0.05	6	<0.5	<0.2
PP11 RP294	Soil	12	0.16	56	0.082	1	1.66	0.015	0.04	0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
PP11 RP295	Soil	16	0.28	97	0.087	1	1.86	0.013	0.06	0.2	0.03	1.7	<0.1	<0.05	6	<0.5	<0.2
PP11 RP296	Soil	16	0.27	89	0.094	1	1.74	0.014	0.07	0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PP11 RP297	Soil	20	0.38	131	0.089	<1	1.69	0.023	0.06	0.1	0.01	2.3	<0.1	<0.05	5	<0.5	<0.2
PP11 RP298	Soil	25	0.43	73	0.073	1	1.37	0.023	0.07	<0.1	0.02	5.9	<0.1	<0.05	4	<0.5	<0.2

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Project: Princeton

Report Date: October 22, 2011

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CERTIFICATE OF ANALYSIS

VAN11005422.1

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	0.1	2	0.01	0.001	1
PP11 RP299	Soil			0.2	13.3	4.2	29	<0.1	11.6	4.1	170	1.45	0.8	4.3	0.9	35	<0.1	<0.1	<0.1	34	0.24	0.030	6	
PP11 RP300	Soil			0.4	17.9	3.9	34	<0.1	22.2	7.4	141	2.16	0.9	<0.5	1.7	45	<0.1	<0.1	<0.1	63	0.23	0.036	5	
PMS-92	Rock Pulp			16.3	64.4	17.4	17	0.2	17.1	2.5	112	3.81	470.8	205.5	0.8	29	0.4	25.9	0.2	10	1.04	0.006	2	
PP11 RP301	Soil			0.3	16.1	4.8	38	<0.1	16.4	5.1	139	1.64	1.3	1.3	1.1	39	<0.1	0.1	<0.1	46	0.22	0.022	6	
PP11 RP302	Soil			0.3	21.9	4.3	37	0.1	16.9	4.8	109	1.71	1.2	<0.5	0.6	73	0.1	<0.1	<0.1	43	0.50	0.034	11	
PP11 RP303	Soil			0.4	11.7	3.7	35	<0.1	12.8	5.5	104	1.76	0.9	2.4	0.8	30	<0.1	<0.1	<0.1	51	0.19	0.027	3	
PP11 RP304	Soil			0.4	4.0	4.2	14	<0.1	2.5	1.2	30	0.70	0.7	<0.5	0.3	12	<0.1	<0.1	0.1	17	0.08	0.086	2	
PP11 RP305	Soil			0.3	3.7	3.8	17	<0.1	3.1	1.7	34	0.99	0.9	<0.5	0.9	13	<0.1	<0.1	<0.1	22	0.07	0.192	2	
PP11 RP306	Soil			0.3	13.5	6.0	22	<0.1	10.9	4.3	201	1.39	1.0	<0.5	0.5	87	<0.1	<0.1	0.1	38	0.48	0.040	12	
PP11 RP307	Soil			0.5	11.5	3.9	25	<0.1	11.2	6.2	87	1.72	1.6	<0.5	1.7	17	<0.1	<0.1	<0.1	46	0.13	0.166	4	
PP11 RP308	Soil			0.2	6.9	4.6	19	<0.1	7.3	3.5	67	1.09	0.6	<0.5	0.8	34	<0.1	<0.1	<0.1	28	0.18	0.029	4	
PP11 RP309	Soil			0.2	10.6	3.6	23	<0.1	8.3	4.4	113	1.31	0.7	<0.5	1.2	47	<0.1	<0.1	<0.1	35	0.25	0.044	5	
PP11 RP310	Soil			0.3	13.0	4.3	30	<0.1	12.0	5.2	127	1.73	0.7	<0.5	1.4	54	<0.1	<0.1	<0.1	43	0.34	0.047	8	
PP11 RP311	Soil			0.2	7.4	4.1	19	<0.1	6.7	3.8	77	1.13	0.6	<0.5	1.1	34	<0.1	<0.1	<0.1	25	0.18	0.023	3	
PP11 RP312	Soil			0.2	11.8	4.9	19	<0.1	9.4	4.3	160	1.27	0.6	<0.5	1.5	46	<0.1	<0.1	<0.1	34	0.22	0.025	7	
PP11 RP313	Soil			0.1	13.0	5.6	19	<0.1	10.5	4.4	167	1.19	0.8	<0.5	1.1	73	<0.1	<0.1	<0.1	28	0.46	0.027	11	
PP11 RP314	Soil			0.2	16.6	6.2	20	<0.1	12.9	5.5	293	1.43	1.2	<0.5	1.1	82	<0.1	<0.1	0.1	36	0.53	0.034	18	
PP11 RP315	Soil			0.2	22.9	7.0	20	<0.1	18.1	4.9	240	1.36	0.9	<0.5	1.1	116	<0.1	0.1	0.1	32	0.78	0.051	23	
PP11 RP316	Soil			0.2	18.7	6.6	19	<0.1	14.0	5.5	127	1.41	0.9	<0.5	2.5	56	<0.1	<0.1	0.1	37	0.30	0.031	15	
PP11 RP317	Soil			0.3	17.6	5.6	15	<0.1	12.7	3.2	86	1.15	0.7	<0.5	0.9	92	<0.1	<0.1	0.1	26	0.60	0.029	18	
PP11 RP318	Soil			3.9	28.8	5.9	32	0.1	18.3	10.6	514	2.56	2.8	0.6	2.3	51	<0.1	<0.1	0.1	76	0.64	0.052	18	
PP11 RP319	Soil			0.8	19.3	4.8	23	<0.1	15.8	6.0	328	1.58	1.2	<0.5	1.0	73	0.2	<0.1	<0.1	41	0.71	0.053	18	
PP11 RP320	Soil			0.3	18.1	4.9	35	<0.1	10.3	5.1	195	1.59	1.0	<0.5	1.1	22	<0.1	<0.1	0.1	42	0.15	0.041	4	
PP11 RP321	Soil			0.4	15.6	4.7	38	0.1	15.3	5.2	86	1.58	1.7	<0.5	1.4	30	<0.1	<0.1	<0.1	36	0.17	0.179	5	
PP11 RP322	Soil			4.6	62.4	5.6	39	0.5	42.7	7.4	719	2.25	2.5	1.1	1.2	132	0.2	0.6	<0.1	64	1.36	0.051	73	
PP11 RP323	Soil			0.2	18.6	4.2	41	0.1	17.1	5.8	390	1.56	0.8	<0.5	0.9	37	<0.1	<0.1	<0.1	42	0.24	0.023	8	
PP11 RP324	Soil			0.2	14.1	4.8	66	<0.1	24.3	7.5	118	1.92	1.1	<0.5	1.3	43	<0.1	<0.1	<0.1	43	0.23	0.204	4	
PP11 RP325	Soil			0.3	29.4	4.9	90	0.2	25.1	7.5	1306	1.88	1.5	<0.5	1.6	129	0.1	0.1	<0.1	54	1.27	0.119	16	
PP11 RP326	Soil			1.2	54.6	3.6	130	<0.1	32.5	13.6	4950	2.08	4.8	1.1	1.8	380	0.2	0.3	<0.1	90	5.07	0.527	12	
PP11 RP327	Soil			1.2	53.3	4.2	138	<0.1	35.3	14.5	4677	2.22	4.8	0.9	2.0	360	0.3	0.3	<0.1	95	4.81	0.486	13	

