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**	**$16,203.60**
Geochemical Sampling		

AUTHOR(S) RT Henneberry, GL Wesa

SIGNATURE(S) "signed and sealed"

NOTICE OF WORK NUMBER(S) / DATE(S)

YEAR OF WORK 2010

STATEMENT OF WORK – CASH PAYMENT EVENT NUMBERS / DATE(S) 4790133

PROPERTY NAME Placer Creek

CLAIM NAME(S) (on which work was done)
Placer Creek 1, Placer Creek 2

COMMODITIES SOUGHT Porphyry copper, Shear Hosted Gold

MINERAL INVENTORY MINFILE NUMBERS, IF KNOWN

MINING DIVISION Similkameen

NTS: 092H/01, 092H/02 TRIM 092H018, 092H028

LATITUDE LONGITUDE (at centre of work)
NORTHING 5451200 EASTING 680700 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)
same

MAILING ADDRESS

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size, attitude)
The claims are largely underlain by Triassic Nicola Group sediments and volcanics in the general vicinity of Cretaceous intrusives. A Mobile Metal Ion (MMI) survey was completed to fill in and expand grid
Two multi-element anomalous were detected. Further exploration is recommended.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS
30652, 31491

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (In Metric Units)	On Which Claims	Project Costs Apportioned
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	163	Placer Creek 1,2	
Silt			
Rock			
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	**$16,203.60**

MAMMOTH
GEOLOGICAL LTD.
2446 Bidston Road
Mill Bay, B.C. Canada V0R 2P4
Phone : (250) 743-8228 Fax : (250) 743-4430
email : mammothgeo@shaw.ca

2010 GEOCHEMICAL REPORT

PLACER CREEK PROJECT

Similkameen Mining Division
TRIM Sheet 092H018, 092H028
UTM (NAD 83) ZONE 10 680700E 5451200N

FOR

Mr. Sydney Wilson.
4766 West 4th Avenue
Vancouver, B.C. V6T 1C2

By: R.Tim Henneberry, P.Geo.
Gary L. Wesa, B.Sc., FGAC
October 15, 2010

SUMMARY

Mr. Sydney Wilson is exploring the Placer Creek property for its vein hosted, polymetallic precious metal potential. The 2850 hectare property is road accessible and lies 37 kilometres south of Princeton, British Columbia. The Placer Creek property claims are currently held by map staking by Mr. Sydney Wilson of Vancouver, B.C.

The Placer Creek Property is underlain by Triassic Nicola Group sediments and volcanics in proximity to Jurassic to Cretaceous intrusive rocks. As well, the old Silver Moon gold showing in the northwestern section portion of the property suggests the possibility of shear hosted vein gold mineralization.

Four additional MMI soil lines, comprising 136 soil geochemical samples, were established in 2010, following up on the 2009 three-line MMI grid. The three year MMI soil sampling program has been successful in locating two multi-element anomalies of significance:

- A linear, grid-wide Ag anomaly with weakly coincident lead and zinc anomaly measuring approximately 1300 metres long by 50 to 500 metres wide. This anomaly is open to the east and west.
- An Au anomaly presenting as a two line cluster anomaly measuring 250 metres wide by 300 metres long. Molybdenum is weakly coincident with the gold. This anomaly is open to the north and west.

It is recommended that the next phase of exploration on the Placer Creek property should consist of infill MMI soil sampling to tighten the grid line interval to 125 metres, for an overall total of 14 lines. An additional seven 1000 metre lines are required, with 25 metre sample intervals along each line, resulting in an additional 287 soil samples. The grid should also be prospected in detail, particularly in the anomalous areas.

The cost of the May 2010 exploration program was $16,203.60. Combining this sum with the cost of the 2008 MMI survey and 2009 prospecting and MMI surveys produces a current expenditure on the Placer Creek property totaling $48,424.86.

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICIES

INTRODUCTION

The purpose of this Technical Report is to compile the results of a 2010 MMI soil sampling program on the Placer Creek property for assessment credit. This report was commissioned by Mr. Sydney Wilson, the property owner.

While Mr. Gary Wesa, B.Sc., F.G.A.C., completed the work program and assisted in the writing of the report, R.Tim Henneberry, P.Geo., serves as the Qualified Person responsible for preparing the Technical Report.

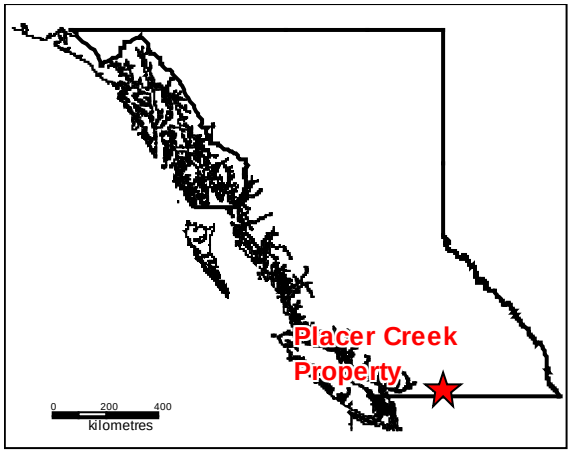
In preparing this report, the authors relied on geological reports listed in the References (Section 21) of this report and their years of extensive mineral exploration experience in British Columbia. Mr. Henneberry supervised the 2010 exploration program completed by Mammoth Geological Ltd of Mill Bay, B.C.

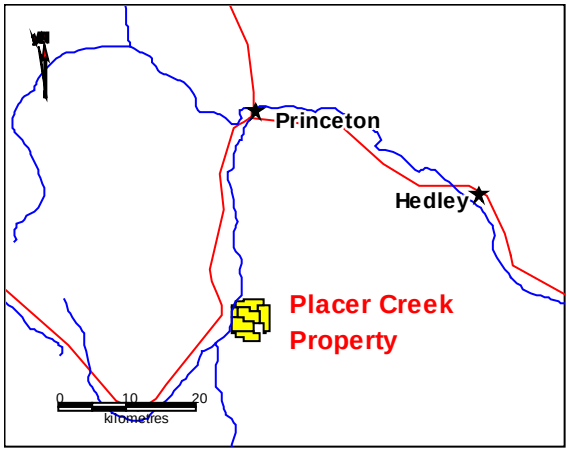
Mr. Henneberry has not yet visited the Placer Creek Property.

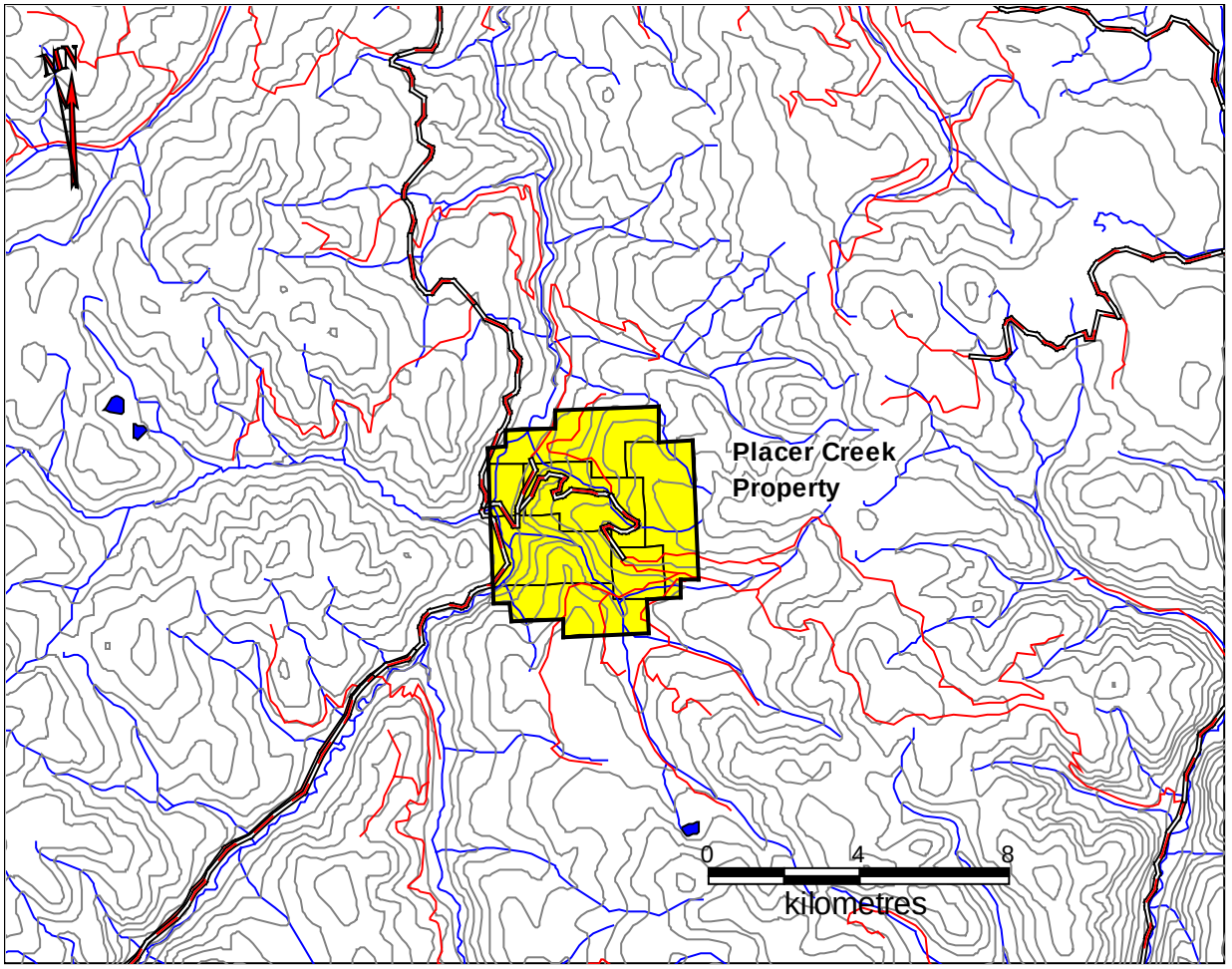
RELIANCE ON OTHER EXPERTS

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 the surrounding claims has been taken from the Mineral Titles Online database maintained by the British Columbia Ministry of Energy and Mines. The data on this site is assumed to be correct.

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







Projection is UTM NAD83 Zone 10

PLACER CREEK PROJECT
LOCATION
Figure 1

PROPERTY DESCRIPTION AND LOCATION

The Placer Creek Property, consisting of 7 claims totaling 2850.283 hectares, is situated on TRIM claim sheet 092H018 and 092H028 in the Similkameen Mining Division. The claims were acquired by map staking under the provincial Mineral Titles Online system. The geographic center of the property is approximately 680700E 5451200N in UTM ZONE 10 (NAD 83).

All claims are held 100% by Mr. Sydney Wilson of Vancouver, B.C. Assessment credits were also applied to additional contiguous claims held by Mr. Wilson as shown in the bottom section of Table 1 and also shown on Figure 2.

Table 1. List of Mineral Tenures

Tenure Number	Claim Name	Owner	Map Number	Issue Date	Good To Date	Area (ha)
577664	PLACER CREEK 1	129188 (100%)	092H	2008/mar/01	2012/may/01*	527.911
577665	PLACER CREEK 2	129188 (100%)	092H	2008/mar/01	2012/may/01*	527.780
577668	PLACER CREEK 4	129188 (100%)	092H	2008/mar/01	2012/may/01*	527.795
577670	PLACER CREEK 5	129188 (100%)	092H	2008/mar/01	2012/may/01*	527.621
590051	PLACER CREEK WEST	129188 (100%)	092H	2008/aug/16	2012/may/01*	126.659
629212	PLACER CREEK EAST	129188 (100%)	092H	2009/sep/06	2012/may/01*	190.069
712302	PLACER CREEK 3	129188 (100%)	092H	2010/mar/03	2012/may/01*	422.449
7	Claims					2850.283

* pending approval of 2009 work program for assessment credit

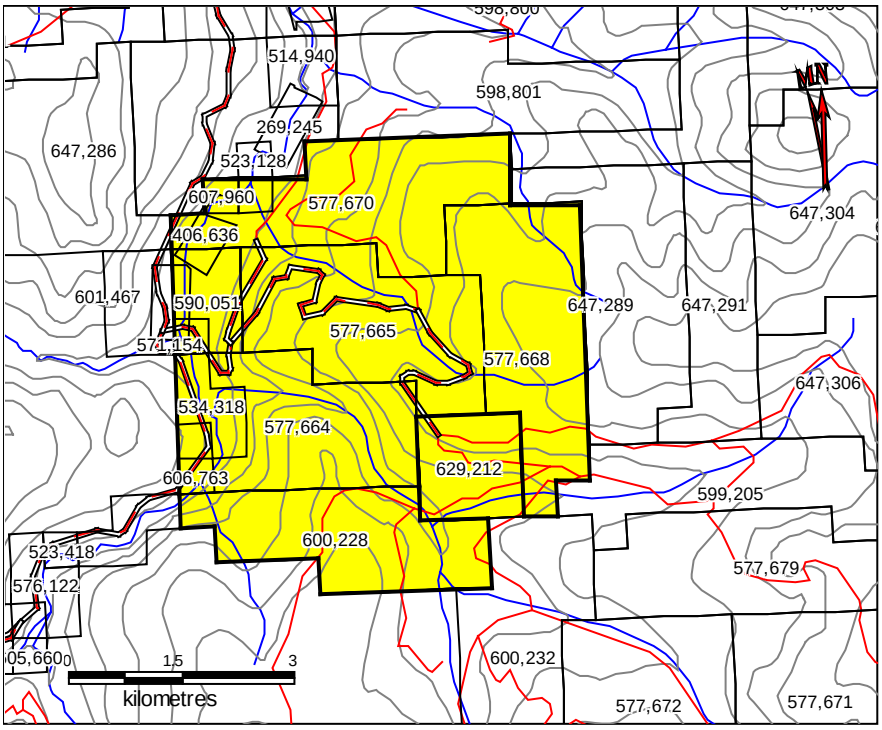
There is currently no known bedrock mineralization on the Placer Creek property. There are three cluster MMI soil geochemical anomalies on the property as shown in Figure 5.

There are no environmental liabilities associated with the Placer Creek property to the best of the author's knowledge.

Should the next phase of MMI soil sampling be successful, then the following exploration programs on the Placer Creek property will consist of geophysics surveys and possibly mechanical trenching. An exploration permit is not required for ground geophysics unless it is an Induced Polarization (IP) survey. A permit to conduct an IP survey is usually acquired within a few months under the provincial Notice of Work program. A permit is required to conduct mechanical trenching and is usually acquired within a few months under the provincial Notice of Work program. A reclamation bond will generally be required before the work proposed in the permit can commence.

ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

The Placer Creek property is located 37 kilometres south of Princeton, British Columbia. Road access is via Highway 3 south from Princeton to Placer Mountain Forest Service Road a distance of approximately 37 kilometres. This forest service road and several active and abandoned spurs provide access to most of the property. The western boundary of the property parallels Highway 3 from kilometre 32 to 37. The first 5 kilometres of the Placer Mountain Forest Service Road transects across the property.



UTM NAD 83 Zone 10 Claim Location (092H018, 092H028)

Figure 2

Topographic relief on the Placer Creek property is moderate to steep with elevations ranging from 945 metres above sea level (ASL) at the Similkameen River on the western boundary of the property to 1700 metres ASL along the eastern boundary. Vegetation consists of thick stands of jack pine and spruce on north facing slopes with significantly sparser vegetation on the remaining slopes. The jack pine is falling victim to the Mountain Pine Beetle infestation. Underbrush is limited but heavy deadfall is prevalent in many areas. Rock outcrops are rare except along ridges, in road cuts and within incised valleys.

The climate in this region 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. Temperatures can dip to minus 20° Celsius for extended periods during the winter months.

The logistics of working in this part of the province are excellent. Gravel road access allows for easy movement of supplies and equipment. Heavy equipment, supplies and fuel, and accommodation are available in Princeton.

HISTORY

The British Columbia Ministry of Energy, Mines and Petroleum Resources MINFILE database indicates there has been some limited work completed on a series of shear zones hosting thin quartz veins along the Similkameen River on current tenure 590051 (MINFILE Number 092HSE071).

According to the British Columbia Ministry of Energy, Mines and Petroleum Resources Assessment Report Database the ground comprising the current Placer Creek property has no exploration history, however, there have been a few historical exploration programs conducted within 1-2 kilometres of the property.

Teknol Mining Co. Ltd. (Larsen, 1972) completed 32 line kilometres of VLF-EM and magnetometer surveys over the EE and Ram Claim groups, located about 1.5 kilometers north of current claim 577670. The VLF-EM survey identified a series of linear anomalies which probably reflects a conjugate fracture system or possibly some form of mineralized intrusion. The magnetometer survey delineated a relatively even distribution of anomalies suggesting the survey area is underlain by a single rock type.

Cascadia Resources Ltd. (Ramani, 1974) completed geological mapping and 34 line kilometres of geochemical soil sampling and magnetometer survey over the Holt and Davis claims during the summer of 1973. These claims were located approximately one kilometre east of the eastern boundary of current tenure 577668. A coincidental magnetic high and weak copper soil anomaly were located on the eastern edge of the property.

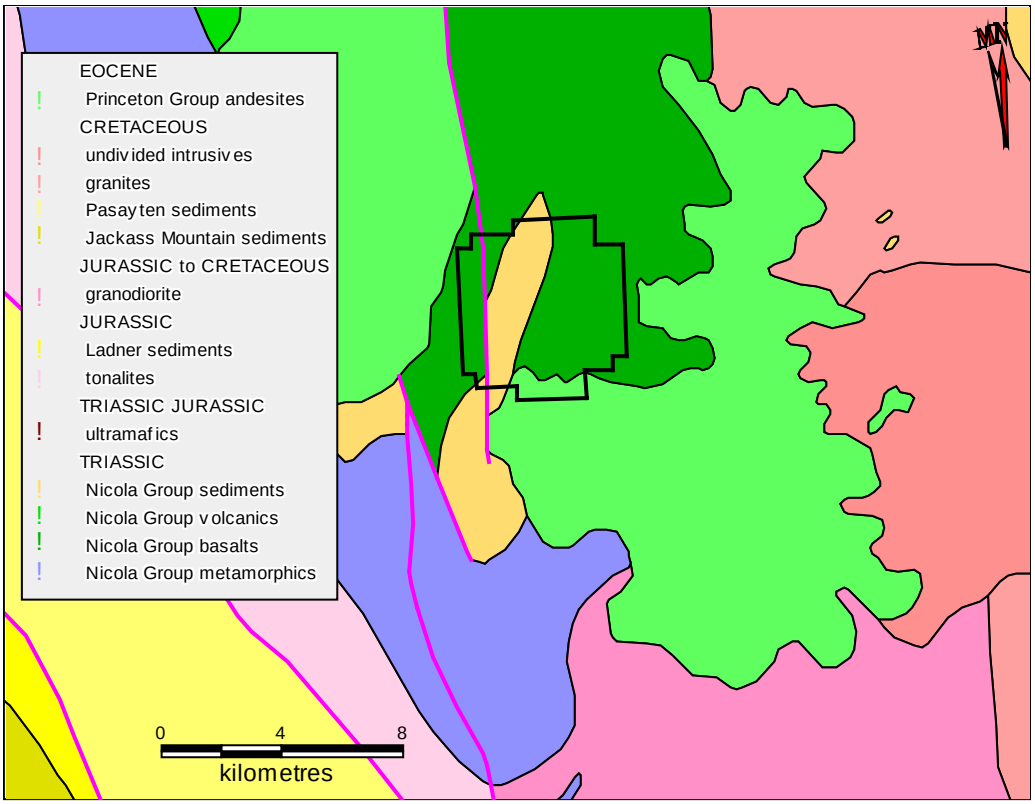
The Au 2 claim block, surrounded by current tenures 577668, 577665, 577664 and 577666, was examined in August 2007 by the property owner (Diakow, 2007). Soil sampling along roads traversing the property returned anomalous zinc and copper values which resulted in a recommendation of additional work.

A preliminary MMI soil geochemical survey was completed on the Placer Creek property in 2008 (Henneberry, 2009). Forty samples were collected along 6.8 line kilometres at 150 metre spacings on one north-south line and one east-west line that crossed at their centres. The copper, molybdenum, gold and zinc plots show considerable scatter across the lines. Silver and lead appear to be coincident over the north-central portion of the north-south line (900 lineal metres) and also over the west-central portion of the east-west line (1500 lineal metres).

A follow up MMI soil geochemical survey and limited prospecting was completed in 2009 (Butrenchuk et al, 2009). Three north-south oriented lines spaced 500 metres apart, ranging in length from 850 metres to 1050 metres, were sampled at 25 metre intervals, resulting in 120 samples. Three multi-element cluster anomalies were identified.

