



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	\$96,873.52
Geochemical Sampling		

AUTHOR(S) _____ SIGNATURE(S) _____
Steve Butrenchuk, P.Geol. "signed and sealed"

NOTICE OF WORK NUMBER(S) / DATE(S) _____ YEAR OF WORK 2008

STATEMENT OF WORK – CASH PAYMENT EVENT NUMBERS / DATE(S) 4287829

PROPERTY NAME Bonaparte

CLAIM NAME(S) (on which work was done) _____
Bonaparte 10-16, Eagan 1-3, Eagan 5 to 7

COMMODITIES SOUGHT Porphyry Copper

MINERAL INVENTORY MINFILE NUMBERS, IF KNOWN _____

MINING DIVISION	<u>Clinton</u>	NTS	<u>092P/02, /07</u>	TRIM <u>092P017</u>	<u>092P037, 092P047</u>
LATITUDE		LONGITUDE			(at centre of work)
NORTHING 5687000	EASTING 664000	UTM ZONE	10	MAP DATUM	NAD 83

OWNER 1 OWNER 2

Mammoth Geological Ltd.

MAILING ADDRESS
2446 Bidston Road
Mill Bay, B.C. V0R 2P4

OPERATORS (who paid for work)
SAME

MAILING ADDRESS

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size, attitude)
The Bonaparte property lies in the Quesnel Trough and is underlain by the Triassic Jurassic Thuya batholith, overlain by Eocene Kamloops volcanics and Miocene Chilcotin flood basalts. MMI soil sampling in the North and South Grid areas located several multi-element soil anomalies requiring further exploration.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS
03601, 05004, 20635

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 – North Grid	318	Eagan 1-3, 5-7	
Soil – South Grid	251	Bonaparte 10-16	
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	96,873.52

**BC Geological Survey
Assessment Report
30949**

GEOLOGICAL REPORT

BONAPARTE PROJECT

Clinton Mining Division

TRIM Sheet 092P017, 092P018, 092P027, 092P028, 092P036, 092P037, 092P038, 029P046,

092P047, 092P048

UTM (NAD 83) ZONE 10 664000E 5687000N

FOR

Rockridge Capital Corp.
Suite 1588 – 609 Granville Street
Vancouver, B.C. V7Y 1G5

By: Stephen B. Butrenchuk, P.Geol.
April 20, 2009

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SUMMARY

Rockridge Capital Corp. is exploring the Bonaparte property for its porphyry copper-molybdenum potential. The 57,705 hectare property is road accessible and lies 55 kilometres southeast of 100 Mile House, British Columbia. The Bonaparte property claims are currently held in trust by Frances Jean Macpherson for R. Tim Henneberry, the principal of Mammoth Geological Ltd. Rockridge is earning a 100% interest, subject to a 1.5% NSR royalty, by making cash payment totaling \$125,000, issuing 1,000,000 units (consisting of one common share and one 24 month share purchase warrant) and making \$200,000 in exploration expenditures over the next 12 months.

The Bonaparte property lies in the prospective Quesnel Trough and is underlain largely by the Triassic Jurassic Thuya batholith overlain by Eocene Kamloops volcanics and Miocene Chilcotin flood basalts. Copper and molybdenum mineralization have been documented in the Thuya batholith, though bedrock mineralization has not yet been found on the Bonaparte property.

British Columbia Ministry of Energy, Mines and Petroleum Resources Regional Geochemical Survey copper results showed drainages within two areas of the Bonaparte property were anomalous in copper. The North Grid and South Grid were laid out to run 150 metre by 150 metre Mobile Metal Ion (MMI) soil geochemical surveys.

The 318 samples taken from the North Grid located a series of isolated multi element anomalies displaying a general northeast trend in a 1 kilometre by 1 kilometre area in the southeast corner of the grid. The 251 samples taken from the South Grid found a 900 metre by 500 metre strong north to northwest trending Cu, Mo, Ag anomaly down the centre of the northern section of the grid. These multi element anomalies could be representing the surface expression of buried porphyry copper - molybdenum mineralization

A two phase exploration program is recommended to further the development of the Bonaparte property.

The first phase will consist of further MMI soil geochemistry reconnaissance geological mapping. The 1 kilometre by 1 kilometre anomalous area on the North Grid will be tightened up to a 50 metre by 50 metre grid. The 1000 metre by 500 metre anomaly on the South Grid will be tightened to a 50 metre by 50 metre grid. The large unsampled areas within the South Grid will be filled in at the 150 metre by 150 metre spacing. Finally a series of reconnaissance MMI lines will be run over the remaining southern section of the property to follow up on RGS copper anomalies. Total cost of this phase is estimated at \$203,000.

The second phase will be Induced Polarization surveys over the anomalous areas on the North Grid and South Grid. A total of 20 line kilometres of deep IP has been budgeted at a cost of \$111,000.

Phase I MMI Survey	21 days	\$202,745
Phase II IP Survey	12 days	\$110,870
Contingency		\$ 36,385
Total	33 days	\$350,000

The cost of the 2008 MMI soil program was \$96,873.52.

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INTRODUCTION

The purpose of this Technical Report is to compile the results of the 2008 exploration program on the Bonaparte property.

This report was commissioned by Mr. Karl Kottmeier of Rockridge Capital Corp.

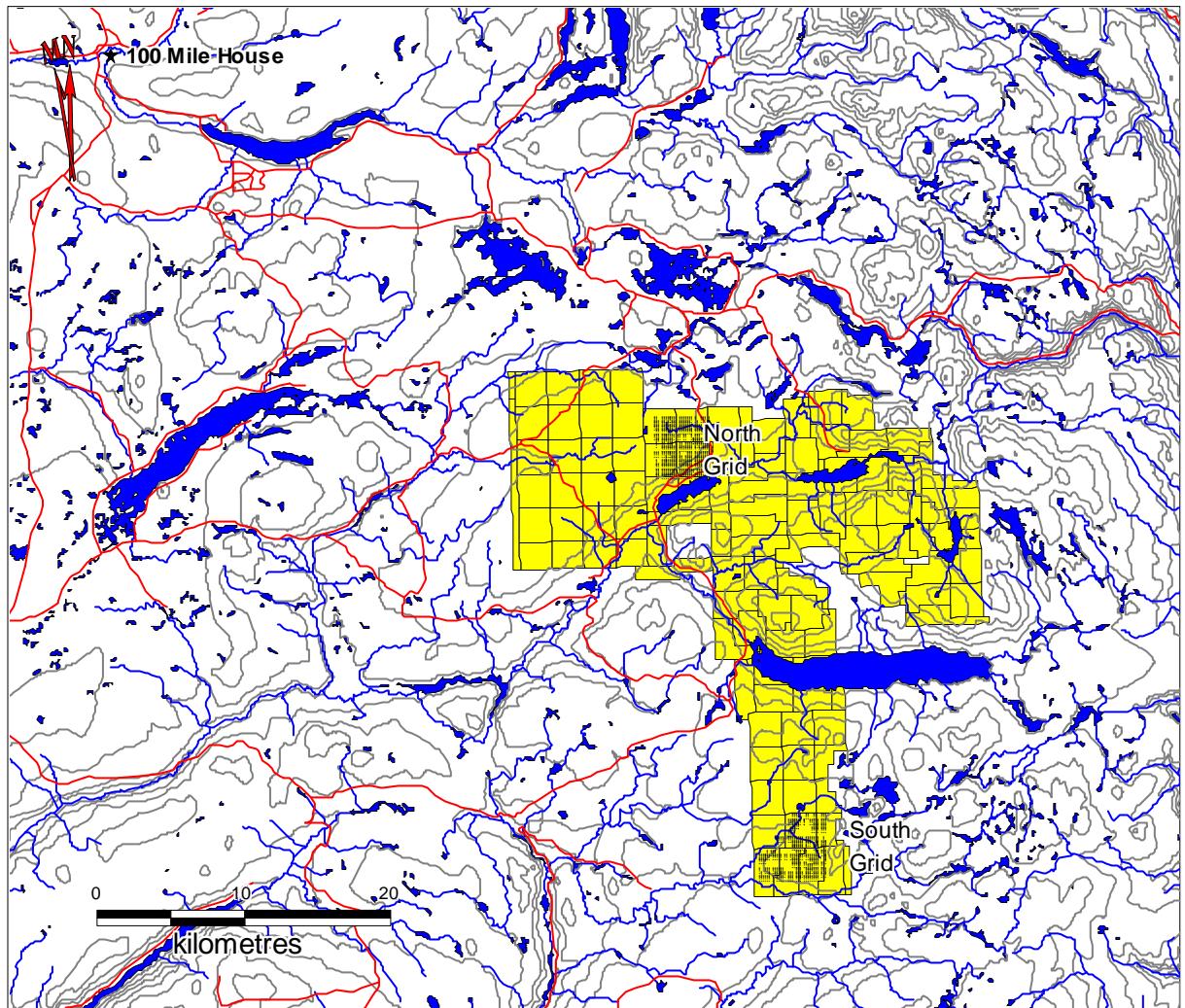
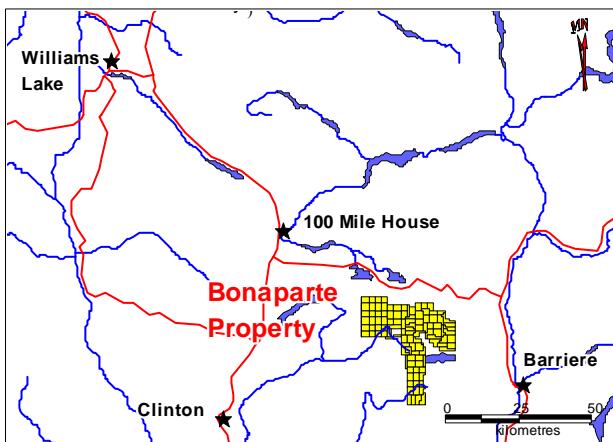
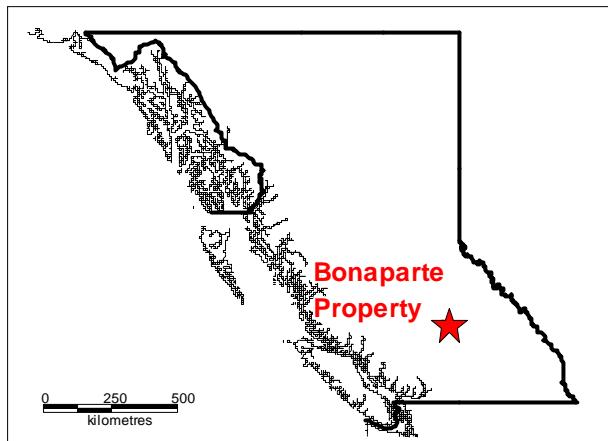
Stephen B. Butrenchuk, P.Geol., serves as the independent Qualified Person responsible for preparing the Technical Report.

In preparing this report, the author relied on geological reports listed in the References (Section 21) of this report and his extensive years of mineral exploration experience in British Columbia. The author visited the property on November 7, 2008.

RELIANCE ON OTHER EXPERTS

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

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



**BONAPARTE PROJECT
LOCATION**
Figure 1

PROPERTY DESCRIPTION AND LOCATION

The Bonaparte Project lies on TRIM claim sheets 092P017, 092P018, 092P027, 092P028, 092P036, 092P037, 092P038, 029P046, 092P047, 092P048 in the Clinton Mining Division. The property consists of 112 claims totaling 52,705.6 hectares. The geographic center of the property is approximately UTM ZONE 10 664000E 5687000N (NAD 83).

All claims are registered in the name of Frances Jean Macpherson. Ms. Macpherson is holding them in trust for Mr. R. Tim Henneberry of Mill Bay, B.C. Mr. Henneberry is the owner of Mammoth Geological Ltd.

Table 1. List of Mineral Tenures

Tenure Number	Tenure Type	Claim Name	Owner	Map Number	Good To Date	Area
589098	Mineral	MACHETE 1	116548 (100%)	092P	2009/jul/30	503.893
589099	Mineral	MACHETE 2	116548 (100%)	092P	2009/jul/30	503.853
589100	Mineral	MACHETE 3	116548 (100%)	092P	2009/jul/30	483.763
589101	Mineral	MACHETE 4	116548 (100%)	092P	2009/jul/30	504.033
589102	Mineral	MACHETE 5	116548 (100%)	092P	2009/jul/30	504.244
589103	Mineral	MACHETE 6	116548 (100%)	092P	2009/jul/30	504.377
589104	Mineral	MACHETE 7	116548 (100%)	092P	2009/jul/30	504.504
589105	Mineral	MACHETE 8	116548 (100%)	092P	2009/jul/30	504.628
589106	Mineral	MACHETE 9	116548 (100%)	092P	2009/jul/30	504.758
589107	Mineral	MACHETE 10	116548 (100%)	092P	2009/jul/30	504.173
589108	Mineral	MACHETE 11	116548 (100%)	092P	2009/jul/30	504.071
589109	Mineral	MACHETE 12	116548 (100%)	092P	2009/jul/30	504.114
589110	Mineral	MACHETE 13	116548 (100%)	092P	2009/jul/30	504.112
589111	Mineral	MACHETE 14	116548 (100%)	092P	2009/jul/30	504.331
589112	Mineral	MACHETE 15	116548 (100%)	092P	2009/jul/30	504.51
589113	Mineral	MACHETE 16	116548 (100%)	092P	2009/jul/30	504.636
589114	Mineral	MACHETE 17	116548 (100%)	092P	2009/jul/30	504.774
589115	Mineral	MACHETE 18	116548 (100%)	092P	2009/jul/30	504.96
589116	Mineral	MACHETE 19	116548 (100%)	092P	2009/jul/30	505.187
589117	Mineral	MACHETE 20	116548 (100%)	092P	2009/jul/30	505.288
589118	Mineral	MACHETE 21	116548 (100%)	092P	2009/jul/30	505.144
589119	Mineral	MACHETE 22	116548 (100%)	092P	2009/jul/30	505.06
589120	Mineral	MACHETE 23	116548 (100%)	092P	2009/jul/30	504.974
589121	Mineral	MACHETE 24	116548 (100%)	092P	2009/jul/30	504.779
589122	Mineral	MACHETE 25	116548 (100%)	092P	2009/jul/30	504.584
589123	Mineral	MACHETE 26	116548 (100%)	092P	2009/jul/30	504.365
589124	Mineral	MACHETE 27	116548 (100%)	092P	2009/jul/30	504.313
589125	Mineral	MACHETE 28	116548 (100%)	092P	2009/jul/30	504.317
589126	Mineral	MACHETE 29	116548 (100%)	092P	2009/jul/30	504.33
589127	Mineral	MACHETE 30	116548 (100%)	092P	2009/jul/30	504.57
589128	Mineral	MACHETE 31	116548 (100%)	092P	2009/jul/30	504.544
589129	Mineral	MACHETE 32	116548 (100%)	092P	2009/jul/30	504.547
589130	Mineral	MACHETE 33	116548 (100%)	092P	2009/jul/30	504.698
589131	Mineral	MACHETE 34	116548 (100%)	092P	2009/jul/30	504.771
589132	Mineral	MACHETE 35	116548 (100%)	092P	2009/jul/30	504.774
589133	Mineral	MACHETE 36	116548 (100%)	092P	2009/jul/30	504.91

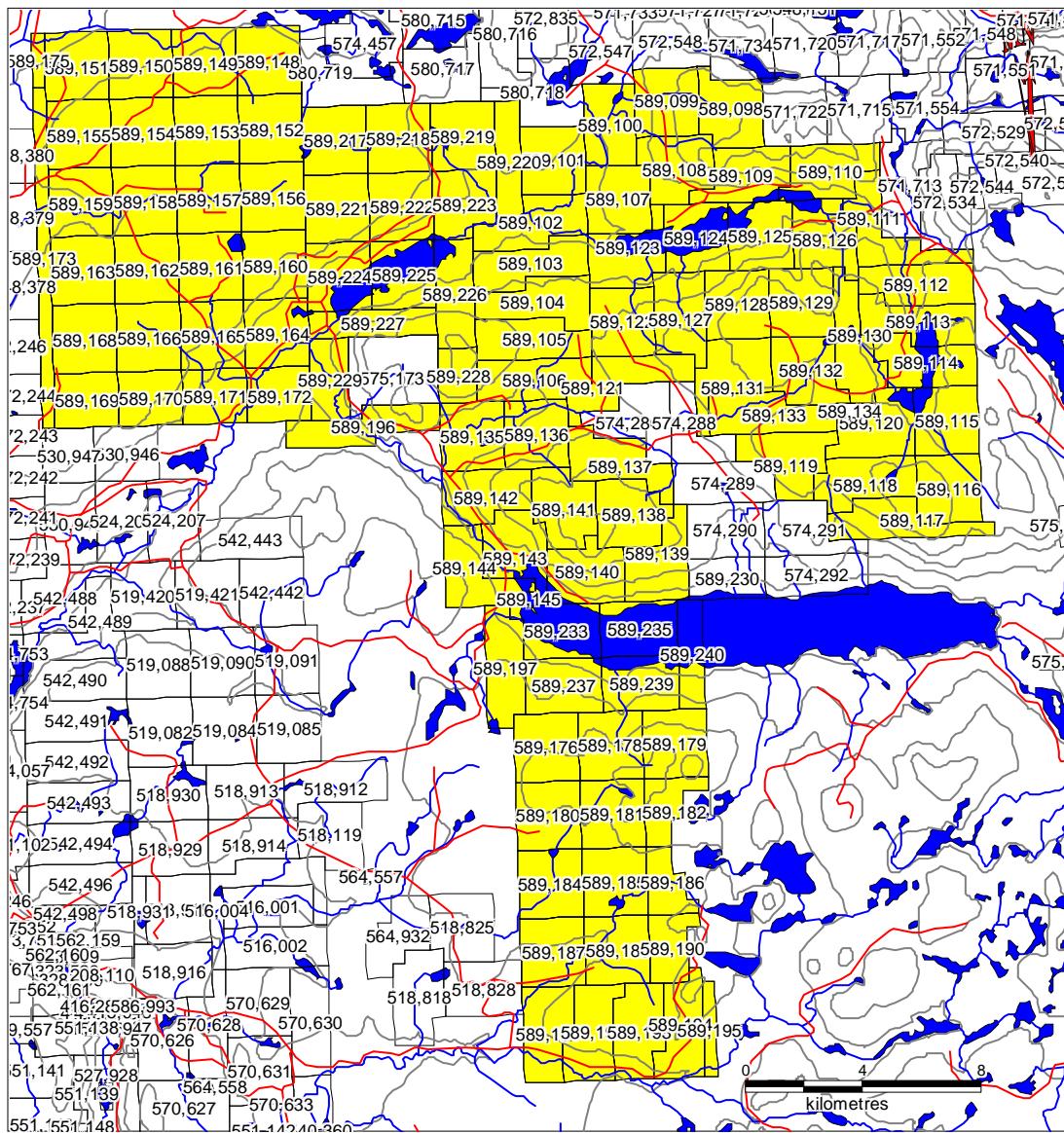
Tenure Number	Tenure Type	Claim Name	Owner	Map Number	Good To Date	Area
589134	Mineral	MACHETE 37	116548 (100%)	092P	2009/jul/30	80.785
589135	Mineral	MACHETE 38	116548 (100%)	092P	2009/jul/30	504.939
589136	Mineral	MACHETE 39	116548 (100%)	092P	2009/jul/30	504.943
589137	Mineral	MACHETE 40	116548 (100%)	092P	2009/jul/30	505.045
589138	Mineral	MACHETE 41	116548 (100%)	092P	2009/jul/30	505.222
589139	Mineral	MACHETE 42	116548 (100%)	092P	2009/jul/30	505.394
589140	Mineral	MACHETE 43	116548 (100%)	092P	2009/jul/30	505.419
589141	Mineral	MACHETE 44	116548 (100%)	092P	2009/jul/30	505.192
589142	Mineral	MACHETE 45	116548 (100%)	092P	2009/jul/30	505.135
589143	Mineral	MACHETE 46	116548 (100%)	092P	2009/jul/30	505.324
589144	Mineral	MACHETE 47	116548 (100%)	092P	2009/jul/30	505.394
589145	Mineral	MACHETE 48	116548 (100%)	092P	2009/jul/30	20.219
589148	Mineral	CRYSTAL 1	116548 (100%)	092P	2009/jul/30	503.657
589149	Mineral	CRYSTAL 2	116548 (100%)	092P	2009/jul/30	503.656
589150	Mineral	CRYSTAL 3	116548 (100%)	092P	2009/jul/30	503.652
589151	Mineral	CRYSTAL 4	116548 (100%)	092P	2009/jul/30	503.651
589152	Mineral	CRYSTAL 5	116548 (100%)	092P	2009/jul/30	503.885
589153	Mineral	CRYSTAL 6	116548 (100%)	092P	2009/jul/30	503.884
589154	Mineral	CRYSTAL 7	116548 (100%)	092P	2009/jul/30	503.88
589155	Mineral	CRYSTAL 8	116548 (100%)	092P	2009/jul/30	503.878
589156	Mineral	CRYSTAL 9	116548 (100%)	092P	2009/jul/30	504.113
589157	Mineral	CRYSTAL 10	116548 (100%)	092P	2009/jul/30	504.112
589158	Mineral	CRYSTAL 11	116548 (100%)	092P	2009/jul/30	504.107
589159	Mineral	CRYSTAL 12	116548 (100%)	092P	2009/jul/30	504.106
589160	Mineral	CRYSTAL 13	116548 (100%)	092P	2009/jul/30	504.339
589161	Mineral	CRYSTAL 14	116548 (100%)	092P	2009/jul/30	504.338
589162	Mineral	CRYSTAL 15	116548 (100%)	092P	2009/jul/30	504.332
589163	Mineral	CRYSTAL 16	116548 (100%)	092P	2009/jul/30	504.331
589164	Mineral	CRYSTAL 17	116548 (100%)	092P	2009/jul/30	504.565
589165	Mineral	CRYSTAL 18	116548 (100%)	092P	2009/jul/30	504.564
589166	Mineral	CRYSTAL 19	116548 (100%)	092P	2009/jul/30	504.558
589168	Mineral	CRYSTAL 20	116548 (100%)	092P	2009/jul/30	504.557
589169	Mineral	CRYSTAL 21	116548 (100%)	092P	2009/jul/30	403.809
589170	Mineral	CRYSTAL 22	116548 (100%)	092P	2009/jul/30	403.81
589171	Mineral	CRYSTAL 23	116548 (100%)	092P	2009/jul/30	403.815
589172	Mineral	CRYSTAL 24	116548 (100%)	092P	2009/jul/30	403.816
589173	Mineral	CRYSTAL 25	116548 (100%)	092P	2009/jul/30	504.287
589175	Mineral	CRYSTAL 26	116548 (100%)	092P	2009/jul/30	80.581
589176	Mineral	BONAPARTE 1	116548 (100%)	092P	2009/jul/30	505.987
589178	Mineral	BONAPARTE 2	116548 (100%)	092P	2009/jul/30	505.985
589179	Mineral	BONAPARTE 3	116548 (100%)	092P	2009/jul/30	505.978
589180	Mineral	BONAPARTE 4	116548 (100%)	092P	2009/jul/30	506.217
589181	Mineral	BONAPARTE 5	116548 (100%)	092P	2009/jul/30	506.214
589182	Mineral	BONAPARTE 6	116548 (100%)	092P	2009/jul/30	303.713
589184	Mineral	BONAPARTE 7	116548 (100%)	092P	2009/jul/30	506.446

Tenure Number	Tenure Type	Claim Name	Owner	Map Number	Good To Date	Area
589185	Mineral	BONAPARTE 8	116548 (100%)	092P	2009/jul/30	506.444
589186	Mineral	BONAPARTE 9	116548 (100%)	092P	2009/jul/30	283.615
589187	Mineral	BONAPARTE 10	116548 (100%)	092P	2009/jul/30	506.705
589189	Mineral	BONAPARTE 11	116548 (100%)	092P	2009/jul/30	506.702
589190	Mineral	BONAPARTE 12	116548 (100%)	092P	2009/jul/30	324.281
589191	Mineral	BONAPARTE 13	116548 (100%)	092P	2009/jul/30	506.986
589192	Mineral	BONAPARTE 14	116548 (100%)	092P	2009/jul/30	507
589193	Mineral	BONAPARTE 15	116548 (100%)	092P	2009/jul/30	506.985
589194	Mineral	BONAPARTE 16	116548 (100%)	092P	2009/jul/30	486.705
589195	Mineral	BONAPARTE 17	116548 (100%)	092P	2009/jul/30	141.95
589196	Mineral	M-C BRIDGE	116548 (100%)	092P	2009/jul/30	504.892
589197	Mineral	M-B BRIDGE	116548 (100%)	092P	2009/jul/30	505.71
589217	Mineral	EAGAN 1	116548 (100%)	092P	2009/jul/30	503.933
589218	Mineral	EAGAN 2	116548 (100%)	092P	2009/jul/30	503.936
589219	Mineral	EAGAN 3	116548 (100%)	092P	2009/jul/30	503.937
589220	Mineral	EAGAN 4	116548 (100%)	092P	2009/jul/30	362.902
589221	Mineral	EAGAN 5	116548 (100%)	092P	2009/jul/30	504.161
589222	Mineral	EAGAN 6	116548 (100%)	092P	2009/jul/30	504.165
589223	Mineral	EAGAN 7	116548 (100%)	092P	2009/jul/30	463.825
589224	Mineral	EAGAN 8	116548 (100%)	092P	2009/jul/30	504.387
589225	Mineral	EAGAN 9	116548 (100%)	092P	2009/jul/30	504.393
589226	Mineral	EAGAN 10	116548 (100%)	092P	2009/jul/30	484.283
589227	Mineral	EAGAN 11	116548 (100%)	092P	2009/jul/30	403.639
589228	Mineral	EAGAN 12	116548 (100%)	092P	2009/jul/30	242.273
589229	Mineral	EAGAN 13	116548 (100%)	092P	2009/jul/30	363.401
589230	Mineral	MACHETE 49	116548 (100%)	092P	2009/jul/30	363.922
589233	Mineral	MACHETE 50	116548 (100%)	092P	2009/jul/30	505.601
589235	Mineral	MACHETE 51	116548 (100%)	092P	2009/jul/30	485.381
589237	Mineral	MACHETE 52	116548 (100%)	092P	2009/jul/30	485.551
589239	Mineral	MACHETE 53	116548 (100%)	092P	2009/jul/30	485.547
589240	Mineral	MACHETE 54	116548 (100%)	092P	2009/jul/30	323.642

Claims 112

Hectares 52705.577

Rockridge Capital Corp. is earning a 100% interest, subject to a 1.5% Net Smelter Return (NSR) royalty, in the Bonaparte property by paying \$25,000 on signing and a further \$100,000 on TSX Venture Exchange approval. Rockridge will also issue 500,000 units on TSX Venture Exchange approval and a further 500,000 units on the first anniversary of TSX Venture Exchange approval. Each unit consists of one common share of Rockridge and one share purchase warrant, with each warrant entitling the holder to purchase one additional share for a period of 24 months from the date of issuance at a price equal to 200% of the 10-day average closing price of the shares ending on the trading day preceding the date of issuance of the units. Rockridge must also complete \$200,000 in exploration and development expenditures by the first anniversary of TSX Venture Exchange Approval. The agreement is date April 16, 2009.



UTM NAD 83 Zone 10

BONAPARTE PROPERTY
**Claim Location (092P017, 092P018, 092P027, 092P028,
 092P036, 092P037, 092P038, 029P046, 092P047, 092P048)**

Figure 2

There is sparse bedrock mineralization both on the Bonaparte property and adjacent to the property. The location of the two soil geochemistry grids completed on the property is shown in Figure 1.

The author is not aware of any environmental liabilities associated with the Bonaparte property. The next phases of exploration would be further soil sampling, mapping and prospecting which currently require no permitting and then ground geophysical surveys which do require permits. A permit for a geophysical survey currently takes approximately 90 days in British Columbia.

ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND
PHYSIOGRAPHY

The Bonaparte property lies about 55 kilometres southeast of 100 Mile House or 40 kilometers northwest of Barriere in south central British Columbia. Access to the property is via Highway 24 from 100 Mile House to the community of Bridge Lake and then south along the Bonaparte, Eagen Lake and Bonaparte North Forest Service Roads to the property. Numerous logging roads provide access to most of the claim block.

The Bonaparte property lies within the Bonaparte Plateau in gentle to moderate terrains ranging in elevation from 1097 metres ASL (above sea level) to 1585 metres ASL. Vegetation consists of moderately dense stands of spruce, pine and fir with light underbrush interspersed with numerous lakes, ponds and small marshes. Small clear cuts are scattered throughout the property.