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 Report Date: October 22, 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	
	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		
PP11 RP299	Soil	17	0.31	101	0.069	1	1.33	0.022	0.07	<0.1	0.01	3.2	<0.1	<0.05	4	<0.5	<0.2
PP11 RP300	Soil	33	0.54	125	0.096	<1	1.53	0.026	0.10	<0.1	0.01	3.9	<0.1	<0.05	4	<0.5	<0.2
PMS-92	Rock Pulp	22	0.02	1073	0.009	2	0.16	0.007	0.06	2.7	2.97	0.6	10.9	0.13	<1	2.1	<0.2
PP11 RP301	Soil	22	0.38	138	0.089	<1	1.64	0.030	0.10	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
PP11 RP302	Soil	21	0.41	150	0.074	2	1.52	0.022	0.08	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
PP11 RP303	Soil	22	0.36	73	0.092	<1	1.31	0.023	0.06	<0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PP11 RP304	Soil	6	0.04	40	0.057	2	0.58	0.011	0.02	<0.1	0.03	0.5	<0.1	<0.05	4	<0.5	<0.2
PP11 RP305	Soil	6	0.06	37	0.067	<1	1.08	0.011	0.02	<0.1	0.03	0.7	<0.1	<0.05	4	<0.5	<0.2
PP11 RP306	Soil	26	0.32	131	0.064	<1	1.64	0.018	0.08	<0.1	0.03	2.6	<0.1	<0.05	5	<0.5	<0.2
PP11 RP307	Soil	15	0.22	98	0.085	<1	1.75	0.013	0.05	0.2	0.03	1.7	<0.1	<0.05	5	<0.5	<0.2
PP11 RP308	Soil	13	0.19	73	0.075	<1	1.17	0.018	0.04	<0.1	0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
PP11 RP309	Soil	18	0.36	85	0.094	<1	0.95	0.022	0.10	<0.1	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
PP11 RP310	Soil	23	0.38	115	0.102	<1	1.42	0.024	0.11	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
PP11 RP311	Soil	15	0.28	78	0.094	<1	1.03	0.020	0.06	<0.1	0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
PP11 RP312	Soil	21	0.29	88	0.096	1	1.26	0.022	0.05	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
PP11 RP313	Soil	27	0.34	84	0.085	<1	1.33	0.023	0.08	<0.1	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
PP11 RP314	Soil	34	0.39	103	0.088	1	1.60	0.024	0.09	<0.1	0.02	4.2	<0.1	<0.05	4	<0.5	<0.2
PP11 RP315	Soil	45	0.43	104	0.075	2	1.67	0.022	0.10	<0.1	0.05	5.4	0.1	<0.05	4	<0.5	<0.2
PP11 RP316	Soil	42	0.35	75	0.099	<1	1.47	0.024	0.07	<0.1	0.02	5.5	<0.1	<0.05	4	<0.5	<0.2
PP11 RP317	Soil	31	0.32	85	0.077	2	1.29	0.021	0.10	<0.1	0.03	3.2	<0.1	<0.05	4	0.6	<0.2
PP11 RP318	Soil	26	0.46	262	0.114	2	2.51	0.023	0.13	<0.1	0.04	5.9	0.1	<0.05	7	1.1	<0.2
PP11 RP319	Soil	26	0.37	142	0.075	1	1.63	0.019	0.08	0.1	0.05	3.6	<0.1	<0.05	4	<0.5	<0.2
PP11 RP320	Soil	20	0.34	113	0.092	<1	1.37	0.017	0.05	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PP11 RP321	Soil	21	0.26	146	0.084	<1	2.23	0.018	0.04	<0.1	0.04	2.8	<0.1	<0.05	6	0.5	<0.2
PP11 RP322	Soil	48	0.65	226	0.056	5	2.44	0.019	0.07	0.1	0.07	9.7	<0.1	0.10	6	1.3	<0.2
PP11 RP323	Soil	25	0.40	82	0.063	<1	1.54	0.025	0.05	<0.1	0.02	4.3	<0.1	<0.05	4	<0.5	<0.2
PP11 RP324	Soil	28	0.35	163	0.079	<1	2.54	0.019	0.04	<0.1	0.02	3.3	<0.1	<0.05	7	<0.5	<0.2
PP11 RP325	Soil	33	0.53	235	0.081	8	1.67	0.060	0.30	<0.1	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2
PP11 RP326	Soil	31	1.04	471	0.070	37	1.40	0.167	0.45	0.3	<0.01	5.1	<0.1	<0.05	5	0.5	<0.2
PP11 RP327	Soil	35	1.06	462	0.075	35	1.49	0.164	0.49	0.2	<0.01	5.5	<0.1	<0.05	5	<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
PP11 RP328	Soil	0.2	16.3	4.3	42	0.1	13.7	5.5	248	1.60	1.2	5.8	0.9	41	<0.1	<0.1	0.1	41	0.27	0.038	6
PP11 RP329	Soil	0.1	12.8	3.9	30	0.1	11.8	3.6	215	1.37	1.0	0.5	0.9	29	<0.1	<0.1	0.1	33	0.22	0.016	6
PP11 RP330	Soil	0.3	13.1	4.8	56	<0.1	19.4	6.0	119	1.65	0.8	0.6	1.6	28	<0.1	<0.1	0.1	37	0.16	0.110	5
PP11 RP331	Soil	0.4	22.5	4.4	45	<0.1	24.3	7.2	200	2.01	1.5	<0.5	1.7	46	<0.1	0.1	0.1	49	0.31	0.066	11
PP11 RP332	Soil	0.4	21.9	4.8	48	<0.1	24.2	7.4	244	1.98	1.7	0.6	1.6	44	<0.1	0.1	0.1	49	0.28	0.084	9
PP11 RP333	Soil	0.4	10.5	4.8	69	<0.1	16.8	5.5	172	1.41	0.9	<0.5	1.2	12	<0.1	<0.1	0.1	30	0.08	0.170	4
PP11 RP334	Soil	0.5	22.1	4.9	50	<0.1	26.4	7.6	261	2.03	1.7	0.8	1.7	52	<0.1	0.2	0.1	49	0.25	0.065	10
PP11 RP335	Soil	0.4	16.5	5.2	73	0.1	28.5	6.2	168	1.83	1.3	<0.5	1.6	30	0.1	<0.1	0.1	39	0.17	0.156	7
PP11 RP336	Soil	0.2	18.2	6.2	46	0.1	29.4	5.5	113	1.58	1.4	1.4	2.0	31	<0.1	<0.1	0.1	30	0.14	0.132	5
PP11 RP337	Soil	0.3	9.1	5.0	44	0.1	26.3	3.6	86	1.28	0.9	2.1	1.5	19	<0.1	<0.1	0.1	23	0.10	0.183	4
PP11 RP338	Soil	0.3	10.9	4.7	39	<0.1	17.1	4.4	136	1.37	<0.5	2.2	1.0	29	<0.1	<0.1	<0.1	31	0.18	0.033	3
PP11 RP339	Soil	0.2	4.9	2.9	41	<0.1	10.8	2.9	98	1.03	<0.5	<0.5	0.5	20	<0.1	<0.1	<0.1	24	0.13	0.040	2
PP11 RP340	Soil	0.3	5.5	3.4	43	<0.1	11.2	3.3	178	1.12	<0.5	<0.5	0.5	20	<0.1	<0.1	<0.1	24	0.14	0.033	3
PP11 RP341	Soil	0.2	18.9	5.2	41	<0.1	23.3	5.3	142	1.64	0.6	0.9	1.8	39	<0.1	0.1	0.1	39	0.24	0.021	13
PP11 RP342	Soil	0.3	11.2	5.4	35	<0.1	16.7	5.3	185	1.50	0.5	2.2	1.3	29	<0.1	<0.1	0.1	38	0.17	0.015	7
PP11 RP343	Soil	0.2	9.9	3.6	29	<0.1	15.7	4.2	100	1.32	<0.5	<0.5	0.7	29	<0.1	<0.1	<0.1	30	0.15	0.031	4
PP11 RP344	Soil	0.3	8.8	3.2	22	<0.1	13.7	3.7	82	1.15	<0.5	2.9	0.6	24	<0.1	<0.1	<0.1	28	0.13	0.066	3
PP11 RP345	Soil	0.4	9.7	4.5	47	<0.1	18.3	4.7	280	1.28	1.0	1.0	0.9	17	<0.1	<0.1	<0.1	29	0.12	0.138	4
PP11 RP346	Soil	0.3	22.4	4.2	40	<0.1	29.7	6.7	235	1.71	1.4	4.1	1.3	36	<0.1	0.1	<0.1	43	0.25	0.081	10
PP11 RP347	Soil	<0.1	10.4	4.9	30	<0.1	15.7	3.1	80	1.06	<0.5	<0.5	0.7	23	<0.1	<0.1	0.1	25	0.13	0.019	4
PP11 RP348	Soil	0.2	15.9	5.0	38	<0.1	33.3	5.5	78	1.57	1.3	0.7	1.2	33	<0.1	<0.1	<0.1	33	0.17	0.120	5
PP11 RP349	Soil	0.2	12.6	4.4	39	<0.1	24.3	3.9	58	1.38	1.0	<0.5	1.0	25	<0.1	<0.1	<0.1	31	0.13	0.129	4
PP11 RP350	Soil	0.1	13.2	3.0	31	<0.1	18.0	3.7	120	1.30	0.6	<0.5	0.9	34	<0.1	<0.1	<0.1	32	0.21	0.011	8
PMS-96	Rock Pulp	15.7	59.8	16.6	18	0.1	16.1	2.5	111	3.78	464.4	222.2	0.8	27	0.4	24.9	0.1	9	1.00	0.005	2
PP11 RP351	Soil	0.1	14.7	3.4	28	0.1	19.7	5.1	123	1.35	0.8	<0.5	0.7	29	<0.1	<0.1	<0.1	32	0.18	0.017	7
PP11 RP352	Soil	0.3	9.4	3.9	22	<0.1	12.7	3.6	151	1.02	0.8	<0.5	0.5	27	<0.1	<0.1	<0.1	25	0.18	0.025	5
PP11 RP353	Soil	0.3	6.2	3.9	36	<0.1	13.9	3.7	181	1.05	0.8	<0.5	0.7	13	<0.1	<0.1	<0.1	23	0.08	0.075	3
PP11 RP354	Soil	0.2	13.6	3.0	32	<0.1	21.6	4.8	225	1.33	0.7	<0.5	0.7	37	<0.1	<0.1	<0.1	36	0.22	0.015	10
PP11 RP355	Soil	0.2	14.0	3.0	32	0.1	15.9	4.9	250	1.38	0.8	0.8	0.7	37	<0.1	<0.1	<0.1	35	0.25	0.017	8
PP11 RP356	Soil	0.1	13.3	2.7	27	0.1	17.3	4.0	139	1.31	0.6	1.4	0.8	30	<0.1	<0.1	<0.1	31	0.20	0.012	6