GEOLOGICAL SETTING
(Summarized from MINFILE 092HSE)

The Placer Creek property 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 comagmatic plutons of the Late Triassic and Early Jurassic Copper Mountain and Hedley intrusions that 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

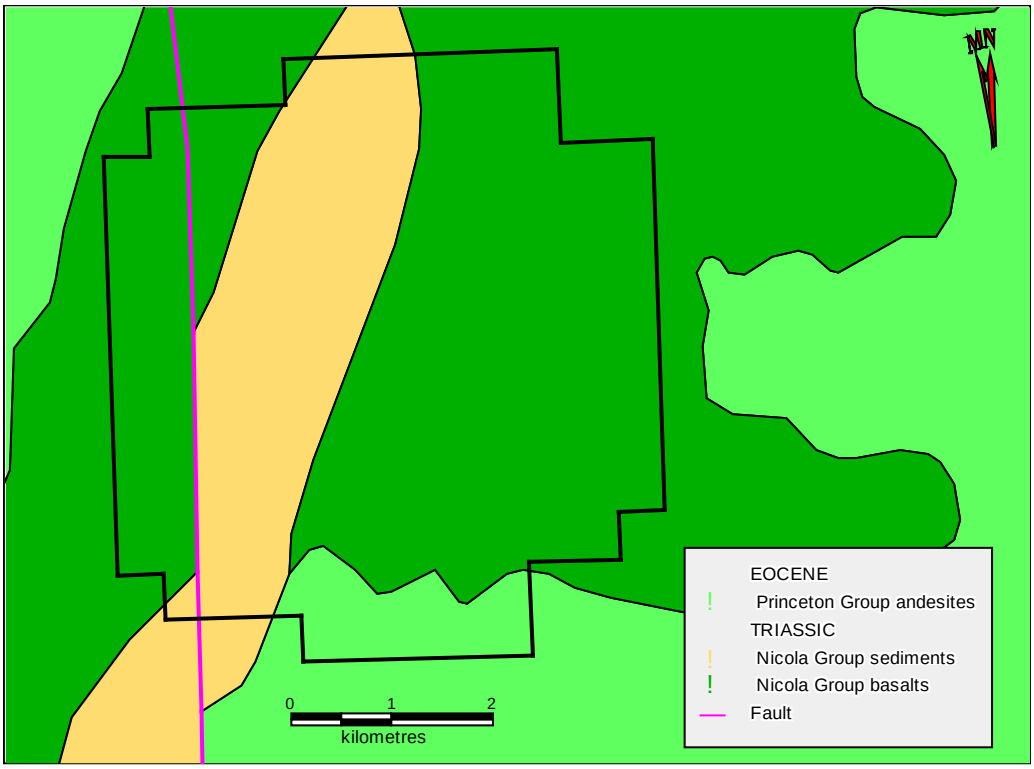
Regional Geology
Figure 3

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 grain 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, overlain by a thick section of coarse clastics of the partly coeval Cretaceous Jackass Mountain and Pasayten groups.

The oldest rocks in the Placer Creek area belong to the Triassic Nicola Group. These consist of basaltic and undivided volcanics which overlie clastic sediments. These rocks 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 by the Pasayten Fault and is underlain by clastic sediments of the Jurassic Ladner and Jackass Mountain Groups and the Cretaceous Pasayten Group.



UTM NAD 83 Zone 10
Geology from MapPlace

Preliminary Property Geology
Figure 4

Placer Creek Property Geology

Only reconnaissance geological mapping has been completed on the Placer Creek property.

The geological map of the area, from the British Columbia Ministry of Energy and Mines MapPlace website (Figure 4), shows that Placer Creek property is underlain largely by Nicola basalts, andesite, pyroclastic volcanics and clastic sediments. Andesites of the Eocene Princeton Group lie along the southern boundary of the claim group.

DEPOSIT TYPES

The Placer Creek property is being explored for polymetallic mineralized quartz veins. The following summary is condensed from British Columbia Ore Deposit Models (Lefebure and Church, 1996).

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 Proterozic or younger although they are mainly Cretaceous to Tertiary in British Columbia.

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 druzy. Veins may grade into broad zones of stockwork or breccia. Coarse grain sulphides occur as patches and pods, while 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 containing porphyry deposits.

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 with gold grades being normally low for the amount of sulphides present.

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

Black manganese oxide stains are common weathering products and can be used as guides 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 areas 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 4.0 g/t Au.

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

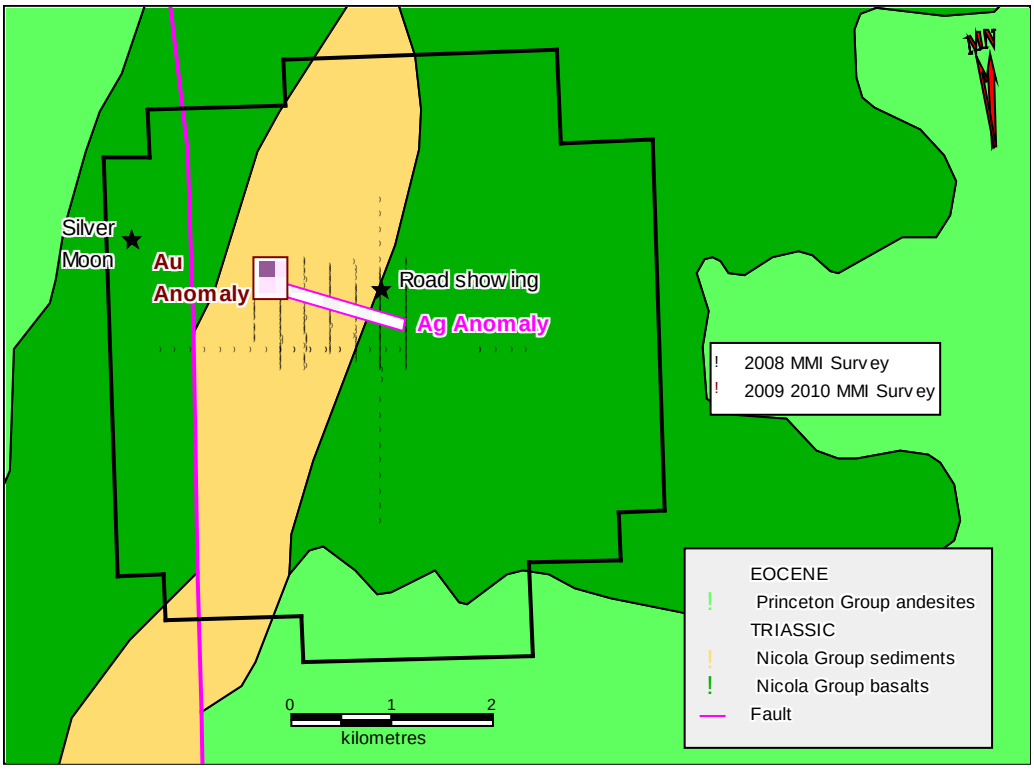
British Columbia examples of metasediment hosted polymetallic vein deposits include: the Slocan-New Denver-Ainsworth district, the Trout Lake Camp and St. Eugene Mine. Other examples are the Mayo District in the Yukon and the Couer d'Alene District in Idaho.

MINERALIZATION

The Placer Creek Project is being explored for polymetallic quartz vein mineralization.

There are historic workings in the northwestern corner of the property on the old Silver Moon showing (Figure 5). The Silver Moon showing (BC MINFILE 092HSE071) consists of five flat-lying quartz and calcite veins up to 0.4 metre wide hosted within a series of vertical, irregular branching and reticulating shear zones striking roughly north and totaling 4.6 metres in width. The veins have been exposed over lengths of up to 10 metres and are locally mineralized with massive or disseminated arsenopyrite. Native gold is reported to occur in tiny veinlets cutting the arsenopyrite. Two samples collected from the flat veins assayed 6.17 and 1123 grams per tonne gold, and trace and 309 grams per tonne silver respectively (Minister of Mines Annual Report 1938, page D24). Between 1938 and 1940, about seven tonnes of ore were mined, producing 1,027 grams of gold and 374 grams of silver. The showing is now part of a real estate development and is inaccessible.

A second mineralized locality was discovered during the 2009 prospecting and mapping exploration program. Arsenopyrite and pyrite varying in amounts of 1-10% are present in sheared and altered volcaniclastic and andesitic flows along the main logging road near the eastern side of the property. Traces of copper may also be present. Locally, minor quartz veining is also present. The shearing trends generally east-west with vertical to near vertical dips. Sulphide mineralization is present both as disseminations and narrow, massive lenses. Alteration is mainly in the form of silicification and carbonatization. Only one of seven rock samples collected from this location exceeded background.



UTM NAD 83 Zone 10
Geology from MapPlace

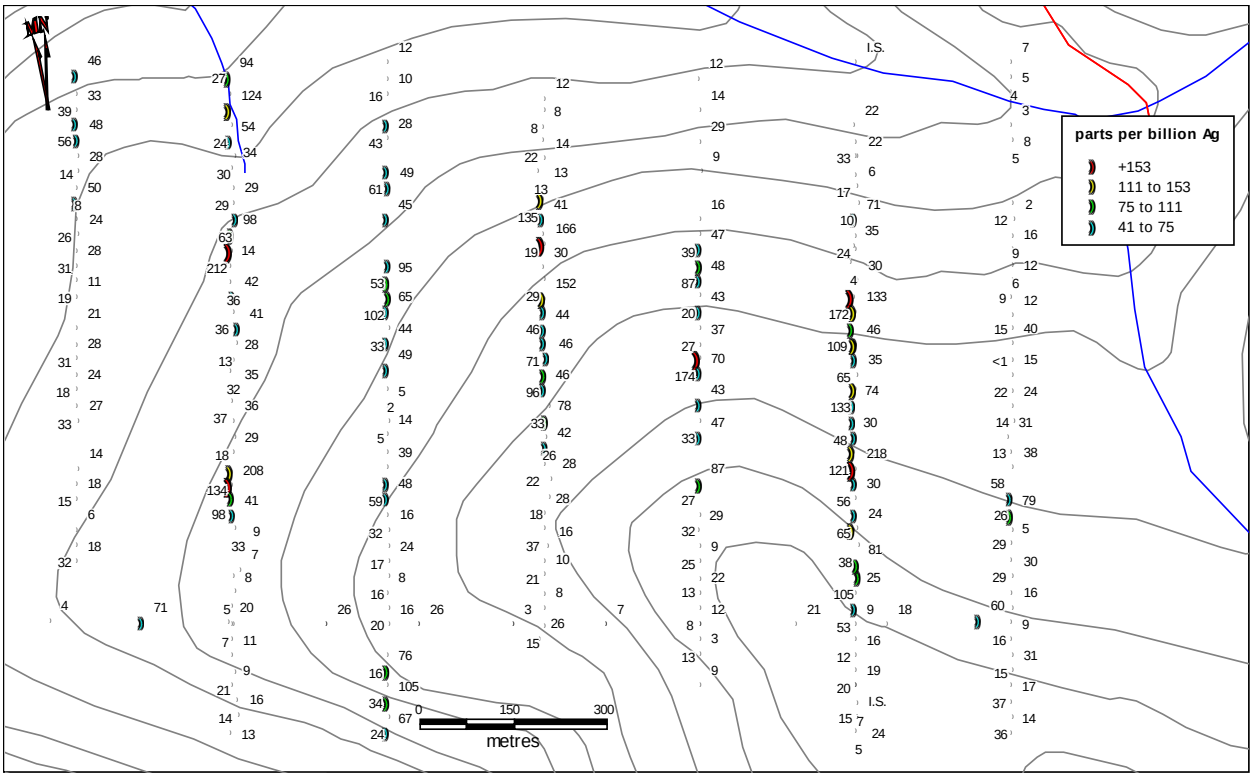
Anomalous Zones
Figure 5

The three year MMI soil sampling program has been successful in locating two multi-element anomalies of significance:

- A linear, grid-wide Ag anomaly with weakly coincident lead and zinc values measuring approximately 1300 metres long by 50 to 500 metres wide. This anomaly is open to the east and west.
- A Au anomaly presentings as a two line cluster anomaly measuring 250 metres wide by 300 metres long. Molybdenum is weakly coincident with the gold. This anomaly is open to the north and west.

The 2010 Placer Creek exploration program consisted of four additional MMI soil lines thus expanding the grid to seven lines spaced at 250 metre intervals, ranging in length from 775 metres to 1075 metres. MMI was utilized over conventional geochemistry as it has been proven to detect deeper mineralization, including that masked by barren overlying rock units.

Mobile Metal Ion (MMI) technology is a relatively new geochemical process. It is based on the widely held belief that mobile metal ions are transported from deeply buried ore bodies to the surface. These mobile metal ions move into the weathering zone and become weakly or loosely attached to surface soil particles. Complete details on the MMI theory can be found in the report by Butrenchuk et al (2009) and on the MMI website (www.mmigeochem.com).

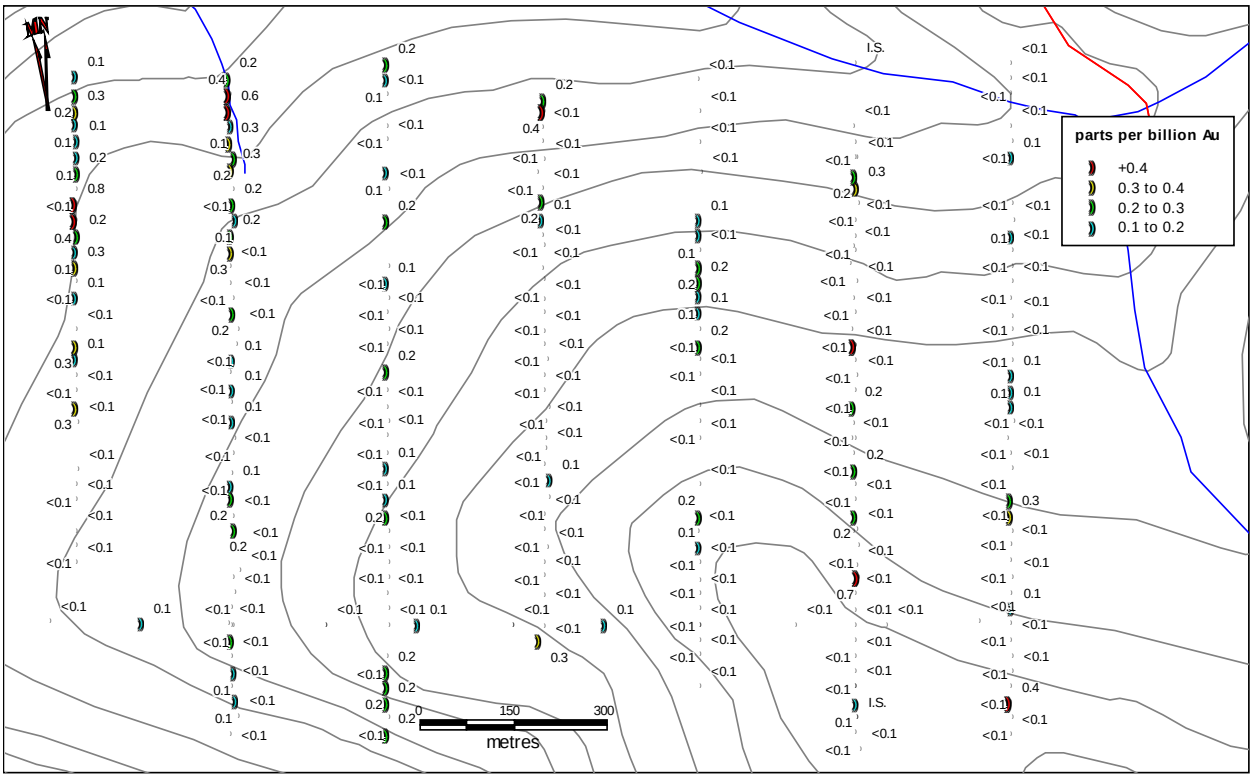


UTM NAD 83 Zone 10

MMI Ag Parts Per Billion
Figure 6a

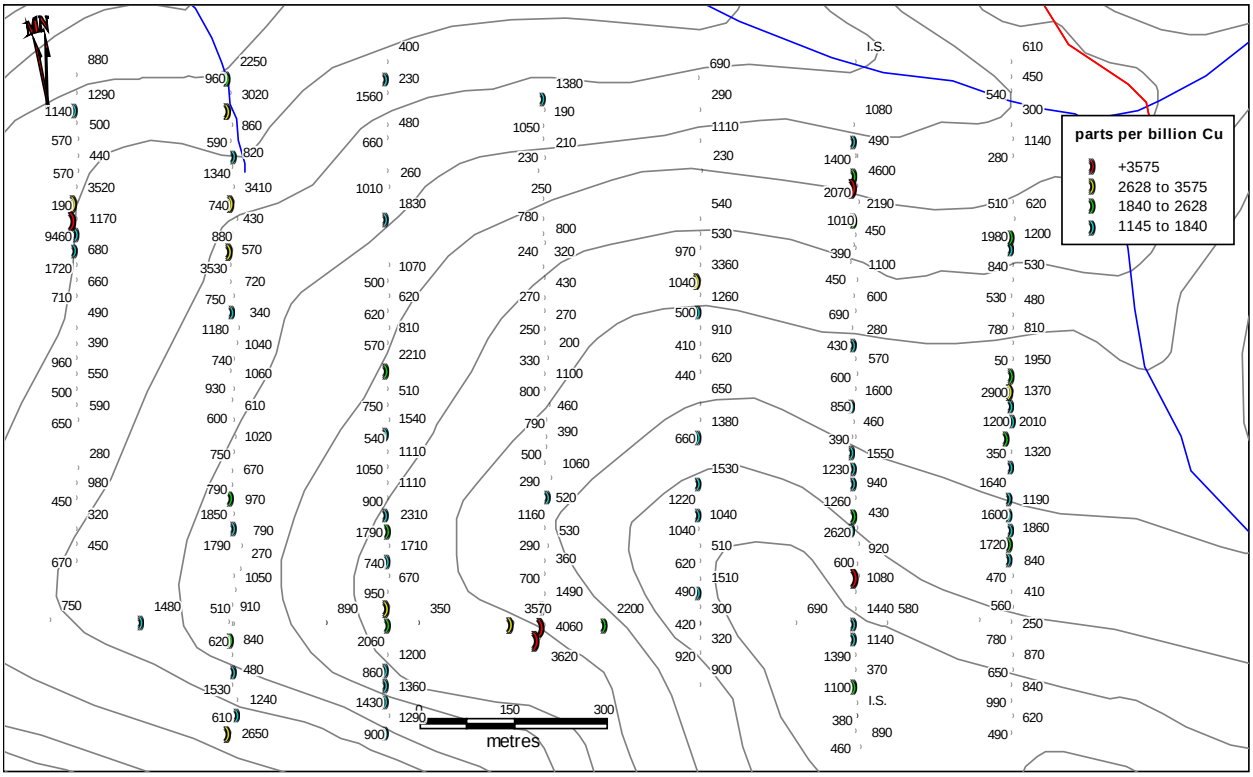
The 2010 MMI soil geochemical survey consisted of four north-south oriented lines spaced 500 metres apart. The four lines range in length from 775 metres to 1075 metres and were sampled at 25 metre intervals. A total of 136 samples were taken from a consistent depth of 10 to 25 centimetres below the organics / inorganic interface. All samples were analyzed for the MMI-M multi-element suite.

Bubble plots were completed for gold, silver, copper, molybdenum, lead and zinc (Figures 6a through 6f) utilizing the 90th, 95th and 98th percentiles.