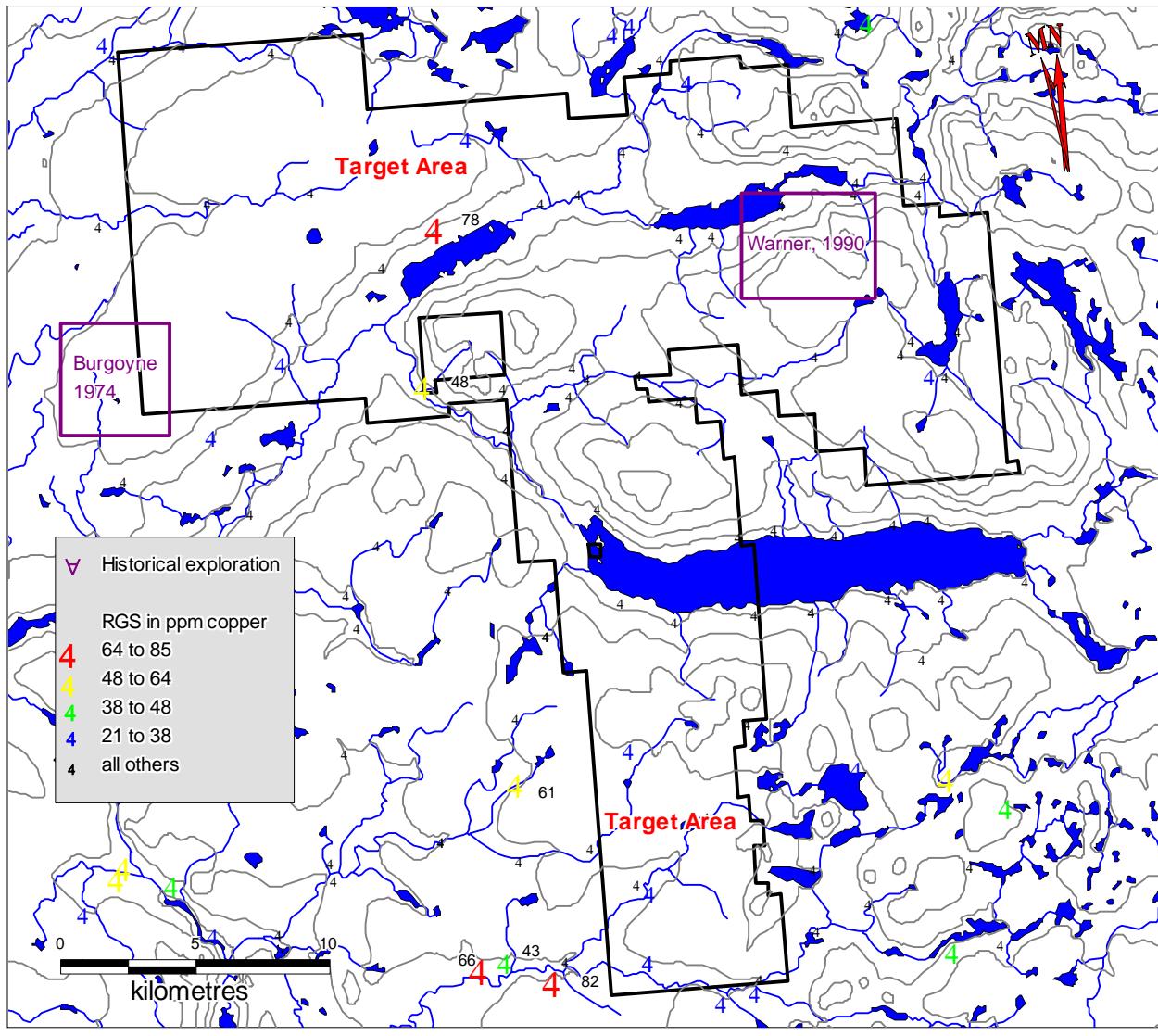
The Bonaparte property is located within the Fraser and Thompson Plateaus, in the southern part of the Interior Plateau. The Fraser Plateau changes gradually from flat lava surface in the west to rolling uplands and rounded hills in the east. The area is underlain by flat-lying Pliocene and/or Miocene lavas which have been eroded layer by layer, maintaining the level surface. The Thompson Plateau is distinguished from the Fraser Plateau by slightly greater relief and absence of extensive lava areas. The eastern boundary is approximately the North Thompson Valley, an area underlain by folded and block faulted late Paleozoic, Mesozoic and early Tertiary volcanic, sedimentary and granitic rocks. Differing resistance and erosion of these rocks has resulted in an irregular surface.

The entire region was covered by the last major Pleistocene ice sheet flowing from the Cariboo Mountains which are north and northeast. Glacial features are prominent in all parts of the area but the glacial deposits themselves are not deep (maximum 1.5 metres). However, this glacial material has obscured most of the bedrock.

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

The logistics of working in this area are excellent. Logging roads criss cross the area allowing relatively easy access for the transportation of people and equipment. Supplies, fuel and accommodation are available in 100 Mile House, Cache Creek and Kamloops. Depending on the type of exploration program to be conducted, the field season generally runs from mid-May to mid-October.

The ground presently comprising the Bonaparte Project appears to be largely unexplored in the past. Preliminary exploration programs have been completed in two small areas within the claim block and one area immediately north of the claim block. Copper regional stream sediment geochemistry shows a number of low level anomalies in areas of favourable geology, which lead to the initial staking of the current claim block and also identified the target areas for Mobile Metal Ion (MMI) soil geochemistry.



Royal Canadian Ventures collected 800 soil samples and ran 30 miles of VLF-EM around a copper-molybdenum showing 2 kilometres north of the north-central property boundary of the current Bonaparte property (Vollo, 1972). A weak copper and molybdenum anomaly was outlined. The VLF-EM survey showed a westerly trending high closely coinciding with the geochemical anomaly.

UMEX drilled one, 95.1 metre diamond drilling hole on their Shannon group of claims (Burgoyne, 1974). The location is on or immediately to the west of tenure 589173. The drill hole penetrated 7.3 metres of overburden and then remained in basalts (Kamloops Group) to the end of the hole. No sulfide mineralization was observed.

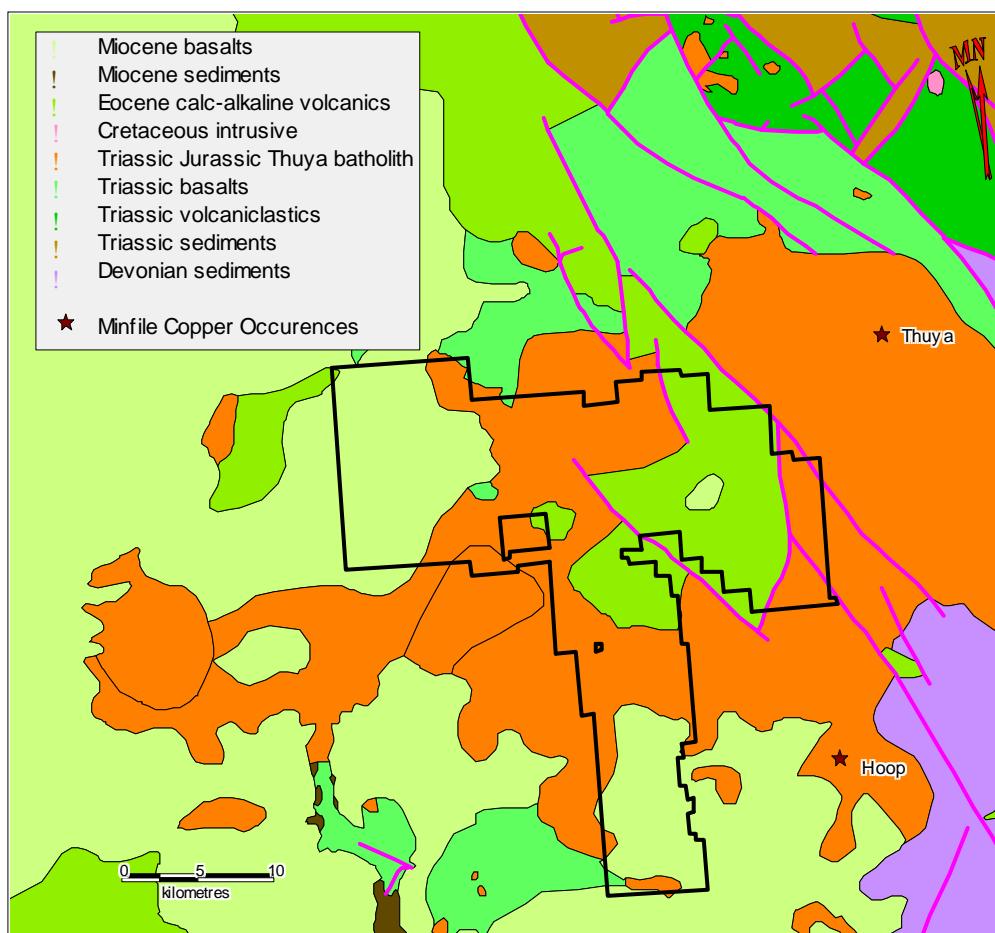
Placer Dome undertook a geochemical soil sampling program to define the source of the anomalies identified during an earlier bulk stream sediment sampling program (Warner, 1990). A total of 268 soil samples were sent for analysis. The results were disappointing with no anomalous copper, zinc or lead values and nine weak, spotty gold anomalies. Geological mapping and prospecting also failed to locate any areas of interest. This area covers current tenures: 589124, 589125, 589126, 589128, 589129, 589131 and 589132.

GEOLOGICAL SETTING

(Summarized from MINFILE and Campbell and Tipper, 1971)

The Bonaparte project lies in the Bonaparte Lake Map Area of south-central British Columbia. This area is underlain by rocks of the Quesnel Terrane, host to most of the porphyry copper deposits in British Columbia, and generally referred to as the Quesnel Trough.

The oldest rocks in the general area are the limestones and associated argillites and siltstones of the Devonian to Triassic Harper Ranch Group. The rocks lie in the southeast corner of the map area.



UTM NAD 83 Zone 10
Geology from MapPlace

BONAPARTE PROPERTY
Regional Geology
Figure 4

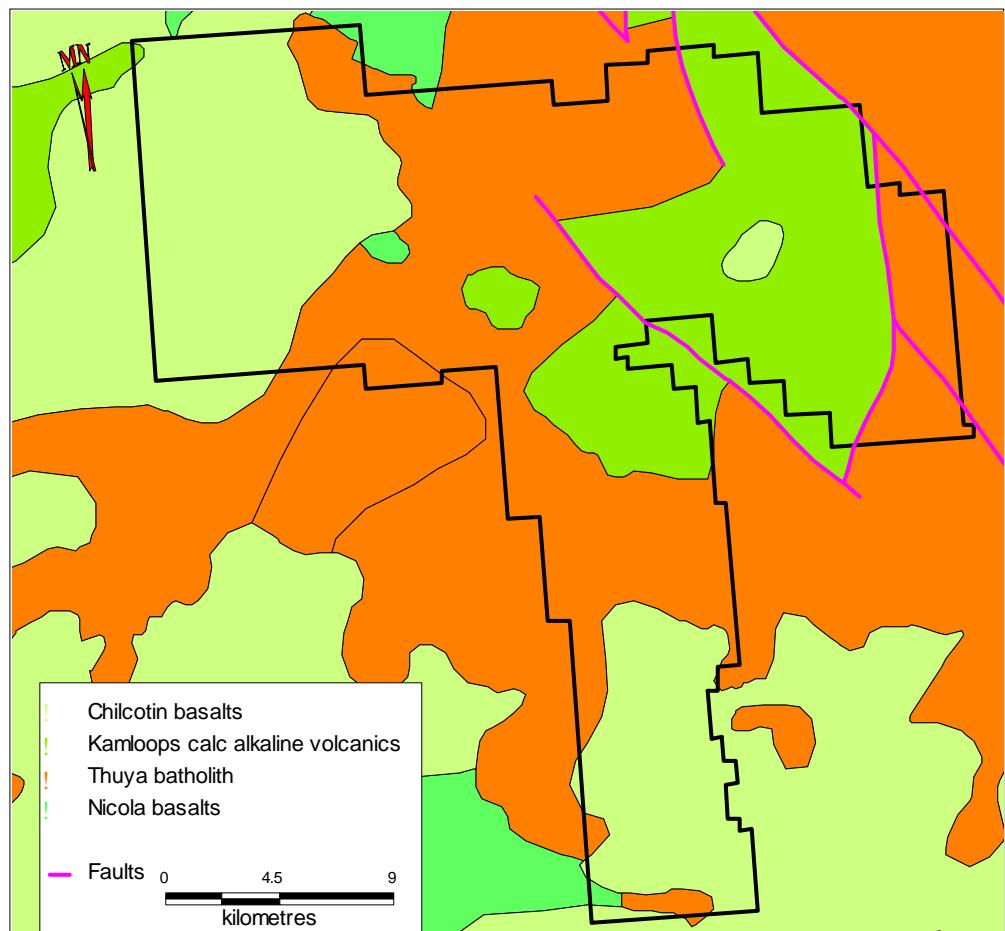
Triassic Nicola Group sediments and volcanics outcrop throughout the eastern half of the map area. The older volcanics and volcanioclastics are predominantly basaltic in composition. These are stratigraphically overlain by predominantly sedimentary rocks (siltstone, sandstone, conglomerates with lesser cherts).

These rocks are intruded by the Thuya batholith and associated stocks, late Triassic to early Jurassic granodiorites. The Thuya batholith underlies much of the southern two thirds of the maps area. Small Cretaceous granites to monzonites outcrop as small stocks in the northeast corner of the map area.

Eocene Kamloops Group andesites and dacites overlie most of the older units, outcropping throughout the centre of the map area.

The Miocene to Pleistocene Chilcotin Group alkaline flood basalts cover most of the western half of the map area. Related river sediments and tuffs outcrop in a small area in the south central portion of the map area. Recent work by Andrews and Russell (2008) has shown the actual thickness of the Chilcotin Group to be less than 25 metres, making these areas considerably more prospective than earlier thought.

Structurally, the eastern half of the map area is dominated by a system of northwest-striking Eocene block faults.



UTM NAD 83 Zone 10
Geology from MapPlace

BONAPARTE PROPERTY
Property Geology
Figure 5

A review of ARIS, the British Columbia Ministry of Energy, Mines and Petroleum Resources Assessment Report database shows there has been very little exploration activity recorded for the Thuya batholith. However, the British Columbia Ministry of Energy, Mines and Petroleum Resources MINFILE database lists two occurrences of copper and molybdenum mineralization within the batholith: Thuya - 092P 106 and Hoop - 092P 135 (Figure 4).

The Thuya occurrence is described as chalcopyrite in leached quartz veins within strongly fractured and saussuritized (altered) granodiorite. Mineralization was found in a series of rock cuts along a 3 kilometre stretch of a logging road. The Thuya occurrence is currently staked.

The Hoop occurrence is described as small flecks of molybdenite and possible chalcopyrite within generally unaltered granodioritic rocks. Soil geochemical surveys detected copper and molybdenite anomalies. The Hoop occurrence now lies within Bonaparte Provincial Park.

Bonaparte Property Geology

The Bonaparte property has not been mapped to date.

The geological map of the area from the British Columbia Ministry of Energy and Mines MapPlace website (Figure 5) shows the Bonaparte property is underlain largely by the Triassic to Jurassic Thuya batholith. Campbell and Tipper (1971) described the batholith as medium-grained with scattered coarse phenocrysts of pinkish potash feldspar. They are generally medium grey to brownish grey, and locally have a greenish tinge due to epidote.

Two exposures examined by the author contained fine to medium-grained leucocratic monzonite or granodiorite. The rock light grey to grey and is grey weathering. Locally, the rock contains numerous relatively large xenoliths. It is weak to moderately jointed and fractured. Abundant epidote is present along some of the joints.

The northwest portion of the property appears to be underlain by Eocene andesites and dacites of the Kamloops Group. Campbell and Tipper (1971) notes the Eocene rocks in this area are largely andesites and basalts with some dacites. Breccias are common and in several places near the base of the formation blocks of underlying pre-Eocene rocks are included.

The southern and extreme western portions of the property are underlain by the Chilcotin flood basalts.

Small areas of Nicola group basaltic rocks edge onto the southwestern and northwestern edge of the Bonaparte property. There is also one small exposure in the west central portion of the property.

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DEPOSIT TYPES

The Bonaparte property is being explored for porphyry Cu - Mo deposits. The following description is summarized from the British Columbia Ore Deposit Models (Panteleyev, 1995).

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

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

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

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

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

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

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

British Columbia porphyry Cu ± Mo ± Au deposits range from 50 to 900 million tonnes grading 0.2 to 0.5 % Cu, <0.1 to 0.6 grams/tonne Au, and 1 to 3 grams/tonne Ag. Mo grades range from negligible to 0.04 % Mo. Median values for 40 B.C. deposits with reported reserves are: 115 Mt with 0.37 % Cu, *0.01 % Mo, 0.3g / t Au and 1.3 g/t Ag.

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

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

The Bonaparte Project is being explored for porphyry copper - molybdenum mineralization. There presently is no bedrock mineralization on the property.

The British Columbia Ministry of Energy, Mines and Petroleum Resources Regional Geochemical (Stream) Sediment Survey (RGS) for NTS sheet 092P shows several of the streams draining key areas of the Bonaparte property are anomalous in copper. The British Columbia Ministry of Energy, Mines and Petroleum Resources Assessment Report Index for NTS sheet 092P shows the current Bonaparte claims have received very limited historical exploration. The British Columbia Ministry of Energy, Mines and Petroleum Resources MINFILE database for NTS sheet 092P shows there are known copper / molybdenum occurrences within the Thuya batholith.

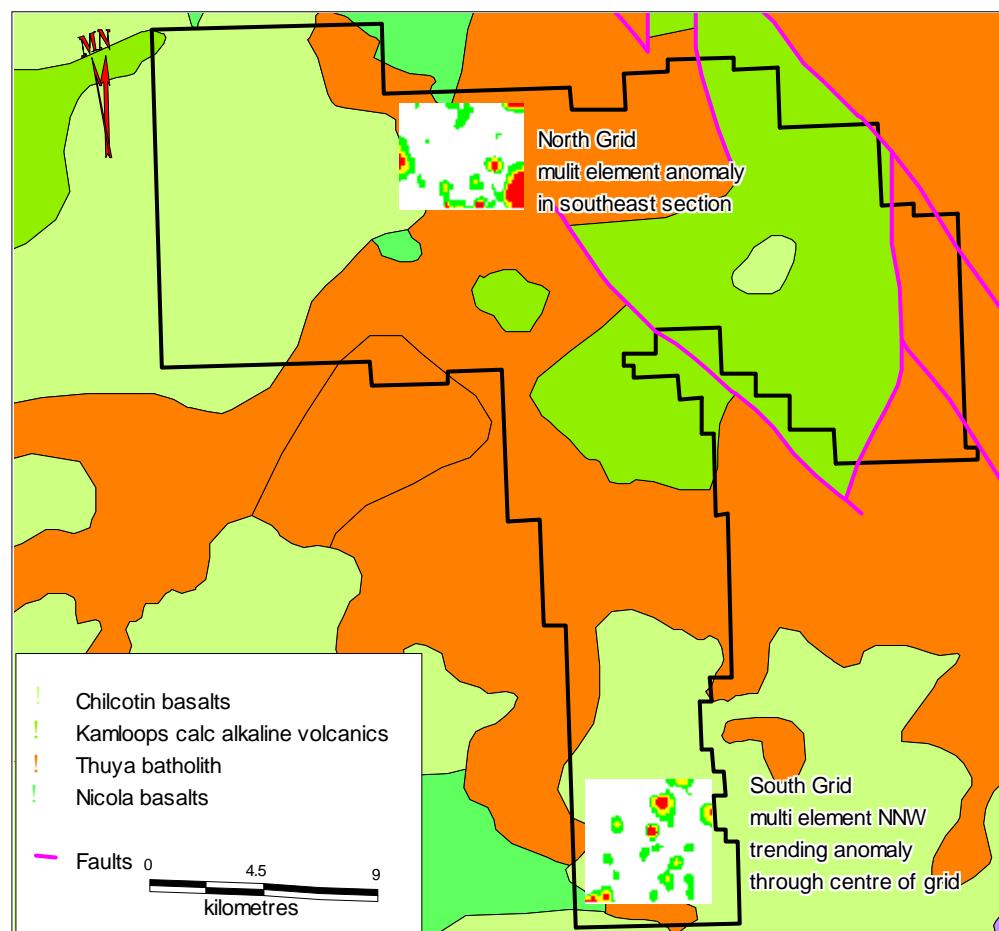


Figure 6

Mobile Metal Ion (MMI) geochemical surveys were chosen over conventional soil geochemistry for two reasons:

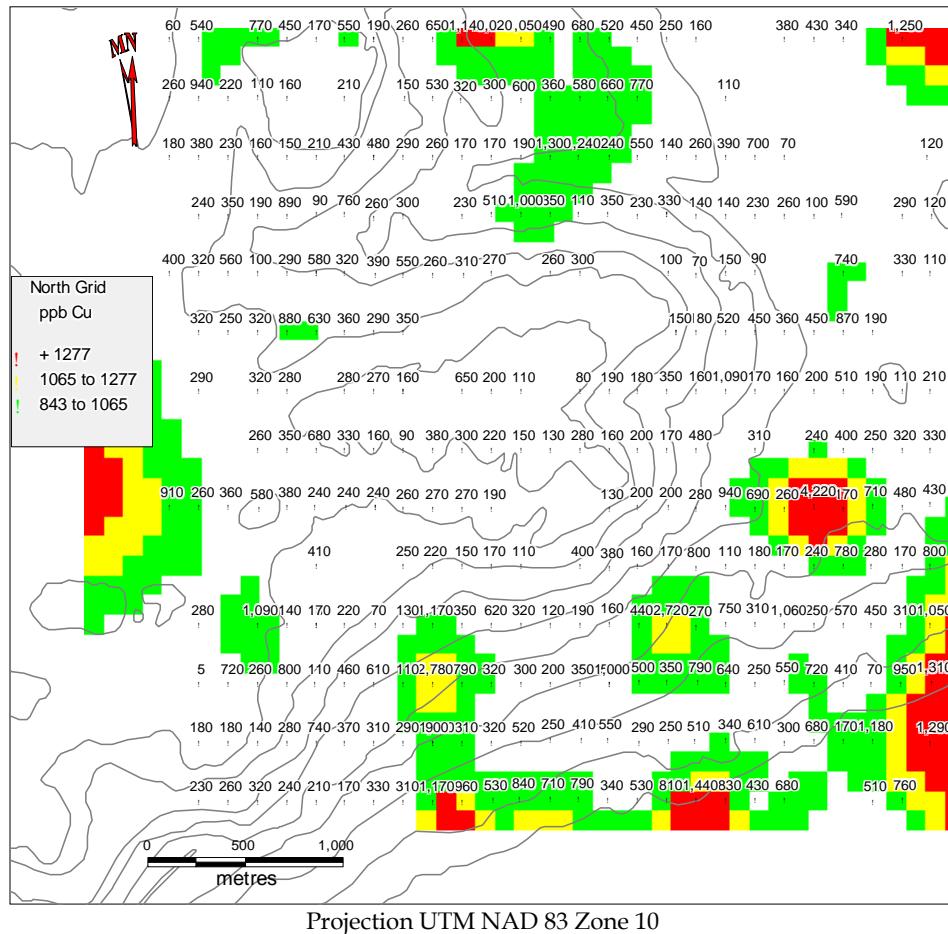
- The area of the RGS copper anomaly north of Eagen Lake appears to be underlain by glacial till, effectively masking the underlying bedrock.
- The area of the southern RGS anomalies is mapped as Chilcotin basalts, again effectively masking the underlying favourable geology.

MMI has proven to be successful in locating buried mineralization through considerable thicknesses of overburden: laterites, glacial debris or barren cover rocks. A series of individual case studies are available for review on the MMI website (www.mmigeochem.com), including directly applicable case studies 5, 6 and 36.

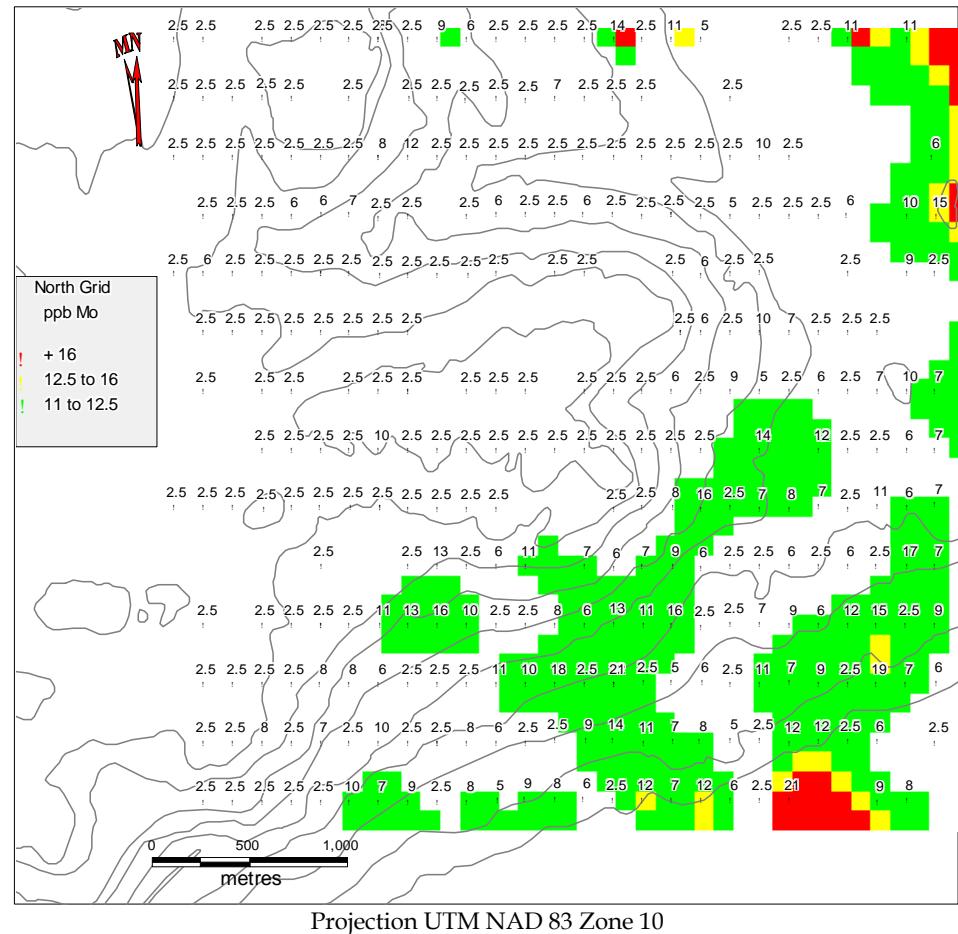
Based on the widely spaced, 150 metre by 150 metre of the MMI soil surveys, distinct linear anomalies were not the main focus. The surveys were designed to identify larger areas of anomalous soil values, possibly representing buried zones of porphyry copper molybdenum mineralization.

The North Grid was successful in identifying a large 1 kilometre by 1 kilometre area of scattered multi element anomalies. This anomaly is open to the east and closed to the south by Eagen Lake.

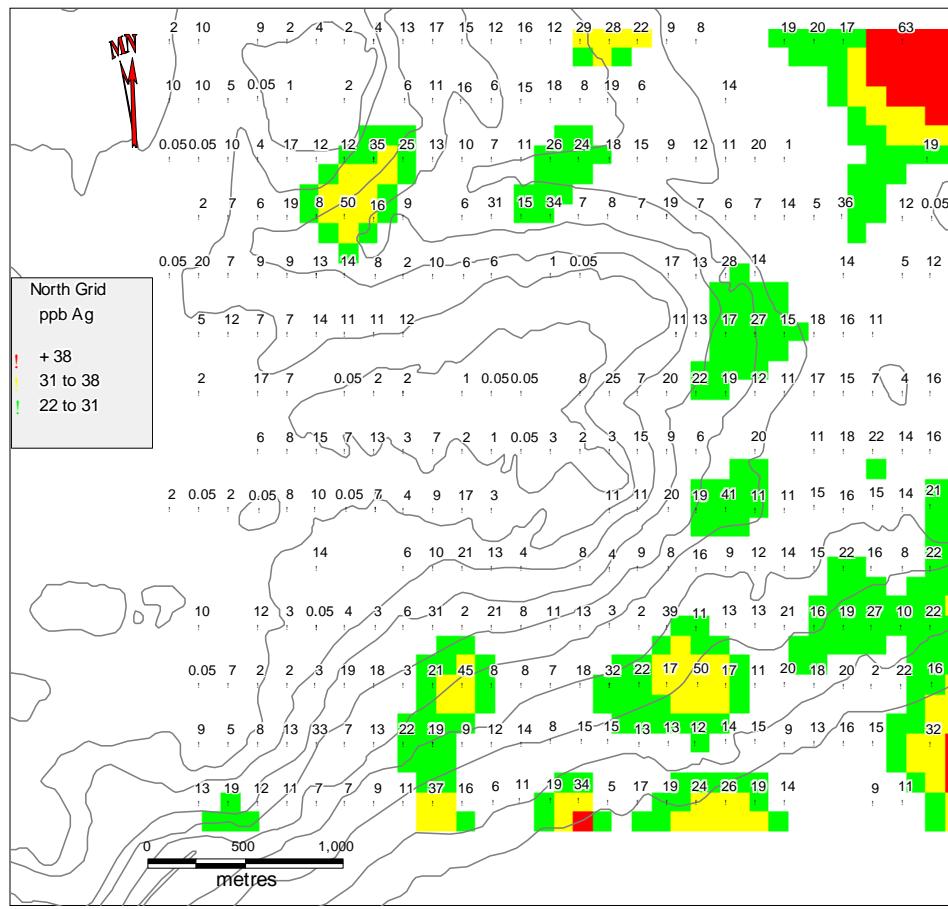
The South Grid was successful in highlighting a north northwest trending copper, molybdenum and silver anomalous zone 900 metres long by 500 metres through the north central part of the grid. The anomaly appears to be closed to the south, but open to the north.