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Project: Princeton
 Report Date: October 22, 2011

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CERTIFICATE OF ANALYSIS

VAN11005422.1

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	
PP11 RP328	Soil			29	0.37	101	0.071	2	1.30	0.025	0.10	<0.1	0.01	2.7	<0.1	<0.05	4	<0.5	<0.2
PP11 RP329	Soil			24	0.24	83	0.072	<1	1.17	0.027	0.06	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
PP11 RP330	Soil			31	0.27	152	0.083	<1	2.02	0.020	0.10	<0.1	0.01	2.5	<0.1	<0.05	6	<0.5	<0.2
PP11 RP331	Soil			44	0.51	141	0.078	1	1.66	0.022	0.13	<0.1	0.02	4.3	<0.1	<0.05	5	<0.5	<0.2
PP11 RP332	Soil			38	0.44	149	0.082	<1	1.65	0.022	0.13	<0.1	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
PP11 RP333	Soil			27	0.17	92	0.075	<1	1.88	0.016	0.05	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5	<0.2
PP11 RP334	Soil			46	0.43	169	0.086	<1	1.84	0.018	0.12	<0.1	0.01	3.8	0.1	<0.05	5	<0.5	<0.2
PP11 RP335	Soil			37	0.33	151	0.084	1	1.98	0.017	0.09	<0.1	0.02	3.0	<0.1	<0.05	6	<0.5	<0.2
PP11 RP336	Soil			28	0.24	253	0.101	<1	2.57	0.022	0.10	<0.1	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
PP11 RP337	Soil			18	0.15	160	0.080	1	1.91	0.017	0.14	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
PP11 RP338	Soil			27	0.25	124	0.083	1	1.37	0.020	0.16	<0.1	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PP11 RP339	Soil			20	0.14	105	0.056	1	0.72	0.018	0.06	<0.1	<0.01	1.2	<0.1	<0.05	3	<0.5	<0.2
PP11 RP340	Soil			20	0.14	120	0.061	<1	1.04	0.017	0.07	<0.1	<0.01	1.2	<0.1	<0.05	4	<0.5	<0.2
PP11 RP341	Soil			48	0.36	121	0.076	<1	1.31	0.023	0.12	<0.1	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
PP11 RP342	Soil			35	0.25	100	0.073	<1	1.09	0.020	0.06	<0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PP11 RP343	Soil			33	0.22	88	0.065	<1	1.07	0.017	0.05	<0.1	<0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
PP11 RP344	Soil			27	0.17	77	0.056	<1	0.91	0.016	0.03	<0.1	<0.01	1.1	<0.1	<0.05	3	<0.5	<0.2
PP11 RP345	Soil			24	0.16	107	0.059	<1	1.43	0.015	0.04	<0.1	0.02	1.2	<0.1	<0.05	4	<0.5	<0.2
PP11 RP346	Soil			49	0.44	117	0.064	<1	1.34	0.019	0.05	<0.1	0.01	2.9	<0.1	<0.05	4	<0.5	<0.2
PP11 RP347	Soil			28	0.23	68	0.065	<1	1.17	0.019	0.04	<0.1	0.02	1.4	<0.1	<0.05	3	<0.5	<0.2
PP11 RP348	Soil			38	0.27	158	0.066	<1	1.83	0.018	0.04	<0.1	0.02	2.1	<0.1	<0.05	6	<0.5	<0.2
PP11 RP349	Soil			27	0.19	106	0.063	<1	1.49	0.018	0.04	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PP11 RP350	Soil			39	0.29	72	0.067	<1	0.96	0.024	0.05	<0.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
PMS-96	Rock Pulp			21	0.02	885	0.010	1	0.15	0.007	0.06	2.7	2.97	0.6	10.6	0.08	<1	2.1	<0.2
PP11 RP351	Soil			31	0.27	89	0.052	<1	1.08	0.019	0.04	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
PP11 RP352	Soil			22	0.20	68	0.046	<1	0.82	0.020	0.04	<0.1	0.03	1.3	<0.1	<0.05	3	<0.5	<0.2
PP11 RP353	Soil			19	0.14	92	0.055	<1	1.05	0.014	0.04	<0.1	0.02	0.9	<0.1	<0.05	4	<0.5	<0.2
PP11 RP354	Soil			36	0.25	89	0.065	1	0.96	0.022	0.05	<0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
PP11 RP355	Soil			28	0.22	90	0.058	<1	0.84	0.019	0.05	<0.1	0.02	1.9	<0.1	<0.05	3	0.6	<0.2
PP11 RP356	Soil			34	0.28	81	0.068	<1	0.96	0.019	0.06	<0.1	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2