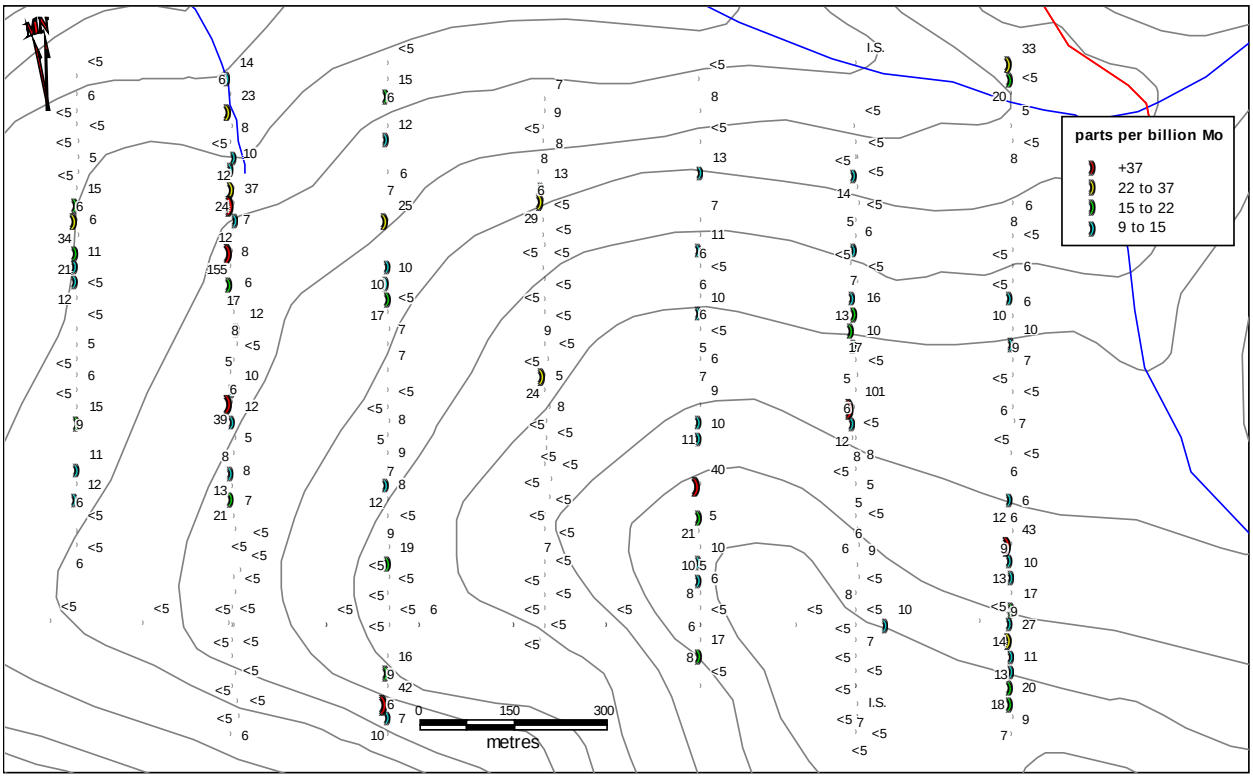
UTM NAD 83 Zone 10

MMI Au Parts Per Billion
Figure 6b



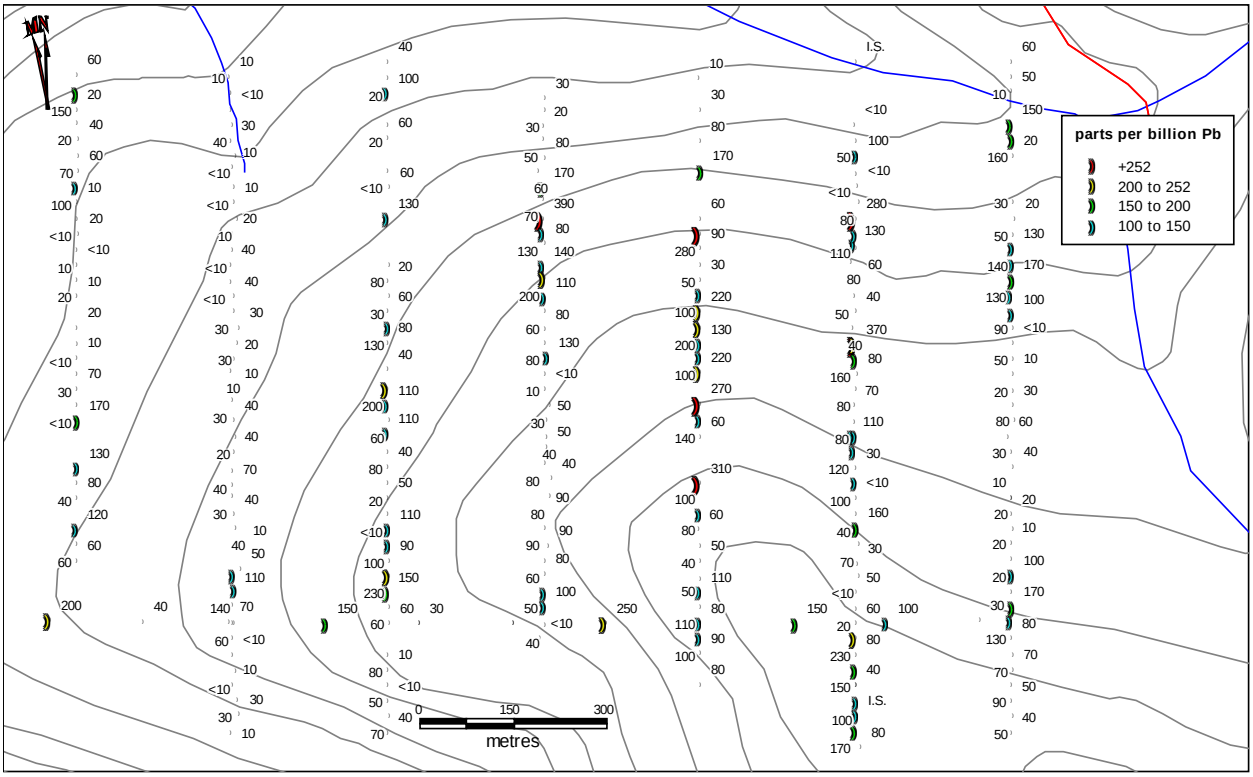
UTM NAD 83 Zone 10

MMI Cu Parts Per Billion
Figure 6c



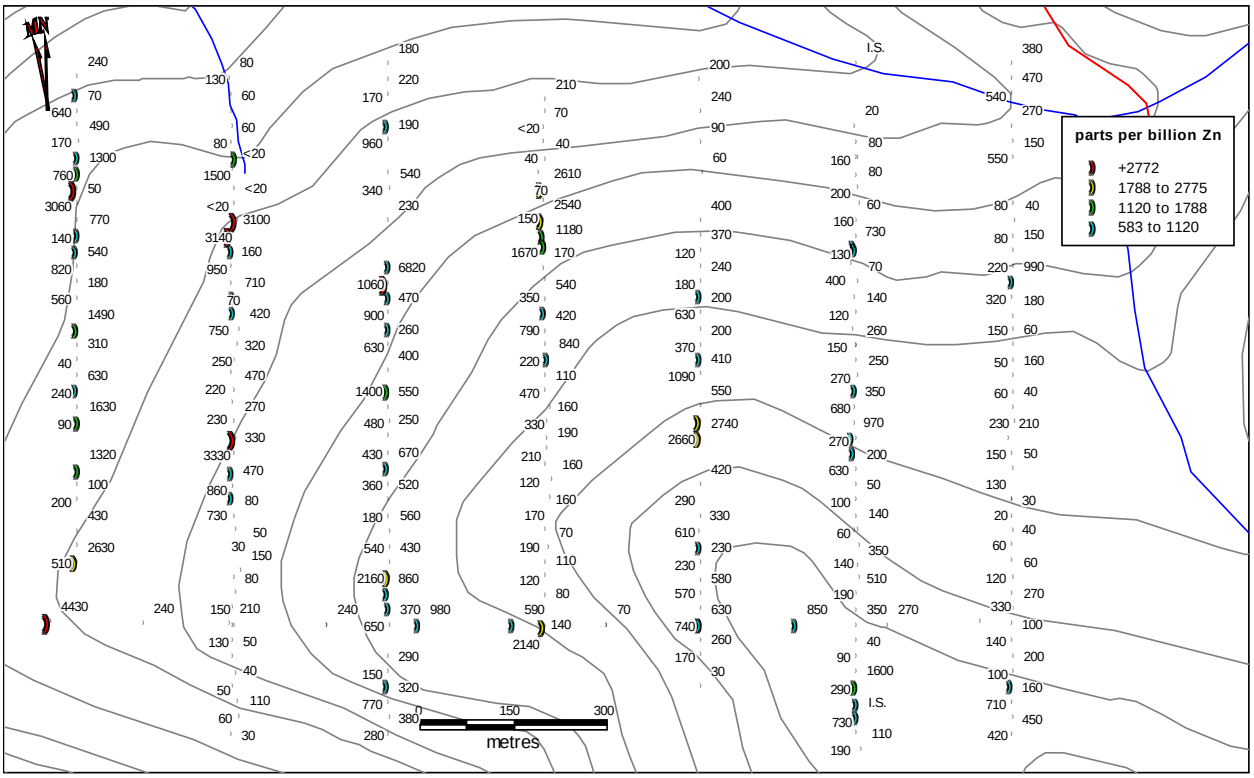
UTM NAD 83 Zone 10

MMI Mo Parts Per Billion
Figure 6d



UTM NAD 83 Zone 10

MMI Pb Parts Per Billion
Figure 6e



UTM NAD 83 Zone 10

MMI Zn Parts Per Billion
Figure 6f

Silver: The silver plot (Figure 6a) shows a linear trend through the centre of the grid with approximate dimensions of 1300 metres east-west by 50 to 500 metres north-south. The anomaly narrows towards each edge of the grid but appears to remain open both to the east and to the west.

Gold: The gold plot (Figure 6b) shows a strong two line linear anomaly in the northwestern corner of the grid, measuring 250 metres by 300 metres and open to the north and the west.

Copper: The copper plot (Figure 6c) shows considerable scatter with no distinct anomalies.

Molybdenum: The molybdenum plot (Figure 6d) shows some scatter but appears to weakly correlate with gold. There is also an 11 station (250 metre) anomaly on the extreme southeastern corner of the grid.

Lead: The lead plot (Figure 6e) shows considerable scatter but appears to show weak correlation with the silver.

Zinc: The zinc plot (Figure 6d) shows considerable scatter but appears to show weak correlation with the silver.

Table 2: Geochemical Statistics for ppb data and Response Ratio data

Percentile	Ag ppb	Au ppb	Cu ppb	Mo ppb	Pb ppb	Zn ppb		Ag RR	Au RR	Cu RR	Mo RR	Pb RR	Zn RR
25th	13	0.05	460	2.5	30	120		2	1	2	1	2	2
50th	24	0.05	740	6.0	60	250		4	1	3	3	4	4
75th	41	0.10	1145	9.3	100	583		6	2	4	4	7	9
90th	75	0.20	1840	15.0	150	1120		10	4	7	7	10	13
95th	111	0.30	2628	21.5	200	1788		14	6	9	8	13	22
98th	153	0.40	3575	37.2	252	2772		18	8	12	15	16	41
Maximum	218	0.80	9460	155.0	390	6820		29	16	30	41	19	105

The MMI Technology manual strongly recommends that Response Ratios be calculated for each element to facilitate interpretation. Response ratios were calculated and plotted for each of the 6 elements: Ag, Au, Cu, Mo, Pb and Zn (Figures 7a through 7f). Response ratios are calculated for each individual element as follows:

- the lowest 25% of the data for all samples in the survey area is determined
- all values less than the detection limit are included and a values of ½ the detection limit is assigned
- the average of the lowest quartile (25%) is calculated to determine the background value
- the response ratio is then calculated by dividing each sample value by the background value for that element. The numbers are then rounded to give whole numbers greater than or equal to 1
- samples with response ratios of 2 or less are considered background, while samples with response ratios greater than 5 are considered anomalous.

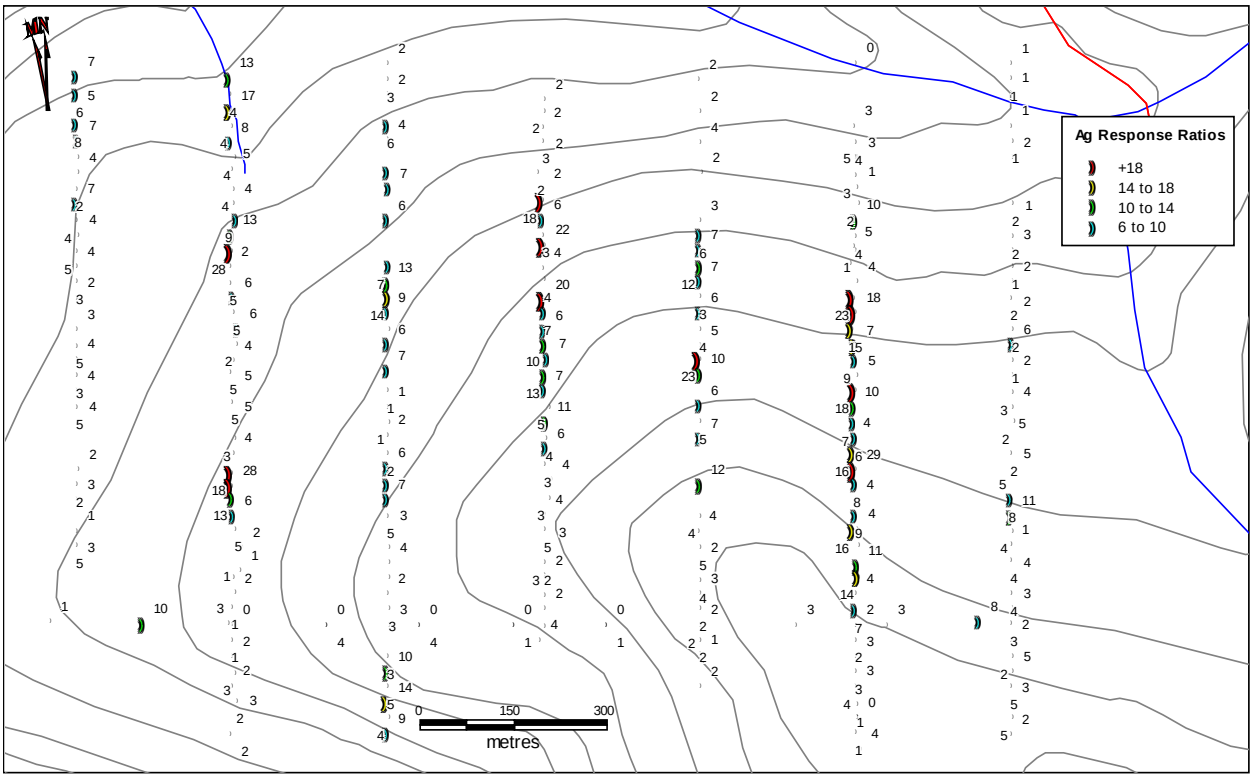
The benefits behind response ratios as the main interpretive method for analyzing MMI data is summarized below:

- Reduce the effects of dissolution variables during extraction, for example time and temperature;
- Allow the splicing of different data batches or data from varying regolith situations;
- Reduce the effects of sampling in different regolith units; and
- Facilitate multi-element data presentations for interpretation.

The Response Ratios for each of the six elements are shown in Table 2, with the corresponding Response Ratio plots shown in Figures 7a through 7f.

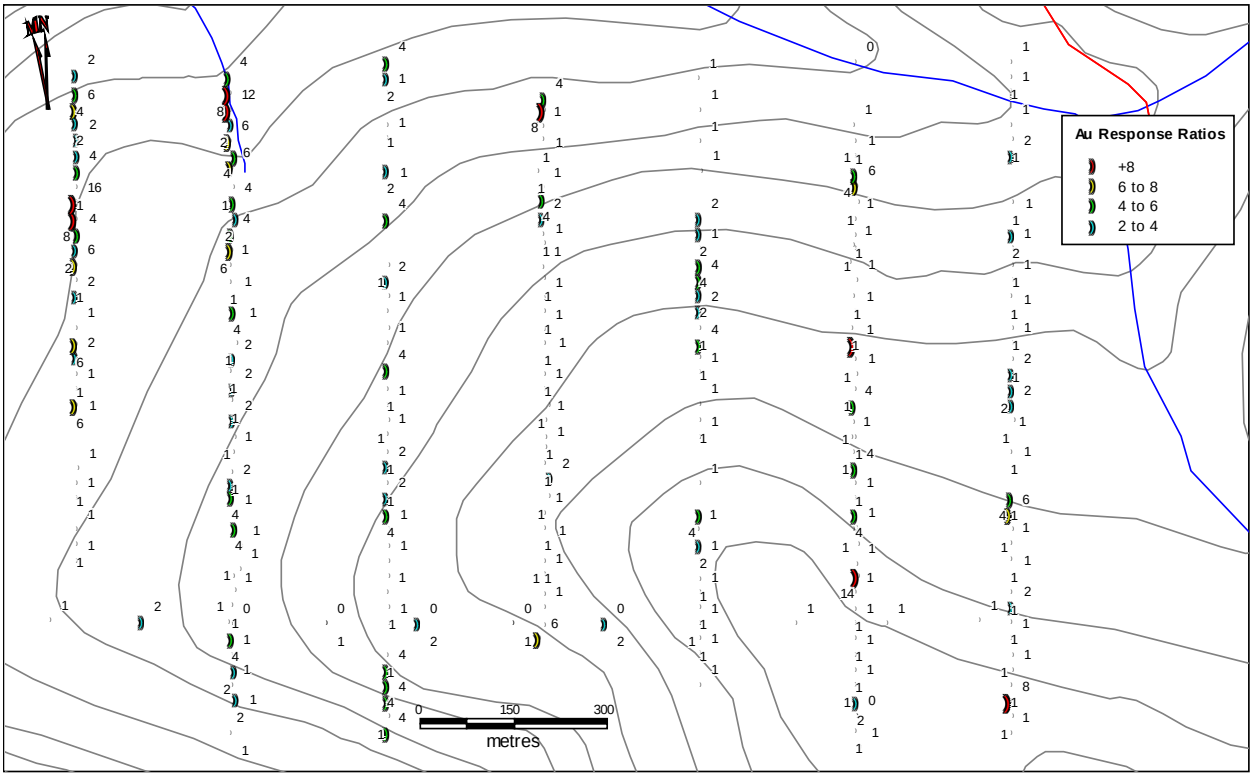
Silver: The silver plot (Figure 7a) shows a linear trend through the centre of the grid with approximate dimensions of 1300 metres east-west by 50 to 500 metres north-south. The anomaly narrows towards each edge of the grid but appears to remain open both to the east and to the west.

Gold: The gold plot (Figure 7b) shows a strong two line linear anomaly in the northwestern corner of the grid measuring 250 metres by 300 metres and open to the north and the west.