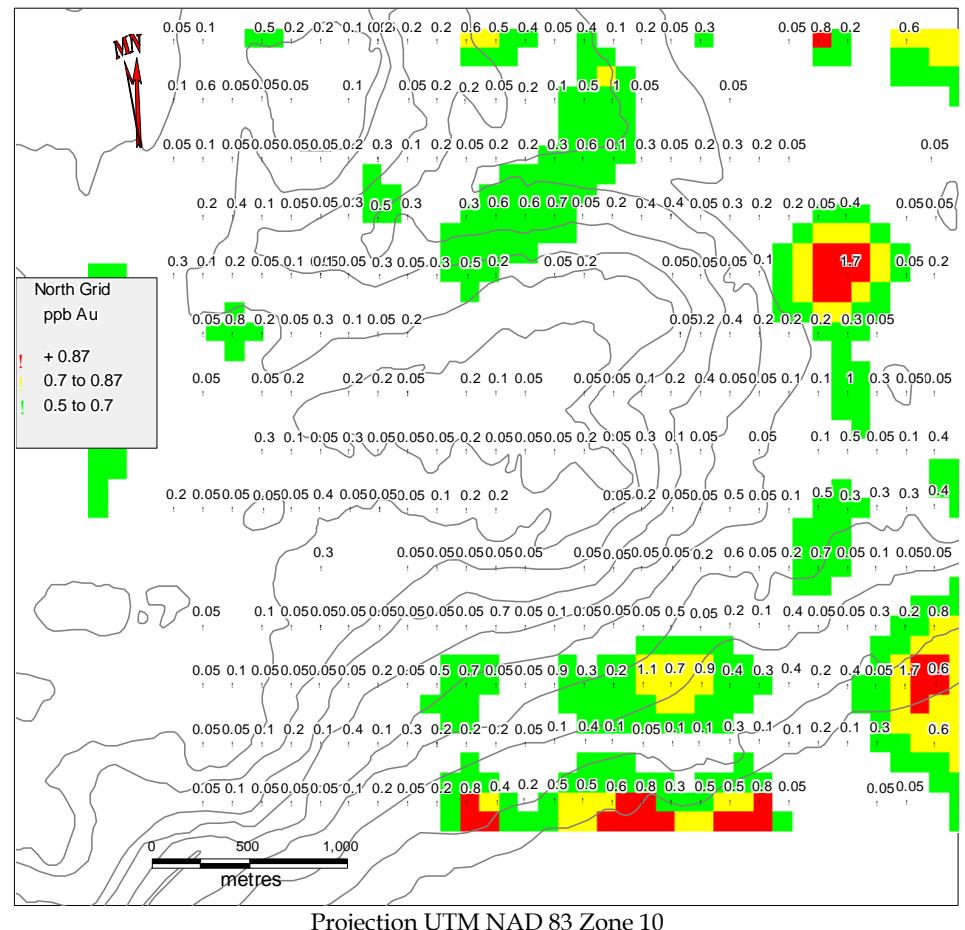
BONAPARTE PROJECT
North Grid - MMI ppb Cu
Figure 7a



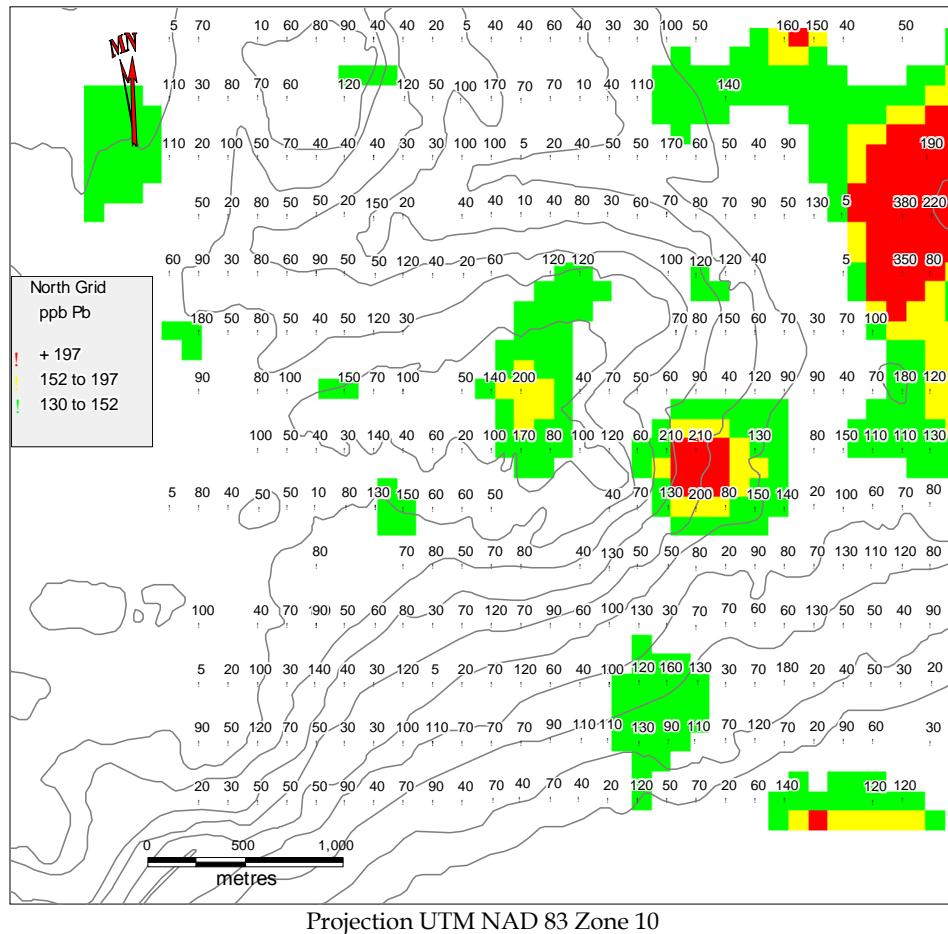
BONAPARTE PROJECT
North Grid - MMI ppb Mo
Figure 7b



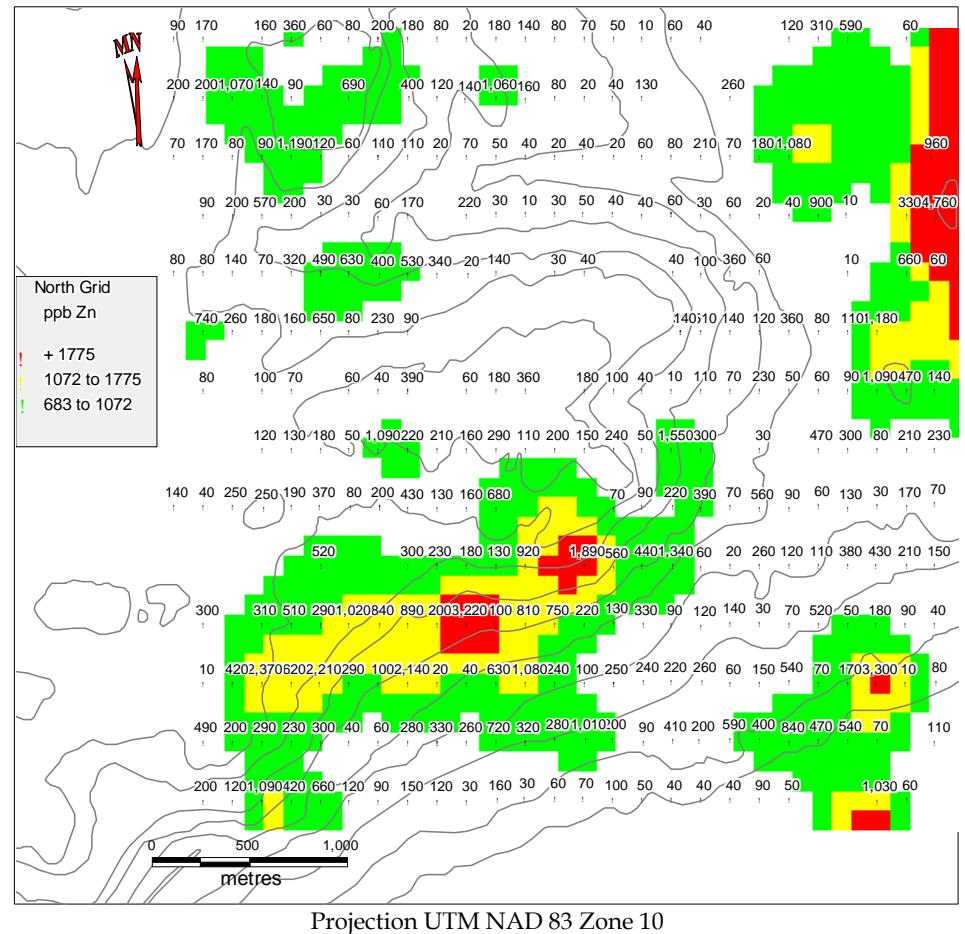
BONAPARTE PROJECT
North Grid - MMI ppb Ag
Figure 7c



BONAPARTE PROJECT
North Grid - MMI ppb Au
Figure 7d



BONAPARTE PROJECT
North Grid - MMI ppb Pb
Figure 7e



BONAPARTE PROJECT
North Grid - MMI ppb Zn
Figure 7f

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EXPLORATION

MMI geochemical soil grids were established in two areas of the Bonaparte property during the third quarter of 2008. The two areas were selected for the MMI survey to follow up on the Regional Stream Sediment Survey copper results: the North Grid on the north side of Eagen Lake and the South Grid to the south of Bonaparte Lake. The North Grid appears to have been mantled by glacial deposits and the South Grid appears to be overlain by a thin veneer of the Chilcotin flood basalts. Conventional soil geochemistry is not reliable through glacial debris and also would not be able to penetrate through the overlying flood basalts.

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.

The theory on MMI technology (taken from the MMI website www.mmigeochem.com) is summarized below:

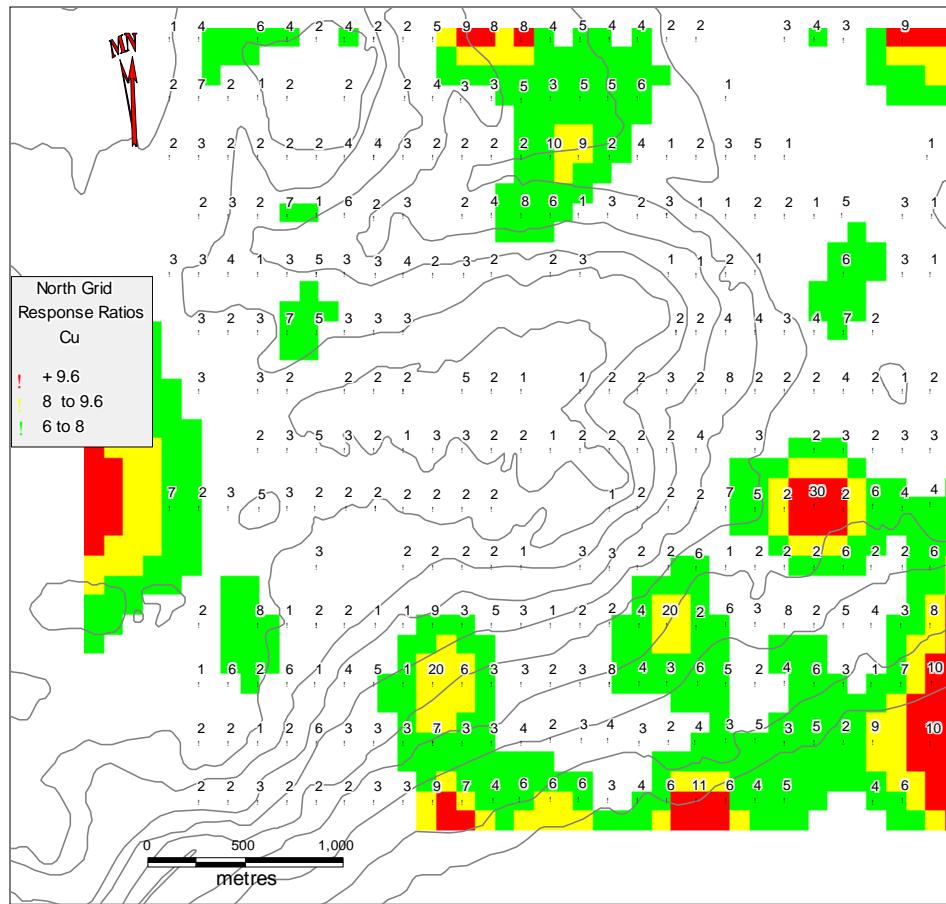
Mobile Metal Ions is a term used to describe ions which have moved in the weathering zone and that are only weakly or loosely attached to surface soil particles. It has now been proven in a CAMIRO study using Pb isotopes that these Mobile Metal Ions are transported from deeply-buried ore bodies to the surface. Scientists from around the world have been studying this phenomenon for many years.

Convection, electrochemistry, diffusion, capillary rise and seismic pumping are some of the theories which have been put forward. However, research and case studies over known ore-bodies have shown that mobile metal ions accumulate in surface soils above mineralization, indicating that the metals are derived from oxidation of the mineralization source. Capillary rise is thought to be a very important process in the near surface environment which is responsible for maintenance of anomalies and dictates depth for sampling. The hypothetical model suggests mobile ions are released from ore bodies, migrate vertically and accumulate in surface soils.

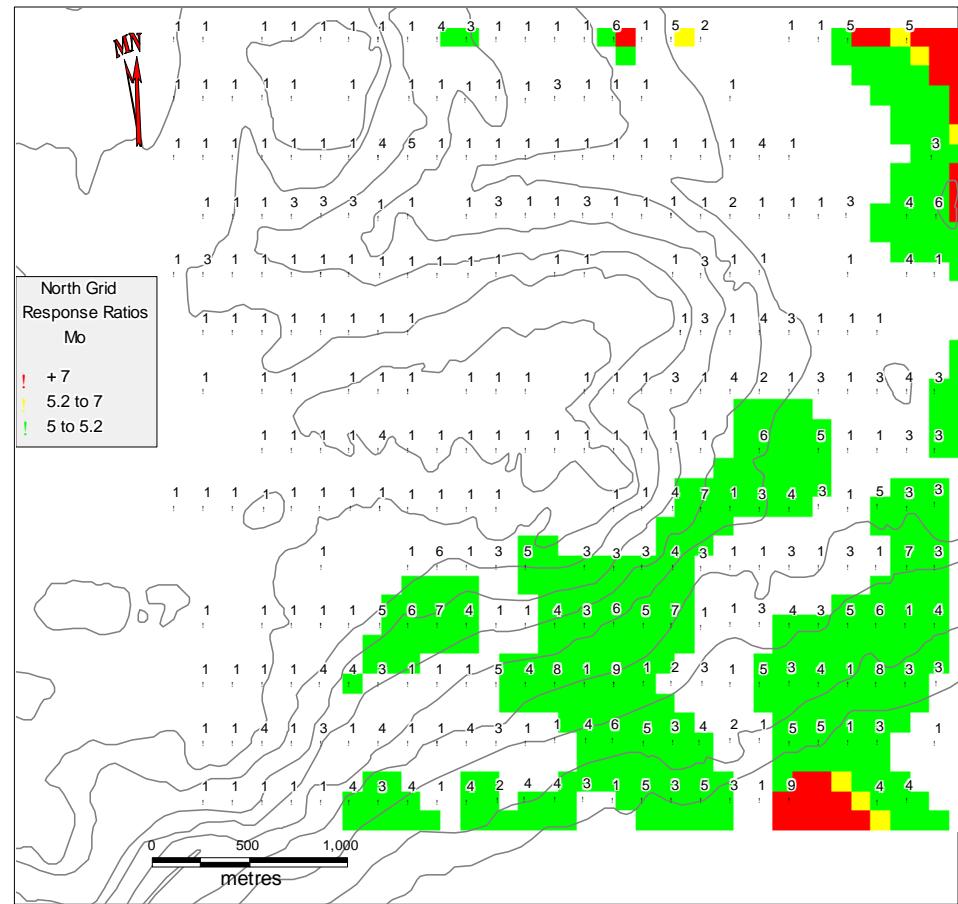
As the ions reach the surface, they attach themselves weakly to the soil particles. These are the ions that are measured by the MMI Technique to find mineralization at depths. The weakly attached ions are at very low concentrations. Because the ions have recently arrived to the surface they provide a precise 'signal' on where the ore-bodies are.

When the mobile metal ions have arrived at the surface they have a limited lifetime as 'mobile' ions. At the surface the ions are subject to weathering and are bound up by soil forming processes (i.e. they become part of the soil). Bound ions are subject to lateral movement away from the mineralization. Mobile ions, however, do not move away from the source (mineralization) because they have a limited lifetime before they are converted to a bound form.

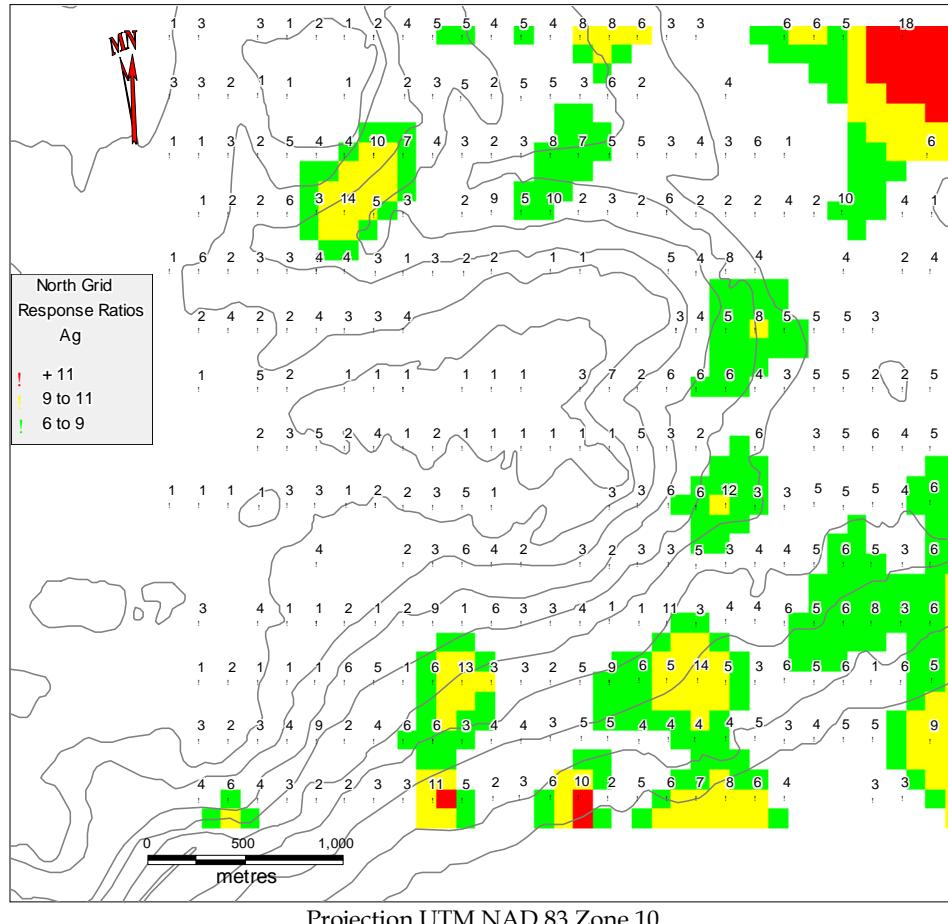
By only measuring the mobile metal ions in the surface soils, MMI Geochemistry will produce very sharp responses (anomalies) directly over the source of mobile ions. This source is ore-bodies at depth, which emit metal ions, which make up that ore-body. For example a Cu, Pb, Zn base metal deposit will emit (release) Cu, Pb and Zn ions.



BONAPARTE PROJECT
North Grid - MMI Response Ratio Cu
Figure 8a



BONAPARTE PROJECT
North Grid - MMI Response Ratio Mo
Figure 8b

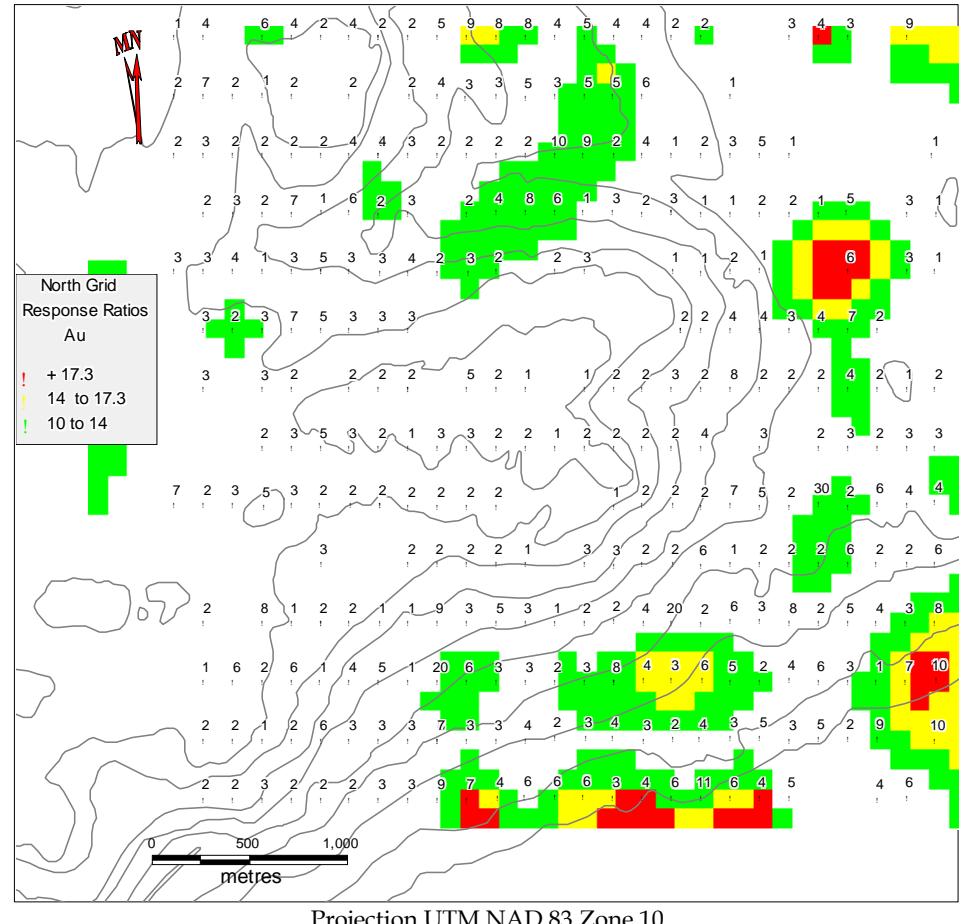


Projection UTM NAD 83 Zone 10

BONAPARTE PROJECT

North Grid - MMI Response Ratio Ag

Figure 8c

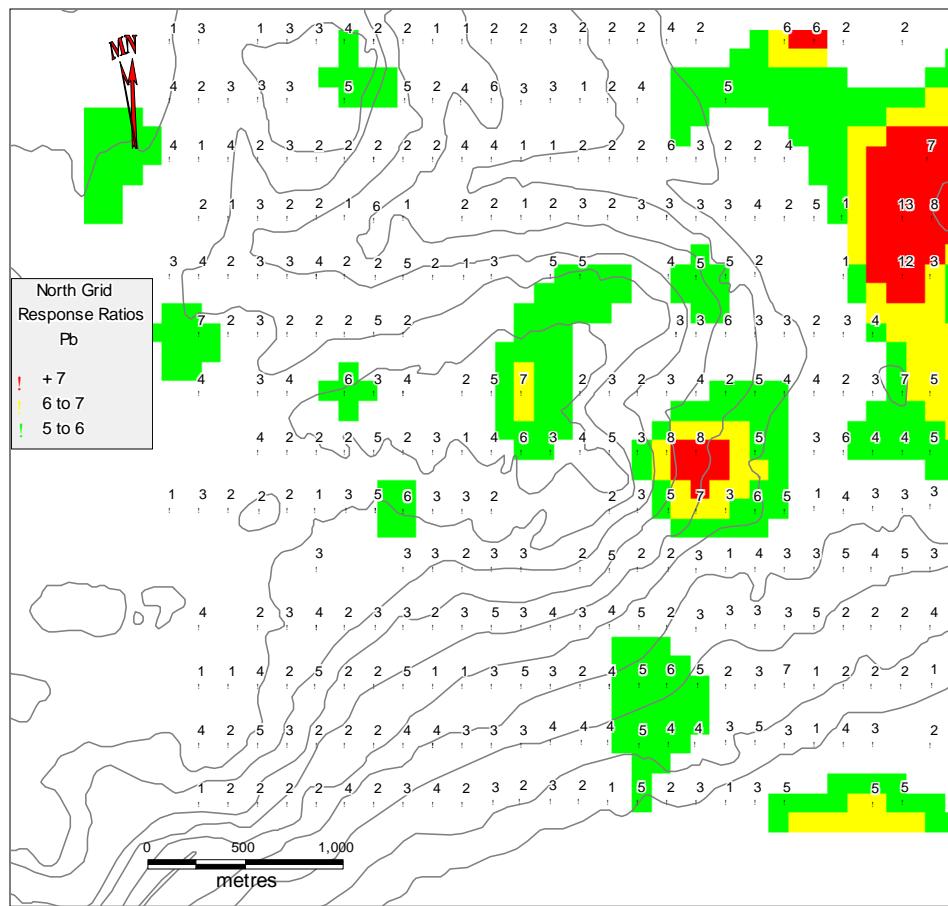


Projection UTM NAD 83 Zone 10

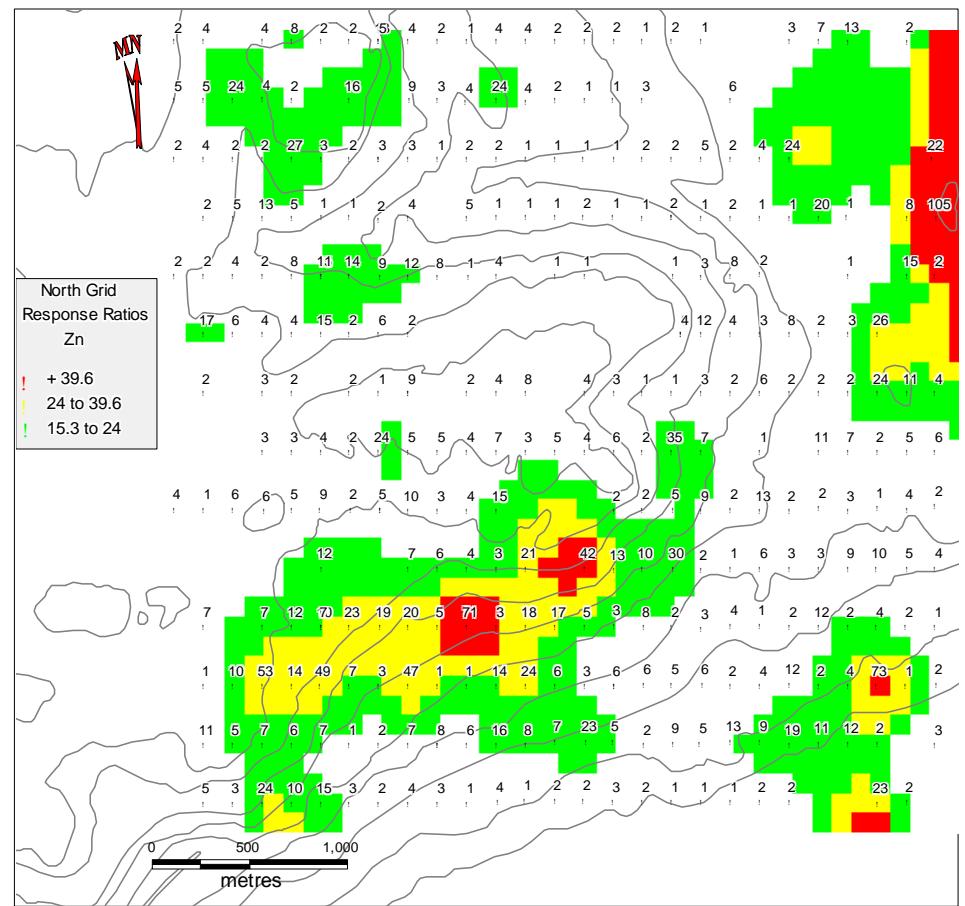
BONAPARTE PROJECT

North Grid - MMI Response Ratio Au

Figure 8d



BONAPARTE PROJECT
North Grid - MMI Response Ratio Pb
 Figure 8e



BONAPARTE PROJECT
North Grid - MMI Response Ratio Zn
 Figure 8f

North Grid

The 2008 North Grid MMI soil geochemical survey was conducted on a 150 metre by 150 metre grid over a 4 kilometre by 4 kilometre area north of Eagen Lake. A total of 318 samples were taken during the survey. Samples were not taken from 74 sites due to topography, geomorphology, and budgetary and time constraints. 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.

Plots were completed for copper, molybdenum, silver, gold, lead and zinc in parts per billion (Figure 7a through 7f respectively). Each element was individually contoured using the 90th through 98th percentile.