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Project: Princeton

Report Date: October 22, 2011

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CERTIFICATE OF ANALYSIS

VAN11005422.1

Method Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	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		
PP11 RP357	Soil	0.1	8.4	3.1	23	<0.1	14.1	3.5	93	1.06	0.6	<0.5	0.6	24	<0.1	<0.1	0.1	26	0.13	0.021	5
PP11 RP358	Soil	0.4	12.5	4.3	47	<0.1	23.0	6.7	219	1.61	1.2	<0.5	1.2	18	<0.1	<0.1	<0.1	36	0.12	0.112	4
PP11 RP359	Soil	0.3	14.0	3.7	38	<0.1	24.7	6.2	146	1.60	0.9	0.6	1.2	27	<0.1	<0.1	<0.1	36	0.15	0.047	5
PP11 RP360	Soil	0.4	17.8	4.6	49	<0.1	25.3	6.2	156	1.68	1.2	2.6	1.3	30	<0.1	<0.1	<0.1	39	0.16	0.095	6
PP11 RP361	Soil	0.3	10.3	3.7	28	<0.1	16.3	4.8	98	1.36	0.9	<0.5	0.8	20	<0.1	<0.1	<0.1	33	0.12	0.052	4
PP11 RP362	Soil	0.2	12.2	4.1	42	<0.1	20.2	5.6	220	1.42	<0.5	<0.5	1.1	26	<0.1	<0.1	<0.1	34	0.16	0.025	6
PP11 RP363	Soil	0.3	15.4	6.5	43	0.1	14.2	7.6	163	1.95	0.5	<0.5	1.4	51	<0.1	<0.1	<0.1	51	0.29	0.073	4
PP11 RP364	Soil	0.3	15.5	4.7	38	<0.1	14.0	6.0	210	1.82	0.8	0.6	1.5	43	<0.1	<0.1	<0.1	55	0.24	0.022	6
PP11 RP365	Soil	0.4	10.1	4.4	50	0.1	15.0	5.6	135	1.53	<0.5	<0.5	1.0	26	<0.1	<0.1	<0.1	37	0.13	0.135	2
PP11 RP366	Soil	0.3	8.8	3.8	45	<0.1	14.2	5.6	127	1.51	<0.5	<0.5	1.1	27	<0.1	<0.1	<0.1	43	0.15	0.118	3
PP11 RP367	Soil	0.3	7.9	3.3	42	<0.1	12.1	4.9	118	1.37	<0.5	0.6	0.8	30	<0.1	<0.1	<0.1	39	0.15	0.100	3
PP11 RP368	Soil	0.5	14.9	5.5	54	<0.1	22.6	7.5	222	2.06	1.1	2.5	1.5	46	<0.1	<0.1	0.2	47	0.24	0.099	5
PP11 RP369	Soil	0.3	11.1	3.5	35	<0.1	12.2	4.0	155	1.38	<0.5	3.0	0.7	31	<0.1	<0.1	<0.1	36	0.18	0.026	4
PP11 RP370	Soil	0.3	12.6	5.1	46	<0.1	19.2	6.2	235	1.83	<0.5	1.5	1.2	45	<0.1	<0.1	<0.1	42	0.25	0.054	3
PP11 RP371	Soil	0.3	8.5	4.0	57	<0.1	14.7	5.2	433	1.40	<0.5	<0.5	0.9	37	<0.1	<0.1	<0.1	37	0.23	0.071	3
PP11 RP372	Soil	0.3	13.6	3.6	39	<0.1	15.8	4.6	307	1.59	<0.5	<0.5	1.1	36	<0.1	<0.1	<0.1	46	0.21	0.017	7
PP11 RP373	Soil	0.3	9.3	3.3	37	<0.1	16.2	5.7	172	1.65	<0.5	0.9	0.9	32	<0.1	<0.1	<0.1	43	0.17	0.022	3
PP11 RP374	Soil	0.3	15.2	3.8	46	<0.1	16.4	5.4	197	1.88	<0.5	1.5	1.1	42	<0.1	<0.1	<0.1	51	0.24	0.029	4
PP11 RP375	Soil	0.2	11.5	5.0	47	<0.1	15.4	6.3	177	1.83	<0.5	0.9	1.2	44	<0.1	<0.1	<0.1	49	0.22	0.033	4
PP11 RP376	Soil	0.2	8.9	4.7	55	<0.1	13.9	4.1	266	1.34	<0.5	2.0	0.9	31	<0.1	<0.1	0.1	30	0.16	0.029	3
PP11 RP377	Soil	0.2	10.6	4.3	42	<0.1	17.4	5.9	274	1.66	<0.5	<0.5	1.3	43	<0.1	<0.1	0.1	41	0.20	0.021	5
PP11 RP378	Soil	0.2	9.6	4.1	46	<0.1	17.6	4.9	207	1.67	<0.5	1.3	1.3	38	<0.1	<0.1	<0.1	42	0.17	0.025	4
PP11 RP379	Soil	0.3	11.1	4.3	46	<0.1	18.9	5.9	237	1.66	<0.5	0.9	1.1	39	<0.1	<0.1	0.1	39	0.18	0.027	4
PP11 RP380	Soil	0.3	8.3	3.6	33	<0.1	14.4	5.2	247	1.51	<0.5	2.4	0.9	37	<0.1	<0.1	<0.1	39	0.17	0.022	4
PP11 RP381	Soil	0.4	14.7	4.8	47	<0.1	20.9	6.9	309	1.82	<0.5	2.0	1.6	39	<0.1	<0.1	<0.1	49	0.27	0.022	7
PP11 RP382	Soil	0.3	13.3	3.6	38	<0.1	17.9	6.0	218	1.75	<0.5	15.2	1.1	37	<0.1	<0.1	<0.1	46	0.22	0.022	5
PP11 RP383	Soil	0.4	8.2	4.4	39	0.1	17.9	4.9	213	1.42	0.5	2.5	0.7	31	<0.1	<0.1	<0.1	34	0.17	0.071	3
PP11 RP384	Soil	0.5	11.5	4.2	37	<0.1	22.9	5.6	221	1.61	<0.5	1.5	1.0	34	<0.1	0.2	<0.1	43	0.20	0.023	4
PP11 RP385	Soil	0.2	47.2	5.9	41	0.3	30.2	4.6	320	1.80	1.7	6.7	3.1	75	<0.1	0.1	0.1	41	0.44	0.027	25
PP11 RP386	Soil	0.2	16.7	5.0	37	<0.1	20.0	4.4	181	1.51	0.9	9.0	1.4	42	<0.1	0.1	0.1	42	0.27	0.018	6

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Project: Princeton
 Report Date: October 22, 2011