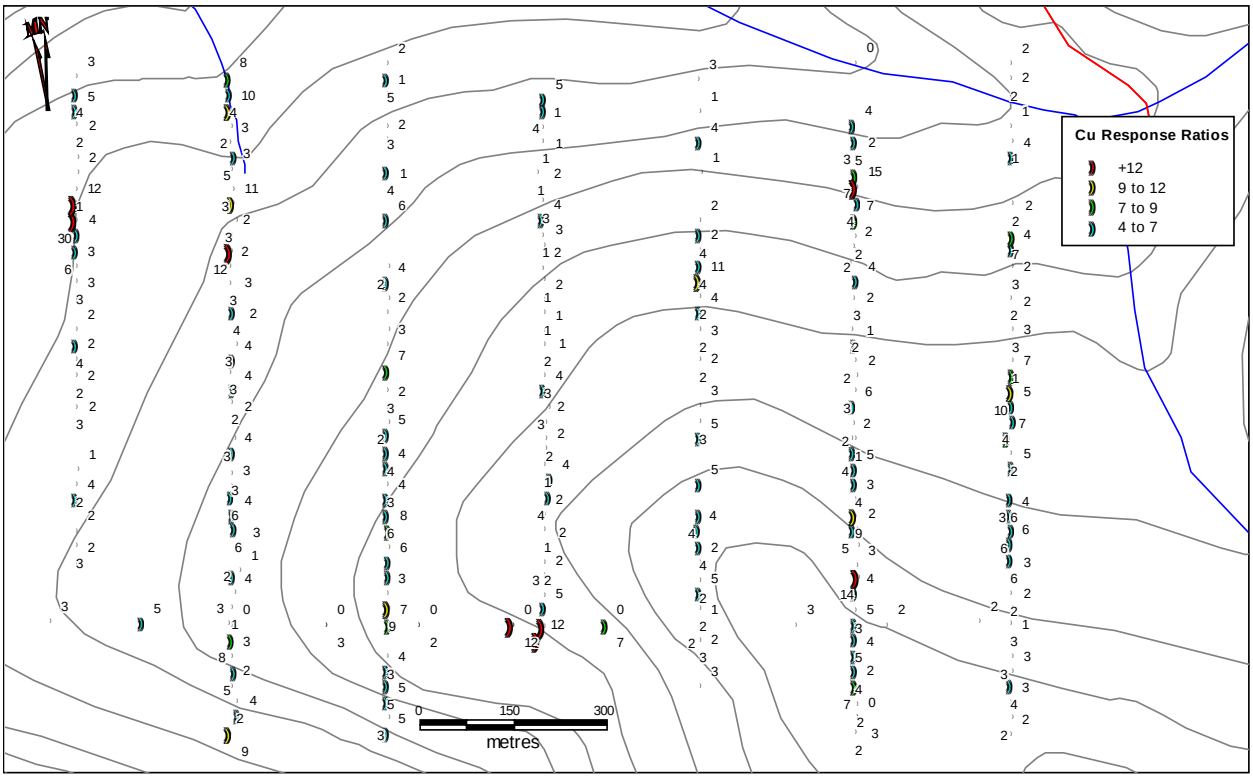
UTM NAD 83 Zone 10

Ag Response Ratios
Figure 7a



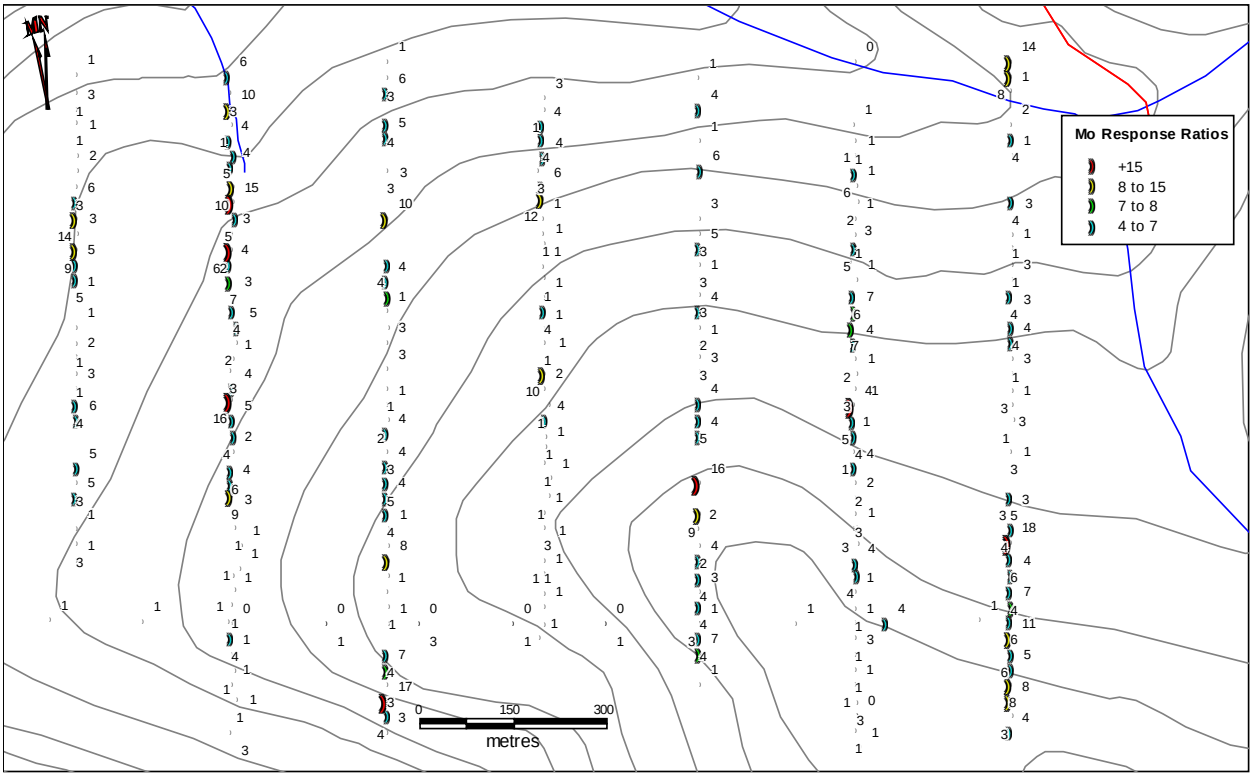
UTM NAD 83 Zone 10

Au Response Ratios
Figure 7b



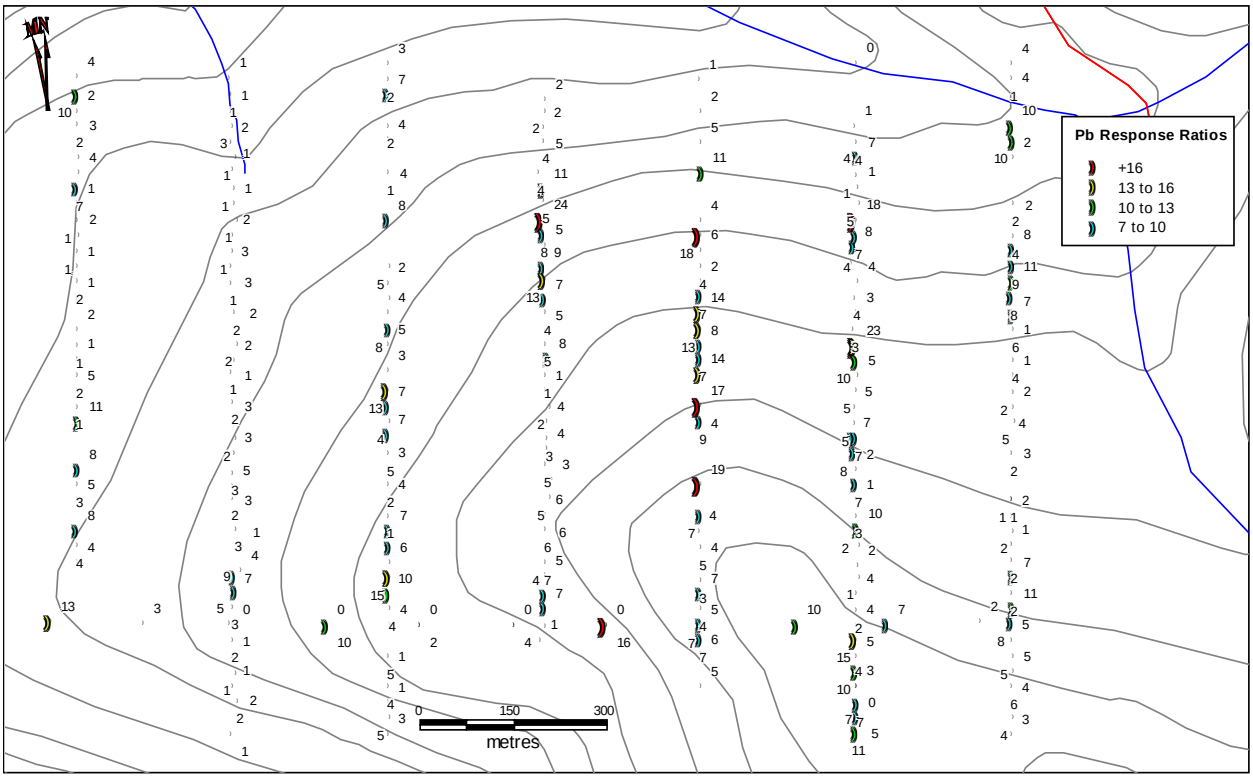
UTM NAD 83 Zone 10

Cu Response Ratios
Figure 7c



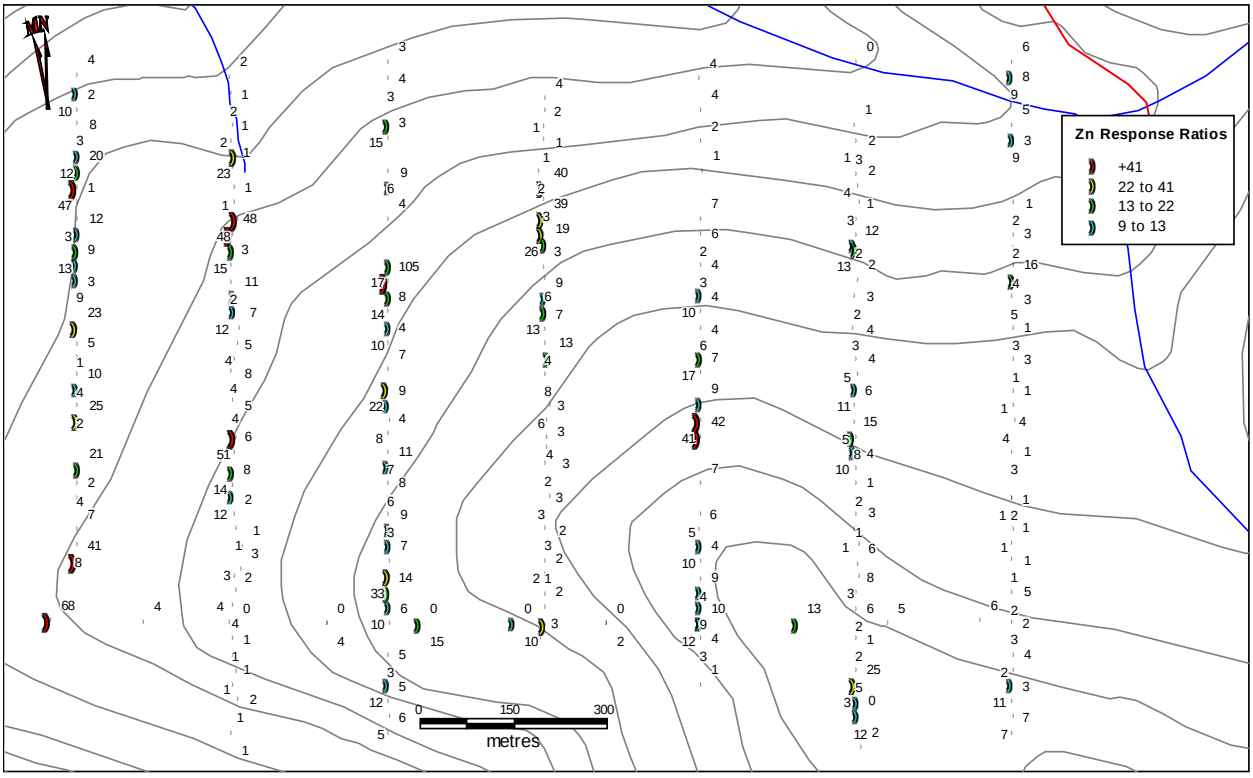
UTM NAD 83 Zone 10

Mo Response Ratios
Figure 7d



UTM NAD 83 Zone 10

Pb Response Ratios
Figure 7e



UTM NAD 83 Zone 10

Zn Response Ratios
Figure 7f

Copper: The copper plot (Figure 7c) shows considerable scatter with no distinct anomalies.

Molybdenum: The molybdenum plot (Figure 7d) shows some scatter but appears to weakly correlate with gold. There is also an 11 station (250 metre) anomaly on the extreme southeastern corner of the grid.

Lead: The lead plot (Figure 7e) shows considerable scatter but appears to show weak correlation with the silver.

Zinc: The zinc plot (Figure 7d) shows considerable scatter but appears to show weak correlation with the silver.

DRILLING

There is no record of diamond drilling on the Placer Creek property.

SAMPLING METHOD AND APPROACH

The 2010 sampling program on the Placer Creek property consisted of MMI soil geochemistry. A total of 136 soil samples were collected.

Four north-south, GPS oriented, flagged soil lines were sampled to expand the 2009 MMI soil grid to seven north-south oriented lines spaced at 250 metre intervals, ranging in length from 775 metres to 1075 metres. The four lines were spaced 500 metres apart and sampled at 25 metre intervals for the purpose of obtaining sample data within the existing grid area and to expand the grid to the east and west. Sample were collected at a consistent depth of 10 to 25 centimetres below the organic / inorganic (or true soil) interface. Each sample, comprising a minimum of 250 grams, was placed in a 170 by 220 millimetre snap seal (Ziploc) bag. Sequentially numbered assay tickets were placed in the correspondingly number-coded bags. Sample locations were marked as a waypoint corresponding to a station UTM coordinate, and these were stored in the memory of a Garmin GPSmap 60CSx unit. The waypoints, UTM coordinates and assay ticket numbers were also recorded in a field notebook at the corresponding sample location as back-up. Details on sample depth, soil color and proximal rock outcrop were also recorded in the field notes. The GPS data was downloaded daily into an Excel spreadsheet. The corresponding sample numbers, soil color and proximal outcrop information were also entered.

The authors are not aware of any sampling factors that could materially impact the accuracy and reliability of the MMI soil sample or rock sample results. At this preliminary stage of the exploration program, a sample spacing of 25 metres along parallel north-south lines at a 250 metre line spacing is sufficient to initially test for gold veins and is therefore considered representative. There is no chance of bias as sample medium is soil at regular intervals along sample lines.

The main lithology identified on the Placer Creek property is andesitic volcanics which commonly exhibits oxidation and local silicification. Seven random grab, select grab or chip samples from outcrops and subcrops were collected to the southeast of the grid area in 2009 (Butrenchuck et al, 2009). Pyrite and arsenopyrite, ranging from trace to 12% combined, were noted in five of the seven samples. Only one of the seven gold assays exceeded background returning 12 ppb.

Economic bedrock mineralization has not yet been encountered on the Placer Creek property. This was a preliminary exploration program focused on expanding the 2009 soil grid.

SAMPLE PREPARATION, ANALYSIS AND SECURITY

The soil sampling, prospecting and rock sampling was completed by independent contractor Mammoth Geological Ltd. personnel, Gary Wesa and Evan Henneberry, under the supervision of R. Tim Henneberry, P.Geo.

Soil samples were packaged and delivered directly to the Vancouver Greyhound Bus Depot by Mr. Wesa for shipment to SGS Minerals Services in Toronto, Ontario.

The MMI Process uses leachant solutions which have been specially developed to selectively 'release' the adsorbed ions from the soil material. The aim of the selective leaching is to remove metals which are loosely bound on the surface of particles within existing soil profiles, without attacking or influencing the natural mineralization of the soil or specific substrates. Using sensitive ICPMS instrumentation, the MMI Process is able to detect Mobile Metal Ions in digest solutions at sub-parts per billion level. SGS Mineral Services in Toronto, Ontario is the only Canadian lab licensed to undertake Mobile Metal Ion Analysis. SGS Mineral Services is ISO/IEC 17025:2005 certified by the Standards Council of Canada.

The MMI analytical procedure, however, is not a complete digestion. Mammoth Geological Ltd. submitted CDN Resource Labs Ltd. standards CM-5 and CGS-15 at regular intervals throughout the soil sample stream. Standard CM-5 registers 294 ppb Au $\pm$ 46 ppb (or 248 to 340 ppb Au), 0.319% Cu $\pm$ 0.02% (or 3170 to 3210 ppm Cu) and 0.050% Mo $\pm$ 0.005% (or 495 to 505 ppm Mo). Standard CGS-15 registers 570 ppb Au $\pm$ 60 ppb (or 510 to 630 ppb Au) and 0.451% Cu $\pm$ 0.02% (or 4310 to 4710 ppm Cu). A total of seven analyses of this standard were completed by SGS Mineral Services. As expected, the results of the standard analyses were nowhere near the limits.

SGS Mineral Services completed 12 duplicate samples where they obtained two samples from the same soil sample pulp. The results are shown in Table 4. The duplicate samples performed generally quite well, as did their blanks. Background information on the ranges of the two SGS Mineral Services standards was not provided so comments cannot be made on these standards.

Table 3: Placer Creek Duplicate and Standard Samples

Sample	ppb Ag	ppb Au	ppb Cu	ppb Mo	ppb Pb	ppb Zn		Duplicate	ppb Ag	ppb Au	ppb Cu	ppb Mo	ppb Pb	ppb Zn
18013	18	<0.1	500	<5	30	240		18013	15	<0.1	390	<5	40	320
18019	28	0.3	680	11	<10	540		18019	32	0.3	700	11	<10	390
18027	14	0.1	570	<5	70	760		18027	14	0.2	600	<5	70	780
18046	59	<0.1	900	12	20	360		18046	65	<0.1	1040	13	30	400
18064	28	<0.1	480	12	60	190		18064	27	<0.1	470	12	80	130
18071	13	<0.1	920	8	100	170		18071	12	<0.1	950	11	100	210
18078	29	<0.1	1040	5	60	330		18078	28	<0.1	1020	<5	60	280
18085	174	<0.1	440	7	100	1090		18085	143	<0.1	430	8	110	1390
18101	36	<0.1	490	7	50	420		18101	36	<0.1	520	7	50	480
18121	14	<0.1	1200	<5	80	230		18121	21	<0.1	1410	12	90	210
18134	2	<0.1	620	6	20	40		18134	7	<0.1	790	8	20	<20
18141	4	<0.1	540	20	10	540		18141	4	<0.1	510	16	10	610
MMISRM16	14	25.2	580	46	60	220		MMISRM16	18	26	710	55	70	270
MMISRM18	26	9.4	920	39	230	810		MMISRM18	18	8.3	1330	30	230	640
BLANK	<1	<0.1	<10	<5	<10	<20		BLANK	<1	<0.1	<10	<5	<10	<20
BLANK	<1	<0.1	<10	<5	<10	<20		BLANK	<1	<0.1	<10	<5	<10	<20

The authors feel that 25 metre sample spacings along the soil lines was adequate for this stage of the Placer Creek exploration program. There are no issues with sample security. The sample preparation and analytical procedures were also adequate for this phase of the Placer Creek exploration program.

DATA VERIFICATION

The 2010 follow up MMI soil sampling survey is a preliminary exploration program. Quality control measures for preliminary prospecting, rock sampling and soil sampling generally consist of in house lab duplicates and standards, supplemented by client standards inserted into the sample stream. The duplicates and standards allow the authors to have confidence in the assay data.

The soil sampling was completed by or under the supervision of Mr. Wesa. While Mr. Wesa is not a Qualified Person under NI43-101, he has close to 40 years of exploration experience and is more than qualified to undertake soil sampling, prospecting and rock sampling surveys. The authors feel no further verification of his work is required.

After reviewing the exploration program and assay results, the authors feel they have adequately verified the data.

ADJACENT PROPERTIES

This report is not relying on information from adjacent properties.

MINERAL PROCESSING AND METALLURGICAL TESTING

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

MINERAL RESOURCES AND MINERAL RESERVE ESTIMATES

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

OTHER RELEVANT DATA AND INFORMATION

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

INTERPRETATION AND CONCLUSIONS

The Placer Creek property lies within an area of high geological potential in the Princeton area. The claims overlie Triassic Nicola Group sediments and volcanics in the general vicinity of Jurassic to Cretaceous intrusive rocks, a favourable setting for polymetallic gold veins, as well as porphyry copper deposits. Furthermore, the presence of shear hosted auriferous vein mineralization near the western boundary of the property enhances the possibility of shear hosted polymetallic gold.

The 2009 / 2010 MMI soil surveys have successfully outlined two multi-element MMI soil anomalies that require further exploration. The linear silver anomaly, with weakly coincident lead and zinc values, and the cluster gold anomaly, with weakly coincident molybdenum values, require ground truthing.

RECOMMENDATIONS

It is recommended that the next phase of exploration on the Placer Creek property should consist of infill MMI soil sampling to narrow the grid line interval to 125 metres, resulting in a total of 14 lines. This requires seven additional lines, each measuring approximately 1000 metres in length, or, the equivalent of seven line kilometres. This should represent an additional 287 samples collected at 25 metre intervals along the lines. The grid should also be prospected in detail, particularly in the anomalous areas.

A program budget for 10 days soil sampling utilizing 2-two man crews plus 5 days of detailed prospecting and hand trenching is presented below. The cost of the 2011 sampling program is estimated at $65,000.

Table 4: 2011 Proposed Budget

Geologist	15	days	@	$ 500	/day	$ 7,500
Prospector	15	days	@	$ 500	/day	$ 7,500
Assistant	15	days	@	$ 400	/day	$ 6,000
Assistant	15	days	@	$ 400	/day	$ 6,000
Room & Board	60	days	@	$ 100	/day	$ 6,000
Vehicle + Fuel	30	days	@	$ 150	/day	$ 4,500
Vehicle km's	3500	kms	@	$ 0.5	/km	$ 1,750
Analysis - soil	287	sample	@	$ 35	/sample	$ 10,045
Analysis - standards	15	sample	@	$ 35	/sample	$ 525
Analysis - rock	50	sample	@	$ 35	/sample	$ 1,750
Analysis - standards	3	sample	@	$ 35	/sample	$ 105
Travel						$ 2,000
Sundries						$ 1,000
Contingency						$ 5,325
Report						$ 5,000
MMI Grid Sampling Budget						**$ 65,000**

The cost of the May 2010 exploration program was $16,203.60. Combining this sum with the cost of the 2008 MMI survey and 2009 prospecting and MMI surveys produces a current expenditure on the Placer Creek property totaling $48,424.86.

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.

www.mmigeochem.com. The Mobile Metal Ion Technology Website. The applicable case studies are:

- CS-05 – Base Metal Exploration in Manitoba, Canada
- CS-06 – MMI at the San Jorge Porphyry Copper Deposit, Mendoza Province, Argentina
- CS-36 – MMI Geochemistry, Jacks Pond, Buchans District, Newfoundland

Butrenchuk, S.B., Henneberry, R.T. and Wesa, G.L. (2009b). 2009 Geological Report Placer Creek Project. BC Ministry of Energy, Mines and Petroleum Resources Assessment Report 31491.

Diakow, G. (2007). Prospecting Report on the AU 2 Claims, Princeton Area, Similkameen Mining Division, BC Ministry of Energy, Mines and Petroleum Resources Assessment Report 29518.

Henneberry, R.T. (2009). Geological Report Placer Creek Project. BC Ministry of Energy, Mines and Petroleum Resources Assessment Report 30652.

Larson, H.A. (1972). Geophysical Report on Magnetic and VLF-EM Surveys, EE & Ram Claim Groups, Belgie Creek Area, Similkameen Mining Division, BC Ministry of Energy, Mines and Petroleum Resources Assessment Report 03597.

Lefebure, D.V. and Church, B. N. (1996): Polymetallic Veins Ag-Pb-Zn+/-Au, in Selected British Columbia Mineral Deposit Profiles, Volume 2 - Metallic Deposits, Lefebure, D.V. and Hõy, T, Editors, British Columbia Ministry of Energy of Employment and Investment, Open File 1996-13, pages 67-70.

MMI Manual for Mobile Metal Ion Geochemical Soil Surveys. Version 5.04. Wamtech Pty. Ltd. 2004. Found at www.mmigeochem.com.