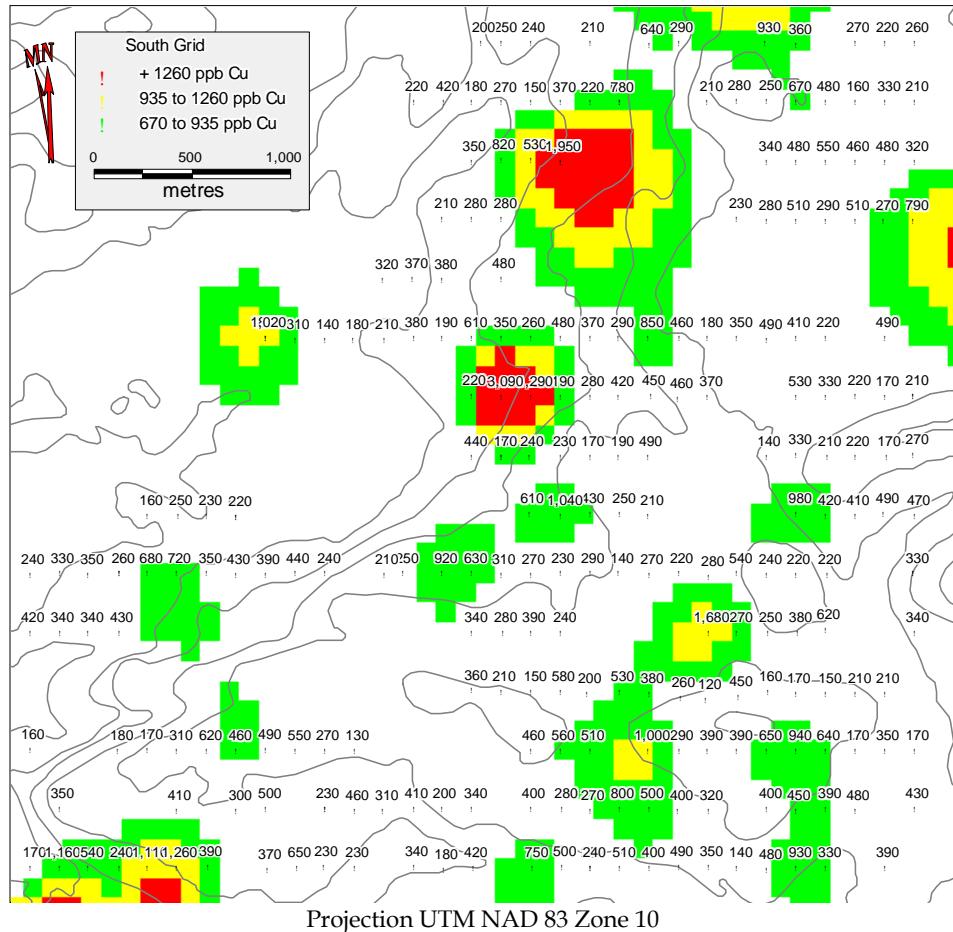
The parts per billion (ppb) plots of these six elements show some positive correlations between the elements. The copper plot (Figure 7a) shows a multiline anomaly in the north central part of the grid. This plot also shows a series of isolated anomalies in the southeast corner of the grid. The molybdenum plot (Figure 7b) appears to also show an area of coincident anomalous values in the southeast corner of the grid. The silver and gold plots (Figures 7c and 7d) show several isolated spot anomalies, though they both seem to correlate well with both the copper and molybdenum anomalies in the southeast corner of the grid. The lead plot (Figure 7e) shows several spot anomalies. The zinc plot (Figure 7f) shows a good strong anomalous zone in the southern part of the grid

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

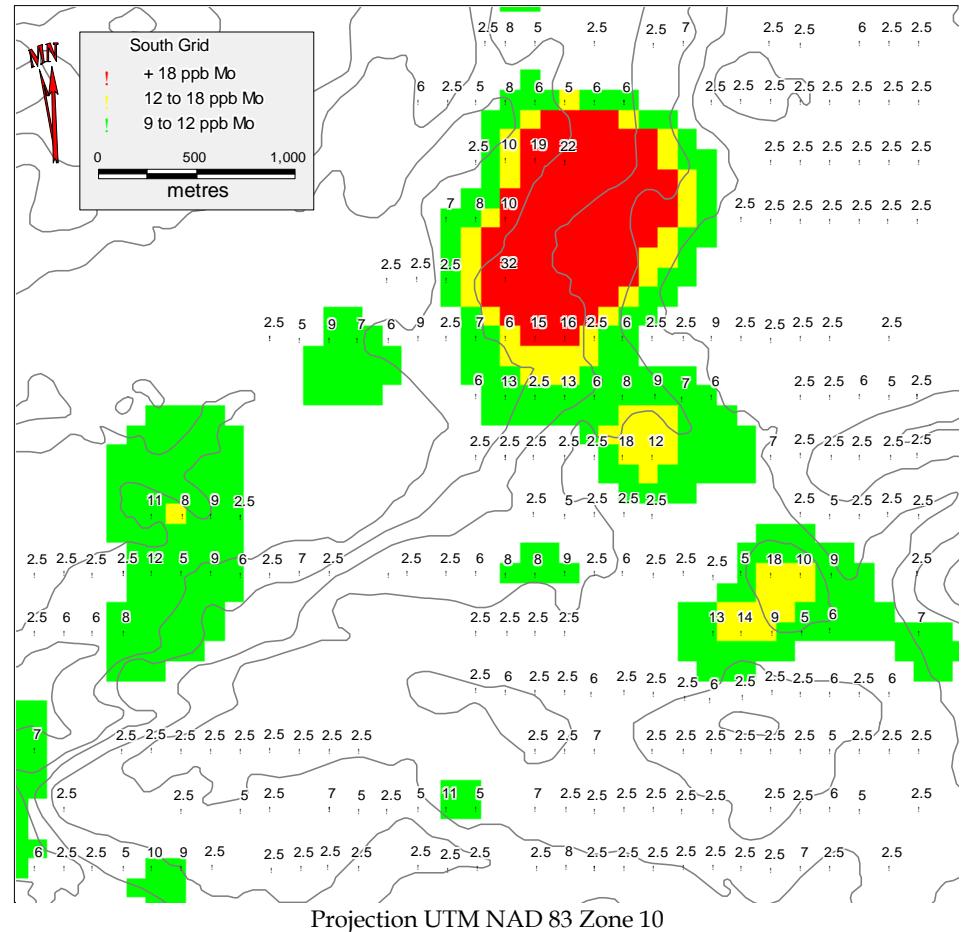
Percentile	ppb Cu	ppb Mo	ppb Ag	ppb Au	ppb Pb	ppb Zn	RR Cu	RR Mo	RR Ag	RR Au	RR Pb	RR Zn
25th	190	2.5	7	0.05	40	70	2	1	2	1	2	2
50th	310	2.5	11	0.1	70	150	3	1	3	2	3	4
75th	550	7	17	0.3	100	330	4	3	5	6	4	8
90th	843	11	22	0.5	130	683	6	5	6	10	5	15.3
95th	1065	12.5	31	0.7	152	1072	8	5.2	9	14	6	24
98th	1277	16	38	0.87	197	1775	9.6	7	11	17.3	7	39.6
Maximum	4220	21	63	1.7	380	4760	30	8	18	34	13	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 six elements (Figures 8a through 8f). Response ratios are calculated for each individual element as follows:

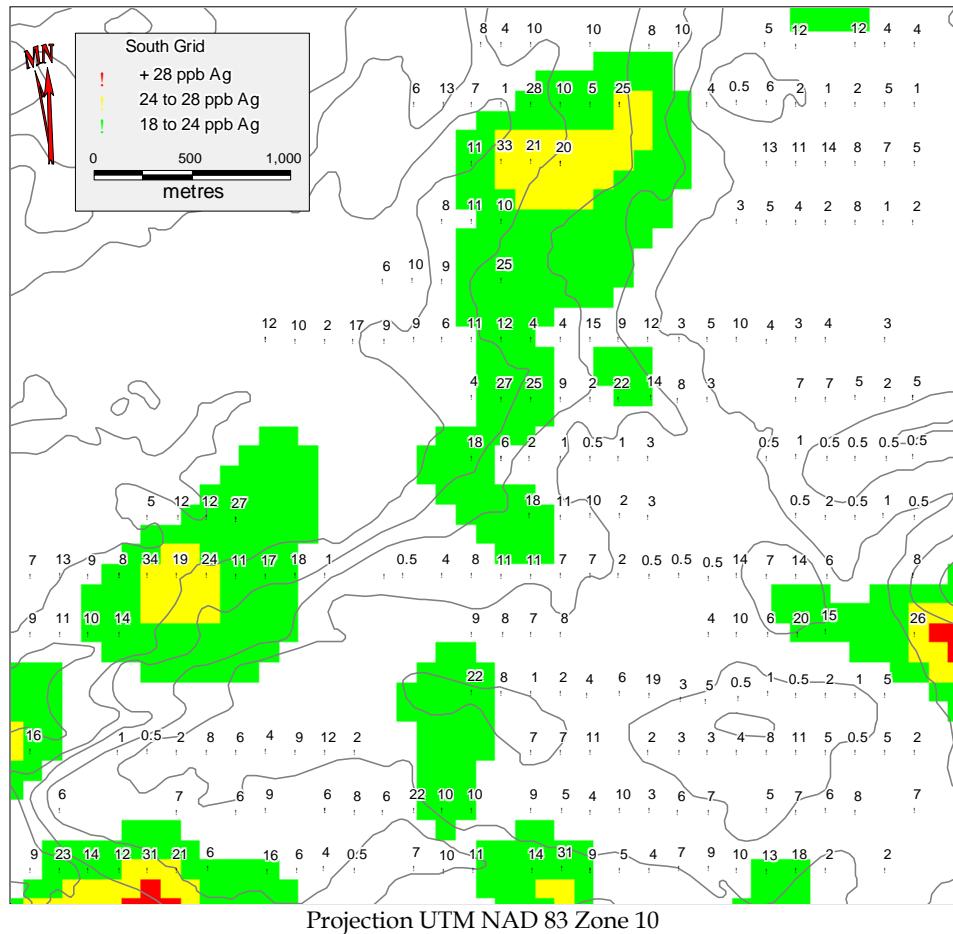
- the lowest 25% of the data for all samples in the survey area is determined
- all values less than the detection limit are included and a value of $\frac{1}{2}$ the detection limit is assigned
- the average of the lowest quartile (25%) is calculated to determine the background value
- the response 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



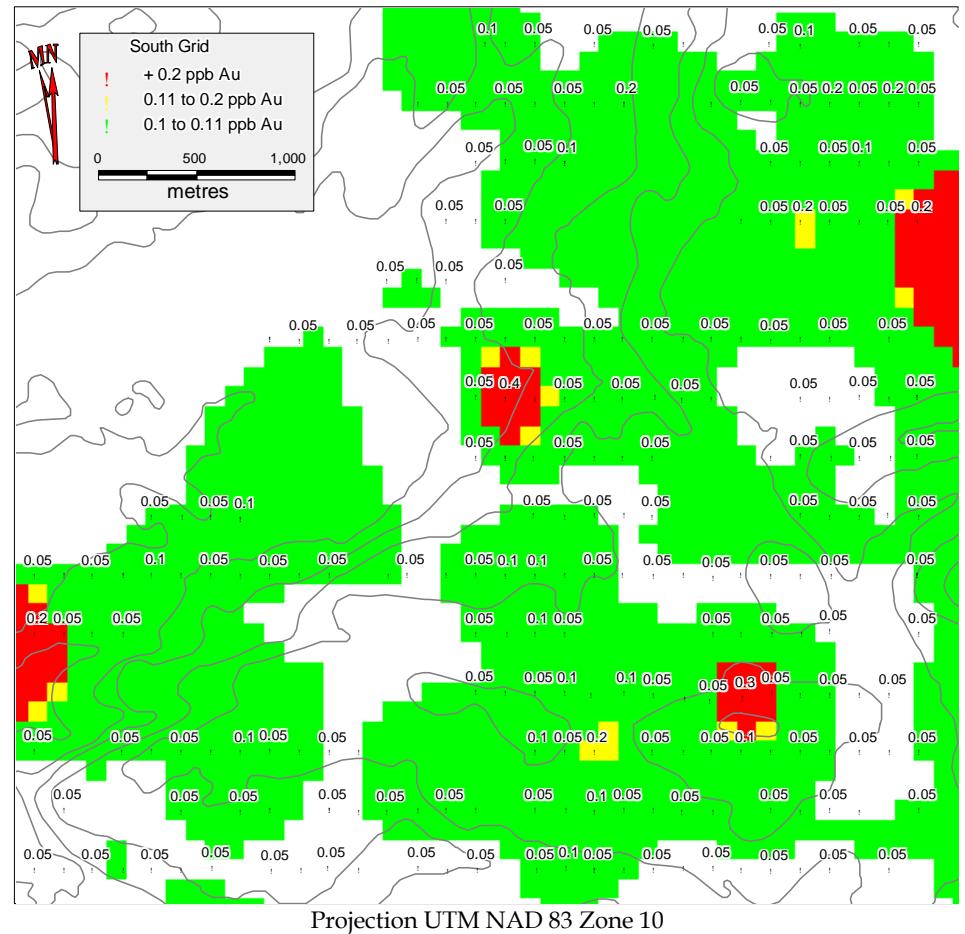
BONAPARTE PROJECT
South Grid - MMI ppb Cu
Figure 9a



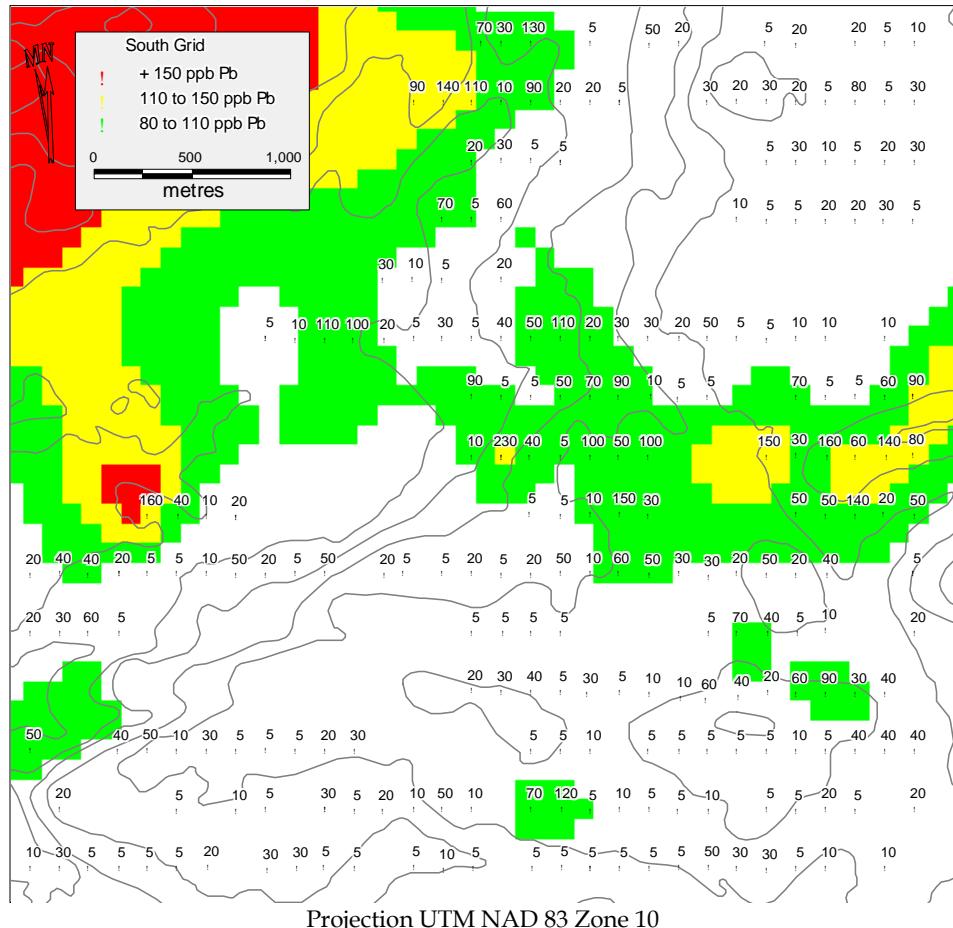
BONAPARTE PROJECT
South Grid - MMI ppb Mo
Figure 9b



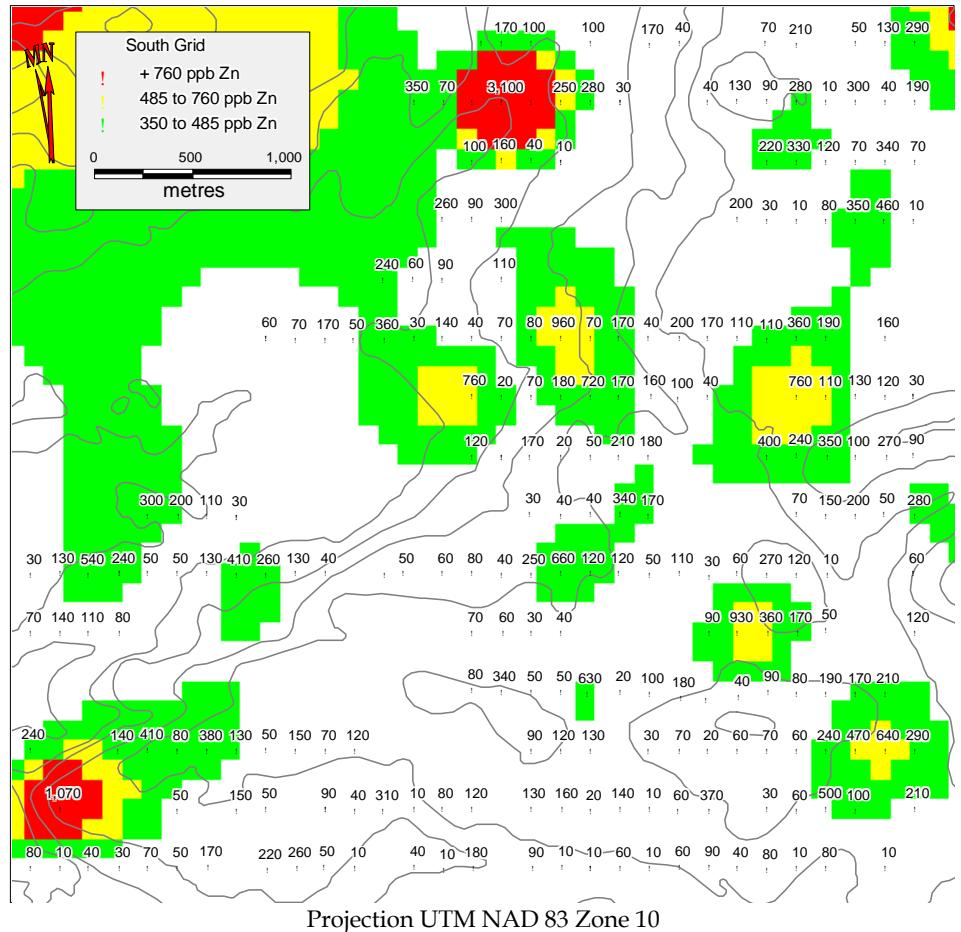
BONAPARTE PROJECT
South Grid - MMI ppb Ag
Figure 9c



BONAPARTE PROJECT
South Grid - MMI ppb Au
Figure 9d



BONAPARTE PROJECT
South Grid - MMI ppb Pb
Figure 9e



BONAPARTE PROJECT
South Grid - MMI ppb Zn
Figure 9f

- 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.

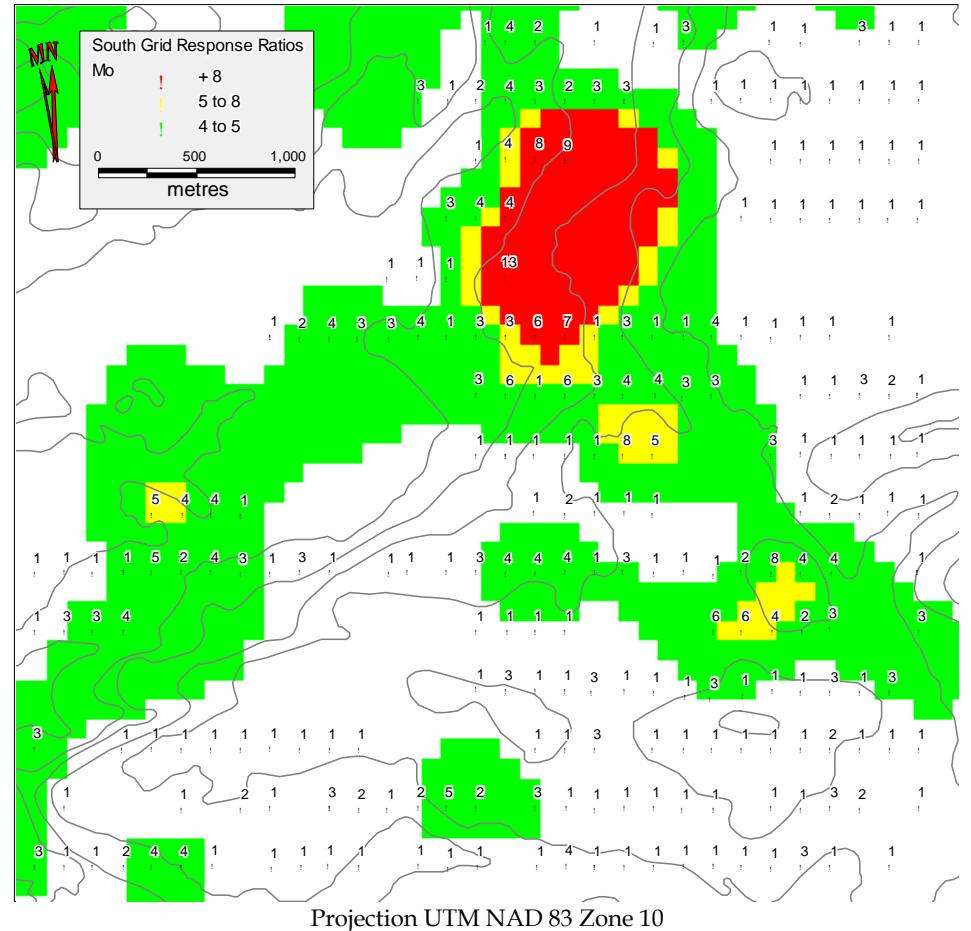
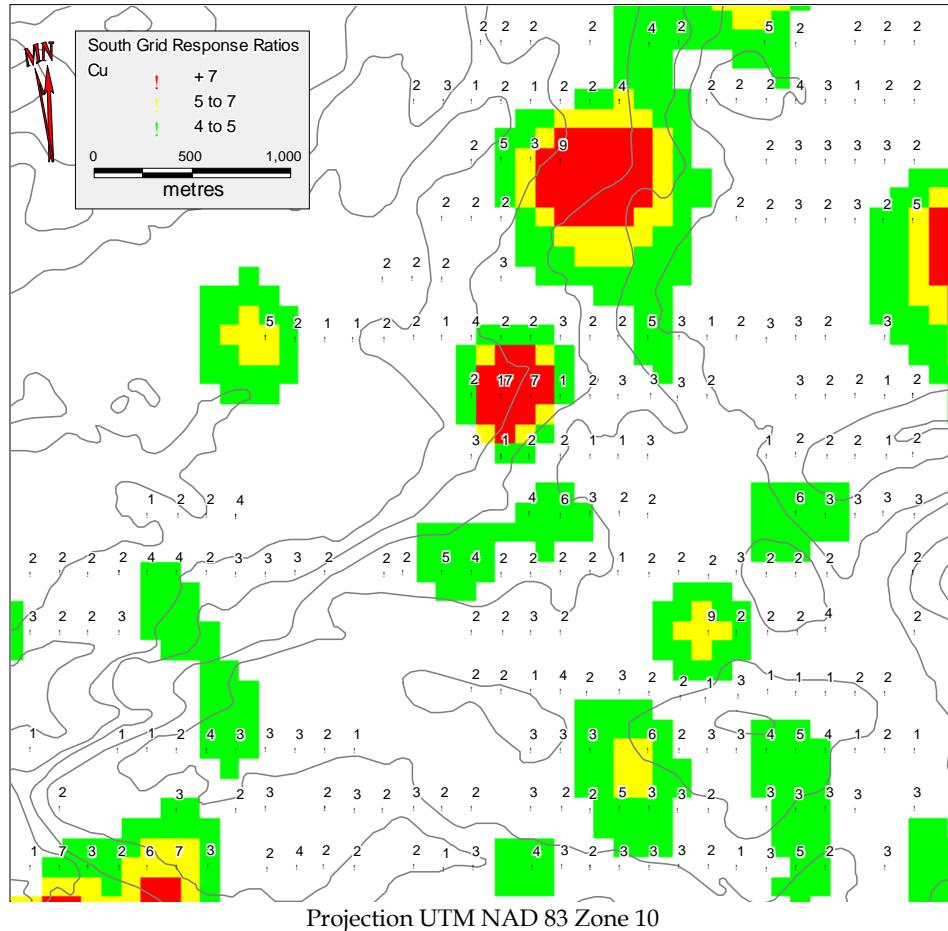
The North Grid Response Ratio plots for copper, molybdenum, silver, gold, lead and zinc (Figures 8a through 8f respectively) essentially mirror the element plots for the same metal for each of the 6 metals.

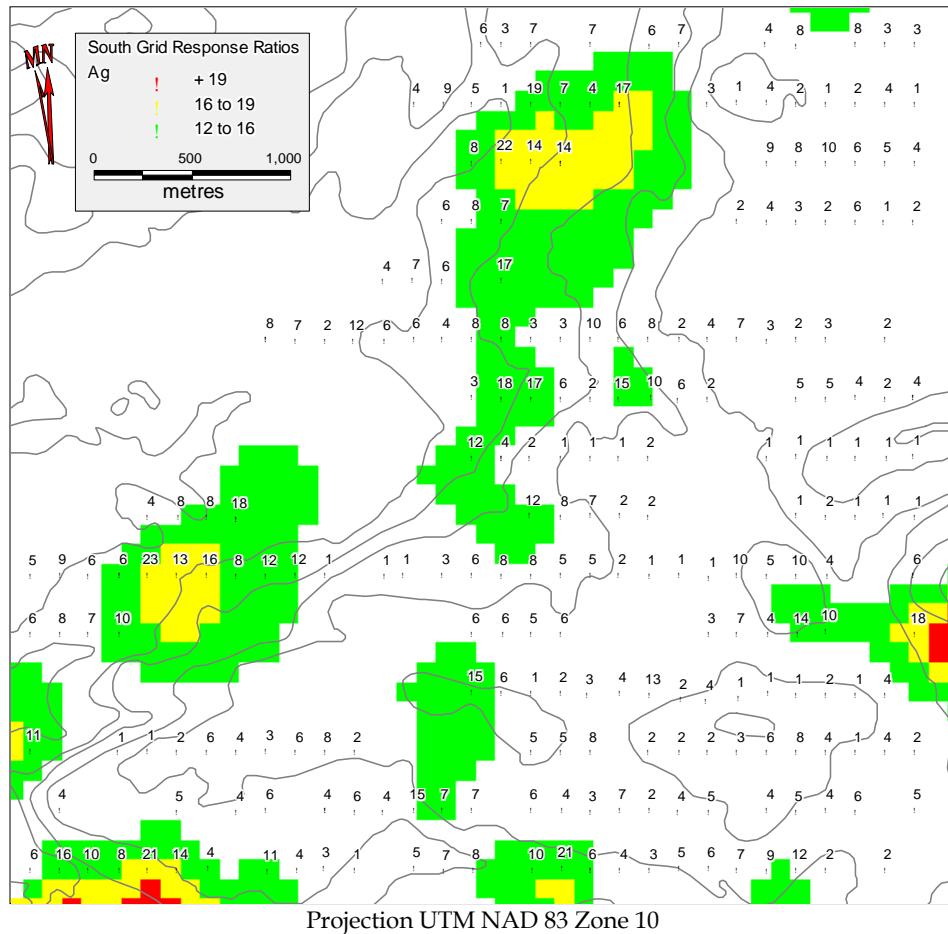
South Grid

The 2008 South Grid MMI soil geochemical survey was conducted on a 150 metre by 150 metre grid over a 4.2 kilometre by 4.5 kilometre area at the south end of the property, following up on Regional Stream Sediment Survey copper anomalies. A total of 251 samples were taken during the survey. Samples were not taken from 214 sites due to difficult terrain and budgetary and time constraints. 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.

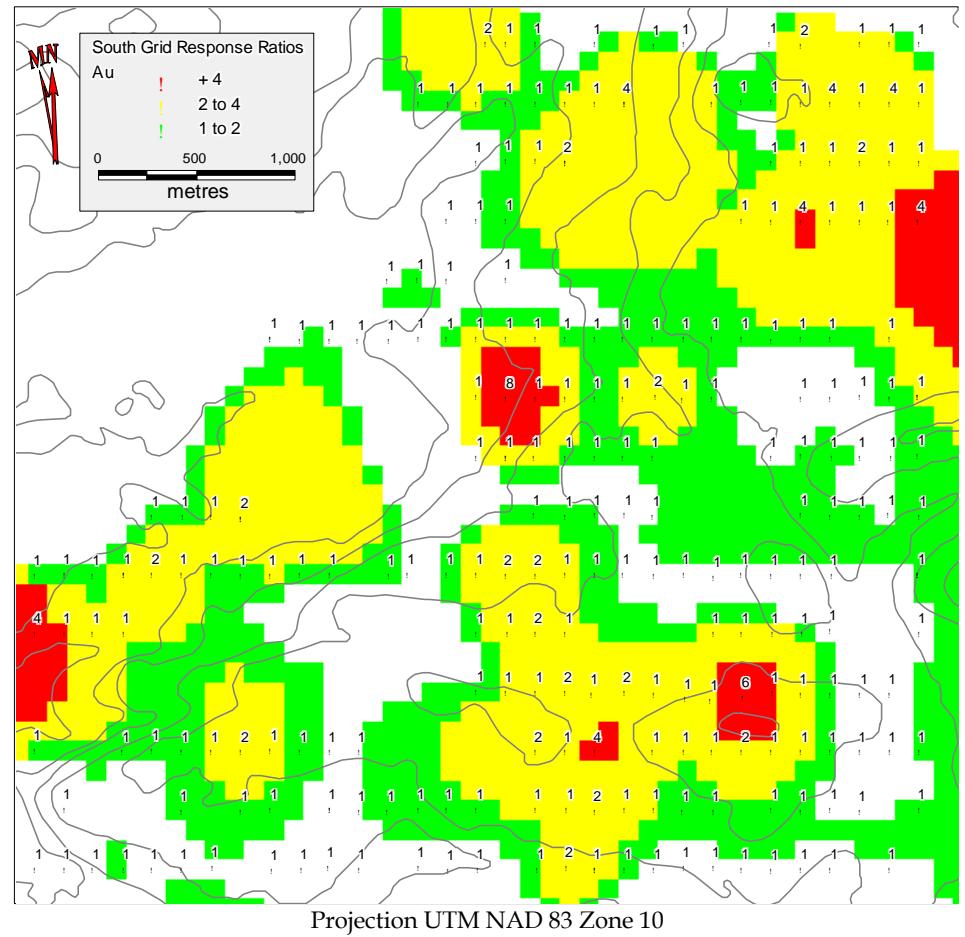
Plots were completed for copper, molybdenum, silver, gold, lead and zinc in parts per billion (Figure 9a through 9f respectively). Each element was individually contoured using the 90th through 98th percentile.