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CERTIFICATE OF ANALYSIS

VAN11005422.1

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		
PP11 RP357	Soil	20	0.16	86	0.058	<1	0.94	0.018	0.04	<0.1	0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
PP11 RP358	Soil	27	0.23	111	0.068	1	1.67	0.017	0.04	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PP11 RP359	Soil	38	0.31	173	0.067	<1	1.66	0.016	0.05	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
PP11 RP360	Soil	35	0.29	121	0.071	<1	1.74	0.017	0.04	<0.1	0.02	1.8	<0.1	<0.05	5	0.5	<0.2
PP11 RP361	Soil	33	0.25	68	0.062	<1	1.03	0.014	0.05	<0.1	0.01	1.4	<0.1	<0.05	4	<0.5	<0.2
PP11 RP362	Soil	39	0.27	95	0.059	<1	1.26	0.015	0.06	<0.1	0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
PP11 RP363	Soil	20	0.51	248	0.095	1	2.24	0.020	0.14	<0.1	<0.01	3.1	0.1	<0.05	7	<0.5	<0.2
PP11 RP364	Soil	24	0.42	131	0.102	<1	1.66	0.034	0.12	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
PP11 RP365	Soil	19	0.22	126	0.081	<1	1.79	0.018	0.07	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11 RP366	Soil	24	0.27	99	0.081	<1	1.47	0.019	0.05	<0.1	<0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
PP11 RP367	Soil	22	0.26	95	0.066	<1	1.41	0.021	0.05	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
PP11 RP368	Soil	26	0.39	154	0.089	4	2.18	0.024	0.14	<0.1	0.01	2.2	<0.1	0.10	6	<0.5	<0.2
PP11 RP369	Soil	16	0.21	60	0.071	4	1.30	0.027	0.07	<0.1	0.01	1.9	<0.1	0.09	4	<0.5	<0.2
PP11 RP370	Soil	32	0.32	150	0.089	3	2.11	0.028	0.14	<0.1	0.01	1.9	<0.1	0.05	5	<0.5	<0.2
PP11 RP371	Soil	20	0.24	123	0.090	4	1.73	0.028	0.13	<0.1	0.02	1.7	<0.1	0.07	5	<0.5	<0.2
PP11 RP372	Soil	31	0.30	74	0.092	2	1.28	0.032	0.11	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
PP11 RP373	Soil	49	0.25	114	0.097	3	1.38	0.030	0.12	<0.1	0.01	1.5	<0.1	0.05	4	<0.5	<0.2
PP11 RP374	Soil	47	0.37	109	0.109	3	1.56	0.026	0.15	<0.1	0.03	2.1	0.1	0.06	5	<0.5	<0.2
PP11 RP375	Soil	33	0.32	170	0.114	3	2.44	0.035	0.12	<0.1	0.01	2.6	0.1	<0.05	7	<0.5	<0.2
PP11 RP376	Soil	19	0.21	133	0.092	3	1.96	0.026	0.12	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
PP11 RP377	Soil	39	0.26	181	0.112	3	1.83	0.031	0.13	<0.1	0.01	2.5	0.1	0.05	5	<0.5	<0.2
PP11 RP378	Soil	37	0.22	185	0.103	2	1.68	0.028	0.12	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
PP11 RP379	Soil	37	0.26	141	0.097	2	1.64	0.032	0.15	<0.1	<0.01	2.1	0.1	<0.05	5	<0.5	<0.2
PP11 RP380	Soil	37	0.27	115	0.087	2	1.24	0.034	0.14	<0.1	0.01	1.8	0.1	<0.05	4	<0.5	<0.2
PP11 RP381	Soil	39	0.35	140	0.108	5	1.62	0.040	0.20	<0.1	0.01	3.3	0.2	0.05	5	<0.5	<0.2
PP11 RP382	Soil	29	0.34	125	0.094	1	1.28	0.029	0.18	<0.1	0.01	2.5	0.1	<0.05	4	<0.5	<0.2
PP11 RP383	Soil	20	0.21	137	0.075	1	1.67	0.022	0.09	<0.1	0.02	1.4	<0.1	<0.05	5	<0.5	<0.2
PP11 RP384	Soil	33	0.35	113	0.089	1	1.55	0.024	0.13	<0.1	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
PP11 RP385	Soil	39	0.43	162	0.075	1	1.80	0.042	0.11	<0.1	0.03	5.7	0.1	<0.05	5	<0.5	<0.2
PP11 RP386	Soil	31	0.38	116	0.095	1	1.61	0.028	0.12	<0.1	0.02	3.0	<0.1	<0.05	4	<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
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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	%	%	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
PP11 RP387	Soil	<0.1	11.1	5.2	21	<0.1	13.7	2.6	114	1.04	0.8	2.8	0.9	30	<0.1	<0.1	0.1	23	0.17	0.010	4
PP11 RP388	Soil	0.5	9.1	4.8	38	<0.1	15.9	4.4	191	1.29	1.0	<0.5	1.0	18	<0.1	<0.1	<0.1	33	0.12	0.128	3
PP11 RP389	Soil	0.3	12.7	3.3	30	<0.1	23.0	4.2	114	1.39	0.6	3.3	0.6	27	<0.1	<0.1	<0.1	35	0.18	0.020	4
PP11 RP390	Soil	0.5	10.1	4.0	36	<0.1	25.2	5.2	137	1.54	0.7	15.2	0.9	20	<0.1	<0.1	<0.1	37	0.12	0.129	3



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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
PP11 RP387	Soil	21	0.23	101	0.065	2	1.25	0.031	0.06	<0.1	0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
PP11 RP388	Soil	17	0.16	74	0.070	2	1.64	0.017	0.04	<0.1	0.03	1.2	<0.1	<0.05	5	<0.5	<0.2
PP11 RP389	Soil	34	0.27	78	0.069	2	1.25	0.027	0.05	<0.1	0.02	1.5	<0.1	<0.05	4	<0.5	<0.2
PP11 RP390	Soil	29	0.18	100	0.069	2	1.46	0.019	0.05	<0.1	0.02	1.3	<0.1	<0.05	5	<0.5	<0.2



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QUALITY CONTROL REPORT

VAN11005422.1

Method	Analyte	Unit	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
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	0.1	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																						
PP11 RP162	Soil		0.4	12.9	4.3	40	<0.1	14.5	7.3	357	1.82	<0.5	<0.5	1.8	39	<0.1	<0.1	<0.1	52	0.24	0.025	8
REP PP11 RP162	QC		0.3	12.1	4.2	38	<0.1	13.5	7.0	349	1.74	<0.5	<0.5	1.8	40	<0.1	<0.1	<0.1	49	0.22	0.022	8
PP11 RP179	Soil		0.4	10.3	4.3	52	<0.1	15.7	4.0	102	1.25	1.4	4.6	0.8	22	<0.1	0.2	<0.1	34	0.17	0.014	4
REP PP11 RP179	QC		0.4	9.6	4.4	49	<0.1	15.0	4.1	101	1.20	1.2	4.1	0.8	22	<0.1	0.2	<0.1	34	0.17	0.015	4
PP11 RP188	Soil		0.5	15.1	6.3	41	<0.1	41.5	7.2	320	1.73	0.8	<0.5	1.0	35	<0.1	<0.1	0.1	36	0.21	0.082	3
REP PP11 RP188	QC		0.5	14.8	6.3	40	<0.1	41.4	7.0	322	1.72	0.9	<0.5	1.0	34	<0.1	<0.1	0.1	36	0.22	0.082	3
PP11 RP219	Soil		0.4	20.2	4.0	40	<0.1	20.1	7.6	331	1.97	0.6	<0.5	1.1	51	<0.1	<0.1	<0.1	61	0.32	0.032	15
REP PP11 RP219	QC		0.4	19.4	4.0	38	<0.1	19.3	7.2	321	1.90	0.8	<0.5	1.2	50	<0.1	<0.1	<0.1	60	0.32	0.032	15
PP11 RP237	Soil		0.2	8.8	3.7	45	<0.1	13.0	4.7	216	1.49	<0.5	<0.5	1.3	34	<0.1	<0.1	<0.1	36	0.17	0.018	9
REP PP11 RP237	QC		0.2	8.7	3.5	45	<0.1	13.1	5.0	209	1.48	<0.5	0.6	1.3	35	<0.1	<0.1	<0.1	36	0.18	0.018	9
PP11 RP254	Soil		0.2	9.2	3.9	31	<0.1	15.3	4.1	108	1.21	0.9	0.7	0.8	25	<0.1	<0.1	<0.1	29	0.15	0.047	5
REP PP11 RP254	QC		0.1	9.5	3.7	30	<0.1	16.2	4.4	109	1.24	0.8	1.0	0.8	25	<0.1	<0.1	<0.1	30	0.15	0.050	6
PP11 RP267	Soil		0.3	30.2	4.6	106	<0.1	22.5	17.4	1254	3.83	2.5	1.1	5.3	150	0.1	0.2	0.1	109	1.49	0.181	16
REP PP11 RP267	QC		0.3	28.6	4.3	99	<0.1	23.0	17.2	1229	3.66	2.6	1.1	5.5	147	0.1	0.2	0.1	104	1.42	0.176	16
PP11 RP276	Soil		0.4	28.3	4.5	60	<0.1	35.9	14.6	546	3.30	2.3	1.2	4.8	135	<0.1	0.1	<0.1	98	0.63	0.106	16
REP PP11 RP276	QC		0.4	30.0	4.6	65	<0.1	38.4	15.2	558	3.39	2.4	1.1	5.0	140	<0.1	0.1	<0.1	101	0.66	0.107	17
PP11 RP293	Soil		0.4	4.8	4.6	21	<0.1	5.1	2.5	49	1.23	1.1	0.9	1.0	11	<0.1	<0.1	0.1	34	0.05	0.124	3
REP PP11 RP293	QC		0.4	5.2	4.7	21	<0.1	4.9	2.7	50	1.25	0.9	<0.5	0.9	11	<0.1	<0.1	0.1	35	0.05	0.132	3
PP11 RP316	Soil		0.2	18.7	6.6	19	<0.1	14.0	5.5	127	1.41	0.9	<0.5	2.5	56	<0.1	<0.1	0.1	37	0.30	0.031	15
REP PP11 RP316	QC		0.1	17.9	6.7	19	<0.1	13.4	5.4	126	1.40	0.8	<0.5	2.4	56	<0.1	<0.1	0.1	37	0.29	0.031	15
PP11 RP337	Soil		0.3	9.1	5.0	44	0.1	26.3	3.6	86	1.28	0.9	2.1	1.5	19	<0.1	<0.1	0.1	23	0.10	0.183	4
REP PP11 RP337	QC		0.2	8.9	5.2	45	0.1	26.5	3.5	88	1.30	1.1	<0.5	1.5	19	<0.1	<0.1	0.1	24	0.10	0.187	4
PP11 RP349	Soil		0.2	12.6	4.4	39	<0.1	24.3	3.9	58	1.38	1.0	<0.5	1.0	25	<0.1	<0.1	<0.1	31	0.13	0.129	4
REP PP11 RP349	QC		0.2	12.0	4.1	36	<0.1	23.9	3.8	54	1.31	1.4	<0.5	0.9	24	<0.1	<0.1	<0.1	27	0.11	0.120	4
PP11 RP380	Soil		0.3	8.3	3.6	33	<0.1	14.4	5.2	247	1.51	<0.5	2.4	0.9	37	<0.1	<0.1	<0.1	39	0.17	0.022	4
REP PP11 RP380	QC		0.4	8.4	3.5	34	<0.1	16.1	5.2	244	1.48	<0.5	20.1	0.9	39	<0.1	<0.1	<0.1	42	0.20	0.022	4
Reference Materials																						
STD DS8	Standard		12.7	113.3	128.2	319	1.8	38.8	7.4	626	2.49	25.4	132.5	6.4	68	2.4	6.0	6.8	42	0.69	0.081	14