Ramani, S.V. (1974). Geological Report on the Holt and Davis Claims for Cascadia Resources Ltd, BC Ministry of Energy, Mines and Petroleum Resources Assessment Report 04986.

STATEMENT OF COSTS

		Dates Worked
	Evan Henneberry	May 13,14,15,16,17,18
	Gary Wesa	May 13,14,15,16,17,18
	Tim Henneberry	Oct 1-9

Field Crew									
	Evan Henneberry	6	days	@	$	400	/day	$	2,400.00
	Gary Wesa	6	days	@	$	500	/day	$	3,000.00
Supervision									
	Tim Henneberry	2	hours	@	$	100	/hour	$	200.00
Documentation									
	Tim Henneberry	20	hours	@	$	100	/hour	$	2,000.00
Total Services								$	7,600.00
	GST on Services GST No. 133959049							$	380.00
Expenses								$	2,619.91
	Lodging						$ 635.58		
	Meals						$ 547.28		
	Supplies						$ 682.64		
	Truck						$ 484.00		
	Fuel						$ 174.85		
	GST						$ 95.56		
Analysis								$	5,603.69
	SGS - TO110295						$ 2,821.72		
	SGS - TO110296						$ 2,781.97		
Total Invoice								$	16,203.60

CERTIFICATE

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:

Mr. Sydney Wilson
4766 West 4th Avenue
Vancouver, B.C. V6T 1C2

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 30 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:

- 30 years of exploration experience for base and precious metals in the Canadian Cordillera

I am responsible for the preparation of the technical report titled "2010 Geochemical Report Placer Creek Project" and dated October 15, 2010, relating to the Placer Creek property. I supervised and directed the exploration programs described in this report on behalf of Mr. Sydney Wilson. I have not yet visited the Placer Creek property.

I have not had prior involvement with the property that is the subject of the Technical Report.

As of October 15, 2010, 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.

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 consent to the public filing of the Technical Report with the British Columbia Ministry of Energy and Mines in support of assessment work requirements.

I make this report effective as of the 15th day of October, 2010.

"signed and sealed"

_____

R.Tim Henneberry, P.Geo

STATEMENT OF QUALIFICATIONS

I, Gary L. Wesa , of 309 – 6669 Telford Avenue, 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, supervision of regional and property scale exploration programs and diamond drilling programs.

I supervised and completed the MMI soil sampling program on the Placer Creek Property with the assistance of Evan Henneberry from May 13 to May 18, 2010.

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

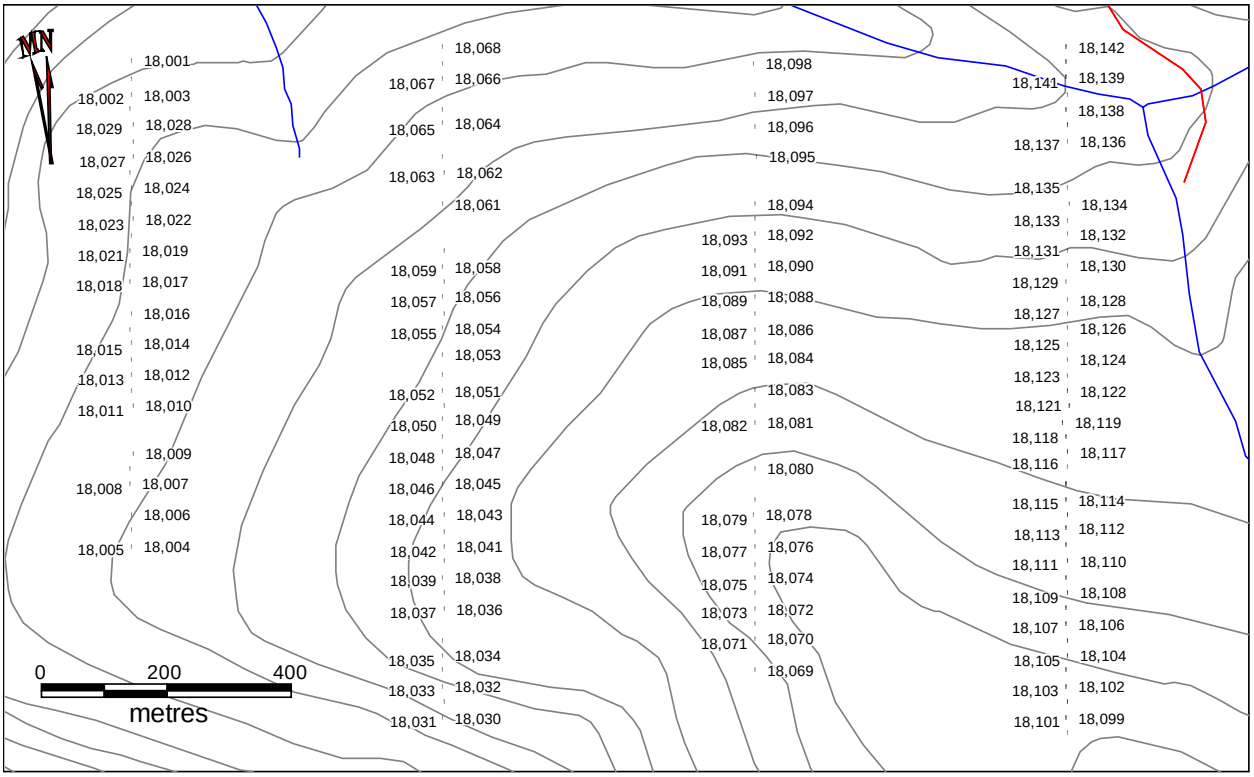
I am co-author in the preparation of this report titled "2010 Geochemical Report Placer Creek Project" dated October 15, 2010.

Dated this October 15, 2010.

"signed and sealed"

_____

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



UTM NAD 83 Zone 10

2010 Soil Sample Locations
Figure 8

APPENDIX 1. Placer Creek 2010 MMI Soil Sample Locations (UTM NAD83 Zone 10)

Sample No.	83Z10_E	83Z10_N	Ag ppb	Ag RR	Au ppb	Au RR	Cu ppb	Cu RR	Mo ppb	Mo RR	Pb ppb	Pb RR	Zn ppb	Zn RR
18001	679450	5451979	46	7	0.1	2	880	3	<5	1	60	4	240	4
18002	679450	5451950	39	6	0.2	4	1140	4	<5	1	150	10	640	10
18003	679450	5451925	33	5	0.3	6	1290	5	6	3	20	2	70	2
18004	679450	5451200	18	3	<0.1	1	450	2	<5	1	60	4	2630	41
18005	679450	5451226	32	5	<0.1	1	670	3	6	3	60	4	510	8
18006	679450	5451250	6	1	<0.1	1	320	2	<5	1	120	8	430	7
18007	679449	5451300	18	3	<0.1	1	980	4	12	5	80	5	100	2
18008	679449	5451325	15	2	<0.1	1	450	2	6	3	40	3	200	4
18009	679452	5451348	14	2	<0.1	1	280	1	11	5	130	8	1320	21
18010	679452	5451425	27	4	<0.1	1	590	2	15	6	170	11	1630	25
18011	679451	5451450	33	5	0.3	6	650	3	9	4	<10	1	90	2
18012	679450	5451475	24	4	<0.1	1	550	2	6	3	70	5	630	10
18013	679450	5451500	18	3	<0.1	1	500	2	<5	1	30	2	240	4
18014	679450	5451525	28	4	0.1	2	390	2	5	2	10	1	310	5
18015	679449	5451548	31	5	0.3	6	960	4	<5	1	<10	1	40	1
18016	679451	5451575	21	3	<0.1	1	490	2	<5	1	20	2	1490	23
18017	679449	5451625	11	2	0.1	2	660	3	<5	1	10	1	180	3
18018	679449	5451650	19	3	<0.1	1	710	3	12	5	20	2	560	9
18019	679449	5451675	28	4	0.3	6	680	3	11	5	<10	1	540	9
18021	679450	5451699	31	5	0.1	2	1720	6	21	9	10	1	820	13
18022	679452	5451725	24	4	0.2	4	1170	4	6	3	20	2	770	12
18023	679450	5451750	26	4	0.4	8	9460	30	34	14	<10	1	140	3
18024	679451	5451775	50	7	0.8	16	3520	12	15	6	10	1	50	1
18025	679449	5451799	8	2	<0.1	1	190	1	6	3	100	7	3060	47
18026	679452	5451825	28	4	0.2	4	440	2	5	2	60	4	1300	20
18027	679452	5451850	14	2	0.1	2	570	2	<5	1	70	5	760	12
18028	679452	5451875	48	7	0.1	2	500	2	<5	1	40	3	490	8
18029	679449	5451902	56	8	0.1	2	570	2	<5	1	20	2	170	3

18030	679948	5450925	67	9	0.2	4	1290	5	7	3	40	3	380	6
18031	679951	5450950	24	4	<0.1	1	900	3	10	4	70	5	280	5
18032	679950	5450975	105	14	0.2	4	1360	5	42	17	<10	1	320	5
18033	679949	5451000	34	5	0.2	4	1430	5	6	3	50	4	770	12
18034	679950	5451026	76	10	0.2	4	1200	4	16	7	10	1	290	5
18035	679950	5451049	16	3	<0.1	1	860	3	9	4	80	5	150	3
18036	679951	5451100	16	3	<0.1	1	2060	7	<5	1	60	4	370	6
18037	679951	5451125	20	3	<0.1	1	2650	9	<5	1	60	4	650	10
18038	679950	5451149	8	2	<0.1	1	670	3	<5	1	150	10	860	14
18039	679951	5451175	16	3	<0.1	1	950	4	<5	1	230	15	2160	33
18041	679951	5451199	24	4	<0.1	1	1710	6	19	8	90	6	430	7
18042	679951	5451224	17	3	<0.1	1	740	3	<5	1	100	7	540	9
18043	679951	5451250	16	3	<0.1	1	2310	8	<5	1	110	7	560	9
18044	679948	5451275	32	5	0.2	4	1790	6	9	4	<10	1	180	3
18045	679950	5451300	48	7	0.1	2	1110	4	8	4	50	4	520	8
18046	679949	5451324	59	8	<0.1	1	900	3	12	5	20	2	360	6
18047	679950	5451350	39	6	0.1	2	1110	4	9	4	40	3	670	11
18048	679950	5451375	8	2	<0.1	1	1050	4	7	3	80	5	430	7
18049	679949	5451403	14	2	<0.1	1	1540	5	8	4	110	7	250	4
18050	679951	5451425	5	1	<0.1	1	540	2	5	2	60	4	480	8
18051	679949	5451450	5	1	<0.1	1	510	2	<5	1	110	7	550	9
18052	679949	5451475	2	1	<0.1	1	750	3	<5	1	200	13	1400	22
18053	679950	5451507	49	7	0.2	4	2210	7	7	3	40	3	400	7
18054	679950	5451549	44	6	<0.1	1	810	3	7	3	80	5	260	4
18055	679952	5451575	33	5	<0.1	1	570	2	7	3	130	8	630	10
18056	679950	5451601	65	9	<0.1	1	620	2	<5	1	60	4	470	8
18057	679952	5451625	102	14	<0.1	1	620	2	17	7	30	2	900	14
18058	679949	5451649	95	13	0.1	2	1070	4	10	4	20	2	6820	105
18059	679952	5451675	53	7	<0.1	1	500	2	10	4	80	5	1060	17
18061	679950	5451750	45	6	0.2	4	1830	6	25	10	130	8	230	4

18062	679951	5451800	49	7	<0.1	1	260	1	6	3	60	4	540	9
18063	679950	5451825	61	8	0.1	2	1010	4	7	3	<10	1	340	6
18064	679950	5451878	28	4	<0.1	1	480	2	12	5	60	4	190	3
18065	679950	5451900	43	6	<0.1	1	660	3	8	4	20	2	960	15
18066	679950	5451950	10	2	<0.1	1	230	1	15	6	100	7	220	4
18067	679950	5451975	16	3	0.1	2	1560	5	6	3	20	2	170	3
18068	679950	5452000	12	2	0.2	4	400	2	<5	1	40	3	180	3
18069	680451	5451000	9	2	<0.1	1	900	3	<5	1	80	5	30	1
18070	680450	5451051	3	1	<0.1	1	320	2	17	7	90	6	260	4
18071	680451	5451075	13	2	<0.1	1	920	3	8	4	100	7	170	3
18072	680449	5451100	8	2	<0.1	1	420	2	6	3	110	7	740	12
18073	680451	5451125	13	2	<0.1	1	490	2	8	4	50	4	570	9
18074	680450	5451150	22	3	<0.1	1	1510	5	6	3	110	7	580	9
18075	680450	5451171	25	4	<0.1	1	620	2	10	4	40	3	230	4
18076	680450	5451199	9	2	<0.1	1	510	2	10	4	50	4	230	4
18077	680450	5451225	32	5	0.1	2	1040	4	5	2	80	5	610	10
18078	680448	5451249	29	4	<0.1	1	1040	4	5	2	60	4	330	6
18079	680450	5451274	27	4	0.2	4	1220	4	21	9	100	7	290	5
18080	680450	5451325	87	12	<0.1	1	1530	5	40	16	310	19	420	7
18081	680451	5451400	47	7	<0.1	1	1380	5	10	4	60	4	2740	42
18082	680450	5451426	33	5	<0.1	1	660	3	11	5	140	9	2660	41
18083	680451	5451451	43	6	<0.1	1	650	3	9	4	270	17	550	9
18084	680450	5451501	70	10	<0.1	1	620	2	6	3	220	14	410	7
18085	680450	5451525	174	23	<0.1	1	440	2	7	3	100	7	1090	17
18086	680450	5451548	37	5	0.2	4	910	3	<5	1	130	8	200	4
18087	680450	5451575	27	4	<0.1	1	410	2	5	2	200	13	370	6
18088	680450	5451600	43	6	0.1	2	1260	4	10	4	220	14	200	4
18089	680450	5451626	20	3	0.1	2	500	2	6	3	100	7	630	10
18090	680451	5451650	48	7	0.2	4	3360	11	<5	1	30	2	240	4
18091	680450	5451675	87	12	0.2	4	1040	4	6	3	50	4	180	3

18092	680450	5451700	47	7	<0.1	1	530	2	11	5	90	6	370	6
18093	680451	5451725	39	6	0.1	2	970	4	6	3	280	18	120	2
18094	680450	5451749	16	3	0.1	2	540	2	7	3	60	4	400	7
18095	680452	5451825	9	2	<0.1	1	230	1	13	6	170	11	60	1
18096	680450	5451874	29	4	<0.1	1	1110	4	<5	1	80	5	90	2
18097	680449	5451924	14	2	<0.1	1	290	1	8	4	30	2	240	4
18098	680448	5451975	12	2	<0.1	1	690	3	<5	1	10	1	200	4
18099	680949	5450925	14	2	<0.1	1	620	2	9	4	40	3	450	7
18101	680950	5450950	36	5	<0.1	1	490	2	7	3	50	4	420	7
18102	680949	5450974	17	3	0.4	8	840	3	20	8	50	4	160	3
18103	680948	5451000	37	5	<0.1	1	990	4	18	8	90	6	710	11
18104	680950	5451026	31	5	<0.1	1	870	3	11	5	70	5	200	4
18105	680952	5451048	15	2	<0.1	1	650	3	13	6	70	5	100	2
18106	680949	5451074	9	2	<0.1	1	250	1	27	11	80	5	100	2
18107	680949	5451101	16	3	<0.1	1	780	3	14	6	130	8	140	3
18108	680951	5451125	16	3	0.1	2	410	2	17	7	170	11	270	5
18109	680949	5451150	29	4	<0.1	1	470	2	9	4	20	2	120	2
18110	680950	5451175	30	4	<0.1	1	840	3	10	4	100	7	60	1
18111	680949	5451203	29	4	<0.1	1	1720	6	13	6	20	2	60	1
18112	680949	5451228	5	1	<0.1	1	1860	6	43	18	10	1	40	1
18113	680950	5451251	26	4	<0.1	1	1600	6	9	4	20	2	20	1
18114	680948	5451275	79	11	0.3	6	1190	4	6	3	20	2	30	1
18115	680948	5451301	58	8	<0.1	1	1640	6	12	5	10	1	130	2
18116	680948	5451301	38	5	0.2	4	880	3	6	3	10	1	60	1
18117	680950	5451350	38	5	<0.1	1	1320	5	<5	1	40	3	50	1
18118	680948	5451375	13	2	<0.1	1	350	2	6	3	30	2	150	3
18119	680944	5451400	31	5	<0.1	1	2010	7	7	3	60	4	210	4
18121	680953	5451424	14	2	<0.1	1	1200	4	<5	1	80	5	230	4
18122	680952	5451450	24	4	0.1	2	1370	5	<5	1	30	2	40	1
18123	680950	5451473	22	3	0.1	2	2900	10	6	3	20	2	60	1

18124	680950	5451500	15	2	0.1	2	1950	7	7	3	10	1	160	3
18125	680950	5451524	<1	1	<0.1	1	50	1	<5	1	50	4	50	1
18126	680950	5451550	40	6	<0.1	1	810	3	10	4	<10	1	60	1
18127	680950	5451575	15	2	<0.1	1	780	3	9	4	90	6	150	3
18128	680950	5451596	12	2	<0.1	1	480	2	6	3	100	7	180	3
18129	680949	5451625	9	2	<0.1	1	530	2	10	4	130	8	320	5
18130	680950	5451650	12	2	<0.1	1	530	2	6	3	170	11	990	16
18131	680951	5451675	6	1	<0.1	1	840	3	<5	1	140	9	220	4
18132	680950	5451700	16	3	<0.1	1	1200	4	<5	1	130	8	150	3
18133	680952	5451723	9	2	0.1	2	1980	7	<5	1	50	4	80	2
18134	680954	5451750	2	1	<0.1	1	620	2	6	3	20	2	40	1
18135	680951	5451775	12	2	<0.1	1	510	2	8	4	30	2	80	2
18136	680950	5451850	8	2	0.1	2	1140	4	<5	1	20	2	150	3
18137	680951	5451875	5	1	<0.1	1	280	1	8	4	160	10	550	9
18138	680949	5451900	3	1	<0.1	1	300	1	5	2	150	10	270	5
18139	680948	5451952	5	1	<0.1	1	450	2	<5	1	50	4	470	8
18141	680949	5451976	4	1	<0.1	1	540	2	20	8	10	1	540	9
18142	680949	5452000	7	1	<0.1	1	610	2	33	14	60	4	380	6

Certificate of Analysis

Work Order: TO110295

To: **Tim Henneberry**
COD SGS Minerals
2446 Bidston Road
Mill Bay
BC V0R 2P4

Date: Jun 17, 2010

P.O. No.	:	Mammoth geological/project:Placer Creek
Project No.	:	ALCOCK PROPERTY
No. Of Samples	:	71
Date Submitted	:	May 31, 2010
Report Comprises	:	Pages 1 to 13 (Inclusive of Cover Sheet)

Distribution of unused material:
STORE:

Certified By : _____
Gavin McGill
Operations Manager

SGS Minerals Services (Toronto) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
18001	46	100	<10	0.1	19600	<1	390	10	335	147
18002	39	122	<10	0.2	13600	<1	290	19	208	268
18003	33	33	<10	0.3	11900	<1	620	15	82	233
18004	18	92	<10	<0.1	11600	<1	270	233	334	28
18005	32	71	<10	<0.1	13900	<1	370	58	290	39
18006	6	108	<10	<0.1	3550	<1	180	37	18	21
18007	18	85	<10	<0.1	810	<1	160	13	74	18
18008	15	93	<10	<0.1	2450	<1	240	27	72	11
18009	14	145	<10	<0.1	5600	<1	160	44	93	29
18010	27	135	<10	<0.1	4960	<1	200	57	236	69
18011	33	27	<10	0.3	8410	<1	420	14	109	307
18012	24	102	<10	<0.1	11900	<1	330	33	185	46
18013	18	72	<10	<0.1	9640	<1	550	33	205	48
18014	28	50	<10	0.1	3400	<1	440	26	21	12
18015	31	24	<10	0.3	4640	<1	620	11	102	36
18016	21	51	<10	<0.1	8290	<1	560	145	105	17
18017	11	51	<10	0.1	4930	<1	510	25	79	24
18018	19	66	<10	<0.1	9390	<1	410	35	171	47
18019	28	21	<10	0.3	9610	<1	520	39	96	60
18020	2	28	60	65.5	2320	<1	110	101	38	96
18021	31	53	<10	0.1	6710	<1	370	98	72	12
18022	24	50	<10	0.2	9710	<1	540	117	88	16
18023	26	10	<10	0.4	13400	<1	860	44	<5	171
18024	50	29	<10	0.8	11100	<1	650	14	24	153
18025	8	76	<10	<0.1	14000	<1	450	50	248	29
18026	28	72	<10	0.2	12400	<1	340	32	526	58
18027	14	85	<10	0.1	11600	<1	410	24	768	67
18028	48	67	<10	0.1	16100	<1	400	28	163	12
18029	56	45	<10	0.1	20400	<1	390	25	78	6
18030	67	40	<10	0.2	6460	<1	420	37	406	136
18031	24	111	<10	<0.1	4870	<1	240	49	173	45
18032	105	13	<10	0.2	7300	<1	520	105	126	263
18033	34	69	<10	0.2	7500	<1	480	79	885	198
18034	76	50	<10	0.2	6380	<1	440	35	198	21
18035	16	79	<10	<0.1	1200	<1	140	18	68	22
18036	16	117	<10	<0.1	2180	<1	230	26	190	17
18037	20	76	<10	<0.1	12800	<1	340	9	508	125
18038	8	113	<10	<0.1	2290	<1	100	22	89	27
18039	16	154	<10	<0.1	1870	<1	30	37	57	57
18040	<1	32	60	115	1410	<1	120	89	29	122
18041	24	79	<10	<0.1	110	<1	90	18	80	78
18042	17	116	<10	<0.1	1990	<1	140	24	122	64
18043	16	128	<10	<0.1	2150	<1	50	27	170	186