The parts per billion (ppb) plots of these six elements appear to show some positive correlations between the elements. The copper plot (Figure 9a) shows some scatter across the grid which may be a function of the number of unsampled locations. However, there is a strong north to northwest trending anomaly down the centre of the northern section of the grid. The molybdenum plot (Figure 9b) also highlights this anomaly with the strongest molybdenum values have a good correlation with the strongest copper values. This zone also appears to be weakly anomalous in silver (Figure 9c) making a strong multi element anomaly. The gold plot (Figure 9d) shows several isolated spot anomalies, though there is a spot high in the same area of the strongest copper and molybdenum anomalies. The lead plot (Figure 9e) shows a weak trend through the centre of the grid. The zinc plot (Figure 9f) shows a scatter of spot anomalies throughout the grid, but does not show any correlation with lead or with the other metals.

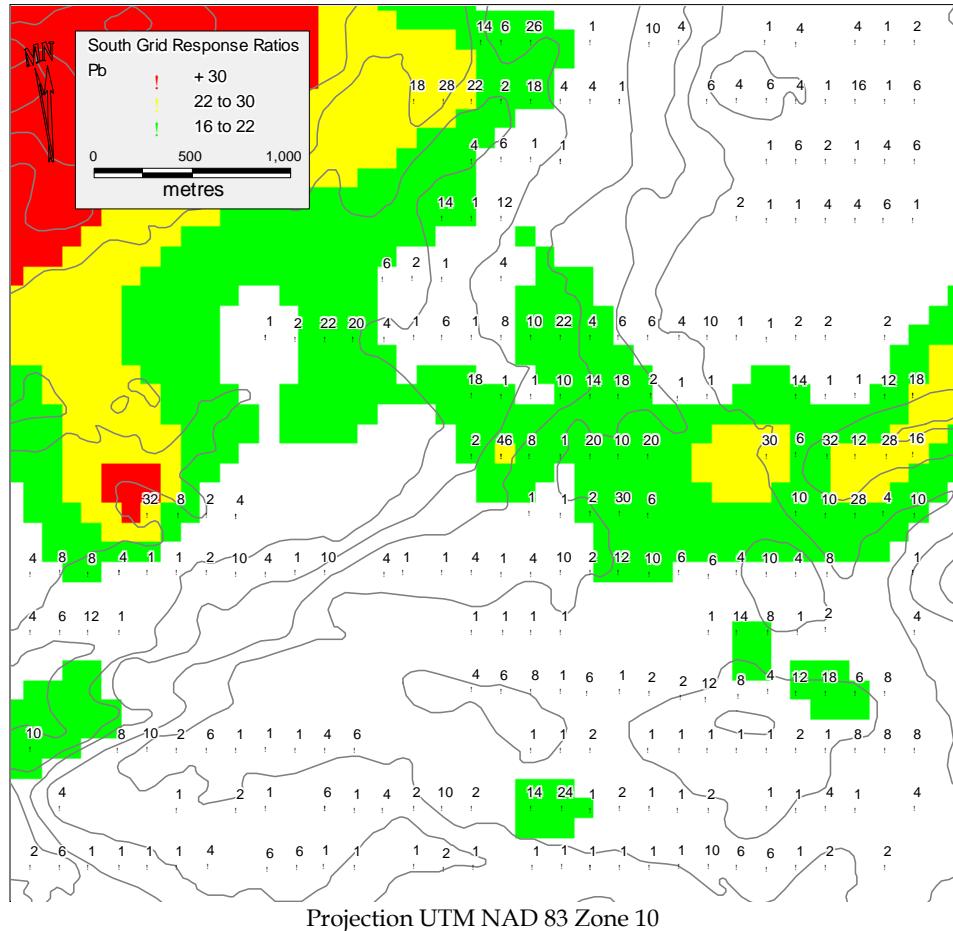




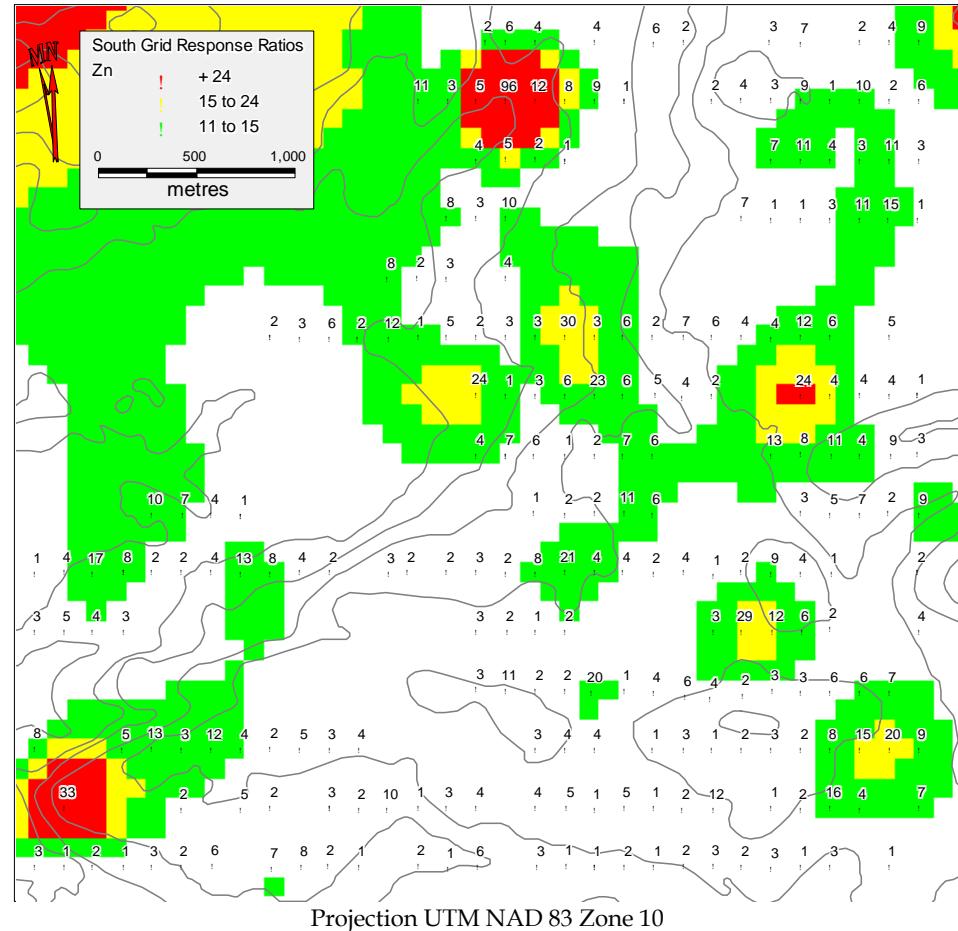
BONAPARTE PROJECT
South Grid - MMI Response Ratio Ag
 Figure 10c



BONAPARTE PROJECT
South Grid - MMI Response Ratio Au
 Figure 10d



BONAPARTE PROJECT
South Grid - MMI Response Ratio Pb
 Figure 10e



BONAPARTE PROJECT
South Grid - MMI Response Ratio Zn
 Figure 10f

Table 3: South Grid Geochemical Statistics for ppb data and Response Ratio data

Percentile	ppb Cu	ppb Mo	ppb Ag	ppb Au	ppb Pb	ppb Zn	RR Cu	RR Mo	RR Ag	RR Au	RR Pb	RR Zn
25th	230	2.5	3	0.05	5	50	2	1	2	1	1	2
50th	340	2.5	7	0.05	20	100	2	1	5	1	4	4
75th	480	6	11	0.05	40	190	3	2	8	1	8	6
90th	670	9	18	0.1	80	350	4	4	12	1	16	11
95th	935	12	24.5	0.1	110	485	5	5	16.5	2	22	15
98th	1260	18	28	0.2	150	760	7	8	19	4	30	24
Maximum	3090	59	34	0.4	230	3100	17	8	23	8	46	96

The South Grid Response Ratio plots for copper, molybdenum, silver, gold, lead and zinc (Figures 10a through 10f respectively) essentially mirror the element plots for the same metal for each of the 6 metals. Again the coincidental copper, molybdenum and silver north trending anomaly in the northern part of the grid is clearly identified.

The North Grid MMI results have identified a general multi element anomalous zone in the south to southeastern part of this grid.

The South Grid MMI results have identified a good multi element linear anomaly in the north central part of this grid.

DRILLING

There is no record of diamond drilling on the Bonaparte property.

SAMPLING METHOD AND APPROACH

The only surveys completed over the Bonaparte Project were MMI surveys. The North Grid area covers an area largely underlain by glacial deposits. Conventional soil geochemistry will not produce reliable results. The South Grid is covered by a thin veneer of Chilcotin flood basalts and conventional geochemistry would not be able to penetrate the basalts to the underlying favourable geology.

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.

This MMI technology has its roots in Australia in the early 1990's where MMI was proven successful in locating buried mineralization in laterite weathering zones. The MMI technique has resulted from an initial series of 13 case studies where the following attributes were documented (MMI Manual Version 5.04):

- Constrained, precise anomalies, vertically above oxidizing mineralization and occasionally at up-dip projection positions on the surface;
- Commodity elements respond reducing the need for pathfinders;
- The anomalies can precisely target mineralization at significant depths;
- The incidence of false anomalies is very low in comparison to conventional geochemistry;
- Surface soil anomalies are repeatable and persist over time; and
- Anomalies have a better signal to noise ratio related to mineralization in a much wider range of regolith units when compared with conventional techniques.

The sampling procedure for the MMI grid soil sampling is as follows. East-west trending lines were laid out at 150 metre intervals. Each soil line was flagged and sampled at 150 metre intervals along the line, resulting in a 150 metre by 150 metre grid. The MMI case studies have shown that care must be taken in the collection of the samples. All samples were taken at a consistent depth, 10 to 25 centimetres below the organic / inorganic (or true soil) interface. Each sample comprised a minimum of 250 grams and was placed in a 90 by 150 millimetre snap seal (Ziploc) bag. A sequentially number assay ticket was also placed in the corresponding bag. The location was marked as a waypoint, stored in the memory of Garmin 72 or Garmin 76 GPS unit. The waypoint coordinates and assay ticket numbers were also recorded in a field notebook at the corresponding sample location as back-up. Details on 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 number and the soil color and proximal outcrop were also entered.

The author is not aware of any sampling factors that could materially impact the accuracy and reliability of the MMI soil sample results. At this stage of the exploration program, a sample spacing of 150 metres by 150 metres is more than adequate for a porphyry Cu-Mo target and are therefore considered representative. There is no chance of bias as sample medium is soil at regular intervals along sample lines.

Bedrock mineralization has not yet been encountered on the Bonaparte property. This was a preliminary exploration program focused on locating soil geochemical anomalies for follow up.

SAMPLE PREPARATION, ANALYSIS AND SECURITY

All MMI soil samples were taken and immediately placed in sealed sample bags. A pre-numbered assay ticket was placed in each Ziploc sample bag, with the corresponding part of the ticket filled out with date, time and location. Flagging was used to mark the field sample locations. A fix of the position was obtained by a Garmin 72 or Garmin 76 Global Positioning System unit set to record NAD 83 coordinates for the MMI soil samples.

The sampling was completed by Jaynes Contracting Ltd. of Naramata, British Columbia under the supervision of the property vendor, R. Tim Henneberry, P.Geo. Mr. Henneberry did not take any of the samples. The samples were packaged and delivered directly to the Bus Depot by Jaynes Contracting personnel for shipment to SGS Minerals 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.

Duplicate MMI soil samples were taken and inserted into the sample stream to compliment the standards and repeats utilized by SGS Mineral Services for internal quality control assessment. Results are entered and printed along with quality control data (repeats and standards). The duplicates and repeats performed well.

The author feels confidence in the assay results from SGS Mineral Services, based on the labs in-house re-checks and standards, along with the duplicate samples.

DATA VERIFICATION

Table 4: Singer Associates Duplicate Samples

Sample	all elements in ppb						Duplicate	all elements in ppb					
	Ag	Au	Cu	Mo	Pb	Zn		Ag	Au	Cu	Mo	Pb	Zn
200041	25	0.2	610	6	<10	30	200042	28	<0.1	780	<5	20	50
200068	23	0.2	1110	<5	110	240	200069	19	0.2	900	<5	110	330
200112	24	0.2	590	12	90	350	200113	32	0.2	1000	21	100	250
200171	<1	<0.1	180	<5	100	430	200172	<1	<0.1	170	<5	90	290
200194	5	<0.1	210	<5	90	30	200195	3	<0.1	210	<5	120	50
200270	6	<0.1	210	<5	140	150	200271	7	<0.1	240	<5	130	200
200283	20	0.1	1710	22	<10	<20	200284	25	0.1	1950	59	<10	20
200369	2	<0.1	170	<5	100	270	200370	2	<0.1	160	<5	100	390
200410	11	<0.1	130	<5	90	360	200411	11	<0.1	150	<5	70	140
200414	6	<0.1	190	<5	230	210	200415	7	<0.1	170	<5	190	170
200510	18	0.4	250	<5	70	70	200511	19	0.4	330	<5	70	60
200570	45	0.8	690	7	40	100	200571	35	0.3	480	8	40	110
200736	8	<0.1	240	<5	20	240	200737	7	<0.1	260	<5	20	130
200762	6	<0.1	220	7	30	90	200763	7	<0.1	230	6	20	80
200883	8	<0.1	330	<5	<10	60	200884	7	<0.1	330	<5	<10	50

The quality control measures for the 2008 MMI soil geochemistry survey on the Bonaparte property consisted of duplicate samples and SGS Minerals initiated rechecks and standards through the sample stream. Fifteen duplicate samples were taken during the survey by Jaynes Contracting personnel (Table 4). There is good duplication between for the various elements for 14 of the 15 samples.

Table 5: SGS Mineral Services Duplicate Samples

Sample	all elements in ppb							all elements in ppb						
	Ag	Au	Cu	Mo	Pb	Zn	Duplicate	Ag	Au	Cu	Mo	Pb	Zn	
200001	14	<0.1	680	21	140	50	200001	13	0.3	680	24	150	60	
200017	16	0.8	960	8	40	30	200017	14	0.3	820	7	40	20	
200032	8	0.1	460	<5	<10	70	200032	8	0.3	480	<5	<10	70	
200053	15	0.3	1180	6	60	70	200053	15	0.3	1230	6	60	70	
200065	14	<0.1	520	<5	70	320	200065	14	<0.1	550	<5	80	300	
200077	9	<0.1	180	<5	90	490	200077	9	<0.1	240	<5	80	650	
200089	1	<0.1	240	<5	50	40	200089	1	<0.1	220	<5	50	40	
200112	24	0.2	590	12	90	350	200112	23	0.1	630	11	90	350	
200124	2	<0.1	800	<5	30	620	200124	1	<0.1	750	<5	30	650	
200132	<1	<0.1	980	<5	50	70	200132	<1	<0.1	980	<5	30	70	
200149	8	<0.1	640	<5	50	170	200149	8	<0.1	680	<5	60	190	
200157	13	0.1	310	7	60	30	200157	12	0.2	330	7	50	30	
200169	3	<0.1	70	11	60	840	200169	3	<0.1	70	14	80	1090	
200180	6	<0.1	220	9	40	<20	200180	7	0.1	220	9	40	20	
200194	5	<0.1	210	<5	90	30	200194	4	<0.1	220	<5	100	20	
200205	15	0.7	240	<5	70	110	200205	16	0.5	210	<5	70	90	
200218	10	<0.1	220	13	80	230	200218	9	<0.1	220	13	80	220	
200260	20	<0.1	200	8	130	220	200260	17	0.3	190	8	120	200	
200275	<1	<0.1	580	<5	50	250	200275	<1	<0.1	400	<5	40	170	
200286	11	<0.1	280	8	<10	90	200286	11	0.1	330	8	<10	100	
200301	16	0.4	330	7	130	230	200301	10	0.3	140	5	150	290	
200314	3	<0.1	130	<5	80	200	200314	3	<0.1	120	<5	80	220	
200352	4	<0.1	110	10	180	470	200352	3	<0.1	140	9	210	530	
200365	<1	<0.1	110	<5	200	360	200365	<1	<0.1	110	<5	200	360	
200379	6	<0.1	320	<5	30	240	200379	7	<0.1	320	<5	30	220	
200405	18	0.2	450	<5	30	80	200405	19	0.2	440	<5	30	90	
200412	1	<0.1	230	<5	<10	20	200412	1	<0.1	240	<5	<10	30	
200426	7	0.2	320	<5	80	180	200426	7	0.1	300	<5	90	200	
200451	12	0.2	110	<5	80	60	200451	12	0.2	110	<5	80	70	
200469	2	<0.1	550	<5	120	530	200469	2	<0.1	510	<5	120	490	
200504	36	0.4	590	6	<10	<20	200504	30	0.6	540	5	<10	<20	
200516	15	0.6	1000	<5	10	<20	200516	16	0.7	1040	<5	10		
200556	1	<0.1	70	<5	90	1080	200556	2	<0.1	60	5	70	1020	
200568	13	0.2	260	<5	30	20	200568	13	0.3	270	<5	30	30	
200608	14	<0.1	110	<5	140	260	200608	13	<0.1	110	<5	150	290	

Table 5: SGS Mineral Services Duplicate Samples (continued)

Sample	all elements in ppb						all elements in ppb						
	Ag	Au	Cu	Mo	Pb	Zn	Duplicate	Ag	Au	Cu	Mo	Pb	Zn
200624	<1	<0.1	110	<5	70	140	200624	1	<0.1	110	<5	60	150
200663	29	0.4	680	<5	40	70	200663	30	0.3	640	<5	40	80
200675	9	0.5	770	<5	10	160	200675	10	0.4	850	<5	20	160
200701	9	<0.1	170	6	10	80	200701	10	<0.1	180	6	<10	60
200715	10	<0.1	180	<5	10	<20	200715	10	<0.1	190	<5	10	20
200728	18	<0.1	930	7	<10	<20	200728	21	<0.1	900	6	<10	<20
200743	6	<0.1	250	<5	30	90	200743	6	<0.1	240	<5	30	250
200757	7	<0.1	410	<5	<10	50	200757	7	<0.1	390	<5	<10	60
200772	4	0.1	270	<5	<10	20	200772	5	0.3	330	<5	<10	30
200786	10	<0.1	340	6	60	110	200786	10	<0.1	340	7	50	110
200801	16	<0.1	160	7	50	240	200801	17	0.3	160	7	60	310
200815	<1	<0.1	170	<5	40	470	200815	<1	<0.1	280	<5	30	450
200862	10	<0.1	430	<5	10	40	200862	9	<0.1	410	<5	10	40
200874	3	<0.1	260	<5	10	180	200874	3	<0.1	270	<5	10	190
200889	20	<0.1	380	5	<10	170	200889	18	0.1	340	<5	<10	150

SGS Minerals Services completed recheck or duplicate analyses on 50 samples as shown in Table 5. The duplicates show good reproducibility.

Table 6: SGS Mineral Services Standards

Sample	all elements in ppb						all elements in ppb						
	Ag	Au	Cu	Mo	Pb	Zn	Duplicate	Ag	Au	Cu	Mo	Pb	Zn
MMISRM16	17	24.4	590	46	160	220	BLANK	<1	<0.1	<10	<5	<10	<20
MMISRM16	23	34	720	55	170	270	BLANK	<1	<0.1	<10	<5	<10	<20
MMISRM16	16	21.7	570	46	160	230	BLANK	<1	<0.1	<10	<5	<10	<20
MMISRM16	22	24.8	500	39	130	190	BLANK	<1	<0.1	<10	<5	<10	<20
MMISRM16	15	22.9	550	43	110	220	BLANK	<1	<0.1	<10	<5	<10	<20
MMISRM16	17	29	540	42	120	190	BLANK	<1	<0.1	<10	<5	<10	<20
MMISRM16	18	28.6	690	70	140	240	BLANK	<1	<0.1	<10	<5	<10	<20
MMISRM16	17	27.2	530	47	70	200	BLANK	<1	<0.1	<10	<5	<10	<20
MMISRM16	15	24.5	620	46	110	220	BLANK	<1	<0.1	<10	<5	<10	<20
MMISRM16	18	26.6	670	50	170	250	BLANK	<1	<0.1	<10	<5	<10	<20
MMISRM16	22	32	660	52	160	250	BLANK	<1	<0.1	<10	<5	<10	<20
MMISRM16	21	30.6	810	53	180	310	BLANK	<1	<0.1	<10	<5	<10	<20
MMISRM16	19	32.9	610	46	130	220	BLANK	<1	<0.1	<10	<5	<10	<20
MMISRM16	18	29	540	42	120	180	BLANK	<1	<0.1	<10	<5	<10	<20
MMISRM16	19	27.7	720	70	140	250	BLANK	<1	<0.1	<10	<5	<10	<20
MMISRM16	17	27.8	570	46	80	200	BLANK	<1	<0.1	<10	<5	<10	<20
MMISRM16	16	26.5	590	44	110	200	BLANK	<1	<0.1	<10	<5	<10	<20

SGS Minerals Services also completed analysis on their standards and blanks (Table 6). Again there is good reproducibility in both the standard and blank.

The author feels there were sufficient quality control measures for the 2008 program and therefore feels confidence in the assay results.

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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 Bonaparte property.

MINERAL RESOURCES AND MINERAL RESERVE ESTIMATES

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

OTHER RELEVANT DATA AND INFORMATION

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

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INTERPRETATION AND CONCLUSIONS

The Bonaparte property lies within the Quesnel Trough in an area of high geological potential. The claims are covering a large section of the Triassic Jurassic Thuya batholith, one of several similar aged batholiths within the Quesnel Trough. Porphyry copper deposits are known within or associated with these similar aged plutons throughout the Trough.

Further, there are known occurrences of porphyry copper molybdenum type mineralization within the Thuya batholith, though none of them are currently on the Bonaparte property. The British Columbia Assessment Report and MINFILE databases show the Thuya batholith is under-explored in relation to the other plutons in the Quesnel Trough. The British Columbia Regional Geochemical Survey (RGS) shows there are several moderate copper in stream sediment anomalies within the area of the Thuya batholith current covered by the Bonaparte property.

The MMI soil geochemistry surveys completed in the north and south sections of the property were designed to test the drainage basins of the RGS copper anomalies. The North Grid survey located a series of isolated multi element anomalies displaying a general northeast trend in the southeast corner of the grid. The South Grid survey highlighted a strong north to northwest trending Cu, Mo, Ag anomaly down the centre of the northern section of the grid.

The MMI soil results from the initial exploration program are very encouraging, as there are two large areas (1 kilometre square on the North Grid and 900 metres long by 500 metres wide on the South Grid) of weakly to strongly anomalous copper-in-soil, molybdenum-in-soil and silver-in-soil. These multi element anomalies could be representing the surface expression of buried porphyry copper - molybdenum mineralization

Further exploration is very much warranted on the Bonaparte property. The first step is to tighten up the MMI grid spacing from 150 metres by 150 metres to 50 metres by 50 metres on both grids to further define the anomalies. This program should then be followed up by success contingent deep Induced Polarization surveys over key areas of each of the grids.

RECOMMENDATIONS

The MMI soil geochemistry surveys completed over the North Grid and South Grid on the Bonaparte property were successful in identifying multi element anomalies that require follow-up.

A two phase exploration program is recommended to further the development of the Bonaparte property.

The first phase will consist of further MMI soil geochemistry. The 1 kilometre by 1 kilometre anomalous area on the North Grid will be tightened up to a 50 metre by 50 metre grid. The 1000 metre by 500 metre anomaly on the South Grid will be tightened to a 50 metre by 50 metre grid. The large unsampled areas within the South Grid will be filled in at the 150 metre by 150 metre spacing. Finally a series of reconnaissance MMI lines will be run over the remaining southern section of the property to follow up on RGS copper anomalies. Total cost of this phase is estimated at \$203,000.

The second phase will be Induced Polarization surveys over the anomalous areas on the North Grid and South Grid. A total of 20 line kilometres of deep IP has been budgeted at a cost of \$111,000.

Phase I MMI Survey	21 days	\$202,745
Phase II IP Survey	12 days	\$110,870
Contingency		\$ 36,385
Total	33 days	\$350,000

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- CS-06 – MMI at the San Jorge Porphyry Copper Deposit, Mendoza Province, Argentina
- CS-36 – MMI Geochemistry, Jacks Pond, Buchans District, Newfoundland

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COST ESTIMATES

Phase I MMI survey 38 days

North Grid - 1 km by 1 km at 50m by 50m spacing

21 - 1 km lines sampled at 50 metre intervals = 441 samples

South Grid - 1 km by 0.5 km at 50m by 50m spacing

21 - 500 m lines sampled at 50 metre intervals = 231 samples

South Grid - fill in existing holes in South Grid = 214 samples

South Grid - 500m spaced lines over remainder of southern section

11 - 4500 m lines sampled at 150 metre intervals = 341 samples

Total of 1227 samples at 8 samples per man day = 154 mandays

One day travel at each end, two rain days = 16 man days

Prospect and map grids and remaining property

Geologist	38	days	@	\$	600	/day	\$	22,800
Prospector	38	days	@	\$	400	/day	\$	15,200
Lead Hand	38	days	@	\$	500	/day	\$	19,000
Assistant	38	days	@	\$	400	/day	\$	15,200
Assistant	38	days	@	\$	400	/day	\$	15,200
Assistant	38	days	@	\$	400	/day	\$	15,200
Room & Board	228	days	@	\$	100	/day	\$	22,800
Vehicle + Fuel	38	days	@	\$	150	/day	\$	5,700
Vehicle km's	2000	kms	@	\$	0.5	/km	\$	1,000
Vehicle + Fuel	38	days	@	\$	150	/day	\$	5,700
Vehicle km's	2000	kms	@	\$	0.5	/km	\$	1,000
Analysis - rock	50	sample	@	\$	35	/sample	\$	1,750
Analysis - soil	1227	sample	@	\$	35	/sample	\$	42,945
Analysis - standards	50	sample	@	\$	35	/sample	\$	1,750
Travel							\$	2,500
Sundries							\$	5,000
Report							\$	10,000
Phase I MMI survey total							\$	202,745

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COST ESTIMATES

Phase II - Induced Polarization Survey				50 days
Budget 20 line km in total				
Geologist	10 days	@ \$ 500 /day	\$ 5,000	
Room & Board	10 days	@ \$ 100 /day	\$ 1,000	
Vehicle + Fuel	10 days	@ \$ 150 /day	\$ 1,500	
Vehicle km's	2000 kms	@ \$ 0.5 /km	\$ 1,000	
IP Crew mob/demob				\$1,540
IP + Mag Survey	20 km	@ \$1,620 /line km	\$32,400	
IP Sundries / Expenses	14 days	@ \$560 /day	\$7,840	
IP Vehicles + Fuel	14 days	@ \$260 /day	\$3,640	
IP Room & Board	84 days	@ \$100 /day	\$8,400	
Line cutting crew (3)	20 km	@ \$1,285 /line km	\$25,700	
LC Vehicle + Fuel	35 days	@ \$180 /day	\$6,300	
LC Sundries	35 days	@ \$30 /day	\$1,050	
LC Room & Board	105 days	@ \$100 /day	\$10,500	
Report				\$ 5,000
Phase II - Induced Polarization Survey Total				\$ 110,870

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STATEMENT OF COSTS

BONAPARTE STATEMENT OF COSTS July 31 to Decemeber 31, 2008

Field Crew and Days

Rebecca Hoodikoff	Sep 4, 5, 6, 7, 8, 9, 11, 12, 13 - 9 days
Frank Jaynes	Aug 27; Sep 2,3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 - 13 days
Darby Kirby	Sep 4, 5, 6, 7, 8, 9, 10, 12, 13 - 9 days
Lynda Knibbecke	Sep 4, 5, 6, 9, 10 - 5 days
Tyler Olsen	Aug 27; Sep 4, 5, 6, 7, 8, 9, 10, 11, 13 - 10 days
Bob Peebles	Sep 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 - 10 days
Gary Peel	Aug 27 - 1 day
Doug Price	Sep 4, 5, 6, 7, 9, 10, 11, 12, 13 - 9 days
Lynne Reed	Aug 27; Sep 2,3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 - 13 days
Ken Richter	Sep 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 - 10 days
Kenny Richter	Sep 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 - 10 days
Will Walstra	Sep 4, 6, 9, 10, 11, 12, 13 - 7 days
Steve Butrenchuk	Nov 6, 7, 8 - 3 days

Project Management and Documentation

Tim Henneberry	Jul 31; Aug 2,3,4,26,29; Sep 7,11,13; Oct 6,7,8,17,19,20,24,25,26,27 - 97 hours
Steve Butrenchuk	Nov 5,10 - 4 hours

Gary Peel	1	days	@	\$	500	/day	\$	500.00
Frank Jaynes	13	days	@	\$	500	/day	\$	6,500.00
Lynne Reed	13	days	@	\$	400	/day	\$	5,200.00
Kenny Richter	10	days	@	\$	400	/day	\$	4,000.00
Bob Peebles	10	days	@	\$	400	/day	\$	4,000.00
Doug Price	9	days	@	\$	400	/day	\$	3,600.00
Tyler Olsen	8	days	@	\$	400	/day	\$	3,200.00
Ken Richter	10	days	@	\$	400	/day	\$	4,000.00
Rebecca Hoodikoff	9	days	@	\$	400	/day	\$	3,600.00
Will Walstra	7	days	@	\$	400	/day	\$	2,800.00
Darby Kirby	9	days	@	\$	400	/day	\$	3,600.00
Lynda Knibbecke	5	days	@	\$	400	/day	\$	2,000.00
Room and Board							\$	9,572.26
Vehicle kilometres	3922	km	@	\$	0.50	/km	\$	1,961.00
Vehicle Rentals	28	days	@	\$	50	/day	\$	1,400.00
Vehicle Rental (Jaynes)	13	days	@	\$	100	/day	\$	1,300.00
Fuel							\$	2,065.93
Quad Rentals	23	days	@	\$	55	/day	\$	1,265.00
Quad Trailer Rental	12	days	@	\$	10	/day	\$	120.00
Equipment Rental (GPS)	10	days	@	\$	20	/day	\$	200.00
Steve Butrenchuk	3	days	@	\$	500	/day	\$	1,500.00
Vehicle kilometres	2089	km	@	\$	0.75	/km	\$	1,566.75

Bonaparte Project

April 2009

Rockridge Capital Corp.