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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																	
PP11 RP162	Soil	26	0.41	60	0.077	<1	1.13	0.031	0.08	<0.1	0.02	5.6	<0.1	<0.05	3	<0.5	<0.2
REP PP11 RP162	QC	25	0.40	60	0.075	1	1.12	0.030	0.08	<0.1	0.02	5.3	<0.1	<0.05	3	<0.5	<0.2
PP11 RP179	Soil	21	0.29	107	0.073	<1	1.19	0.022	0.07	<0.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
REP PP11 RP179	QC	21	0.28	103	0.069	<1	1.15	0.020	0.06	<0.1	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
PP11 RP188	Soil	29	0.39	127	0.073	1	2.14	0.015	0.07	<0.1	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2
REP PP11 RP188	QC	29	0.40	130	0.076	1	2.15	0.020	0.07	<0.1	0.03	2.3	<0.1	<0.05	6	<0.5	<0.2
PP11 RP219	Soil	26	0.44	61	0.089	2	1.39	0.028	0.11	<0.1	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
REP PP11 RP219	QC	26	0.42	63	0.087	1	1.36	0.028	0.11	<0.1	0.02	4.2	<0.1	<0.05	4	<0.5	<0.2
PP11 RP237	Soil	25	0.21	110	0.083	1	1.32	0.020	0.08	<0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
REP PP11 RP237	QC	25	0.21	105	0.086	<1	1.33	0.019	0.07	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
PP11 RP254	Soil	24	0.18	108	0.064	<1	1.24	0.019	0.03	<0.1	0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
REP PP11 RP254	QC	25	0.19	105	0.067	<1	1.28	0.025	0.03	<0.1	0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
PP11 RP267	Soil	29	1.10	232	0.141	7	1.89	0.037	0.57	0.1	<0.01	6.1	0.2	<0.05	7	<0.5	<0.2
REP PP11 RP267	QC	27	1.04	225	0.128	7	1.77	0.035	0.54	0.1	<0.01	5.4	0.2	<0.05	7	<0.5	<0.2
PP11 RP276	Soil	38	1.13	227	0.214	2	1.94	0.022	0.59	<0.1	0.02	5.5	0.4	<0.05	7	<0.5	<0.2
REP PP11 RP276	QC	39	1.17	239	0.222	2	2.00	0.022	0.62	<0.1	0.02	5.7	0.4	<0.05	7	<0.5	<0.2
PP11 RP293	Soil	9	0.08	37	0.073	2	1.30	0.014	0.02	<0.1	0.03	0.8	<0.1	<0.05	6	<0.5	<0.2
REP PP11 RP293	QC	9	0.08	38	0.077	2	1.36	0.015	0.02	<0.1	0.03	0.9	<0.1	<0.05	6	<0.5	<0.2
PP11 RP316	Soil	42	0.35	75	0.099	<1	1.47	0.024	0.07	<0.1	0.02	5.5	<0.1	<0.05	4	<0.5	<0.2
REP PP11 RP316	QC	42	0.34	74	0.098	1	1.47	0.024	0.07	<0.1	0.02	5.4	<0.1	<0.05	4	<0.5	<0.2
PP11 RP337	Soil	18	0.15	160	0.080	1	1.91	0.017	0.14	<0.1	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2
REP PP11 RP337	QC	18	0.16	164	0.084	<1	1.94	0.017	0.14	<0.1	0.02	1.8	<0.1	<0.05	6	<0.5	<0.2
PP11 RP349	Soil	27	0.19	106	0.063	<1	1.49	0.018	0.04	<0.1	0.01	1.9	<0.1	<0.05	5	<0.5	<0.2
REP PP11 RP349	QC	25	0.17	102	0.057	<1	1.36	0.015	0.04	<0.1	0.02	1.7	<0.1	<0.05	5	<0.5	<0.2
PP11 RP380	Soil	37	0.27	115	0.087	2	1.24	0.034	0.14	<0.1	0.01	1.8	0.1	<0.05	4	<0.5	<0.2
REP PP11 RP380	QC	39	0.27	117	0.100	3	1.32	0.039	0.15	<0.1	<0.01	2.2	0.1	0.07	4	<0.5	<0.2
Reference Materials																	
STD DS8	Standard	115	0.63	275	0.111	3	0.94	0.111	0.44	2.9	0.20	2.7	5.5	0.16	5	4.8	5.3

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



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 2446 Bidston Road
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Project: Princeton