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
18044	32	26	<10	0.2	4460	<1	430	39	18	40
18045	48	97	<10	0.1	7820	<1	170	34	254	28
18046	59	72	<10	<0.1	9170	<1	240	43	143	37
18047	39	72	<10	0.1	9570	<1	240	29	202	70
18048	8	137	<10	<0.1	3420	<1	120	35	244	133
18049	14	145	<10	<0.1	1800	<1	70	19	356	69
18050	5	95	<10	<0.1	4010	<1	170	95	142	37
18051	5	114	<10	<0.1	3130	<1	120	19	157	55
18052	2	197	<10	<0.1	4270	<1	120	34	140	244
18053	49	82	<10	0.2	3210	<1	380	39	202	69
18054	44	113	<10	<0.1	2120	<1	160	54	308	26
18055	33	124	<10	<0.1	4540	<1	190	71	127	46
18056	65	81	<10	<0.1	13000	<1	270	91	188	34
18057	102	94	<10	<0.1	5840	<1	230	395	103	23
18058	95	71	<10	0.1	3180	<1	210	1110	26	17
18059	53	108	<10	<0.1	4650	<1	210	161	118	35
18060	2	27	60	52.2	2720	<1	110	99	16	97
18061	45	109	<10	0.2	6960	<1	150	12	320	50
18062	49	24	<10	<0.1	9950	<1	550	11	24	61
18063	61	28	<10	0.1	6100	<1	410	14	17	16
18064	28	59	<10	<0.1	13800	<1	460	25	133	19
18065	43	43	<10	<0.1	9770	<1	400	88	64	24
18066	10	83	<10	<0.1	8620	<1	200	9	188	46
18067	16	25	<10	0.1	8000	<1	370	8	108	15
18068	12	36	<10	0.2	8870	<1	290	4	117	27
18069	9	59	<10	<0.1	1730	<1	120	13	92	29
18070	3	54	<10	<0.1	440	<1	90	8	105	31
18071	13	104	<10	<0.1	410	<1	100	22	168	39
*Rep 18013	15	72	<10	<0.1	8850	<1	560	38	187	49
*Rep 18019	32	22	<10	0.3	9660	<1	520	28	101	69
*Rep 18027	14	86	<10	0.2	10700	<1	390	22	838	59
*Rep 18046	65	73	<10	<0.1	11000	<1	240	41	159	37
*Rep 18064	27	67	<10	<0.1	13900	<1	430	25	159	22
*Rep 18071	12	105	<10	<0.1	240	<1	100	18	186	43
*Std MMISRM18	18	22	10	8.3	240	<1	150	71	30	60
*Std MMISRM16	14	35	10	25.2	80	<1	180	4	19	50
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

Element	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
18001	<100	1.2	880	52	25.2	9.8	29	52	53	<1
18002	<100	1.4	1140	136	87.1	16.1	83	38	91	<1
18003	<100	<0.5	1290	39	23.2	8.1	19	30	44	<1
18004	<100	0.9	450	28	14.1	7.1	40	31	36	<1
18005	<100	<0.5	670	32	15.7	7.3	41	36	40	<1
18006	<100	9.7	320	8	5.1	0.5	35	17	5	<1
18007	<100	10.3	980	30	18.1	6.1	13	8	35	<1
18008	<100	3.3	450	11	5.9	2.4	25	10	14	<1
18009	<100	2.3	280	15	7.8	2.4	77	21	13	<1
18010	<100	2.4	590	34	18.8	7.6	82	17	39	<1
18011	<100	<0.5	650	9	3.9	2.3	30	22	13	<1
18012	<100	0.9	550	22	10.6	4.2	54	32	22	<1
18013	<100	1.0	500	27	14.0	6.3	26	26	33	<1
18014	<100	1.6	390	2	0.8	<0.5	25	10	4	<1
18015	<100	<0.5	960	21	9.4	5.7	18	12	29	<1
18016	<100	1.0	490	19	8.9	4.7	16	22	24	<1
18017	<100	<0.5	660	14	6.1	3.6	23	13	19	<1
18018	<100	1.5	710	18	8.1	4.0	29	24	21	<1
18019	<100	<0.5	680	17	6.4	3.8	15	24	20	<1
18020	<100	54.8	49700	5	3.7	1.0	45	6	6	1
18021	<100	0.6	1720	17	7.9	4.7	20	17	24	<1
18022	<100	<0.5	1170	63	30.9	13.1	15	24	72	<1
18023	<100	0.6	9460	6	4.2	<0.5	5	33	4	<1
18024	<100	0.6	3520	45	31.7	6.0	11	28	40	<1
18025	<100	<0.5	190	22	10.3	4.8	21	36	25	<1
18026	<100	1.0	440	42	20.1	10.0	38	32	49	<1
18027	<100	0.6	570	100	51.4	21.7	31	30	107	<1
18028	<100	1.2	500	25	11.4	5.6	22	40	31	<1
18029	<100	2.1	570	28	13.8	6.5	21	50	35	<1
18030	<100	<0.5	1290	46	21.7	12.8	41	17	58	<1
18031	<100	3.1	900	28	16.1	5.7	43	17	29	<1
18032	<100	<0.5	1360	16	7.0	4.2	19	18	21	<1
18033	100	<0.5	1430	102	51.4	27.4	39	19	125	<1
18034	<100	<0.5	1200	28	12.7	7.4	29	17	36	<1
18035	<100	7.5	860	22	12.9	4.4	15	10	25	<1
18036	<100	11.0	2060	24	13.3	5.5	44	10	29	<1
18037	<100	6.8	2650	42	21.7	10.0	59	34	53	<1
18038	<100	32.9	670	19	12.2	2.9	37	16	17	<1
18039	<100	23.2	950	19	13.8	1.7	63	24	12	<1
18040	<100	58.9	50700	5	3.7	0.8	53	5	5	<1
18041	<100	12.6	1710	17	9.5	3.8	11	9	21	<1
18042	<100	4.9	740	21	12.3	4.1	35	15	22	<1
18043	<100	4.7	2310	35	23.3	5.4	62	16	29	<1

Element	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
18044	<100	<0.5	1790	3	1.2	<0.5	13	11	4	<1
18045	<100	1.8	1110	27	12.8	7.4	40	22	36	<1
18046	<100	1.5	900	15	7.4	3.7	29	25	20	<1
18047	<100	1.2	1110	18	8.4	4.2	51	26	21	<1
18048	<100	2.8	1050	33	17.3	7.7	48	16	38	<1
18049	<100	3.0	1540	82	49.1	17.4	26	16	89	<1
18050	<100	2.4	540	17	8.7	4.3	28	15	23	<1
18051	<100	3.0	510	25	14.5	5.2	28	18	28	<1
18052	<100	2.9	750	17	9.6	3.5	57	21	19	<1
18053	<100	<0.5	2210	61	32.2	14.8	27	10	75	<1
18054	<100	2.1	810	53	25.7	12.8	34	15	67	<1
18055	<100	1.6	570	17	8.4	3.4	58	17	18	<1
18056	<100	1.1	620	23	11.0	5.0	37	33	27	<1
18057	<100	1.3	620	13	6.2	3.0	28	18	15	<1
18058	<100	5.6	1070	11	6.1	3.1	15	10	16	<1
18059	<100	1.9	500	18	8.9	3.7	37	16	21	<1
18060	<100	54.1	44800	4	3.1	0.5	48	7	4	1
18061	<100	2.9	1830	74	36.5	16.9	31	23	86	<1
18062	<100	0.6	260	3	1.1	<0.5	10	24	4	<1
18063	<100	1.1	1010	6	2.7	1.2	17	15	9	<1
18064	<100	2.2	480	24	13.1	5.0	28	35	28	<1
18065	<100	<0.5	660	10	4.6	2.3	30	24	13	<1
18066	<100	<0.5	230	10	5.0	2.0	48	23	12	<1
18067	<100	<0.5	1560	20	10.5	4.8	16	20	25	<1
18068	<100	<0.5	400	11	5.2	2.6	21	22	14	<1
18069	<100	5.0	900	29	18.4	4.8	13	9	29	<1
18070	<100	4.3	320	12	6.6	2.8	10	7	15	<1
18071	<100	2.5	920	49	30.9	9.3	33	12	52	<1
*Rep 18013	<100	1.0	390	28	15.4	6.5	24	23	33	<1
*Rep 18019	<100	<0.5	700	19	7.8	4.5	14	24	22	<1
*Rep 18027	<100	0.6	600	105	55.0	24.5	33	29	117	<1
*Rep 18046	<100	1.4	1040	18	8.3	4.2	30	30	23	<1
*Rep 18064	<100	2.6	470	27	15.1	5.9	33	35	31	<1
*Rep 18071	<100	2.8	950	48	27.9	9.8	33	12	53	<1
*Std MMISRM18	<100	5.7	1330	3	0.7	0.7	3	1	5	4
*Std MMISRM16	<100	10.6	580	2	<0.5	0.6	2	1	4	17
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	1	<1
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	1	1	<1

Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
18001	<0.5	24.2	124	<5	34	1870	<5	0.6	165	151
18002	<0.5	34.7	84	<5	48	6570	<5	0.6	185	563
18003	<0.5	53.3	24	<5	78	3980	6	1.0	102	293
18004	<0.5	40.9	67	<5	27	9340	<5	2.3	136	246
18005	<0.5	46.4	82	<5	47	2080	6	2.7	150	89
18006	<0.5	72.3	<1	<5	8	4130	<5	0.8	12	52
18007	<0.5	44.7	41	<5	5	3130	12	<0.5	105	21
18008	<0.5	63.3	21	<5	8	2680	6	1.5	52	33
18009	<0.5	46.3	14	<5	8	7360	11	3.4	40	74
18010	<0.5	55.8	64	<5	13	14000	15	4.9	137	101
18011	<0.5	66.0	24	<5	39	4390	9	1.7	57	72
18012	<0.5	37.1	43	<5	42	1920	6	1.8	72	131
18013	<0.5	42.2	38	<5	26	4680	<5	1.0	102	78
18014	<0.5	189	<1	<5	37	1030	5	1.8	14	76
18015	<0.5	71.7	25	<5	31	180	<5	0.7	88	121
18016	<0.5	112	17	<5	49	5290	<5	0.6	71	232
18017	<0.5	65.9	17	<5	26	420	<5	1.6	62	103
18018	<0.5	48.1	38	<5	29	3920	12	1.5	76	120
18019	<0.5	67.3	16	<5	53	2880	11	0.9	61	221
18020	<0.5	251	13	21	93	990	34000	<0.5	25	13
18021	<0.5	174	21	<5	57	3110	21	0.9	75	455
18022	<0.5	306	49	<5	76	2910	6	<0.5	154	258
18023	<0.5	28.7	<1	20	66	13100	34	<0.5	<1	889
18024	<0.5	14.1	<1	5	49	6860	15	<0.5	32	328
18025	<0.5	119	40	<5	83	10100	6	1.0	80	276
18026	<0.5	38.0	96	<5	41	6430	5	1.4	171	194
18027	<0.5	28.0	175	<5	46	4970	<5	0.5	326	124
18028	<0.5	19.3	45	<5	43	1370	<5	1.1	97	96
18029	<0.5	63.7	37	<5	46	730	<5	0.9	98	121
18030	<0.5	25.9	148	<5	46	3260	7	0.5	224	418
18031	<0.5	122	47	<5	13	8900	10	1.7	93	54
18032	<0.5	45.7	28	<5	59	15400	42	<0.5	72	559
18033	<0.5	25.9	277	<5	90	4320	6	<0.5	457	890
18034	<0.5	36.0	67	<5	43	2310	16	<0.5	126	72
18035	<0.5	25.8	32	<5	2	2630	9	<0.5	82	22
18036	<0.5	44.0	65	<5	9	4080	<5	3.1	115	24
18037	<0.5	36.7	166	<5	46	5160	<5	2.9	238	58
18038	<0.5	40.1	19	<5	4	8490	<5	0.9	53	61
18039	<0.5	27.2	5	<5	2	9590	<5	1.4	32	101
18040	<0.5	286	3	25	99	1140	457	<0.5	16	23
18041	<0.5	35.3	16	<5	5	4540	19	<0.5	62	66
18042	<0.5	49.1	38	<5	7	8180	<5	1.3	82	79
18043	<0.5	29.8	40	<5	6	8150	<5	1.4	98	157

Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
18044	<0.5	38.5	<1	<5	26	1310	9	<0.5	11	66
18045	<0.5	49.4	92	<5	10	1620	8	2.8	157	41
18046	<0.5	100	45	<5	29	1350	12	2.1	82	81
18047	<0.5	45.0	56	<5	14	1750	9	2.3	89	59
18048	<0.5	43.3	88	<5	4	9760	7	1.3	143	69
18049	<0.5	22.6	133	<5	2	3700	8	0.5	299	16
18050	<0.5	31.1	46	<5	9	6920	5	0.8	88	59
18051	<0.5	28.1	54	<5	4	9610	<5	0.8	105	31
18052	<0.5	67.2	44	<5	9	15800	<5	2.2	72	96
18053	<0.5	18.8	70	<5	26	3490	7	0.5	197	379
18054	<0.5	36.8	117	<5	6	4220	7	2.7	228	55
18055	<0.5	41.5	30	<5	11	7630	7	3.4	65	64
18056	<0.5	36.8	53	<5	24	4150	<5	1.8	100	79
18057	<0.5	27.1	30	<5	12	1770	17	1.8	59	206
18058	<0.5	48.1	35	6	9	2710	10	<0.5	70	342
18059	<0.5	61.2	30	<5	13	2720	10	2.6	69	70
18060	<0.5	240	<1	18	85	1070	32500	<0.5	10	14
18061	<0.5	25.2	126	<5	9	3860	25	1.9	264	20
18062	<0.5	36.7	<1	20	38	9160	6	1.1	11	196
18063	<0.5	60.0	<1	<5	16	1710	7	0.7	25	138
18064	<0.5	25.4	30	5	45	5420	12	1.5	81	134
18065	<0.5	80.9	12	<5	38	1930	8	1.3	45	118
18066	<0.5	76.9	41	<5	45	4640	15	2.5	54	115
18067	<0.5	73.1	31	<5	91	2590	6	0.5	75	184
18068	<0.5	54.5	27	<5	63	1630	<5	1.0	55	118
18069	<0.5	15.4	42	<5	4	3510	<5	<0.5	90	38
18070	<0.5	21.1	22	<5	3	3110	17	<0.5	55	57
18071	<0.5	45.7	56	<5	9	3650	8	0.7	155	34
*Rep 18013	<0.5	46.5	37	<5	27	5940	<5	0.9	98	84
*Rep 18019	<0.5	65.5	18	<5	54	2390	11	1.0	66	199
*Rep 18027	<0.5	26.6	195	<5	43	5050	<5	<0.5	375	106
*Rep 18046	<0.5	106	51	<5	33	1350	13	1.9	89	80
*Rep 18064	<0.5	26.0	37	<5	45	3490	12	1.6	96	139
*Rep 18071	<0.5	47.2	65	<5	8	4880	11	0.8	171	30
*Std MMISRM18	<0.5	24.2	<1	<5	79	570	30	<0.5	17	478
*Std MMISRM16	<0.5	33.9	<1	<5	28	<10	46	<0.5	16	178
*Blk BLANK	<0.5	<0.1	<1	<5	1	<10	<5	<0.5	1	<5
*Blk BLANK	<0.5	<0.1	2	<5	<1	<10	<5	<0.5	1	<5

Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
18001	0.8	60	1	34	<1	67	<1	69	37	<1
18002	0.8	150	1	34	<1	68	<1	146	53	<1
18003	1.7	20	<1	16	<1	46	<1	30	28	<1
18004	3.0	60	<1	27	<1	56	<1	39	31	<1
18005	2.8	60	1	30	<1	40	<1	28	33	<1
18006	1.7	120	<1	<1	<1	163	<1	12	2	<1
18007	0.5	80	<1	18	<1	138	<1	35	27	<1
18008	2.2	40	<1	9	<1	131	<1	18	11	<1
18009	7.5	130	1	6	<1	136	<1	36	10	<1
18010	8.7	170	2	26	<1	137	<1	56	33	<1
18011	2.4	<10	<1	10	<1	25	<1	9	11	<1
18012	2.3	70	1	14	<1	84	<1	68	17	<1
18013	0.6	30	<1	18	<1	78	<1	24	26	<1
18014	5.7	10	<1	<1	<1	142	<1	5	2	<1
18015	1.5	<10	<1	14	<1	61	<1	12	22	<1
18016	0.9	20	<1	11	<1	113	<1	14	18	<1
18017	3.6	10	<1	10	<1	66	<1	11	15	<1
18018	2.8	20	<1	14	<1	108	<1	24	17	<1
18019	1.7	<10	<1	10	<1	56	<1	13	15	<1
18020	0.3	400	31	4	<1	501	76	18	4	<1
18021	4.1	10	<1	12	<1	106	<1	10	18	<1
18022	2.7	20	<1	25	<1	34	<1	12	46	<1
18023	0.3	<10	<1	<1	<1	23	<1	<5	<1	<1
18024	0.3	10	<1	1	<1	22	<1	21	16	<1
18025	2.0	100	<1	15	<1	34	<1	27	19	<1
18026	1.8	60	<1	34	<1	96	<1	39	39	<1
18027	0.9	70	<1	64	<1	66	<1	73	82	<1
18028	2.4	40	<1	18	<1	58	<1	18	24	<1
18029	2.0	20	<1	17	<1	117	<1	16	25	<1
18030	1.1	40	<1	46	<1	46	<1	50	49	<1
18031	1.2	70	2	17	<1	285	<1	45	23	<1
18032	0.8	<10	<1	12	<1	33	<1	15	17	<1
18033	0.9	50	<1	95	<1	21	<1	83	103	<1
18034	1.4	10	<1	24	<1	48	<1	29	29	<1
18035	0.6	80	<1	14	<1	112	<1	27	21	<1
18036	2.6	60	1	23	<1	171	<1	40	25	<1
18037	1.2	60	2	53	<1	72	<1	72	48	<1
18038	0.8	150	1	8	<1	161	<1	44	13	<1
18039	1.9	230	<1	4	<1	100	<1	28	8	<1
18040	0.2	2470	6	1	<1	548	90	24	3	<1
18041	0.6	90	1	10	<1	107	<1	27	17	<1
18042	1.1	100	1	16	<1	154	<1	31	19	<1
18043	1.2	110	1	19	<1	120	<1	41	23	<1

Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
18044	0.8	<10	<1	<1	<1	65	<1	<5	2	<1
18045	2.0	50	1	33	<1	95	<1	25	33	<1
18046	2.3	20	<1	15	<1	123	<1	15	17	<1
18047	1.6	40	1	18	<1	84	<1	23	19	<1
18048	1.4	80	2	28	<1	105	<1	33	32	<1
18049	0.8	110	2	57	<1	112	<1	52	74	<1
18050	0.6	60	<1	17	<1	90	<1	19	19	<1
18051	0.8	110	1	20	<1	94	<1	25	23	<1
18052	3.7	200	2	14	<1	148	<1	21	15	<1
18053	1.0	40	<1	33	<1	40	<1	49	54	<1
18054	3.2	80	2	46	<1	114	<1	50	56	<1
18055	2.5	130	<1	12	<1	81	<1	31	15	<1
18056	1.0	60	<1	19	<1	80	<1	23	22	<1
18057	1.5	30	<1	11	<1	106	<1	18	13	<1
18058	0.5	20	<1	12	<1	130	<1	14	13	<1
18059	2.9	80	<1	12	<1	123	<1	26	16	<1
18060	0.4	450	29	<1	<1	498	75	17	2	<1
18061	2.1	130	2	50	<1	117	<1	63	69	<1
18062	1.6	60	<1	<1	<1	29	<1	7	2	<1
18063	2.6	<10	<1	2	<1	120	<1	<5	6	<1
18064	0.9	60	<1	14	<1	61	<1	25	21	<1
18065	2.3	20	<1	7	<1	111	<1	13	10	<1
18066	2.9	100	<1	11	<1	104	<1	25	10	<1
18067	0.6	20	<1	13	<1	37	<1	15	19	<1
18068	0.7	40	<1	10	<1	65	<1	12	12	<1
18069	0.2	80	<1	16	<1	56	<1	29	22	<1
18070	0.4	90	<1	9	<1	63	<1	16	13	<1
18071	1.6	100	1	27	<1	137	<1	53	41	<1
*Rep 18013	0.6	40	<1	17	<1	76	<1	25	25	<1
*Rep 18019	1.3	<10	<1	11	<1	50	<1	13	17	<1
*Rep 18027	1.0	70	<1	75	<1	66	<1	78	91	<1
*Rep 18046	2.1	30	<1	17	<1	123	<1	17	19	<1
*Rep 18064	0.6	80	<1	17	<1	64	<1	31	23	<1
*Rep 18071	2.1	100	1	31	<1	145	<1	56	44	<1
*Std MMISRM18	0.7	230	12	<1	6	143	<1	<5	3	<1
*Std MMISRM16	0.2	60	23	<1	<1	287	<1	6	3	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1

Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
18001	3700	<1	8	<10	15.5	32	<0.5	21	<1	283
18002	2830	<1	17	<10	11.8	38	<0.5	30	<1	818
18003	5100	<1	6	<10	9.7	14	<0.5	42	<1	189
18004	1990	<1	5	<10	17.3	169	<0.5	11	<1	150
18005	2700	<1	5	<10	15.8	102	<0.5	19	<1	165
18006	420	<1	<1	<10	2.1	106	<0.5	7	<1	50
18007	160	<1	4	<10	3.5	45	<0.5	24	<1	173
18008	540	<1	1	<10	4.6	88	<0.5	14	<1	64
18009	350	<1	2	<10	14.9	517	<0.5	10	<1	71
18010	440	<1	5	<10	23.1	653	<0.5	17	<1	170
18011	1810	<1	1	<10	14.4	47	<0.5	16	<1	46
18012	1880	<1	3	<10	16.3	111	<0.5	18	<1	108
18013	1290	<1	4	<10	19.7	23	<0.5	17	<1	141
18014	1200	<1	<1	<10	3.2	46	<0.5	9	<1	16
18015	1370	<1	3	<10	6.5	16	<0.5	17	<1	101
18016	1480	<1	3	<10	8.8	19	<0.5	14	<1	102
18017	1350	<1	2	<10	10.2	34	<0.5	15	<1	64
18018	1380	<1	3	<10	18.4	48	<0.5	15	<1	80
18019	2820	<1	2	<10	9.8	27	<0.5	24	<1	64
18020	9060	<1	<1	<10	5.3	24	<0.5	39	54	36
18021	3130	<1	3	<10	7.3	42	<0.5	13	<1	89
18022	3480	<1	10	<10	6.1	25	<0.5	34	<1	345
18023	4030	<1	<1	<10	<0.5	4	<0.5	19	<1	41
18024	3350	<1	6	<10	5.4	4	<0.5	39	<1	241
18025	3990	<1	3	<10	9.7	46	<0.5	19	<1	114
18026	2940	<1	7	<10	23.2	44	<0.5	16	<1	213
18027	4240	<1	16	<10	16.5	16	<0.5	23	<1	540
18028	3900	<1	4	<10	6.4	23	<0.5	18	<1	137
18029	3760	<1	4	<10	7.2	20	<0.5	18	<1	151
18030	1440	<1	8	<10	26.1	77	<0.5	26	<1	231
18031	410	<1	4	<10	14.8	213	<0.5	27	<1	149
18032	2030	<1	2	<10	8.7	13	<0.5	29	<1	77
18033	2030	<1	17	<10	32.6	37	<0.5	29	<1	501
18034	1770	<1	4	<10	10.1	21	<0.5	22	<1	147
18035	190	<1	3	<10	2.0	38	<0.5	14	<1	128
18036	400	<1	3	<10	10.4	275	<0.5	18	<1	139
18037	1810	<1	7	<10	40.4	147	<0.5	23	<1	215
18038	280	<1	2	<10	11.8	152	<0.5	17	<1	109
18039	180	<1	2	<10	10.4	336	<0.5	8	<1	104
18040	8670	<1	<1	<10	4.3	16	<0.5	49	6	38
18041	250	<1	2	<10	5.3	146	<0.5	19	<1	82
18042	340	<1	3	<10	11.3	300	<0.5	17	<1	106
18043	400	<1	4	<10	17.1	298	<0.5	18	<1	168

Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
18044	1500	<1	<1	<10	2.1	10	<0.5	15	<1	15
18045	570	<1	4	<10	20.5	608	<0.5	15	<1	120
18046	870	<1	2	<10	12.5	182	<0.5	13	<1	77
18047	1100	<1	2	<10	20.7	596	<0.5	14	<1	84
18048	240	<1	5	<10	22.0	354	<0.5	15	<1	171
18049	150	<1	13	<10	20.6	167	<0.5	27	<1	501
18050	460	<1	2	<10	9.0	234	<0.5	10	<1	97
18051	320	<1	4	<10	10.8	207	<0.5	13	<1	142
18052	370	<1	2	<10	22.5	495	<0.5	12	<1	93
18053	1280	<1	10	<10	9.5	27	<0.5	13	<1	333
18054	270	<1	9	<10	14.6	446	<0.5	20	<1	260
18055	460	<1	2	<10	12.2	326	<0.5	12	<1	86
18056	830	<1	3	<10	13.2	120	<0.5	13	<1	113
18057	560	<1	2	<10	8.1	185	<0.5	17	<1	67
18058	470	<1	1	<10	1.7	70	<0.5	25	<1	73
18059	590	<1	2	<10	11.0	400	<0.5	13	<1	89
18060	9110	<1	<1	<10	3.8	40	<0.5	36	48	31
18061	1300	<1	12	<10	17.8	524	<0.5	22	<1	368
18062	2070	<1	<1	<10	2.7	71	<0.5	4	<1	16
18063	1370	<1	<1	<10	2.6	24	<0.5	10	<1	37
18064	3030	<1	3	<10	11.8	54	<0.5	13	<1	140
18065	2740	<1	<1	<10	7.8	36	<0.5	11	<1	51
18066	2580	<1	1	10	12.1	270	<0.5	7	<1	55
18067	5270	<1	3	<10	11.6	18	<0.5	16	<1	116
18068	4030	<1	1	<10	11.3	43	<0.5	10	<1	57
18069	300	<1	4	<10	4.1	37	<0.5	18	<1	193
18070	120	<1	1	10	2.1	25	<0.5	6	<1	67
18071	260	<1	7	<10	9.6	81	<0.5	20	<1	273
*Rep 18013	1310	<1	4	<10	16.8	21	<0.5	18	<1	152
*Rep 18019	2930	<1	3	<10	9.3	20	<0.5	27	<1	73
*Rep 18027	3930	<1	17	<10	17.4	20	<0.5	23	<1	556
*Rep 18046	920	<1	3	<10	13.1	155	<0.5	14	<1	90
*Rep 18064	2820	<1	4	<10	12.6	70	<0.5	14	<1	157
*Rep 18071	250	<1	7	<10	10.0	103	<0.5	22	<1	240
*Std MMISRM18	1770	<1	<1	<10	15.0	6	<0.5	26	<1	18
*Std MMISRM16	510	<1	<1	<10	16.6	4	<0.5	47	<1	12
*Blk BLANK	<10	<1	<1	<10	<0.5	<3	<0.5	<1	<1	<5
*Blk BLANK	<10	<1	<1	<10	<0.5	5	<0.5	<1	<1	<5

Final : TO110295 Order: Mammoth geological/project:Placer Creek

Element	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
18001	16	240	163
18002	60	640	147
18003	17	70	108
18004	11	2630	164
18005	11	510	185
18006	4	430	46
18007	14	100	100
18008	5	200	94
18009	6	1320	218
18010	15	1630	370
18011	3	90	121
18012	7	630	215
18013	11	240	103
18014	<1	310	45
18015	6	40	78
18016	7	1490	58
18017	4	180	97
18018	6	560	161
18019	4	540	98
18020	4	290	40
18021	6	820	57
18022	20	770	70
18023	4	140	12
18024	25	50	31
18025	7	3060	95
18026	14	1300	124
18027	35	760	110
18028	7	490	60
18029	10	170	66
18030	16	380	112
18031	13	280	237
18032	5	320	52
18033	36	770	139
18034	8	290	72
18035	10	150	66
18036	11	370	206
18037	17	650	304
18038	10	860	184
18039	12	2160	158
18040	4	3370	47
18041	8	430	156
18042	10	540	213
18043	20	560	226

Final : TO110295 Order: Mammoth geological/project:Placer Creek

Element	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
18044	<1	180	17
18045	10	520	245
18046	6	360	156
18047	7	670	189
18048	13	430	303
18049	37	250	324
18050	7	480	146
18051	12	550	167
18052	8	1400	296
18053	22	400	77
18054	19	260	332
18055	7	630	185
18056	8	470	153
18057	5	900	119
18058	5	6820	54
18059	7	1060	188
18060	4	320	37
18061	25	230	338
18062	<1	540	26
18063	2	340	26
18064	10	190	104
18065	4	960	63
18066	4	220	142
18067	8	170	50
18068	4	180	52
18069	15	30	72
18070	5	260	32
18071	26	170	188
*Rep 18013	12	320	101
*Rep 18019	5	390	106
*Rep 18027	38	780	118
*Rep 18046	7	400	161
*Rep 18064	12	130	120
*Rep 18071	24	210	216
*Std MMISRM18	<1	640	25
*Std MMISRM16	<1	220	19
*Blk BLANK	<1	<20	<5
*Blk BLANK	<1	<20	5

Certificate of Analysis

Work Order: TO110296

To: **Tim Henneberry**
COD SGS Minerals
2446 Bidston Road
Mill Bay
BC V0R 2P4

Date: Jun 23, 2010

P.O. No.	:	Mammoth geological/project:Placer Creek
Project No.	:	-
No. Of Samples	:	71
Date Submitted	:	May 31, 2010
Report Comprises	:	Pages 1 to 13 (Inclusive of Cover Sheet)

Distribution of unused material:
STORE:

Certified By : _____
Gavin McGill
Operations Manager

SGS Minerals Services (Toronto) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion
Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
18072	8	74	<10	<0.1	1530	<1	380	22	144	59
18073	13	90	<10	<0.1	1210	<1	340	21	104	42
18074	22	125	<10	<0.1	2530	<1	310	11	508	107
18075	25	103	<10	<0.1	510	<1	270	19	103	44
18076	9	137	<10	<0.1	690	<1	220	11	68	69
18077	32	116	<10	0.1	3280	<1	330	14	318	86
18078	29	118	<10	<0.1	570	<1	230	22	135	62
18079	27	108	<10	0.2	750	<1	150	23	68	137
18080	87	139	<10	<0.1	2720	<1	120	77	389	108
18081	47	102	<10	<0.1	3030	<1	340	103	453	88
18082	33	186	<10	<0.1	2890	<1	80	163	150	61
18083	43	215	<10	<0.1	910	<1	20	32	257	99
18084	70	171	<10	<0.1	910	<1	80	17	236	79
18085	174	162	<10	<0.1	1150	<1	170	32	124	52
18086	37	137	<10	0.2	2360	<1	270	29	87	43
18087	27	199	<10	<0.1	1320	<1	60	41	120	53
18088	43	212	10	0.1	1540	<1	80	7	393	66
18089	20	173	<10	0.1	1580	<1	210	10	113	72
18090	48	54	<10	0.2	3010	<1	690	8	147	66
18091	87	104	<10	0.2	1090	<1	220	10	78	24
18092	47	164	<10	<0.1	1620	<1	200	31	101	46
18093	39	181	<10	0.1	2320	<1	90	14	694	59
18094	16	103	<10	0.1	2710	<1	420	25	103	74
18095	9	172	<10	<0.1	810	<1	130	14	75	91
18096	29	126	<10	<0.1	1640	<1	220	19	259	38
18097	14	89	<10	<0.1	840	<1	440	15	18	31
18098	12	47	<10	<0.1	1080	<1	650	7	45	15
18099	14	131	<10	<0.1	1960	<1	210	16	102	47
18100	<1	30	280	9.5	300	<1	130	78	<5	116
18101	36	98	<10	<0.1	1280	<1	140	22	50	20
18102	17	132	10	0.4	1350	<1	140	11	130	62
18103	37	127	<10	<0.1	1480	<1	90	106	214	56
18104	31	147	10	<0.1	2000	<1	180	78	226	63
18105	15	124	<10	<0.1	1590	<1	140	24	195	80
18106	9	151	<10	<0.1	1000	<1	60	10	249	94
18107	16	174	<10	<0.1	1200	<1	140	17	95	81
18108	16	186	10	0.1	1740	<1	60	14	143	114
18109	29	91	<10	<0.1	550	<1	260	5	24	26
18110	30	141	<10	<0.1	560	<1	90	16	195	42
18111	29	65	<10	<0.1	610	<1	350	3	20	126
18112	5	22	<10	<0.1	580	<1	390	2	17	87
18113	26	89	<10	<0.1	950	<1	380	6	67	27
18114	79	20	<10	0.3	1650	<1	680	11	<5	142

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
18115	58	23	<10	<0.1	1950	<1	890	37	36	30
18116	38	53	<10	0.2	2640	<1	620	7	102	53
18117	38	110	<10	<0.1	3430	<1	360	7	164	86
18118	13	23	<10	<0.1	980	<1	550	9	14	24
18119	31	96	<10	<0.1	2190	<1	430	10	76	30
18120	<1	33	200	11.0	590	<1	120	62	9	108
18121	14	110	<10	<0.1	1120	<1	230	14	83	72
18122	24	86	<10	0.1	1490	<1	350	6	42	20
18123	22	34	<10	0.1	1970	<1	630	7	111	68
18124	15	53	<10	0.1	1200	<1	610	12	49	13
18125	<1	3	<10	<0.1	360	<1	700	22	<5	17
18126	40	35	<10	<0.1	2290	<1	630	5	31	30
18127	15	115	<10	<0.1	850	<1	130	4	88	110
18128	12	129	<10	<0.1	2620	<1	120	5	258	38
18129	9	109	<10	<0.1	1210	<1	90	9	209	58
18130	12	164	<10	<0.1	2360	<1	180	12	202	152
18131	6	139	<10	<0.1	3760	<1	330	6	407	185
18132	16	145	<10	<0.1	4040	<1	240	9	263	60
18133	9	65	<10	0.1	1760	<1	410	6	255	51
18134	2	41	<10	<0.1	910	<1	700	18	45	24
18135	12	34	<10	<0.1	3060	<1	690	8	13	16
18136	8	29	<10	0.1	6810	<1	470	2	280	30
18137	5	210	<10	<0.1	2930	<1	160	7	160	157
18138	3	157	<10	<0.1	1730	<1	90	10	102	82
18139	5	82	<10	<0.1	2600	<1	510	7	374	170
18140	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
18141	4	100	<10	<0.1	3270	<1	290	16	190	471
18142	7	40	<10	<0.1	4860	<1	760	19	128	870
*Rep 18078	28	117	<10	<0.1	540	<1	220	19	145	55
*Rep 18085	143	166	<10	<0.1	1190	<1	180	35	120	56
*Rep 18101	36	110	<10	<0.1	1320	<1	150	25	50	22
*Rep 18121	21	142	<10	<0.1	890	<1	190	11	148	72
*Rep 18134	7	47	<10	<0.1	1420	<1	730	17	67	16
*Rep 18141	4	99	<10	<0.1	3550	<1	330	15	193	448
*Std MMISRM18	26	27	20	9.4	140	<1	210	87	23	78
*Std MMISRM16	18	43	20	26.0	60	<1	230	4	17	63
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

Element	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
18072	<100	0.8	420	10	5.2	2.8	62	3	10	<1
18073	<100	2.1	490	13	7.5	3.0	44	4	14	<1
18074	<100	0.6	1510	71	38.2	16.6	83	8	76	<1
18075	<100	2.8	620	18	9.9	4.7	33	5	22	<1
18076	<100	2.5	510	11	6.8	2.3	43	7	10	<1
18077	<100	0.8	1040	43	21.4	10.4	52	6	46	<1
18078	<100	3.7	1040	37	22.9	7.6	23	7	38	<1
18079	<100	4.1	1220	30	19.5	6.2	22	9	31	<1
18080	<100	1.7	1530	65	34.9	16.3	34	15	77	<1
18081	<100	1.8	1380	111	58.9	22.2	67	6	106	<1
18082	<100	3.5	660	39	25.1	6.1	58	18	30	<1
18083	<100	5.2	650	50	31.3	9.2	49	31	45	<1
18084	<100	4.9	620	48	26.6	10.1	29	25	50	<1
18085	<100	3.0	440	24	12.2	4.5	43	10	21	<1
18086	<100	1.1	910	29	18.4	5.6	52	8	27	<1
18087	<100	4.1	410	39	22.9	7.4	41	19	35	<1
18088	<100	3.2	1260	89	43.9	20.2	67	23	94	<1
18089	<100	5.2	500	15	7.9	3.5	74	8	15	<1
18090	<100	<0.5	3360	41	22.6	10.3	21	2	49	<1
18091	<100	2.3	1040	19	9.5	5.3	27	5	25	<1
18092	<100	5.3	530	17	9.9	3.9	29	7	18	<1
18093	<100	4.1	970	112	59.6	30.0	41	24	134	<1
18094	<100	1.6	540	8	4.1	2.4	58	3	8	<1
18095	<100	7.1	230	11	6.2	2.2	79	12	9	<1
18096	<100	4.2	1110	41	21.7	10.1	23	7	46	<1
18097	<100	2.1	290	2	1.0	0.6	28	3	2	<1
18098	<100	<0.5	690	4	1.7	1.5	26	<1	6	<1
18099	<100	4.1	620	18	10.3	4.5	27	7	20	<1
18100	200	45.7	40600	3	3.2	0.6	113	<1	3	<1
18101	<100	4.4	490	13	7.7	3.0	10	6	14	<1
18102	<100	1.7	840	20	11.3	5.6	48	9	24	<1
18103	<100	3.5	990	32	17.8	8.6	43	16	39	<1
18104	<100	3.6	870	29	14.7	8.1	51	12	35	<1
18105	<100	3.4	650	21	11.4	6.1	41	10	27	<1
18106	<100	4.4	250	21	11.6	5.3	56	17	23	<1
18107	<100	3.1	780	13	7.9	3.7	75	14	14	<1
18108	<100	2.2	410	14	7.7	4.3	128	18	17	<1
18109	<100	3.3	470	3	1.7	0.7	17	4	3	<1
18110	<100	4.2	840	29	16.1	7.6	67	18	34	<1
18111	<100	1.9	1720	2	1.3	0.5	15	3	2	<1
18112	<100	0.8	1860	1	0.8	0.5	23	1	2	<1
18113	<100	2.3	1600	18	10.2	4.8	27	2	23	<1
18114	<100	<0.5	1190	9	6.1	1.3	11	<1	7	<1

Element	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
18115	<100	<0.5	1640	10	4.6	3.2	8	<1	15	<1
18116	<100	<0.5	880	11	5.5	3.7	20	1	14	<1
18117	<100	2.5	1320	22	11.7	6.0	29	3	26	<1
18118	<100	<0.5	350	6	5.1	1.2	18	<1	4	<1
18119	<100	2.5	2010	26	15.2	6.5	24	3	30	<1
18120	100	54.5	58800	5	4.1	1.1	81	<1	4	3
18121	<100	4.6	1200	24	18.0	4.4	57	5	21	<1
18122	<100	2.2	1370	10	5.4	3.0	25	3	14	<1
18123	<100	<0.5	2900	16	8.5	4.6	27	1	22	<1
18124	<100	0.5	1950	9	4.7	3.0	29	1	12	<1
18125	<100	<0.5	50	3	2.2	<0.5	3	<1	2	<1
18126	<100	1.0	810	4	2.3	1.9	17	<1	6	<1
18127	<100	3.8	780	14	8.4	3.3	61	9	15	<1
18128	<100	5.4	480	41	22.9	11.2	35	13	51	<1
18129	<100	6.0	530	50	31.4	11.3	38	13	56	<1
18130	<100	1.7	530	30	17.3	5.7	74	7	25	<1
18131	<100	0.6	840	57	31.4	14.6	78	5	59	<1
18132	<100	3.4	1200	51	28.3	12.6	32	6	53	<1
18133	<100	1.6	1980	61	32.7	17.7	38	3	79	<1
18134	<100	1.3	620	17	11.7	4.4	19	1	21	<1
18135	<100	1.0	510	10	5.1	3.2	8	<1	13	<1
18136	<100	1.0	1140	63	31.8	16.9	18	3	82	<1
18137	<100	1.6	280	16	8.5	4.4	93	9	16	<1
18138	<100	5.5	300	23	14.5	4.5	53	15	21	<1
18139	<100	1.1	450	34	17.3	9.3	27	3	38	<1
18140	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
18141	<100	2.2	540	8	4.4	2.9	29	4	9	<1
18142	100	0.5	610	12	10.4	3.3	7	1	11	<1
*Rep 18078	<100	3.5	1020	40	23.5	8.8	21	7	42	<1
*Rep 18085	<100	3.1	430	22	11.1	4.1	46	10	20	<1
*Rep 18101	<100	4.2	520	13	7.9	2.9	12	6	13	<1
*Rep 18121	<100	4.5	1410	31	19.6	6.5	78	7	31	<1
*Rep 18134	<100	1.2	790	21	12.7	6.2	18	1	29	<1
*Rep 18141	<100	2.1	510	9	4.6	3.0	28	4	9	<1
*Std MMISRM18	<100	7.0	920	3	1.2	1.1	3	<1	5	2
*Std MMISRM16	<100	12.4	710	2	0.9	1.0	2	<1	4	11
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1

Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
18072	<0.5	57.2	34	<5	63	11200	6	3.2	43	153
18073	<0.5	119	30	<5	40	8880	8	2.7	49	73
18074	<0.5	69.9	191	<5	48	9600	6	4.3	302	65
18075	<0.5	66.5	51	<5	13	7130	10	1.7	90	78
18076	<0.5	53.1	22	<5	12	6630	10	1.5	36	58
18077	<0.5	35.5	114	<5	33	4450	5	1.6	171	48
18078	<0.5	31.2	71	<5	9	8530	5	0.6	127	38
18079	<0.5	26.0	58	<5	9	4250	21	0.6	103	58
18080	<0.5	11.0	183	<5	6	4960	40	1.8	316	197
18081	<0.5	62.7	141	<5	27	10200	10	1.0	279	656
18082	<0.5	70.4	57	<5	5	19800	11	2.6	96	291
18083	<0.5	32.9	100	<5	2	8090	9	2.1	177	69
18084	<0.5	32.9	101	<5	6	5840	6	1.1	195	80
18085	<0.5	25.1	45	<5	5	9930	7	2.0	63	288
18086	<0.5	30.1	34	<5	41	5000	<5	0.9	79	125
18087	<0.5	31.7	56	<5	3	13800	5	1.6	107	74
18088	<0.5	17.0	155	<5	7	2800	10	3.8	301	39
18089	<0.5	57.6	35	<5	17	8800	6	3.2	53	112
18090	<0.5	77.3	67	<5	62	5100	<5	0.6	146	218
18091	<0.5	29.8	56	<5	14	2740	6	1.0	100	64
18092	<0.5	66.0	40	<5	13	8640	11	1.0	68	238
18093	<0.5	39.8	362	<5	14	2780	6	2.1	613	49
18094	<0.5	20.7	33	<5	39	4860	7	2.2	39	126
18095	<0.5	38.0	20	<5	5	7140	13	2.1	36	136
18096	<0.5	43.0	117	<5	11	2250	<5	0.7	197	24
18097	<0.5	44.0	6	<5	27	2960	8	1.4	9	66
18098	<0.5	102	15	<5	69	760	<5	0.9	30	280
18099	<0.5	38.6	62	<5	9	14700	9	1.2	79	372
18100	<0.5	306	1	16	94	1550	558	<0.5	5	59
18101	<0.5	23.2	29	<5	4	5270	7	0.5	49	127
18102	<0.5	14.0	58	<5	2	5280	20	1.6	92	46
18103	<0.5	19.9	88	<5	3	5880	18	1.4	157	155
18104	<0.5	54.2	100	<5	8	4980	11	2.8	153	61
18105	<0.5	30.5	85	<5	7	21000	13	1.9	129	37
18106	<0.5	31.8	74	<5	4	45100	27	2.9	107	90
18107	<0.5	42.8	39	<5	5	6050	14	3.5	55	93
18108	<0.5	33.8	48	<5	6	10800	17	4.8	69	101
18109	<0.5	73.2	8	<5	7	4100	9	1.0	14	45
18110	<0.5	44.4	61	<5	3	5060	10	2.1	130	83
18111	<0.5	33.3	5	<5	9	20600	13	1.5	10	41
18112	<0.5	50.0	5	<5	15	10200	43	1.3	9	82
18113	<0.5	56.5	41	<5	11	9150	9	0.9	79	104
18114	<0.5	17.0	<1	<5	35	5250	6	0.6	3	214

Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
18115	<0.5	44.0	20	7	33	3330	12	0.8	44	296
18116	<0.5	27.0	25	<5	61	3350	6	1.6	50	128
18117	<0.5	53.1	66	<5	23	8030	<5	1.5	103	42
18118	<0.5	99.9	7	<5	35	990	6	0.8	15	120
18119	<0.5	39.1	49	<5	32	2730	7	1.2	92	61
18120	<0.5	287	3	22	99	1530	40800	<0.5	9	38
18121	<0.5	75.5	35	<5	17	5930	<5	1.4	67	215
18122	<0.5	35.9	25	<5	23	1230	<5	1.1	51	54
18123	<0.5	35.0	43	7	56	1250	6	1.0	82	257
18124	<0.5	31.2	21	<5	42	930	7	1.0	47	211
18125	<0.5	22.9	1	<5	61	3870	<5	<0.5	4	96
18126	<0.5	28.1	12	<5	53	960	10	1.4	26	80
18127	<0.5	63.0	34	<5	11	13600	9	1.5	57	73
18128	<0.5	35.2	107	<5	15	4820	6	1.3	211	34
18129	<0.5	62.4	110	<5	13	9280	10	0.6	217	75
18130	<0.5	34.0	68	<5	51	5900	6	3.2	89	147
18131	<0.5	76.2	137	7	99	5470	<5	2.9	215	307
18132	<0.5	67.3	117	<5	54	1260	<5	1.2	189	102
18133	<0.5	51.2	141	<5	87	570	<5	1.7	285	212
18134	<0.5	14.6	26	8	72	3880	6	0.7	64	547
18135	<0.5	39.3	10	11	54	2100	8	0.8	31	196
18136	<0.5	116	115	<5	127	1320	<5	0.8	257	107
18137	<0.5	65.1	54	<5	30	3280	8	3.4	67	187
18138	<0.5	67.2	35	<5	6	6780	5	1.5	71	124
18139	<0.5	90.6	99	9	157	2710	<5	1.1	164	737
18140	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
18141	<0.5	73.4	42	<5	50	80300	20	1.6	51	277
18142	<0.5	68.5	17	<5	270	11600	33	0.9	34	1490
*Rep 18078	<0.5	27.2	80	<5	8	6240	<5	0.5	145	35
*Rep 18085	<0.5	30.9	44	<5	6	12500	8	2.2	61	309
*Rep 18101	<0.5	22.7	30	<5	4	5520	7	<0.5	50	144
*Rep 18121	<0.5	78.0	63	<5	13	8090	12	2.8	114	179
*Rep 18134	<0.5	15.0	38	11	76	3060	8	0.8	93	805
*Rep 18141	<0.5	78.3	43	<5	53	56600	16	1.4	52	267
*Std MMISRM18	<0.5	32.4	8	<5	96	650	39	<0.5	18	614
*Std MMISRM16	<0.5	43.2	4	<5	32	110	55	<0.5	15	236
*Blk BLANK	<0.5	<0.1	<1	<5	<1	<10	<5	<0.5	<1	<5
*Blk BLANK	<0.5	<0.1	<1	<5	<1	<10	<5	<0.5	<1	<5

Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
18072	1.5	110	<1	10	<1	133	<1	32	10	<1
18073	2.3	50	<1	11	<1	199	<1	32	13	<1
18074	2.5	110	1	67	<1	60	<1	151	70	<1
18075	1.2	40	<1	19	<1	154	<1	30	21	<1
18076	1.7	50	<1	8	<1	178	<1	26	10	<1
18077	1.4	80	<1	37	<1	86	<1	76	42	<1
18078	0.8	60	<1	26	<1	193	<1	44	33	<1
18079	0.8	100	<1	21	<1	167	<1	55	27	<1
18080	0.7	310	<1	67	<1	98	<1	42	75	<1
18081	2.5	60	<1	55	<1	109	<1	69	82	<1
18082	2.7	140	<1	21	<1	125	<1	39	26	<1
18083	1.9	270	<1	37	<1	94	<1	42	44	<1
18084	1.2	220	<1	41	<1	119	<1	47	50	<1
18085	1.3	100	<1	14	<1	135	<1	25	17	<1
18086	1.2	130	<1	15	<1	155	<1	43	23	<1
18087	1.9	200	<1	23	<1	142	<1	41	30	<1
18088	3.2	220	<1	62	<1	88	<1	88	84	<1
18089	3.6	100	<1	12	<1	303	<1	32	14	<1
18090	0.8	30	<1	28	<1	80	<1	30	39	<1
18091	2.6	50	<1	20	<1	183	<1	30	26	<1
18092	1.2	90	<1	15	<1	211	<1	32	18	<1
18093	2.3	280	1	134	<1	171	<1	143	140	<1
18094	2.6	60	<1	9	<1	92	<1	28	9	<1
18095	1.3	170	<1	8	<1	202	<1	31	10	<1
18096	0.5	80	<1	42	<1	173	<1	59	49	<1
18097	2.1	30	<1	2	<1	106	<1	8	2	<1
18098	5.0	10	<1	6	<1	61	<1	8	7	<1
18099	0.8	40	<1	17	<1	127	<1	23	19	<1
18100	0.2	1410	3	<1	<1	509	121	24	1	<1
18101	0.6	50	<1	10	<1	87	<1	16	13	<1
18102	1.3	50	2	19	<1	76	2	39	23	<1
18103	1.3	90	2	33	<1	109	<1	43	38	<1
18104	3.4	70	2	34	<1	240	<1	51	35	<1
18105	1.4	70	2	29	<1	211	<1	41	29	<1
18106	1.9	80	3	25	<1	184	<1	42	25	<1
18107	2.3	130	1	12	<1	164	<1	33	13	<1
18108	7.9	170	<1	16	<1	162	2	50	16	<1
18109	2.0	20	<1	3	<1	243	<1	8	3	<1
18110	3.5	100	2	26	<1	213	<1	58	33	<1
18111	3.4	20	<1	2	<1	109	<1	10	2	<1
18112	0.9	10	<1	2	<1	74	<1	<5	2	<1
18113	0.7	20	<1	16	<1	194	<1	25	19	<1
18114	0.1	20	<1	<1	<1	41	<1	13	3	<1

Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
18115	0.5	10	<1	9	<1	27	<1	5	11	<1
18116	1.4	10	<1	10	<1	62	<1	10	13	<1
18117	0.7	40	1	23	<1	158	<1	40	23	<1
18118	0.6	30	<1	3	<1	35	<1	9	4	<1
18119	1.1	60	<1	18	<1	122	<1	27	24	<1
18120	0.3	310	64	2	<1	533	101	24	3	<1
18121	1.7	80	<1	13	<1	233	<1	35	18	<1
18122	1.9	30	<1	10	<1	128	<1	16	13	<1
18123	0.5	20	<1	17	<1	39	<1	13	19	<1
18124	1.3	10	<1	9	<1	43	<1	10	11	<1
18125	1.0	50	<1	<1	<1	25	<1	8	1	<1
18126	0.5	<10	<1	5	<1	87	<1	8	6	<1
18127	2.1	90	<1	12	<1	229	<1	49	14	<1
18128	2.3	100	2	43	<1	225	<1	75	50	<1
18129	1.4	130	<1	43	<1	244	<1	92	52	<1
18130	2.1	170	2	20	<1	122	<1	97	21	<1
18131	2.8	140	2	47	<1	73	<1	167	52	<1
18132	1.1	130	1	39	<1	168	<1	90	48	<1
18133	2.9	50	1	56	<1	129	<1	53	69	<1
18134	0.3	20	<1	12	<1	45	<1	14	17	<1
18135	0.4	30	<1	5	<1	55	<1	8	10	<1
18136	1.3	20	<1	47	<1	138	<1	39	67	<1
18137	5.5	160	2	15	<1	99	<1	60	15	<1
18138	2.3	150	<1	14	<1	215	<1	60	18	<1
18139	1.4	50	1	36	<1	134	<1	86	38	<1
18140	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
18141	1.5	10	1	12	<1	206	<1	64	10	<1
18142	0.6	60	<1	7	<1	168	<1	40	9	<1
*Rep 18078	0.7	60	<1	29	<1	187	<1	46	38	<1
*Rep 18085	1.6	110	<1	14	<1	135	<1	25	17	<1
*Rep 18101	0.7	50	<1	10	<1	84	<1	16	12	<1
*Rep 18121	3.0	90	<1	23	<1	236	<1	51	27	<1
*Rep 18134	0.2	20	<1	17	<1	49	<1	15	26	<1
*Rep 18141	1.3	10	1	13	<1	218	<1	65	10	<1
*Std MMISRM18	0.8	230	17	4	6	175	<1	<5	5	<1
*Std MMISRM16	0.3	70	26	3	<1	344	<1	8	4	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1

Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
18072	2050	<1	2	<10	15.6	130	<0.5	7	<1	53
18073	1320	<1	2	<10	12.7	253	<0.5	12	<1	72
18074	1880	<1	13	<10	32.9	935	<0.5	30	<1	401
18075	710	<1	4	<10	8.7	157	<0.5	18	<1	102
18076	570	<1	2	<10	9.4	209	<0.5	13	<1	58
18077	1720	<1	8	<10	17.9	564	<0.5	19	<1	231
18078	310	<1	6	<10	6.4	92	<0.5	23	<1	232
18079	350	<1	5	<10	4.3	213	<0.5	20	<1	192
18080	290	<1	12	<10	19.4	526	<0.5	18	<1	394
18081	1360	<1	19	<10	14.9	116	<0.5	17	<1	586
18082	460	<1	6	<10	14.0	535	0.5	13	<1	245
18083	160	<1	8	<10	13.8	381	<0.5	15	<1	321
18084	190	<1	8	<10	14.5	279	0.5	18	<1	291
18085	340	<1	4	<10	13.8	341	<0.5	12	<1	124
18086	1890	<1	5	<10	6.1	108	<0.5	10	<1	203
18087	230	<1	6	<10	14.0	376	<0.5	14	<1	239
18088	270	<1	16	<10	28.4	2450	<0.5	20	<1	470
18089	540	<1	3	<10	10.9	552	<0.5	8	<1	94
18090	2170	<1	7	<10	11.4	3	<0.5	30	<1	285
18091	480	<1	4	<10	4.7	127	<0.5	14	<1	118
18092	340	<1	3	<10	8.2	218	<0.5	10	<1	101
18093	310	<1	22	<10	17.8	925	0.7	22	<1	671
18094	1860	<1	1	<10	8.6	102	<0.5	6	<1	44
18095	350	<1	2	<10	9.1	421	<0.5	7	<1	59
18096	780	<1	8	<10	11.8	130	<0.5	22	<1	248
18097	1020	<1	<1	<10	1.5	123	<0.5	3	<1	11
18098	3670	<1	<1	<10	2.7	30	<0.5	8	<1	20
18099	440	<1	3	<10	7.1	222	<0.5	13	<1	152
18100	7710	<1	<1	<10	4.6	<3	<0.5	37	10	26
18101	240	<1	2	<10	5.8	94	<0.5	12	<1	80
18102	190	<1	4	<10	16.7	717	<0.5	17	<1	116
18103	180	<1	6	<10	17.8	365	<0.5	19	<1	179
18104	400	<1	6	<10	19.1	616	<0.5	18	<1	152
18105	250	<1	4	<10	16.5	378	<0.5	18	<1	112
18106	140	<1	4	<10	24.5	721	<0.5	16	<1	104
18107	280	<1	2	<10	13.9	780	<0.5	10	<1	75
18108	260	<1	3	<10	12.4	1080	<0.5	6	<1	73
18109	440	<1	<1	<10	3.9	93	<0.5	7	<1	15
18110	190	<1	5	<10	15.1	381	<0.5	14	<1	158
18111	550	<1	<1	<10	3.0	146	<0.5	9	<1	11
18112	680	<1	<1	<10	1.4	39	<0.5	28	<1	8
18113	720	<1	3	<10	4.9	45	<0.5	19	<1	127
18114	1670	<1	1	<10	7.9	11	<0.5	17	<1	39

Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
18115	1790	<1	2	<10	6.4	16	<0.5	18	<1	61
18116	1560	<1	2	<10	13.8	21	<0.5	23	<1	57
18117	1330	<1	4	<10	12.8	113	<0.5	21	<1	118
18118	770	<1	<1	<10	1.5	11	<0.5	25	<1	47
18119	1160	<1	5	<10	7.8	81	<0.5	26	<1	160
18120	8890	<1	<1	<10	5.4	4	0.5	36	58	34
18121	760	<1	4	<10	7.1	218	<0.5	27	<1	170
18122	700	<1	2	<10	6.7	74	<0.5	15	<1	59
18123	2130	<1	3	<10	12.9	39	<0.5	44	<1	101
18124	1480	<1	2	<10	5.9	31	<0.5	19	<1	53
18125	1850	<1	<1	<10	<0.5	12	<0.5	4	<1	23
18126	2110	<1	<1	<10	8.1	25	<0.5	19	<1	25
18127	320	<1	3	<10	8.4	271	<0.5	11	<1	77
18128	680	<1	8	<10	11.6	247	<0.5	15	<1	241
18129	450	<1	9	<10	8.5	103	0.6	14	<1	322
18130	1470	<1	5	<10	21.7	479	<0.5	18	<1	177
18131	3070	<1	10	<10	24.2	401	<0.5	19	<1	307
18132	1710	<1	9	<10	14.1	306	<0.5	16	<1	307
18133	2760	<1	12	<10	12.5	59	<0.5	29	<1	344
18134	1960	<1	3	<10	2.7	33	<0.5	34	<1	131
18135	2080	<1	2	<10	9.0	21	<0.5	18	<1	51
18136	6110	<1	12	<10	9.7	19	0.5	32	<1	351
18137	1360	<1	3	<10	21.9	732	<0.5	7	<1	88
18138	450	<1	4	<10	9.8	287	<0.5	12	<1	132
18139	5080	<1	7	<10	17.0	40	<0.5	28	<1	152
18140	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
18141	3160	<1	2	<10	9.0	76	0.9	16	<1	40
18142	7360	<1	2	<10	6.5	11	1.7	96	<1	53
*Rep 18078	300	<1	7	<10	6.4	76	<0.5	23	<1	251
*Rep 18085	330	<1	4	<10	14.0	402	<0.5	12	<1	109
*Rep 18101	260	<1	2	<10	3.6	90	<0.5	12	<1	82
*Rep 18121	520	<1	5	<10	12.6	474	<0.5	31	<1	197
*Rep 18134	2110	<1	4	<10	3.4	21	<0.5	50	<1	161
*Rep 18141	3570	<1	2	<10	9.6	59	0.7	15	<1	43
*Std MMISRM18	1200	<1	<1	<10	13.9	<3	<0.5	28	<1	19
*Std MMISRM16	460	<1	<1	<10	20.2	6	<0.5	55	<1	10
*Blk BLANK	<10	<1	<1	<10	<0.5	3	<0.5	<1	<1	<5
*Blk BLANK	<10	<1	<1	<10	<0.5	<3	<0.5	<1	<1	<5

Final : TO110296 Order: Mammoth geological/project:Placer Creek

Element	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
18072	4	740	114
18073	6	570	198
18074	29	580	563
18075	8	230	171
18076	6	230	194
18077	15	610	223
18078	18	330	168
18079	16	290	159
18080	27	420	283
18081	41	2740	121
18082	20	2660	284
18083	25	550	263
18084	21	410	301
18085	10	1090	264
18086	16	200	127
18087	18	370	261
18088	29	200	480
18089	6	630	190
18090	17	240	93
18091	7	180	124
18092	8	370	155
18093	46	120	389
18094	3	400	95
18095	5	60	149
18096	17	90	253
18097	<1	240	37
18098	1	200	39
18099	8	450	160
18100	4	4380	42
18101	6	420	114
18102	9	160	247
18103	15	710	279
18104	12	200	332
18105	10	100	298
18106	10	100	425
18107	7	140	196
18108	6	270	179
18109	1	120	68
18110	14	60	245
18111	1	60	55
18112	<1	40	24
18113	8	20	61
18114	6	30	46

Final : TO110296 Order: Mammoth geological/project:Placer Creek

Element	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
18115	3	130	29
18116	4	60	62
18117	10	50	152
18118	5	150	16
18119	12	210	84
18120	4	420	41
18121	15	230	94
18122	4	40	74
18123	7	60	74
18124	4	160	37
18125	2	50	<5
18126	2	60	52
18127	7	150	140
18128	19	180	206
18129	27	320	130
18130	13	990	309
18131	25	220	279
18132	22	150	193
18133	24	80	107
18134	11	40	27
18135	4	80	34
18136	23	150	89
18137	7	550	256
18138	13	270	180
18139	14	470	202
18140	L.N.R.	L.N.R.	L.N.R.
18141	4	540	142
18142	12	380	96
*Rep 18078	18	280	167
*Rep 18085	8	1390	258
*Rep 18101	7	480	111
*Rep 18121	17	210	163
*Rep 18134	12	<20	32
*Rep 18141	4	610	145
*Std MMISRM18	<1	810	27
*Std MMISRM16	<1	270	19
*Blk BLANK	<1	<20	<5
*Blk BLANK	<1	<20	<5