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STATEMENT OF COSTS
(continued)

BONAPARTE STATEMENT OF COSTS July 31 to Decemeber 31, 2008

Room and Board						\$	316.60	
Bob GPS	10	days	@	\$	20	/day	\$	200.00
Supplies						\$	1,199.31	
Sample Shipping						\$	659.17	
Analysis						\$	20,947.50	
	Certificate	TO103224				2,793.00		
	Certificate	TO103225				2,572.50		
	Certificate	TO103226				2,278.50		
	Certificate	TO103227				2,609.25		
	Certificate	TO103228				1,433.25		
	Certificate	TO103413				2,205.00		
	Certificate	TO103414				2,094.75		
	Certificate	TO103415				2,462.25		
	Certificate	TO103416				2,499.00		
Management /Documentation	101	hours	@	\$	100	/hour	\$	10,100.00
							\$	96,873.52

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CERTIFICATE

I, Stephen B. Butrenchuk , P.Geol. of 34 Temple Crescent West, Lethbridge, Alberta, T1K 4T4 do hereby certify that: I am the Qualified Person for:

Rockridge Capital Corp.
Suite 1588 – 609 Granville Street
Vancouver, B.C. V7Y 1G5

I earned a Bachelor of Science degree majoring in geology from the University of Manitoba (1996) and a Master of Science degree in geology from the same university in 1970.

I am registered with the Association of Professional Engineers, Geologists and Geophysicists in the Province of Alberta as a Professional Geologist.

I have practiced my profession continuously for 38 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:

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

I am responsible for the preparation of the technical report titled “Geological Report Bonaparte Project” and dated April 20, 2009, relating to the Bonaparte property. I completed a site visit to the Bonaparte property on November 7, 2008.

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

As of April 20, 2009, 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 make this Technical Report effective April 20, 2009.

Dated this 20th day of April, 2009.

“signed and sealed”

Stephen B. Butrenchuk, P.Geol.

Bonaparte North Grid

Sample Number	83Z10E	83Z10N	Ag ppb	Ag_RR	Au ppb	Au_RR	Cu ppb	Cu_RR	Mo ppb	Mo_RR	Pb ppb	Pb_RR	Zn ppb	Zn_RR
200001	659248	5695001	14	4	0.05	1	680	5	21	9	140	5	50	2
200002	659096	5695001	19	6	0.8	16	430	4	2.5	1	60	3	90	2
200003	658953	5695005	26	8	0.5	10	830	6	6	3	20	1	40	1
200004	658799	5695004	24	7	0.5	10	1440	11	12	5	70	3	40	1
200005	658649	5695006	19	6	0.3	6	810	6	7	3	50	2	40	1
200006	658499	5695004	17	5	0.8	16	530	4	12	5	120	5	50	2
200007	658349	5695007	5	2	0.6	12	340	3	2.5	1	20	1	100	3
200008	658198	5695009	34	10	0.5	10	790	6	6	3	40	2	70	2
200009	658050	5695013	19	6	0.5	10	710	6	8	4	70	3	60	2
200010	657894	5695012	11	3	0.2	4	840	6	9	4	40	2	30	1
200011	657756	5695006	6	2	0.4	8	530	4	5	2	70	3	160	4
200012	659853	5695001	11	3	0.05	1	760	6	8	4	120	5	60	2
200017	657600	5695000	16	5	0.8	16	960	7	8	4	40	2	30	1
200018	657450	5695000	37	11	0.2	4	1170	9	2.5	1	90	4	120	3
200019	657300	5695000	11	3	0.05	1	310	3	9	4	70	3	150	4
200020	657150	5695000	9	3	0.2	4	330	3	7	3	40	2	90	2
200021	657000	5695000	7	2	0.1	2	170	2	10	4	90	4	120	3
200022	656850	5695000	7	2	0.05	1	210	2	2.5	1	50	2	660	15
200023	656700	5695000	11	3	0.05	1	240	2	2.5	1	50	2	420	10
200024	656550	5695000	12	4	0.05	1	320	3	2.5	1	50	2	1090	24
200025	656400	5695000	19	6	0.1	2	260	2	2.5	1	30	2	120	3
200026	656250	5695000	13	4	0.05	1	230	2	2.5	1	20	1	200	5
200048	659701	5694999	9	3	0.05	1	510	4	9	4	120	5	1030	23
200051	660000	5695300	32	9	0.6	12	1290	10	2.5	1	30	2	110	3
200053	659700	5695308	15	5	0.3	6	1180	9	6	3	60	3	70	2
200054	659551	5695305	16	5	0.1	2	170	2	2.5	1	90	4	540	12
200055	659400	5695309	13	4	0.2	4	680	5	12	5	20	1	470	11
200056	659251	5695296	9	3	0.1	2	300	3	12	5	70	3	840	19
200057	659100	5695313	15	5	0.1	2	610	5	2.5	1	120	5	400	9
200058	658951	5695315	14	4	0.3	6	340	3	5	2	70	3	590	13
200059	658794	5695304	12	4	0.1	2	510	4	8	4	110	4	200	5
200060	658652	5695302	13	4	0.1	2	250	2	7	3	90	4	410	9
200061	658507	5695294	13	4	0.05	1	290	3	11	5	130	5	90	2
200062	658344	5695314	15	5	0.1	2	550	4	14	6	110	4	200	5
200063	658207	5695312	15	5	0.4	8	410	3	9	4	110	4	1010	23
200064	658052	5695312	8	3	0.1	2	250	2	2.5	1	90	4	280	7
200065	657900	5695300	14	4	0.05	1	520	4	2.5	1	70	3	320	8
200066	657750	5695300	12	4	0.2	4	320	3	6	3	70	3	720	16
200067	657600	5695300	9	3	0.2	4	310	3	8	4	70	3	260	6
200068	657450	5695300	23	7	0.2	4	1110	8	2.5	1	110	4	240	6
200069	657450	5695300	19	6	0.2	4	900	7	2.5	1	110	4	330	8
200070	657300	5695300	22	6	0.3	6	290	3	2.5	1	100	4	280	7
200071	657150	5695300	13	4	0.1	2	310	3	10	4	30	2	60	2
200072	657000	5695300	7	2	0.4	8	370	3	2.5	1	30	2	40	1
200073	656850	5695300	33	9	0.1	2	740	6	7	3	50	2	300	7
200074	656700	5695300	13	4	0.2	4	280	2	2.5	1	70	3	230	6
200075	656550	5695300	8	3	0.1	2	140	1	8	4	120	5	290	7
200076	656400	5695300	5	2	0.05	1	180	2	2.5	1	50	2	200	5
200077	656250	5695300	9	3	0.05	1	180	2	2.5	1	90	4	490	11
200101	660001	5695604	16	5	0.6	12	1310	10	6	3	20	1	80	2
200102	659849	5695602	22	6	1.7	34	950	7	7	3	30	2	10	1
200103	659698	5695596	2	1	0.05	1	70	1	19	8	50	2	3300	73
200104	659552	5695600	20	6	0.4	8	410	3	2.5	1	40	2	170	4
200105	659399	5695600	18	5	0.2	4	720	6	9	4	20	1	70	2
200106	659248	5695605	20	6	0.4	8	550	4	7	3	180	7	540	12
200107	659101	5695600	11	3	0.3	6	250	2	11	5	70	3	150	4
200108	658948	5695599	17	5	0.4	8	640	5	2.5	1	30	2	60	2
200109	658803	5695607	50	14	0.9	18	790	6	6	3	130	5	260	6
200110	658648	5695609	17	5	0.7	14	350	3	5	2	160	6	220	5
200111	658505	5695606	22	6	1.1	22	500	4	2.5	1	120	5	240	6

Bonaparte North Grid

Sample Number	83Z10E	83Z10N	Ag ppb	Ag_RR	Au ppb	Au_RR	Cu ppb	Cu_RR	Mo ppb	Mo_RR	Pb ppb	Pb_RR	Zn ppb	Zn_RR
200112	658351	5695597	24	7	0.2	4	590	5	12	5	90	4	350	8
200113	658351	5695597	32	9	0.2	4	1000	8	21	9	100	4	250	6
200114	658201	5695598	18	5	0.3	6	350	3	2.5	1	40	2	100	3
200115	658051	5695600	7	2	0.9	18	200	2	18	8	60	3	240	6
200116	657902	5695600	8	3	0.05	1	300	3	10	4	120	5	1080	24
200117	657750	5695603	8	3	0.05	1	320	3	11	5	70	3	630	14
200118	657596	5695598	45	13	0.7	14	790	6	2.5	1	20	1	40	1
200119	657448	5695598	21	6	0.5	10	2780	20	2.5	1	5	1	20	1
200120	657302	5695601	3	1	0.05	1	110	1	2.5	1	120	5	2140	47
200121	657150	5695600	18	5	0.2	4	610	5	6	3	30	2	100	3
200122	656999	5695602	19	6	0.05	1	460	4	8	4	40	2	290	7
200123	656848	5695598	3	1	0.05	1	110	1	8	4	140	5	2210	49
200124	656699	5695602	2	1	0.05	1	800	6	2.5	1	30	2	620	14
200125	656551	5695598	2	1	0.05	1	260	2	2.5	1	100	4	2370	53
200126	656403	5695601	7	2	0.1	2	720	6	2.5	1	20	1	420	10
200127	656247	5695600	0.05	1	0.05	1	5	1	2.5	1	5	1	10	1
200151	660000	5695900	22	6	0.8	16	1050	8	9	4	90	4	40	1
200152	659849	5695900	10	3	0.2	4	310	3	2.5	1	40	2	90	2
200153	659699	5695898	27	8	0.3	6	450	4	15	6	50	2	180	4
200154	659551	5695901	19	6	0.05	1	570	5	12	5	50	2	50	2
200155	659400	5695899	16	5	0.05	1	250	2	6	3	130	5	520	12
200156	659252	5695903	21	6	0.4	8	1060	8	9	4	60	3	70	2
200157	659099	5695905	13	4	0.1	2	310	3	7	3	60	3	30	1
200158	658950	5695908	13	4	0.2	4	750	6	2.5	1	70	3	140	4
200159	658800	5695896	11	3	0.05	1	270	2	2.5	1	70	3	120	3
200160	658649	5695901	39	11	0.5	10	2720	20	16	7	30	2	90	2
200161	658351	5695906	3	1	0.05	1	160	2	13	6	100	4	130	3
200162	658200	5695898	13	4	0.05	1	190	2	6	3	60	3	220	5
200163	658051	5695901	11	3	0.1	2	120	1	8	4	90	4	750	17
200164	657898	5695900	8	3	0.05	1	320	3	2.5	1	70	3	810	18
200165	657751	5695900	21	6	0.7	14	620	5	2.5	1	120	5	100	3
200166	657598	5695903	2	1	0.05	1	350	3	10	4	70	3	3220	71
200167	657449	5695898	31	9	0.05	1	1170	9	16	7	30	2	200	5
200168	657302	5695898	6	2	0.05	1	130	1	13	6	80	3	890	20
200169	657152	5695899	3	1	0.05	1	70	1	11	5	60	3	840	19
200170	656998	5695902	4	2	0.05	1	220	2	2.5	1	50	2	1020	23
200171	656850	5695902	0.05	1	0.05	1	180	2	2.5	1	100	4	430	10
200172	656850	5695902	0.05	1	0.05	1	170	2	2.5	1	90	4	290	7
200173	656699	5695900	3	1	0.05	1	140	1	2.5	1	70	3	510	12
200174	656550	5695899	12	4	0.1	2	1090	8	2.5	1	40	2	310	7
200176	656251	5695902	10	3	0.05	1	280	2	2.5	1	100	4	300	7
200177	658503	5695900	2	1	0.05	1	440	4	11	5	130	5	330	8
200201	659999	5696200	22	6	0.05	1	800	6	7	3	80	3	150	4
200202	659852	5696199	8	3	0.05	1	170	2	17	7	120	5	210	5
200203	659698	5696200	16	5	0.1	2	280	2	2.5	1	110	4	430	10
200204	659552	5696205	22	6	0.05	1	780	6	6	3	130	5	380	9
200205	659400	5696203	15	5	0.7	14	240	2	2.5	1	70	3	110	3
200206	659249	5696205	14	4	0.2	4	170	2	6	3	80	3	120	3
200207	659102	5696200	12	4	0.05	1	180	2	2.5	1	90	4	260	6
200208	658951	5696200	9	3	0.6	12	110	1	2.5	1	20	1	20	1
200209	658798	5696196	16	5	0.2	4	800	6	6	3	80	3	60	2
200210	658652	5696201	8	3	0.05	1	170	2	9	4	50	2	1340	30
200211	658498	5696200	9	3	0.05	1	160	2	7	3	50	2	440	10
200212	658352	5696197	4	2	0.05	1	380	3	6	3	130	5	560	13
200213	658200	5696202	8	3	0.05	1	400	3	7	3	40	2	1890	42
200215	657900	5696201	4	2	0.05	1	110	1	11	5	80	3	920	21
200216	657750	5696200	13	4	0.05	1	170	2	6	3	70	3	130	3
200217	657601	5696200	21	6	0.05	1	150	2	2.5	1	50	2	180	4
200218	657449	5696199	10	3	0.05	1	220	2	13	6	80	3	230	6
200219	657301	5696200	6	2	0.05	1	250	2	2.5	1	70	3	300	7

Bonaparte North Grid

Sample Number	83Z10E	83Z10N	Ag ppb	Ag_RR	Au ppb	Au_RR	Cu ppb	Cu_RR	Mo ppb	Mo_RR	Pb ppb	Pb_RR	Zn ppb	Zn_RR
200222	656851	5696201	14	4	0.3	6	410	3	2.5	1	80	3	520	12
200251	660000	5696523	21	6	0.4	8	430	4	7	3	80	3	70	2
200252	659852	5696501	14	4	0.3	6	480	4	6	3	70	3	170	4
200253	659702	5696511	15	5	0.3	6	710	6	11	5	60	3	30	1
200254	659552	5696498	16	5	0.3	6	170	2	2.5	1	100	4	130	3
200255	659405	5696509	15	5	0.5	10	4220	30	7	3	20	1	60	2
200256	659249	5696499	11	3	0.1	2	260	2	8	4	140	5	90	2
200257	659098	5696498	11	3	0.05	1	690	5	7	3	150	6	560	13
200258	658952	5696502	41	12	0.5	10	940	7	2.5	1	80	3	70	2
200259	658801	5696500	19	6	0.05	1	280	2	16	7	200	7	390	9
200260	658652	5696503	20	6	0.05	1	200	2	8	4	130	5	220	5
200261	658499	5696501	11	3	0.2	4	200	2	2.5	1	70	3	90	2
200262	658351	5696500	11	3	0.05	1	130	1	2.5	1	40	2	70	2
200266	657300	5696500	4	2	0.05	1	260	2	2.5	1	150	6	430	10
200267	657450	5696500	9	3	0.1	2	270	2	2.5	1	60	3	130	3
200268	657600	5696500	17	5	0.2	4	270	2	2.5	1	60	3	160	4
200269	657750	5696500	3	1	0.2	4	190	2	2.5	1	50	2	680	15
200270	657152	5696501	6	2	0.05	1	210	2	2.5	1	140	5	150	4
200271	657152	5696501	7	2	0.05	1	240	2	2.5	1	130	5	200	5
200272	657002	5696501	0.05	1	0.05	1	240	2	2.5	1	80	3	80	2
200273	656847	5696501	10	3	0.4	8	240	2	2.5	1	10	1	370	9
200274	656700	5696506	8	3	0.05	1	380	3	2.5	1	50	2	190	5
200275	656560	5696494	0.05	1	0.05	1	580	5	2.5	1	50	2	250	6
200276	656399	5696506	2	1	0.05	1	360	3	2.5	1	40	2	250	6
200277	656252	5696506	0.05	1	0.05	1	260	2	2.5	1	80	3	40	1
200278	656098	5696505	2	1	0.2	4	910	7	2.5	1	5	1	140	4
200301	660000	5696800	16	5	0.4	8	330	3	7	3	130	5	230	6
200302	659850	5696800	14	4	0.1	2	320	3	6	3	110	4	210	5
200303	659700	5696800	22	6	0.05	1	250	2	2.5	1	110	4	80	2
200304	659550	5696800	18	5	0.5	10	400	3	2.5	1	150	6	300	7
200305	659400	5696800	11	3	0.1	2	240	2	12	5	80	3	470	11
200307	659100	5696800	20	6	0.05	1	310	3	14	6	130	5	30	1
200309	658800	5696800	6	2	0.05	1	480	4	2.5	1	210	8	300	7
200310	658650	5696800	9	3	0.1	2	170	2	2.5	1	210	8	1550	35
200311	658500	5696800	15	5	0.3	6	200	2	2.5	1	60	3	50	2
200312	658350	5696800	3	1	0.05	1	160	2	2.5	1	120	5	240	6
200313	658200	5696800	2	1	0.2	4	280	2	2.5	1	100	4	150	4
200314	658050	5696800	3	1	0.05	1	130	1	2.5	1	80	3	200	5
200315	657900	5696800	0.05	1	0.05	1	150	2	2.5	1	170	6	110	3
200316	657750	5696800	1	1	0.05	1	220	2	2.5	1	100	4	290	7
200317	657600	5696800	2	1	0.2	4	300	3	2.5	1	20	1	160	4
200318	657450	5696800	7	2	0.05	1	380	3	2.5	1	60	3	210	5
200319	657300	5696800	3	1	0.05	1	90	1	2.5	1	40	2	220	5
200320	657150	5696800	13	4	0.05	1	160	2	10	4	140	5	1090	24
200321	657000	5696800	7	2	0.3	6	330	3	2.5	1	30	2	50	2
200322	656850	5696800	15	5	0.05	1	680	5	2.5	1	40	2	180	4
200323	656700	5696800	8	3	0.1	2	350	3	2.5	1	50	2	130	3
200324	656550	5696800	6	2	0.3	6	260	2	2.5	1	100	4	120	3
200351	660000	5697100	16	5	0.05	1	210	2	7	3	120	5	140	4
200352	659850	5697100	4	2	0.05	1	110	1	10	4	180	7	470	11
200353	659700	5697100	7	2	0.3	6	190	2	7	3	70	3	1090	24
200354	659550	5697100	15	5	1	20	510	4	2.5	1	40	2	90	2
200355	659400	5697100	17	5	0.1	2	200	2	6	3	90	4	60	2
200356	659250	5697100	11	3	0.1	2	160	2	2.5	1	90	4	50	2
200357	659100	5697100	12	4	0.05	1	170	2	5	2	120	5	230	6
200358	658950	5697100	19	6	0.05	1	1090	8	9	4	40	2	70	2
200359	658800	5697100	22	6	0.4	8	160	2	2.5	1	90	4	110	3
200360	658650	5697100	20	6	0.2	4	350	3	6	3	60	3	10	1
200361	658500	5697100	7	2	0.1	2	180	2	2.5	1	50	2	40	1
200362	658350	5697100	25	7	0.05	1	190	2	2.5	1	70	3	100	3

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Sample Number	83Z10E	83Z10N	Ag ppb	Ag_RR	Au ppb	Au_RR	Cu ppb	Cu_RR	Mo ppb	Mo_RR	Pb ppb	Pb_RR	Zn ppb	Zn_RR
200363	658200	5697100	8	3	0.05	1	80	1	2.5	1	40	2	180	4
200365	657900	5697100	0.05	1	0.05	1	110	1	2.5	1	200	7	360	8
200366	657750	5697100	0.05	1	0.1	2	200	2	2.5	1	140	5	180	4
200367	657600	5697100	1	1	0.2	4	650	5	2.5	1	50	2	60	2
200369	657300	5697100	2	1	0.05	1	170	2	2.5	1	100	4	270	6
200370	657300	5697100	2	1	0.05	1	160	2	2.5	1	100	4	390	9
200371	657150	5697100	2	1	0.2	4	270	2	2.5	1	70	3	40	1
200372	657000	5697100	0.05	1	0.2	4	280	2	2.5	1	150	6	60	2
200374	656700	5697100	7	2	0.2	4	280	2	2.5	1	100	4	70	2
200375	656550	5697100	17	5	0.05	1	320	3	2.5	1	80	3	100	3
200377	656250	5697100	2	1	0.05	1	290	3	2.5	1	90	4	80	2
200403	659701	5697401	11	3	0.05	1	190	2	2.5	1	100	4	1180	26
200404	659555	5697402	16	5	0.3	6	870	7	2.5	1	70	3	110	3
200405	659401	5697400	18	5	0.2	4	450	4	2.5	1	30	2	80	2
200406	659250	5697401	15	5	0.2	4	360	3	7	3	70	3	360	8
200407	659102	5697400	27	8	0.2	4	450	4	10	4	60	3	120	3
200408	658949	5697400	17	5	0.4	8	520	4	2.5	1	150	6	140	4
200409	658799	5697401	13	4	0.2	4	180	2	6	3	80	3	510	12
200410	658697	5697400	11	3	0.05	1	130	1	2.5	1	90	4	360	8
200411	658697	5697400	11	3	0.05	1	150	2	2.5	1	70	3	140	4
200421	657300	5697400	12	4	0.2	4	350	3	2.5	1	30	2	90	2
200422	657150	5697400	11	3	0.05	1	290	3	2.5	1	120	5	230	6
200423	657000	5697400	11	3	0.1	2	360	3	2.5	1	50	2	80	2
200424	656850	5697400	14	4	0.3	6	630	5	2.5	1	40	2	650	15
200425	656700	5697400	7	2	0.05	1	880	7	2.5	1	50	2	160	4
200426	656550	5697400	7	2	0.2	4	320	3	2.5	1	80	3	180	4
200427	656400	5697400	12	4	0.8	16	250	2	2.5	1	50	2	260	6
200428	656250	5697400	5	2	0.05	1	320	3	2.5	1	180	7	740	17
200451	660000	5697700	12	4	0.2	4	110	1	2.5	1	80	3	60	2
200452	659850	5697699	5	2	0.05	1	330	3	9	4	350	12	660	15
200454	659549	5697701	14	4	1.7	34	740	6	2.5	1	5	1	10	1
200457	659103	5697707	14	4	0.1	2	90	1	2.5	1	40	2	60	2
200458	658952	5697699	28	8	0.05	1	150	2	2.5	1	120	5	360	8
200459	658800	5697697	13	4	0.05	1	70	1	6	3	120	5	100	3
200460	658653	5697699	17	5	0.05	1	100	1	2.5	1	100	4	40	1
200463	658200	5697700	0.05	1	0.2	4	300	3	2.5	1	120	5	40	1
200464	658052	5697700	1	1	0.05	1	260	2	2.5	1	120	5	30	1
200466	657749	5697702	6	2	0.2	4	270	2	2.5	1	60	3	140	4
200467	657606	5697697	6	2	0.5	10	310	3	2.5	1	20	1	20	1
200468	657449	5697691	10	3	0.3	6	260	2	2.5	1	40	2	340	8
200469	657299	5697692	2	1	0.05	1	550	4	2.5	1	120	5	530	12
200470	657155	5697691	8	3	0.3	6	390	3	2.5	1	50	2	400	9
200471	656995	5697701	14	4	0.05	1	320	3	2.5	1	50	2	630	14
200472	656851	5697701	11	3	0.05	1	400	3	2.5	1	90	4	640	15
200473	656699	5697702	9	3	0.1	2	290	3	2.5	1	60	3	320	8
200474	656549	5697701	9	3	0.05	1	100	1	2.5	1	80	3	70	2
200475	656401	5697699	7	2	0.2	4	560	4	2.5	1	30	2	140	4
200476	656251	5697705	20	6	0.1	2	320	3	6	3	90	4	80	2
200477	656103	5697699	0.05	1	0.3	6	400	3	2.5	1	60	3	80	2
200478	656851	5697701	13	4	0.1	2	580	5	2.5	1	90	4	490	11
200501	660001	5698000	0.05	1	0.05	1	120	1	15	6	220	8	4760	105
200502	659850	5698000	12	4	0.05	1	290	3	10	4	380	13	330	8
200504	659548	5698005	36	10	0.4	8	590	5	6	3	5	1	10	1
200505	659401	5697998	5	2	0.05	1	100	1	2.5	1	130	5	900	20
200506	659251	5698000	14	4	0.2	4	260	2	2.5	1	50	2	40	1
200507	659096	5697999	7	2	0.2	4	230	2	2.5	1	90	4	20	1
200508	658948	5697995	6	2	0.3	6	140	1	5	2	70	3	60	2
200509	658801	5697996	7	2	0.05	1	140	1	2.5	1	80	3	30	1
200510	658646	5698004	18	5	0.4	8	250	2	2.5	1	70	3	70	2
200511	658646	5698004	19	6	0.4	8	330	3	2.5	1	70	3	60	2

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Sample Number	83Z10E	83Z10N	Ag ppb	Ag_RR	Au ppb	Au_RR	Cu ppb	Cu_RR	Mo ppb	Mo_RR	Pb ppb	Pb_RR	Zn ppb	Zn_RR
200512	658497	5697999	7	2	0.4	8	230	2	2.5	1	60	3	40	1
200513	658347	5698003	8	3	0.2	4	350	3	2.5	1	30	2	40	1
200514	658196	5698003	7	2	0.05	1	110	1	6	3	80	3	50	2
200515	658051	5698004	34	10	0.7	14	850	6	2.5	1	40	2	30	1
200516	657902	5698001	15	5	0.6	12	1000	8	2.5	1	10	1	10	1
200517	657750	5698003	31	9	0.6	12	510	4	6	3	40	2	30	1
200519	657299	5697998	9	3	0.3	6	300	3	2.5	1	20	1	170	4
200520	657145	5697992	16	5	0.5	10	260	2	2.5	1	150	6	60	2
200521	657000	5698006	50	14	0.3	6	760	6	7	3	20	1	30	1
200522	656853	5698001	8	3	0.05	1	90	1	6	3	50	2	30	1
200523	656701	5698000	19	6	0.05	1	890	7	6	3	50	2	200	5
200524	656551	5697999	6	2	0.1	2	190	2	2.5	1	80	3	570	13
200525	656402	5697998	7	2	0.4	8	350	3	2.5	1	20	1	200	5
200526	656251	5697999	2	1	0.2	4	240	2	2.5	1	50	2	90	2
200528	657598	5697997	6	2	0.3	6	230	2	2.5	1	40	2	220	5
200551	659984	5698300	19	6	0.05	1	120	1	6	3	190	7	960	22
200556	659251	5698300	1	1	0.05	1	70	1	2.5	1	90	4	1080	24
200557	659099	5698301	20	6	0.2	4	700	5	10	4	40	2	180	4
200558	658949	5698300	11	3	0.3	6	390	3	2.5	1	50	2	70	2
200559	658800	5698300	12	4	0.2	4	260	2	2.5	1	60	3	210	5
200560	658650	5698300	9	3	0.05	1	140	1	2.5	1	170	6	80	2
200561	658500	5698300	15	5	0.3	6	550	4	2.5	1	50	2	60	2
200562	658350	5698300	18	5	0.1	2	240	2	2.5	1	50	2	20	1
200563	658199	5698300	24	7	0.6	12	1240	9	2.5	1	40	2	40	1
200564	658051	5698300	26	8	0.3	6	1300	10	2.5	1	20	1	20	1
200565	657900	5698299	11	3	0.2	4	190	2	2.5	1	5	1	40	1
200566	657750	5698300	7	2	0.2	4	170	2	2.5	1	100	4	50	2
200567	657598	5698300	10	3	0.05	1	170	2	2.5	1	100	4	70	2
200568	657451	5698300	13	4	0.2	4	260	2	2.5	1	30	2	20	1
200569	657301	5698300	25	7	0.1	2	290	3	12	5	30	2	110	3
200570	657148	5698300	45	13	0.8	16	690	5	7	3	40	2	100	3
200571	657148	5698300	35	10	0.3	6	480	4	8	4	40	2	110	3
200572	657000	5698300	12	4	0.2	4	430	4	2.5	1	40	2	60	2
200573	656850	5698298	12	4	0.05	1	210	2	2.5	1	40	2	120	3
200574	656550	5698300	4	2	0.05	1	160	2	2.5	1	50	2	90	2
200575	656400	5698299	10	3	0.05	1	230	2	2.5	1	100	4	80	2
200576	656249	5698299	0.05	1	0.1	2	380	3	2.5	1	20	1	170	4
200577	656100	5698300	0.05	1	0.05	1	180	2	2.5	1	110	4	70	2
200578	656702	5698300	17	5	0.05	1	150	2	2.5	1	70	3	1190	27
200608	658947	5698600	14	4	0.05	1	110	1	2.5	1	140	5	260	6
200611	658499	5698599	6	2	0.05	1	770	6	2.5	1	110	4	130	3
200612	658349	5698599	19	6	1	20	660	5	2.5	1	40	2	40	1
200613	658203	5698597	8	3	0.5	10	580	5	2.5	1	10	1	20	1
200614	658052	5698599	18	5	0.1	2	360	3	7	3	70	3	80	2
200615	657901	5698593	15	5	0.2	4	600	5	2.5	1	70	3	160	4
200616	657749	5698597	6	2	0.05	1	300	3	2.5	1	170	6	1060	24
200617	657593	5698592	16	5	0.2	4	320	3	2.5	1	100	4	140	4
200618	657450	5698599	11	3	0.2	4	530	4	2.5	1	50	2	120	3
200619	657304	5698601	6	2	0.05	1	150	2	2.5	1	120	5	400	9
200621	657000	5698599	2	1	0.1	2	210	2	2.5	1	120	5	690	16
200623	656701	5698600	1	1	0.05	1	160	2	2.5	1	60	3	90	2
200624	656553	5698608	0.05	1	0.05	1	110	1	2.5	1	70	3	140	4
200625	656400	5698600	5	2	0.05	1	220	2	2.5	1	80	3	1070	24
200626	656250	5698600	10	3	0.6	12	940	7	2.5	1	30	2	200	5
200627	656100	5698600	10	3	0.1	2	260	2	2.5	1	110	4	200	5
200652	659850	5698900	63	18	0.6	12	1250	9	11	5	50	2	60	2
200654	659550	5698900	17	5	0.2	4	340	3	11	5	40	2	590	13
200655	659400	5698900	20	6	0.8	16	430	4	2.5	1	150	6	310	7
200656	659250	5698900	19	6	0.05	1	380	3	2.5	1	160	6	120	3
200659	658800	5698900	8	3	0.3	6	160	2	5	2	50	2	40	1