Report Date: October 22, 2011

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QUALITY CONTROL REPORT

VAN11005422.1

		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	13.6	112.1	125.0	306	1.8	38.9	7.6	601	2.44	25.3	103.8	7.1	66	2.3	6.0	6.6	43	0.67	0.076	14
STD DS8	Standard	13.6	108.8	124.1	295	1.8	37.9	7.6	593	2.37	23.8	103.4	7.1	65	2.1	5.2	6.5	42	0.68	0.076	15
STD DS8	Standard	11.9	105.2	125.2	314	1.9	37.1	7.3	609	2.47	26.0	120.2	6.5	68	2.4	5.5	6.8	40	0.69	0.081	14
STD DS8	Standard	12.8	112.7	127.0	321	2.0	38.1	7.5	616	2.50	25.8	118.1	6.7	67	2.3	5.5	6.9	42	0.70	0.083	15
STD DS8	Standard	11.8	109.3	123.6	312	1.8	38.1	7.4	609	2.46	25.9	104.9	6.4	64	2.6	5.5	7.0	41	0.65	0.083	12
STD DS8	Standard	13.8	113.9	129.0	315	1.8	41.3	7.8	630	2.54	23.5	110.3	6.6	62	2.3	5.1	6.3	43	0.72	0.081	15
STD DS8	Standard	14.1	111.2	134.7	324	2.0	38.5	7.6	682	2.47	25.6	127.3	7.4	76	2.5	5.7	7.4	42	0.72	0.085	16
STD DS8 Expected		13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08	14.6
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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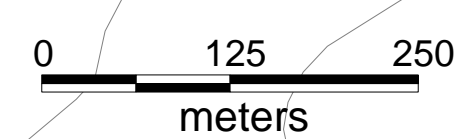
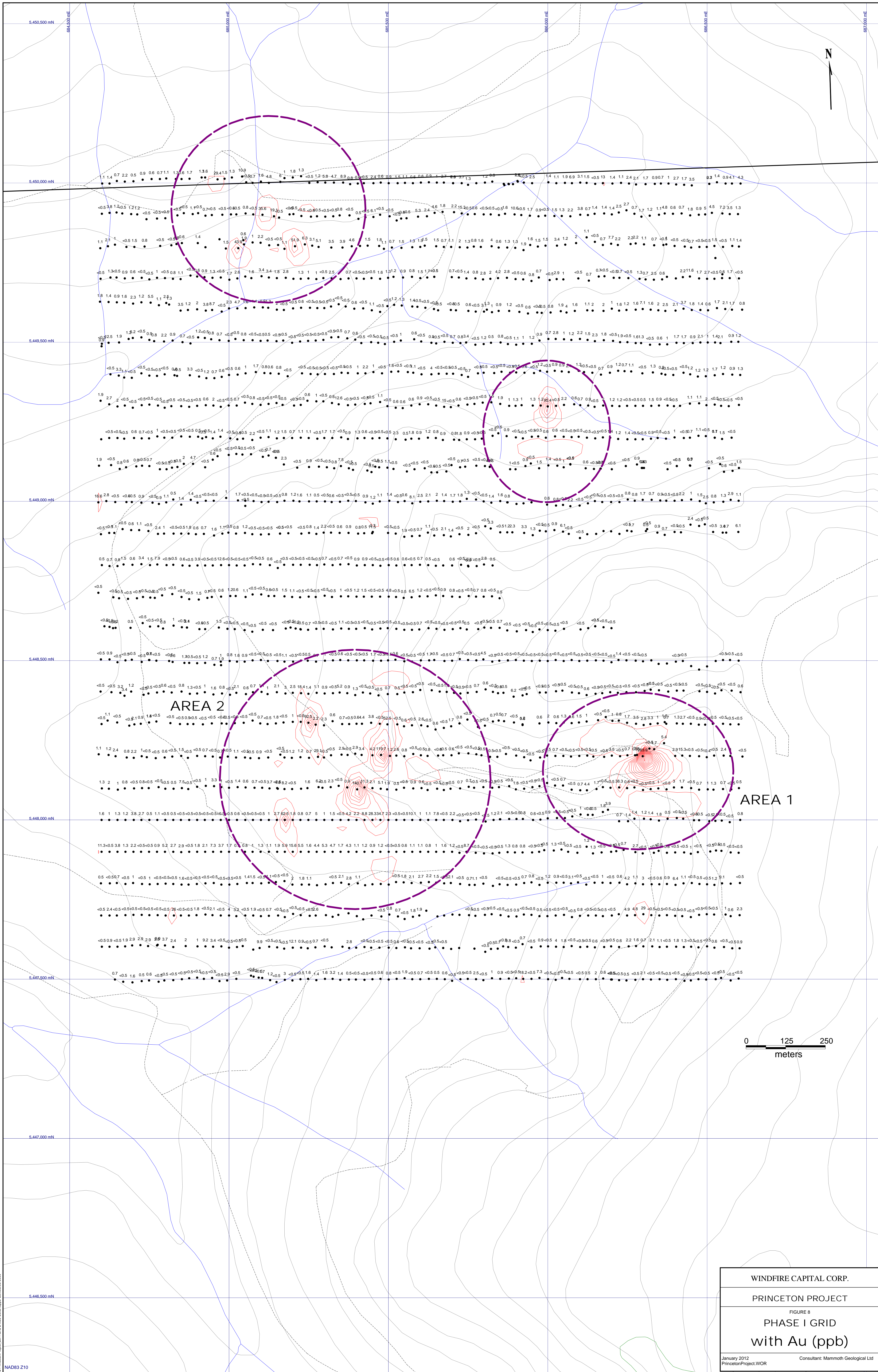
Project: Princeton
 Report Date: October 22, 2011

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QUALITY CONTROL REPORT

VAN11005422.1

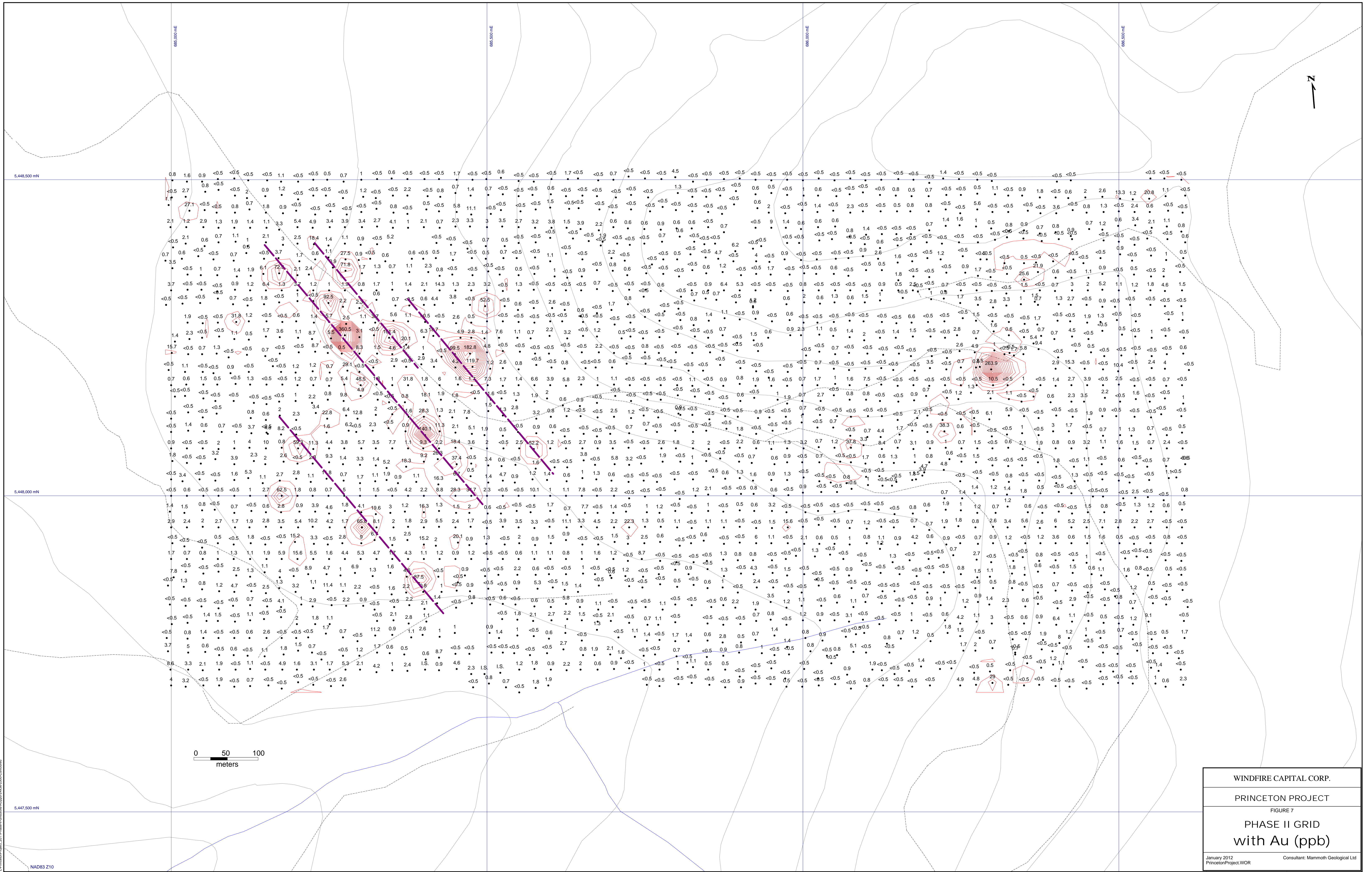
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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS8	Standard	118	0.60	273	0.122	3	0.88	0.089	0.41	3.1	0.22	2.1	5.3	0.14	4	5.5	4.7
STD DS8	Standard	117	0.59	257	0.121	3	0.88	0.083	0.40	3.0	0.21	2.0	5.3	0.17	4	4.9	4.4
STD DS8	Standard	111	0.62	278	0.111	2	0.90	0.093	0.43	3.0	0.18	2.0	5.6	0.13	5	5.1	5.4
STD DS8	Standard	120	0.62	282	0.121	2	0.94	0.093	0.44	2.9	0.20	2.3	5.5	0.17	4	5.2	4.6
STD DS8	Standard	114	0.61	273	0.110	2	0.88	0.085	0.42	3.0	0.21	2.0	5.4	0.16	4	5.2	4.7
STD DS8	Standard	129	0.65	269	0.115	3	0.94	0.092	0.40	3.2	0.21	2.2	5.5	0.19	5	5.3	5.1
STD DS8	Standard	115	0.65	286	0.113	4	0.99	0.101	0.46	3.2	0.20	2.2	5.6	0.18	5	5.7	6.3
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



WINDFIRE CAPITAL CORP.
PRINCETON PROJECT
FIGURE 8
PHASE I GRID
with Au (ppb)
January 2012 Princeton/Project.WOR
Consultant: Mammoth Geological Ltd

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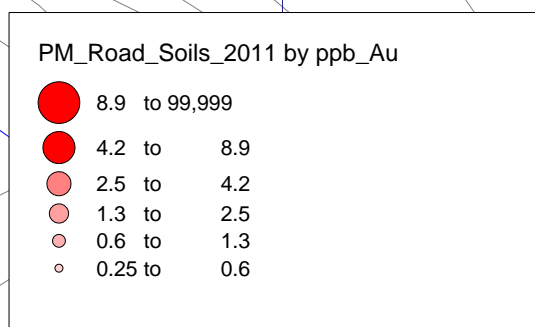
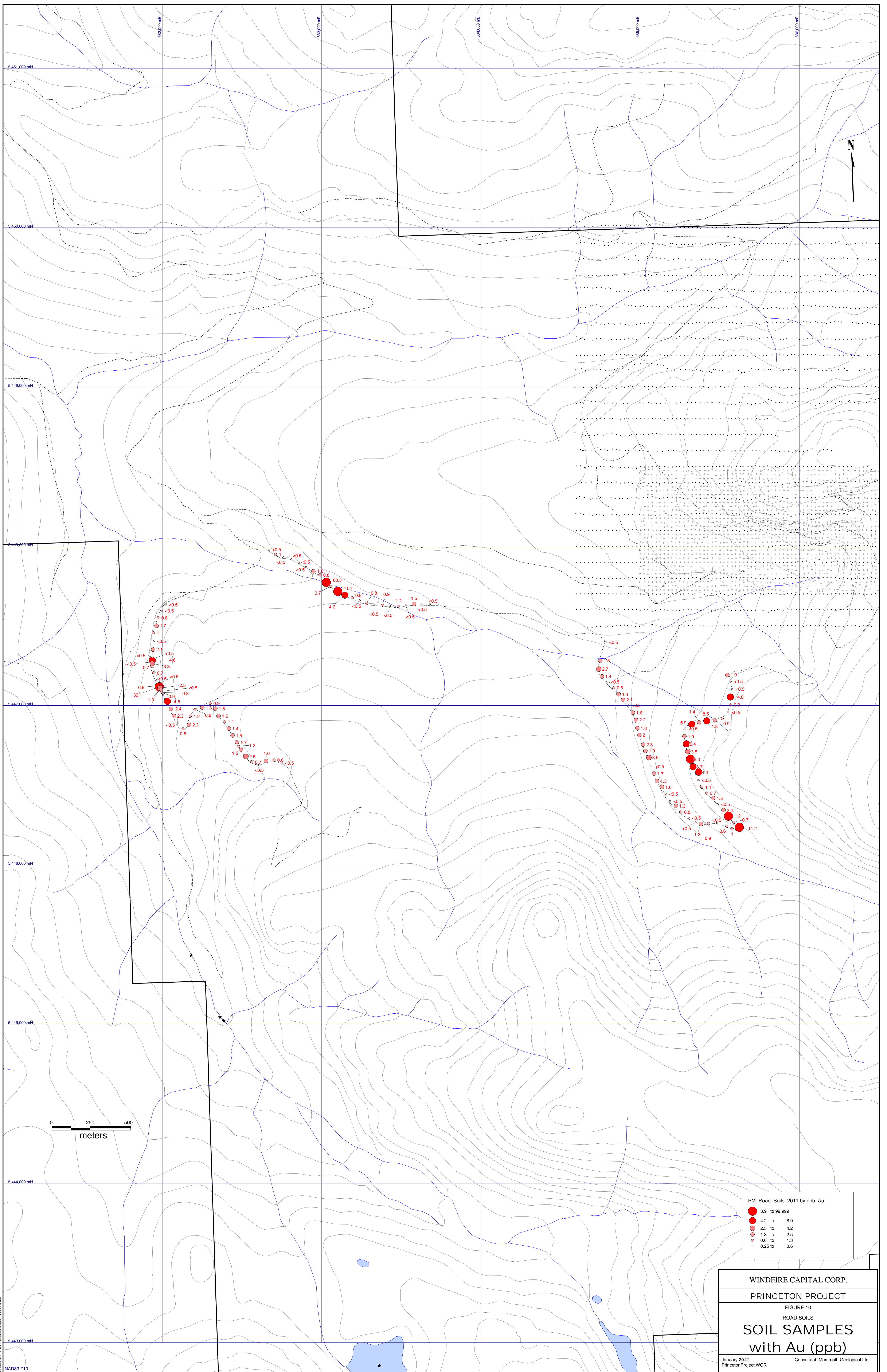
NAD83 Z10



WINDFIRE CAPITAL CORP.
 PRINCETON PROJECT
 FIGURE 7
 PHASE II GRID
 with Au (ppb)
 January 2012
 PrincetonProject.WOR
 Consultant: Mammoth Geological Ltd

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WINDFIRE CAPITAL CORP.
 PRINCETON PROJECT
 FIGURE 10
 ROAD SOILS
**SOIL SAMPLES
 with Au (ppb)**
 January 2012
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