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Sample Number	83Z10E	83Z10N	Ag ppb	Ag_RR	Au ppb	Au_RR	Cu ppb	Cu_RR	Mo ppb	Mo_RR	Pb ppb	Pb_RR	Zn ppb	Zn_RR
200660	658650	5698900	9	3	0.05	1	250	2	11	5	100	4	60	2
200661	658500	5698900	22	6	0.2	4	450	4	2.5	1	30	2	10	1
200662	658350	5698900	28	8	0.1	2	520	4	14	6	30	2	50	2
200663	658200	5698900	29	8	0.4	8	680	5	2.5	1	40	2	70	2
200664	658050	5698900	12	4	0.05	1	490	4	2.5	1	60	3	80	2
200665	657900	5698900	16	5	0.4	8	1050	8	2.5	1	40	2	140	4
200666	657750	5698900	12	4	0.5	10	1020	8	2.5	1	40	2	180	4
200667	657600	5698900	15	5	0.6	12	1140	9	6	3	5	1	20	1
200668	657450	5698900	17	5	0.2	4	650	5	9	4	20	1	80	2
200669	657300	5698900	13	4	0.2	4	260	2	2.5	1	40	2	180	4
200670	657150	5698900	5	2	0.05	1	140	1	8	4	50	2	550	13
200671	657150	5698900	4	2	0.2	4	190	2	2.5	1	40	2	200	5
200672	657000	5698900	2	1	0.1	2	550	4	2.5	1	90	4	80	2
200673	656850	5698900	4	2	0.2	4	170	2	2.5	1	80	3	60	2
200674	656700	5698900	2	1	0.2	4	450	4	2.5	1	60	3	360	8
200675	656550	5698900	9	3	0.5	10	770	6	2.5	1	10	1	160	4
200677	656250	5698900	10	3	0.1	2	540	4	2.5	1	70	3	170	4
200678	656100	5698900	2	1	0.05	1	60	1	2.5	1	5	1	90	2

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Sample Number	83Z10E	83Z10N	Ag_ppb	Ag_RR	Au_ppb	Au_RR	Cu_ppb	Cu_RR	Mo_ppb	Mo_RR	Pb_ppb	Pb_RR	Zn_ppb	Zn_RR
200013	667698	5670901	2	2	0.2	4	790	5	2.5	1	5	1	10	1
200014	667546	5670900	1	1	0.05	1	270	2	2.5	1	30	6	460	15
200015	667399	5670900	8	6	0.05	1	510	3	2.5	1	20	4	350	11
200016	667249	5670901	2	2	0.05	1	290	2	2.5	1	20	4	80	3
200027	667099	5670900	4	3	0.2	4	510	3	2.5	1	5	1	10	1
200028	666949	5670899	5	4	0.05	1	280	2	2.5	1	5	1	30	1
200029	666798	5670907	3	2	0.05	1	230	2	2.5	1	10	2	200	7
200030	667700	5671200	5	4	0.05	1	320	2	2.5	1	30	6	70	3
200031	667549	5671200	7	5	0.05	1	480	3	2.5	1	20	4	340	11
200032	667400	5671201	8	6	0.1	2	460	3	2.5	1	5	1	70	3
200033	667248	5671202	14	10	0.05	1	550	3	2.5	1	10	2	120	4
200034	667099	5671198	11	8	0.05	1	480	3	2.5	1	30	6	330	11
200035	666949	5671200	13	9	0.05	1	340	2	2.5	1	5	1	220	7
200037	665600	5671501	1	1	0.05	1	270	2	8	4	10	2	3100	96
200038	665752	5671499	28	19	0.05	1	150	1	6	3	90	18	390	12
200039	665902	5671502	10	7	0.05	1	370	2	5	2	20	4	250	8
200040	666049	5671500	5	4	0.05	1	220	2	6	3	20	4	280	9
200041	666202	5671504	25	17	0.2	4	610	4	6	3	5	1	30	1
200042	666202	5671504	28	19	0.05	1	780	5	2.5	1	20	4	50	2
200043	665299	5670599	9	6	0.05	1	380	2	2.5	1	5	1	90	3
200045	665599	5670601	25	17	0.05	1	480	3	32	13	20	4	110	4
200078	666352	5669099	0.5	1	0.05	1	270	2	2.5	1	50	10	50	2
200079	666198	5669103	2	2	0.05	1	140	1	6	3	60	12	120	4
200080	666049	5669101	7	5	0.05	1	290	2	2.5	1	10	2	120	4
200081	665898	5669100	7	5	0.05	1	230	2	9	4	50	10	660	21
200082	665750	5669094	11	8	0.1	2	270	2	8	4	20	4	250	8
200083	665597	5669096	11	8	0.1	2	310	2	8	4	5	1	40	2
200084	665450	5669105	8	6	0.05	1	630	4	6	3	20	4	80	3
200085	665299	5669101	4	3	0.05	1	920	5	2.5	1	5	1	60	2
200086	665100	5669100	0.5	1	0.05	1	250	2	2.5	1	5	1	50	2
200087	665001	5669097	0.5	1	0.05	1	210	2	2.5	1	20	4	90	3
200089	664703	5669104	1	1	0.05	1	240	2	2.5	1	50	10	40	2
200090	664550	5669103	18	12	0.05	1	440	3	7	3	5	1	130	4
200091	664397	5669095	17	12	0.05	1	390	3	2.5	1	20	4	260	8
200092	664249	5669099	11	8	0.05	1	430	3	6	3	50	10	410	13
200093	664100	5669102	24	16	0.05	1	350	2	9	4	10	2	130	4
200094	663948	5669100	19	13	0.05	1	720	4	5	2	5	1	50	2
200095	663800	5669100	34	23	0.1	2	680	4	12	5	5	1	50	2
200096	663800	5669400	5	4	0.05	1	160	1	11	5	160	32	300	10
200097	663955	5669399	12	8	0.05	1	250	2	8	4	40	8	200	7
200098	664102	5669398	12	8	0.05	1	230	2	9	4	10	2	110	4
200099	664253	5669392	27	18	0.1	2	610	4	2.5	1	20	4	30	1
200100	664253	5669392	8	6	0.1	2	220	2	7	3	5	1	80	3
200132	667103	5669402	0.5	1	0.05	1	980	6	2.5	1	50	10	70	3
200133	667254	5669400	2	2	0.05	1	420	3	5	2	50	10	150	5
200134	667397	5669396	0.5	1	0.05	1	410	3	2.5	1	140	28	200	7
200135	667547	5669406	1	1	0.05	1	490	3	2.5	1	20	4	50	2
200136	667704	5669399	0.5	1	0.05	1	470	3	2.5	1	50	10	280	9
200137	667698	5669704	0.5	1	0.05	1	270	2	2.5	1	80	16	90	3
200138	667557	5669699	0.5	1	0.05	1	170	1	2.5	1	140	28	270	9
200139	667400	5669701	0.5	1	0.05	1	220	2	2.5	1	60	12	100	4
200140	667256	5669700	0.5	1	0.05	1	210	2	2.5	1	160	32	350	11
200141	667101	5669704	1	1	0.05	1	330	2	2.5	1	30	6	240	8
200142	666948	5669700	0.5	1	0.05	1	140	1	7	3	150	30	400	13
200147	666050	5671800	10	7	0.05	1	210	2	2.5	1	5	1	100	4
200149	666351	5671797	8	6	0.05	1	640	4	2.5	1	50	10	170	6
200150	666503	5671798	10	7	0.05	1	290	2	7	3	20	4	40	2
200180	667258	5669099	6	4	0.05	1	220	2	9	4	40	8	10	1
200181	667096	5669098	14	10	0.05	1	220	2	10	4	20	4	120	4
200182	666952	5669099	7	5	0.05	1	240	2	18	8	50	10	270	9

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Sample Number	83Z10E	83Z10N	Ag_ppb	Ag_RR	Au_ppb	Au_RR	Cu_ppb	Cu_RR	Mo_ppb	Mo_RR	Pb_ppb	Pb_RR	Zn_ppb	Zn_RR
200183	666800	5669103	14	10	0.05	1	540	3	5	2	20	4	60	2
200184	666655	5669089	0.5	1	0.05	1	280	2	2.5	1	30	6	30	1
200185	666501	5669104	0.5	1	0.05	1	220	2	2.5	1	30	6	110	4
200186	666500	5669996	8	6	0.05	1	460	3	7	3	5	1	100	4
200187	666650	5670003	3	2	0.05	1	370	2	6	3	5	1	40	2
200190	667101	5669999	7	5	0.05	1	530	3	2.5	1	70	14	760	24
200191	667251	5669997	7	5	0.05	1	330	2	2.5	1	5	1	110	4
200192	667402	5670005	5	4	0.05	1	220	2	6	3	5	1	130	4
200193	667548	5670001	2	2	0.05	1	170	1	5	2	60	12	120	4
200194	667695	5670006	5	4	0.05	1	210	2	2.5	1	90	18	30	1
200195	667695	5670006	3	2	0.05	1	210	2	2.5	1	120	24	50	2
200197	667549	5670299	3	2	0.05	1	490	3	2.5	1	10	2	160	5
200199	667250	5670299	4	3	0.05	1	220	2	2.5	1	10	2	190	6
200200	667097	5670299	3	2	0.05	1	410	3	2.5	1	10	2	360	12
200279	667702	5671804	4	3	0.05	1	260	2	2.5	1	10	2	290	9
200280	665448	5671202	11	8	0.05	1	350	2	2.5	1	20	4	100	4
200281	665599	5671203	33	22	0.05	1	820	5	10	4	30	6	160	5
200282	665751	5671204	21	14	0.05	1	530	3	19	8	5	1	40	2
200283	665900	5671200	20	14	0.1	2	1710	9	22	9	5	1	10	1
200284	665900	5671200	25	17	0.1	2	1950	11	59	24	5	1	20	1
200285	665600	5670904	10	7	0.05	1	280	2	10	4	60	12	300	10
200286	665450	5670906	11	8	0.05	1	280	2	8	4	5	1	90	3
200287	665301	5670904	8	6	0.05	1	210	2	7	3	70	14	260	8
200379	664997	5670595	6	4	0.05	1	320	2	2.5	1	30	6	240	8
200380	665148	5670600	10	7	0.05	1	370	2	2.5	1	10	2	60	2
200381	665153	5670299	9	6	0.05	1	380	2	9	4	5	1	30	1
200382	665300	5670304	6	4	0.05	1	190	1	2.5	1	30	6	140	5
200383	665452	5670302	11	8	0.05	1	610	4	7	3	5	1	40	2
200384	665601	5670300	12	8	0.05	1	350	2	6	3	40	8	70	3
200385	665750	5670300	4	3	0.05	1	260	2	15	6	50	10	80	3
200386	665000	5670297	9	6	0.05	1	210	2	6	3	20	4	360	12
200387	664849	5670297	17	12	0.05	1	180	1	7	3	100	20	50	2
200388	664700	5670295	2	2	0.05	1	140	1	9	4	110	22	170	6
200389	664549	5670297	10	7	0.05	1	310	2	5	2	10	2	70	3
200390	664402	5670303	12	8	0.05	1	820	5	2.5	1	5	1	60	2
200392	664400	5670300	12	8	0.05	1	1020	6	2.5	1	5	1	40	2
200393	665450	5669700	18	12	0.05	1	440	3	2.5	1	10	2	120	4
200412	665901	5669701	1	1	0.05	1	230	2	2.5	1	5	1	20	1
200413	665741	5669701	2	2	0.05	1	240	2	2.5	1	40	8	170	6
200414	665600	5669699	6	4	0.05	1	190	1	2.5	1	230	46	210	7
200415	665600	5669699	7	5	0.05	1	170	1	2.5	1	190	38	170	6
200416	665898	5670000	9	6	0.05	1	190	1	13	6	50	10	180	6
200417	666049	5670001	2	2	0.05	1	280	2	6	3	70	14	720	23
200418	666050	5670298	15	10	0.05	1	370	2	2.5	1	20	4	70	3
200419	665900	5670300	4	3	0.05	1	480	3	16	7	110	22	960	30
200420	665751	5670000	25	17	0.05	1	1290	7	2.5	1	5	1	70	3
200429	665601	5670001	27	18	0.4	8	3090	17	13	6	5	1	20	1
200430	665448	5670006	4	3	0.05	1	220	2	6	3	90	18	760	24
200701	663204	5667606	9	6	0.05	1	170	1	6	3	10	2	80	3
200702	663350	5667606	23	16	0.05	1	1160	7	2.5	1	30	6	10	1
200703	663498	5667600	14	10	0.05	1	540	3	2.5	1	5	1	40	2
200704	663652	5667601	12	8	0.05	1	240	2	5	2	5	1	30	1
200705	663797	5667607	31	21	0.05	1	1110	6	10	4	5	1	70	3
200706	663947	5667607	21	14	0.05	1	1260	7	9	4	5	1	50	2
200707	664104	5667608	6	4	0.05	1	390	3	2.5	1	20	4	170	6
200709	664405	5667597	16	11	0.05	1	370	2	2.5	1	30	6	220	7
200710	664556	5667607	6	4	0.05	1	650	4	2.5	1	30	6	260	8
200711	664694	5667608	4	3	0.05	1	230	2	2.5	1	5	1	50	2
200712	664851	5667603	0.5	1	0.05	1	230	2	2.5	1	5	1	10	1
200714	665154	5667608	7	5	0.05	1	340	2	2.5	1	5	1	40	2

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Sample Number	83Z10E	83Z10N	Ag_ppb	Ag_RR	Au_ppb	Au_RR	Cu_ppb	Cu_RR	Mo_ppb	Mo_RR	Pb_ppb	Pb_RR	Zn_ppb	Zn_RR
200715	665303	5667599	10	7	0.05	1	180	1	2.5	1	10	2	10	1
200716	665454	5667607	11	8	0.05	1	420	3	2.5	1	5	1	180	6
200718	665761	5667600	14	10	0.05	1	750	4	2.5	1	5	1	90	3
200719	665905	5667613	31	21	0.1	2	500	3	8	4	5	1	10	1
200720	666050	5667600	9	6	0.05	1	250	2	2.5	1	5	1	10	1
200721	666055	5667603	9	6	0.05	1	240	2	2.5	1	5	1	10	1
200722	666203	5667603	5	4	0.05	1	510	3	2.5	1	5	1	60	2
200723	666355	5667605	4	3	0.05	1	400	3	2.5	1	5	1	10	1
200724	666503	5667608	7	5	0.05	1	490	3	2.5	1	5	1	60	2
200725	666653	5667609	9	6	0.05	1	350	2	2.5	1	50	10	90	3
200726	666800	5667600	10	7	0.05	1	140	1	2.5	1	30	6	40	2
200727	666952	5667599	13	9	0.05	1	480	3	2.5	1	30	6	80	3
200728	667101	5667607	18	12	0.05	1	930	5	7	3	5	1	10	1
200729	667253	5667603	2	2	0.05	1	330	2	2.5	1	10	2	80	3
200731	667550	5667602	2	2	0.05	1	390	3	2.5	1	10	2	10	1
200733	663200	5669098	7	5	0.05	1	240	2	2.5	1	20	4	30	1
200734	663351	5669100	13	9	0.05	1	330	2	2.5	1	40	8	130	4
200735	663499	5669099	9	6	0.05	1	350	2	2.5	1	40	8	540	17
200736	663655	5669100	8	6	0.05	1	240	2	2.5	1	20	4	240	8
200737	663655	5669100	7	5	0.05	1	260	2	2.5	1	20	4	130	4
200738	667101	5671504	2	2	0.05	1	670	4	2.5	1	20	4	280	9
200739	667247	5671502	1	1	0.2	4	480	3	2.5	1	5	1	10	1
200740	667400	5671503	2	2	0.05	1	160	1	2.5	1	80	16	300	10
200741	667552	5671504	5	4	0.2	4	330	2	2.5	1	5	1	40	2
200742	667699	5671502	1	1	0.05	1	210	2	2.5	1	30	6	190	6
200743	666949	5671505	6	4	0.05	1	250	2	2.5	1	30	6	90	3
200744	666797	5671507	0.5	1	0.05	1	280	2	2.5	1	20	4	130	4
200745	666649	5671500	4	3	0.05	1	210	2	2.5	1	30	6	40	2
200746	666944	5671805	5	4	0.05	1	930	5	2.5	1	5	1	70	3
200747	667100	5671795	12	8	0.1	2	360	2	2.5	1	20	4	210	7
200749	667400	5671800	12	8	0.05	1	270	2	6	3	20	4	50	2
200750	667550	5671800	4	3	0.05	1	220	2	2.5	1	5	1	130	4
200753	663351	5667902	6	4	0.05	1	350	2	2.5	1	20	4	1070	33
200757	663948	5667899	7	5	0.05	1	410	3	2.5	1	5	1	50	2
200759	664250	5667900	6	4	0.05	1	300	2	5	2	10	2	150	5
200760	664401	5667901	9	6	0.05	1	500	3	2.5	1	5	1	50	2
200762	664701	5667904	6	4	0.05	1	220	2	7	3	30	6	90	3
200763	664701	5667904	7	5	0.05	1	230	2	6	3	20	4	80	3
200764	664850	5667900	8	6	0.05	1	460	3	5	2	5	1	40	2
200765	664999	5667900	6	4	0.05	1	310	2	2.5	1	20	4	310	10
200766	665152	5667902	22	15	0.05	1	410	3	5	2	10	2	10	1
200767	665295	5667902	10	7	0.05	1	200	2	11	5	50	10	80	3
200768	665449	5667902	10	7	0.05	1	340	2	5	2	10	2	120	4
200770	665750	5667903	9	6	0.05	1	400	3	7	3	70	14	130	4
200771	665911	5667902	5	4	0.05	1	280	2	2.5	1	120	24	160	5
200772	666050	5667899	4	3	0.1	2	270	2	2.5	1	5	1	20	1
200773	666199	5667904	10	7	0.05	1	800	5	2.5	1	10	2	140	5
200774	666350	5667901	3	2	0.05	1	500	3	2.5	1	5	1	10	1
200775	666499	5667899	6	4	0.05	1	400	3	2.5	1	5	1	60	2
200776	666652	5667900	7	5	0.05	1	320	2	2.5	1	10	2	370	12
200778	666950	5667902	5	4	0.05	1	400	3	2.5	1	5	1	30	1
200779	667099	5667898	7	5	0.05	1	450	3	2.5	1	5	1	60	2
200780	667251	5667901	6	4	0.05	1	390	3	6	3	20	4	500	16
200781	667400	5667899	8	6	0.05	1	480	3	5	2	5	1	100	4
200783	667700	5667901	7	5	0.05	1	430	3	2.5	1	20	4	210	7
200784	663201	5668800	9	6	0.2	4	420	3	2.5	1	20	4	70	3
200785	663352	5668801	11	8	0.05	1	340	2	6	3	30	6	140	5
200786	663499	5668798	10	7	0.05	1	340	2	6	3	60	12	110	4
200787	663652	5668801	14	10	0.05	1	430	3	8	4	5	1	80	3
200788	665750	5671799	10	7	0.05	1	240	2	5	2	130	26	100	4

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Sample Number	83Z10E	83Z10N	Ag_ppb	Ag_RR	Au_ppb	Au_RR	Cu_ppb	Cu_RR	Mo_ppb	Mo_RR	Pb_ppb	Pb_RR	Zn_ppb	Zn_RR
200789	665600	5671800	4	3	0.05	1	250	2	8	4	30	6	170	6
200790	665496	5671799	8	6	0.1	2	200	2	2.5	1	70	14	60	2
200792	665450	5671500	7	5	0.05	1	180	1	5	2	110	22	150	5
200793	665308	5671498	13	9	0.05	1	420	3	2.5	1	140	28	70	3
200794	665152	5671498	6	4	0.05	1	220	2	6	3	90	18	350	11
200801	663202	5668203	16	11	0.05	1	160	1	7	3	50	10	240	8
200804	663650	5668198	1	1	0.05	1	180	1	2.5	1	40	8	140	5
200805	663799	5668203	0.5	1	0.05	1	170	1	2.5	1	50	10	410	13
200806	663950	5668200	2	2	0.05	1	310	2	2.5	1	10	2	80	3
200807	664101	5668200	8	6	0.05	1	620	4	2.5	1	30	6	380	12
200808	664250	5668200	6	4	0.1	2	460	3	2.5	1	5	1	130	4
200809	664402	5668203	4	3	0.05	1	490	3	2.5	1	5	1	50	2
200810	664553	5668198	9	6	0.05	1	550	3	2.5	1	5	1	150	5
200811	664700	5668200	12	8	0.05	1	270	2	2.5	1	20	4	70	3
200812	664852	5668199	2	2	0.05	1	130	1	2.5	1	30	6	120	4
200813	667702	5668200	2	2	0.05	1	170	1	2.5	1	40	8	290	9
200814	667550	5668201	5	4	0.05	1	350	2	2.5	1	40	8	640	20
200815	667397	5668199	0.5	1	0.05	1	170	1	2.5	1	40	8	470	15
200816	667247	5668198	5	4	0.05	1	640	4	5	2	5	1	240	8
200817	667101	5668198	11	8	0.05	1	940	5	2.5	1	10	2	60	2
200818	666950	5668196	8	6	0.05	1	650	4	2.5	1	5	1	70	3
200819	666800	5668199	4	3	0.1	2	390	3	2.5	1	5	1	60	2
200820	666648	5668199	3	2	0.05	1	390	3	2.5	1	5	1	20	1
200821	666502	5668202	3	2	0.05	1	290	2	2.5	1	5	1	70	3
200822	666349	5668200	2	2	0.05	1	1000	6	2.5	1	5	1	30	1
200824	666049	5668197	11	8	0.2	4	510	3	7	3	10	2	130	4
200825	665899	5668201	7	5	0.05	1	560	3	2.5	1	5	1	120	4
200826	665747	5668201	7	5	0.1	2	460	3	2.5	1	5	1	90	3
200851	666949	5670296	4	3	0.05	1	490	3	2.5	1	5	1	110	4
200852	666801	5670302	10	7	0.05	1	350	2	2.5	1	5	1	110	4
200853	666649	5670299	5	4	0.05	1	180	1	9	4	50	10	170	6
200854	666501	5670299	3	2	0.05	1	460	3	2.5	1	20	4	200	7
200855	666349	5670298	12	8	0.05	1	850	5	2.5	1	30	6	40	2
200856	666198	5670299	9	6	0.05	1	290	2	6	3	30	6	170	6
200857	666197	5670001	22	15	0.05	1	420	3	8	4	90	18	170	6
200858	666361	5670007	14	10	0.1	2	450	3	9	4	10	2	160	5
200859	666343	5669699	3	2	0.05	1	490	3	12	5	100	20	180	6
200860	666348	5669394	3	2	0.05	1	210	2	2.5	1	30	6	170	6
200861	666203	5669404	2	2	0.05	1	250	2	2.5	1	150	30	340	11
200862	666050	5669401	10	7	0.05	1	430	3	2.5	1	10	2	40	2
200863	665902	5669398	11	8	0.05	1	1040	6	5	2	5	1	40	2
200864	665742	5669403	18	12	0.05	1	610	4	2.5	1	5	1	30	1
200865	666198	5669699	1	1	0.05	1	190	1	18	8	50	10	210	7
200866	666049	5669701	0.5	1	0.05	1	170	1	2.5	1	100	20	50	2
200867	665450	5668507	22	15	0.05	1	360	2	2.5	1	20	4	80	3
200868	665599	5668503	8	6	0.05	1	210	2	6	3	30	6	340	11
200869	665751	5668498	1	1	0.05	1	150	1	2.5	1	40	8	50	2
200870	665898	5668498	2	2	0.1	2	580	4	2.5	1	5	1	50	2
200871	666035	5668495	4	3	0.05	1	200	2	6	3	30	6	630	20
200872	666202	5668497	6	4	0.1	2	530	3	2.5	1	5	1	20	1
200873	666351	5668492	19	13	0.05	1	380	2	2.5	1	10	2	100	4
200874	666510	5668467	3	2	0.05	1	260	2	2.5	1	10	2	180	6
200875	666642	5668459	5	4	0.05	1	120	1	6	3	60	12	100	4
200876	666803	5668476	0.5	1	0.3	6	450	3	2.5	1	40	8	40	2
200877	666955	5668501	1	1	0.05	1	160	1	2.5	1	20	4	90	3
200878	667098	5668494	0.5	1	0.05	1	170	1	2.5	1	60	12	80	3
200879	667252	5668493	2	2	0.05	1	150	1	6	3	90	18	190	6
200880	667402	5668491	1	1	0.05	1	210	2	2.5	1	30	6	170	6
200881	667551	5668493	5	4	0.05	1	210	2	6	3	40	8	210	7
200883	667698	5669105	8	6	0.05	1	330	2	2.5	1	5	1	60	2

Bonaparte South Grid

Sample Number	83Z10E	83Z10N	Ag_ppb	Ag_RR	Au_ppb	Au_RR	Cu_ppb	Cu_RR	Mo_ppb	Mo_RR	Pb_ppb	Pb_RR	Zn_ppb	Zn_RR
200884	667698	5669105	7	5	0.05	1	330	2	2.5	1	5	1	50	2
200885	667699	5668803	26	18	0.05	1	340	2	7	3	20	4	120	4
200888	667250	5668815	15	10	0.05	1	620	4	6	3	10	2	50	2
200889	667104	5668802	20	14	0.05	1	380	2	5	2	5	1	170	6
200890	666953	5668801	6	4	0.05	1	250	2	9	4	40	8	360	12
200891	666801	5668804	10	7	0.05	1	270	2	14	6	70	14	930	29
200892	666651	5668800	4	3	0.05	1	1680	9	13	6	5	1	90	3
200897	665902	5668803	8	6	0.05	1	240	2	2.5	1	5	1	40	2
200898	665750	5668802	7	5	0.1	2	390	3	2.5	1	5	1	30	1
200899	665604	5668799	8	6	0.05	1	280	2	2.5	1	5	1	60	2
200900	665451	5668803	9	6	0.05	1	340	2	2.5	1	5	1	70	3



Certificate of Analysis

Work Order: TO103224

To: Mammoth Geological Ltd.
Attn: Tim Henneberry
2446 Bidston Road
Mill Bay
BC V0R 2P4

Date: Oct 16, 2008

P.O. No. : Mammoth Geological; Project: Bonaparte
Project No. : DEFAULT
No. Of Samples 76
Date Submittéd Sep 15, 2008
Report Comprises Pages 1 to 16
(Inclusive of Cover Sheet)

Distribution of unused material:

STORE: 76 Soils

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

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Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 1 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
200001	14	105	<10	<0.1	5240	<1	440	10	214	16
*Rep 200001	13	117	<10	0.3	5220	<1	450	12	248	21
200002	19	24	<10	0.8	9040	<1	980	4	95	36
200003	26	16	<10	0.5	5970	<1	1040	7	25	24
200004	24	25	<10	0.5	14500	<1	1020	7	197	172
200005	19	19	<10	0.3	7300	<1	960	4	299	99
200006	17	34	<10	0.8	4410	<1	900	6	480	118
200007	5	52	<10	0.6	4940	<1	490	2	542	41
200008	34	15	<10	0.5	5770	<1	1190	13	158	234
200009	19	25	<10	0.5	5920	<1	910	3	177	81
200010	11	21	<10	0.2	5370	<1	1290	14	190	217
200011	6	56	<10	0.4	9100	<1	1210	7	670	226
200012	11	175	<10	<0.1	2550	<1	380	11	121	14
200017	16	13	<10	0.8	4270	<1	1200	10	<5	145
*Rep 200017	14	13	<10	0.3	3860	<1	1090	9	<5	193
200018	37	16	<10	0.2	6470	<1	1120	8	359	208
200019	11	34	<10	<0.1	6350	<1	970	6	245	58
200020	9	24	<10	0.2	2450	<1	670	3	148	31
200021	7	154	<10	0.1	3060	<1	370	4	201	45
200022	7	58	<10	<0.1	4560	<1	890	8	332	24
200023	11	111	<10	<0.1	1450	<1	470	6	314	30
200024	12	61	<10	<0.1	2770	<1	590	12	418	55
200025	19	19	<10	0.1	2170	<1	770	3	186	33
200026	13	43	<10	<0.1	1730	<1	750	3	256	37
200048	9	101	<10	<0.1	6270	<1	690	16	96	13
200051	32	21	<10	0.6	9750	<1	860	6	105	118
200053	15	53	<10	0.3	13900	<1	970	10	118	48
*Rep 200053	15	52	<10	0.3	15100	<1	1030	10	116	61
200054	16	97	<10	0.1	5620	<1	430	6	183	13
200055	13	11	<10	0.2	5220	<1	850	12	9	25
200056	9	46	<10	0.1	5780	<1	660	8	265	38
200057	15	120	<10	0.1	7710	<1	410	7	402	17
200058	14	37	<10	0.3	4130	<1	550	7	168	45
200059	12	68	<10	0.1	6480	<1	760	6	213	61
200060	13	97	<10	0.1	3410	<1	550	10	219	26
200061	13	<1	<10	<0.1	2960	<1	320	5	150	29
200062	15	85	<10	0.1	5140	<1	530	13	510	22
200063	15	65	<10	0.4	5580	<1	720	12	239	54
200064	8	72	<10	0.1	7120	<1	640	4	186	22
200065	14	62	<10	<0.1	5740	<1	570	9	295	36
*Rep 200065	14	63	<10	<0.1	6280	<1	600	9	330	35
200066	12	66	<10	0.2	7250	<1	700	9	339	22
200067	9	48	<10	0.2	11200	<1	890	6	276	27

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Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 1 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
200068	23	34	<10	0.2	13000	<1	1020	7	202	63
200069	19	45	<10	0.2	9960	<1	870	9	224	42
200070	22	65	<10	0.3	4480	<1	840	6	161	40
200071	13	28	<10	0.1	3460	<1	920	24	73	58
200072	7	37	<10	0.4	3700	<1	610	2	71	26
200073	33	24	<10	0.1	2760	<1	780	6	150	21
200074	13	66	<10	0.2	5050	<1	620	3	415	69
200075	8	<1	<10	0.1	3110	<1	310	5	167	59
200076	5	119	<10	<0.1	4400	<1	760	6	89	46
200077	9	96	<10	<0.1	2750	<1	660	7	317	56
*Rep 200077	9	94	<10	<0.1	2920	<1	680	6	352	53
200101	16	9	<10	0.6	9860	<1	1100	4	<5	37
200102	22	6	<10	1.7	11000	<1	1010	<1	13	61
200103	2	33	<10	<0.1	6940	<1	1080	36	40	11
200104	20	31	<10	0.4	8320	<1	600	4	144	15
200105	18	10	<10	0.2	9070	<1	870	11	73	87
200106	20	83	<10	0.4	7200	<1	680	7	715	75
200107	11	59	<10	0.3	5120	<1	540	4	218	51
200108	17	17	<10	0.4	18800	<1	880	3	71	28
200109	50	36	<10	0.9	9410	<1	1090	7	96	88
200110	17	56	<10	0.7	7160	<1	780	2	359	84
200111	22	52	<10	1.1	5170	<1	780	3	429	63
200112	24	47	<10	0.2	10400	<1	870	9	453	66
*Rep 200112	23	48	<10	0.1	10700	<1	870	9	505	62
200113	32	44	<10	0.2	11800	<1	960	8	481	105
200114	18	70	<10	0.3	3900	<1	780	4	453	21
200115	7	35	<10	0.9	6530	<1	710	4	208	20
200116	8	144	<10	<0.1	4910	<1	570	15	349	21
200117	8	66	<10	<0.1	4310	<1	630	15	407	26
200118	45	14	<10	0.7	3470	<1	1000	3	<5	17
200119	21	12	<10	0.5	6210	<1	720	4	35	24
200120	3	161	<10	<0.1	7450	<1	490	14	175	24
200121	18	24	<10	0.2	2070	<1	850	12	103	105
200122	19	39	<10	<0.1	1680	<1	750	8	212	36
200123	3	138	<10	<0.1	1670	<1	410	23	63	36
200124	2	45	<10	<0.1	500	<1	980	16	274	97
*Rep 200124	1	45	<10	<0.1	490	<1	1000	17	290	102
200125	2	76	<10	<0.1	1010	<1	600	16	210	34
200126	7	103	<10	0.1	1680	<1	670	9	627	26
200127	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Std MMISRM16	23	65	20	34.0	100	<1	300	5	34	75
*Std MMISRM16	22	63	10	32.0	100	<1	290	5	31	69
*BLK BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

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Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	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
*BLK BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

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Element Method Det.Lim. Units	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 1 PPB	Er MMI-M5 0.5 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 1 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB	Li MMI-M5 5 PPB	Mg MMI-M5 1 PPM
200001	<100	680	65	40.1	15.1	55	79	103	8	95
*Rep 200001	<100	680	69	42.4	16.6	60	83	113	9	102
200002	<100	430	96	50.8	22.6	10	110	108	16	<1
200003	<100	830	70	35.0	19.8	10	93	58	35	264
200004	<100	1440	119	66.3	31.2	13	158	162	68	211
200005	<100	810	116	60.1	25.5	16	132	147	15	169
200006	<100	530	101	53.6	24.0	16	118	142	75	209
200007	<100	340	64	32.2	22.5	61	93	237	7	167
200008	<100	790	79	45.7	16.3	10	86	51	20	217
200009	<100	710	62	34.2	15.9	24	78	89	6	136
200010	<100	840	38	20.5	9.1	11	47	45	31	195
200011	<100	530	82	50.7	23.3	19	102	127	27	274
200012	<100	760	53	32.6	11.9	50	60	71	<5	31
200017	<100	960	14	12.2	0.7	6	7	<1	57	232
*Rep 200017	<100	820	10	9.4	<0.5	6	4	<1	54	224
200018	<100	1170	77	40.3	19.7	11	98	94	46	149
200019	<100	310	68	35.5	15.4	13	79	90	61	187
200020	<100	330	36	17.6	10.4	20	51	79	9	115
200021	<100	170	16	8.3	4.2	48	19	45	<5	64
200022	<100	210	143	80.7	33.0	24	169	136	9	126
200023	<100	240	54	29.4	13.5	60	62	108	<5	78
200024	<100	320	84	45.8	21.5	49	107	174	6	117
200025	<100	260	46	20.8	11.9	25	60	103	<5	180
200026	<100	230	38	17.8	9.7	36	45	79	<5	165
200048	<100	510	44	26.1	9.9	38	48	56	<5	78
200051	<100	1290	36	20.7	8.2	22	43	27	<5	241
200053	<100	1180	51	30.0	12.9	20	63	72	63	217
*Rep 200053	<100	1230	55	32.9	13.2	19	64	74	65	231
200054	<100	170	17	7.9	4.4	42	22	55	<5	80
200055	<100	680	12	6.4	3.1	8	16	10	12	182
200056	<100	300	46	23.4	11.4	39	58	105	8	102
200057	<100	610	116	63.0	31.3	47	151	273	<5	43
200058	<100	340	41	21.3	11.3	27	53	95	<5	139
200059	<100	510	99	58.3	25.5	32	124	158	9	177
200060	<100	250	38	18.5	10.4	47	44	89	<5	51
200061	<100	290	43	26.4	9.9	69	46	70	<5	33
200062	<100	550	81	43.9	23.0	34	113	188	31	98
200063	<100	410	73	43.1	16.5	34	83	103	10	133
200064	<100	250	32	15.5	9.2	34	41	81	<5	75
200065	<100	520	52	26.8	15.0	55	70	137	8	86
*Rep 200065	<100	550	56	29.3	16.6	58	75	151	9	88
200066	<100	320	76	40.7	19.8	40	96	142	8	114
200067	<100	310	51	24.3	13.8	31	67	121	6	138

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Element Method Det.Lim. Units	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 1 PPB	Er MMI-M5 0.5 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 1 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB	Li MMI-M5 5 PPB	Mg MMI-M5 1 PPM
200068	<100	1110	110	59.2	28.4	20	144	145	8	138
200069	<100	900	92	51.1	23.8	23	124	133	7	108
200070	<100	290	29	14.9	6.8	38	32	61	<5	164
200071	<100	310	49	26.8	13.0	11	65	44	17	<1
200072	<100	370	75	37.8	25.1	25	113	156	12	164
200073	<100	740	103	54.2	30.6	24	147	150	6	255
200074	<100	280	51	26.0	12.6	47	66	139	5	112
200075	<100	140	17	9.1	4.2	98	18	55	<5	64
200076	<100	180	10	5.3	3.3	46	12	34	<5	131
200077	<100	180	57	29.7	14.5	57	66	123	<5	172
*Rep 200077	<100	240	59	30.4	15.9	58	73	137	<5	182
200101	<100	1310	10	6.0	2.0	10	10	<1	15	178
200102	<100	950	14	8.5	2.7	9	14	<1	26	232
200103	<100	70	12	6.9	3.3	25	16	19	16	195
200104	<100	410	56	26.7	14.7	23	74	122	9	53
200105	<100	720	19	9.8	5.9	15	27	26	56	132
200106	<100	550	167	100	35.5	36	191	288	9	126
200107	<100	250	33	16.1	9.0	24	43	91	<5	104
200108	<100	640	47	26.7	13.2	17	63	73	28	184
200109	<100	790	133	92.5	19.1	13	118	30	32	157
200110	<100	350	61	30.3	12.4	35	59	113	16	135
200111	<100	500	178	101	36.4	31	187	172	14	182
200112	<100	590	148	82.7	37.0	17	180	185	55	179
*Rep 200112	<100	630	156	86.3	40.7	18	199	203	60	182
200113	<100	1000	185	101	46.7	18	234	242	74	214
200114	<100	350	61	30.9	17.8	46	84	127	<5	150
200115	<100	200	30	14.5	9.8	31	44	96	<5	121
200116	<100	300	47	25.3	12.0	66	56	91	<5	71
200117	<100	320	116	60.2	39.1	37	171	315	<5	129
200118	<100	790	44	36.1	4.7	12	30	2	14	<1
200119	<100	2780	58	33.6	19.5	14	82	59	9	141
200120	<100	110	23	13.1	5.8	47	26	53	<5	66
200121	<100	610	77	42.6	23.5	15	100	82	8	269
200122	<100	460	90	46.3	26.9	19	125	127	<5	223
200123	<100	110	12	7.1	3.0	84	13	18	<5	63
200124	<100	800	421	373	89.4	22	397	219	15	<1
*Rep 200124	<100	750	426	380	87.9	23	393	226	15	<1
200125	<100	260	114	70.6	35.2	31	135	140	<5	197
200126	<100	720	229	136	64.4	45	261	287	<5	215
200127	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Std MMISRM16	<100	720	4	1.5	1.7	3	8	8	<5	51
*Std MMISRM16	<100	660	4	1.7	1.7	3	8	8	<5	49
*BLK BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

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Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5									
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
*BLK BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

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Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Pt MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB
200001	21	1.2	203	283	140	<1	42	<1	109	<1
*Rep 200001	24	1.2	214	321	150	<1	46	<1	109	<1
200002	<5	<0.5	213	355	60	<1	41	<1	42	<1
200003	6	<0.5	165	664	20	<1	29	<1	45	<1
200004	12	<0.5	333	763	70	<1	67	<1	35	<1
200005	7	<0.5	286	386	50	<1	60	<1	73	<1
200006	12	<0.5	276	469	120	<1	60	<1	44	<1
200007	<5	<0.5	347	227	20	<1	78	<1	29	<1
200008	6	<0.5	129	836	40	<1	23	<1	54	<1
200009	8	0.6	171	243	70	<1	34	<1	30	<1
200010	9	0.8	99	544	40	<1	20	<1	38	<1
200011	5	<0.5	233	652	70	<1	48	<1	29	<1
200012	8	1.4	154	482	120	<1	31	<1	231	<1
200017	8	0.6	<1	910	40	<1	<1	<1	47	<1
*Rep 200017	7	0.6	<1	946	40	<1	<1	<1	43	<1
200018	<5	1.2	204	494	90	<1	40	<1	46	<1
200019	9	<0.5	177	380	70	<1	37	<1	57	<1
200020	7	0.7	144	140	40	<1	29	<1	49	<1
200021	10	2.3	67	153	90	<1	16	<1	88	<1
200022	<5	<0.5	327	387	50	<1	64	<1	74	<1
200023	<5	1.4	176	116	50	<1	40	<1	69	<1
200024	<5	1.6	316	322	50	<1	71	<1	42	<1
200025	<5	0.8	180	170	30	<1	39	<1	23	<1
200026	<5	1.1	125	95	20	<1	28	<1	22	<1
200048	9	1.0	108	214	120	<1	23	<1	125	<1
200051	<5	<0.5	76	419	30	<1	14	<1	109	<1
200053	6	0.8	145	713	60	<1	30	<1	114	<1
*Rep 200053	6	0.8	142	766	60	<1	30	<1	114	<1
200054	<5	1.9	78	102	90	<1	19	<1	96	<1
200055	12	<0.5	28	338	20	<1	5	<1	84	<1
200056	12	1.1	176	285	70	<1	39	<1	35	<1
200057	<5	2.2	481	222	120	1	108	<1	115	<1
200058	5	0.7	152	335	70	<1	34	<1	20	<1
200059	8	0.8	297	307	110	<1	63	<1	44	<1
200060	7	1.4	132	181	90	<1	31	<1	99	<1
200061	11	3.3	131	121	130	1	29	<1	109	<1
200062	14	1.3	341	386	110	<1	74	<1	97	<1
200063	9	0.6	190	358	110	<1	40	<1	43	<1
200064	<5	1.3	128	95	90	<1	28	<1	65	<1
200065	<5	1.6	214	315	70	<1	49	<1	55	<1
*Rep 200065	<5	1.8	243	334	80	<1	55	<1	59	<1
200066	6	1.1	266	265	70	<1	58	<1	56	<1
200067	8	1.0	192	148	70	<1	43	<1	49	<1

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Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Pt MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB
200068	<5	1.0	298	529	110	<1	58	<1	62	<1
200069	<5	1.2	274	579	110	<1	53	<1	80	<1
200070	<5	0.6	80	163	100	<1	19	<1	15	<1
200071	10	0.5	118	896	30	<1	22	<1	48	<1
200072	<5	0.8	304	164	30	<1	63	<1	47	<1
200073	7	1.0	335	329	50	<1	65	<1	38	<1
200074	<5	1.2	204	181	70	<1	47	<1	53	<1
200075	8	4.3	59	123	120	2	14	<1	123	<1
200076	<5	0.7	34	85	50	<1	8	<1	43	<1
200077	<5	1.4	191	120	90	<1	43	<1	66	<1
*Rep 200077	<5	1.5	216	112	80	<1	49	<1	66	<1
200101	6	<0.5	4	654	20	<1	<1	<1	11	<1
200102	7	<0.5	9	664	30	<1	1	<1	20	<1
200103	19	0.9	37	316	50	<1	8	<1	85	<1
200104	<5	0.8	209	198	40	<1	45	<1	69	<1
200105	9	<0.5	61	438	20	<1	12	<1	44	<1
200106	7	0.7	500	406	180	<1	112	<1	33	<1
200107	11	0.6	141	122	70	<1	33	<1	78	<1
200108	<5	<0.5	141	245	30	<1	27	<1	34	<1
200109	6	<0.5	118	757	130	<1	18	<1	35	<1
200110	5	0.8	154	239	160	<1	36	<1	28	<1
200111	<5	0.5	366	461	120	<1	73	<1	35	<1
200112	12	0.5	401	291	90	<1	81	<1	42	<1
*Rep 200112	11	0.6	431	289	90	<1	87	<1	43	<1
200113	21	0.6	504	364	100	<1	100	<1	42	<1
200114	<5	0.9	234	157	40	<1	48	<1	43	<1
200115	18	1.1	148	127	60	<1	33	<1	55	<1
200116	10	1.2	160	195	120	<1	35	<1	76	<1
200117	11	0.7	529	297	70	<1	115	<1	49	<1
200118	<5	<0.5	6	300	20	<1	<1	<1	31	<1
200119	<5	<0.5	159	305	<10	<1	27	<1	24	<1
200120	<5	1.1	73	134	120	<1	17	<1	99	<1
200121	6	<0.5	197	576	30	<1	37	<1	47	<1
200122	8	0.6	288	288	40	<1	55	<1	48	<1
200123	8	1.7	34	133	140	<1	7	<1	56	<1
200124	<5	<0.5	594	618	30	<1	111	<1	41	<1
*Rep 200124	<5	<0.5	611	494	30	<1	113	<1	43	<1
200125	<5	0.7	319	143	100	<1	65	<1	45	<1
200126	<5	<0.5	600	392	20	<1	126	<1	53	<1
200127	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Std MMISRM16	55	<0.5	25	333	170	28	5	<1	363	<1
*Std MMISRM16	52	<0.5	24	309	160	27	5	<1	332	<1
*BLK BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

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Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5									
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB									
*BLK BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

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Element Method Det.Lim. Units	Sc MMI-M5 5 PPB	Sm MMI-M5 1 PPB	Sn MMI-M5 1 PPB	Sr MMI-M5 10 PPB	Ta MMI-M5 1 PPB	Tb MMI-M5 1 PPB	Te MMI-M5 10 PPB	Th MMI-M5 0.5 PPB	Ti MMI-M5 3 PPB	Tl MMI-M5 0.5 PPB
200001	85	56	<1	5030	<1	12	<10	7.7	77	<0.5
*Rep 200001	103	61	<1	4940	<1	12	<10	8.7	103	<0.5
200002	30	71	<1	11800	<1	18	<10	11.5	3	<0.5
200003	18	62	<1	9400	<1	14	<10	7.7	4	<0.5
200004	21	106	<1	6920	<1	22	<10	14.9	8	<0.5
200005	49	91	<1	6380	<1	21	<10	19.0	5	<0.5
200006	20	84	<1	7450	<1	18	<10	22.0	6	<0.5
200007	64	78	<1	4340	<1	13	<10	16.9	56	<0.5
200008	19	48	<1	5740	<1	13	<10	6.8	5	<0.5
200009	32	49	<1	4320	<1	11	<10	12.1	16	<0.5
200010	12	31	<1	6850	<1	7	<10	13.1	9	<0.5
200011	34	71	<1	6910	<1	15	<10	21.2	10	<0.5
200012	57	43	<1	2400	<1	9	<10	6.3	145	0.5
200017	9	<1	<1	15300	<1	2	<10	0.9	4	<0.5
*Rep 200017	8	<1	<1	14400	<1	1	<10	0.8	4	<0.5
200018	15	64	<1	5780	<1	14	<10	14.8	11	<0.5
200019	18	56	<1	4920	<1	12	<10	15.8	8	<0.5
200020	15	39	<1	2450	<1	7	<10	15.7	19	<0.5
200021	44	16	<1	2050	<1	3	<10	12.2	360	<0.5
200022	42	110	<1	5220	<1	26	<10	4.9	14	<0.5
200023	59	47	<1	2860	<1	10	<10	9.3	96	<0.5
200024	54	80	<1	3440	<1	16	<10	12.4	65	<0.5
200025	21	47	<1	4180	<1	9	<10	8.0	27	<0.5
200026	31	34	<1	4880	<1	7	<10	7.0	27	<0.5
200048	35	33	<1	5180	<1	8	<10	3.6	40	<0.5
200051	22	26	<1	7060	<1	6	<10	5.8	6	0.7
200053	20	45	<1	10700	<1	10	<10	9.7	15	<0.5
*Rep 200053	21	46	<1	11400	<1	10	<10	9.3	15	0.5
200054	40	19	<1	2510	<1	3	<10	10.8	248	<0.5
200055	10	10	<1	6170	<1	2	<10	2.0	18	<0.5
200056	38	45	<1	3910	<1	9	<10	8.5	44	<0.5
200057	88	123	<1	2530	<1	22	<10	16.2	231	<0.5
200058	24	40	<1	3710	<1	8	<10	7.9	59	<0.5
200059	38	85	<1	7200	<1	18	<10	8.5	21	<0.5
200060	42	36	<1	3100	<1	7	<10	8.2	74	<0.5
200061	67	37	<1	2210	<1	7	<10	14.6	651	<0.5
200062	44	88	<1	3430	<1	16	<10	12.6	109	<0.5
200063	40	56	<1	4400	<1	13	<10	6.6	16	<0.5
200064	24	33	<1	3440	<1	6	<10	8.5	52	<0.5
200065	42	55	<1	3510	<1	10	<10	12.5	102	<0.5
*Rep 200065	43	61	<1	3920	<1	11	<10	14.6	129	<0.5
200066	36	73	<1	4100	<1	14	<10	12.2	42	<0.5
200067	30	53	<1	4910	<1	10	<10	11.1	24	<0.5

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Element Method Det.Lim. Units	Sc MMI-M5 5 PPB	Sm MMI-M5 1 PPB	Sn MMI-M5 1 PPB	Sr MMI-M5 10 PPB	Ta MMI-M5 1 PPB	Tb MMI-M5 1 PPB	Te MMI-M5 10 PPB	Th MMI-M5 0.5 PPB	Ti MMI-M5 3 PPB	Tl MMI-M5 0.5 PPB
200068	19	94	<1	10800	<1	21	<10	10.4	15	<0.5
200069	18	82	<1	8950	<1	17	<10	8.7	16	<0.5
200070	32	22	<1	4560	<1	5	<10	6.6	19	<0.5
200071	9	42	<1	3190	<1	9	<10	4.5	11	<0.5
200072	18	86	<1	2390	<1	15	<10	8.7	30	<0.5
200073	20	103	<1	2250	<1	21	<10	9.5	26	<0.5
200074	58	51	<1	5100	<1	10	<10	13.0	41	<0.5
200075	83	14	<1	2320	<1	3	<10	21.4	1030	<0.5
200076	24	9	<1	6180	<1	2	<10	4.1	33	<0.5
200077	67	50	<1	3490	<1	11	<10	8.0	71	<0.5
*Rep 200077	66	55	<1	3680	<1	11	<10	8.3	68	<0.5
200101	8	4	<1	7990	<1	2	<10	2.7	3	<0.5
200102	7	6	<1	9470	<1	2	<10	2.6	<3	<0.5
200103	10	11	<1	8820	<1	2	<10	2.9	22	<0.5
200104	24	57	<1	4390	<1	11	<10	6.6	39	<0.5
200105	10	20	<1	9040	<1	4	<10	6.9	6	<0.5
200106	63	134	<1	5260	<1	30	<10	11.4	16	<0.5
200107	25	35	<1	4130	<1	6	<10	8.4	25	<0.5
200108	18	43	<1	6050	<1	9	<10	17.8	6	<0.5
200109	27	54	<1	5140	<1	20	<10	3.5	6	<0.5
200110	46	42	<1	5970	<1	11	<10	8.0	22	<0.5
200111	54	120	<1	6320	<1	31	<10	4.9	25	<0.5
200112	20	127	<1	6410	<1	27	<10	14.6	8	<0.5
*Rep 200112	21	138	<1	6320	<1	29	<10	15.8	7	<0.5
200113	24	159	<1	7010	<1	33	<10	18.2	10	<0.5
200114	36	62	<1	4920	<1	12	<10	6.3	26	<0.5
200115	16	37	<1	4990	<1	6	<10	10.5	62	<0.5
200116	72	42	<1	3200	<1	9	<10	10.2	113	<0.5
200117	29	136	<1	2800	<1	24	<10	11.1	49	<0.5
200118	22	7	<1	4690	<1	6	<10	3.7	<3	<0.5
200119	11	54	<1	3870	<1	11	<10	4.4	6	<0.5
200120	52	19	<1	3360	<1	4	<10	8.8	99	<0.5
200121	20	69	<1	1520	<1	15	<10	8.5	8	<0.5
200122	16	90	<1	1810	<1	17	<10	7.7	12	<0.5
200123	36	10	<1	1490	<1	2	<10	7.6	245	<0.5
200124	42	215	<1	900	<1	65	<10	3.6	8	<0.5
*Rep 200124	43	215	<1	880	<1	64	<10	3.8	8	<0.5
200125	45	95	<1	1120	<1	21	<10	4.5	51	<0.5
200126	110	184	<1	3380	<1	41	<10	6.2	21	<0.5
200127	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Std MMISRM16	17	7	<1	580	<1	<1	<10	28.1	<3	<0.5
*Std MMISRM16	16	7	<1	530	<1	<1	<10	26.5	<3	<0.5
*BLK BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

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Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5									
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB									
*BLK BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

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Element Method Det.Lim. Units	U MMI-M5 1 PPB	W MMI-M5 1 PPB	Y MMI-M5 5 PPB	Yb MMI-M5 1 PPB	Zn MMI-M5 20 PPB	Zr MMI-M5 5 PPB
200001	353	<1	348	34	50	110
*Rep 200001	359	<1	374	35	60	115
200002	39	<1	398	38	90	61
200003	181	<1	304	27	40	42
200004	66	<1	584	52	40	61
200005	117	<1	488	44	40	83
200006	67	<1	405	42	50	60
200007	18	<1	290	24	100	98
200008	108	<1	359	35	70	34
200009	58	<1	284	26	60	62
200010	48	<1	165	16	30	26
200011	175	<1	436	47	160	87
200012	32	<1	294	25	60	121
200017	30	<1	47	12	30	14
*Rep 200017	30	<1	29	10	20	13
200018	26	<1	350	29	120	36
200019	47	<1	273	27	150	71
200020	12	<1	174	13	90	64
200021	8	<1	70	7	120	104
200022	18	<1	666	58	660	92
200023	11	<1	253	22	420	116
200024	16	<1	368	36	1090	152
200025	17	<1	200	15	120	68
200026	10	<1	149	13	200	77
200048	24	<1	219	21	1030	69
200051	216	<1	187	17	110	52
200053	161	<1	252	26	70	91
*Rep 200053	161	<1	262	28	70	81
200054	11	<1	72	6	540	133
200055	67	<1	66	5	470	27
200056	18	<1	197	18	840	87
200057	33	<1	545	46	400	238
200058	17	<1	176	16	590	74
200059	113	<1	483	47	200	72
200060	40	<1	154	14	410	100
200061	26	<1	214	22	90	225
200062	99	<1	429	34	200	131
200063	26	<1	339	36	1010	64
200064	24	<1	136	11	280	71
200065	21	<1	236	21	320	106
*Rep 200065	23	<1	251	23	300	120
200066	12	<1	335	32	720	119
200067	51	<1	215	17	260	93

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Element Method Det.Lim. Units	U MMI-M5 1 PPB	W MMI-M5 1 PPB	Y MMI-M5 5 PPB	Yb MMI-M5 1 PPB	Zn MMI-M5 20 PPB	Zr MMI-M5 5 PPB
200068	88	<1	521	45	240	59
200069	72	<1	450	39	330	67
200070	19	<1	112	11	280	52
200071	76	<1	230	20	60	22
200072	26	<1	360	29	40	52
200073	64	<1	529	40	300	56
200074	16	<1	226	19	230	133
200075	10	<1	85	7	290	265
200076	4	<1	51	4	200	62
200077	14	<1	259	23	490	94
*Rep 200077	15	<1	274	23	650	99
200101	56	<1	49	5	80	15
200102	36	<1	69	8	<20	13
200103	72	<1	67	6	3300	13
200104	59	<1	238	19	170	93
200105	80	<1	99	8	70	23
200106	48	1	727	77	540	116
200107	21	<1	138	12	150	78
200108	119	<1	226	22	60	61
200109	76	<1	601	75	260	47
200110	45	<1	197	23	220	98
200111	40	1	699	76	240	82
200112	97	<1	670	62	350	92
*Rep 200112	102	<1	709	65	350	98
200113	110	1	844	79	250	105
200114	20	<1	295	22	100	77
200115	13	<1	140	11	240	57
200116	83	<1	202	20	1080	96
200117	38	<1	580	44	630	70
200118	196	<1	188	36	40	22
200119	56	<1	382	29	20	24
200120	11	<1	116	10	2140	104
200121	104	<1	347	33	100	44
200122	95	<1	423	34	290	75
200123	5	<1	58	6	2210	59
200124	144	3	2620	352	620	65
*Rep 200124	138	4	2560	366	650	66
200125	18	<1	584	58	2370	54
200126	32	1	1170	108	420	77
200127	<1	<1	<5	<1	<20	<5
*Std MMISRM16	61	<1	14	1	270	18
*Std MMISRM16	59	<1	15	1	250	17
*BLK BLANK	<1	<1	<5	<1	<20	<5

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Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
*BLK BLANK	<1	<1	<5	<1	<20	<5

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Certificate of Analysis

Work Order: TO103225

To: Mammoth Geological Ltd.
Attn: Tim Henneberry
2446 Bidston Road
Mill Bay
BC V0R 2P4

Date: Oct 16, 2008

P.O. No. : Mammoth Geological; Project: Bonaparte
Project No. : DEFAULT
No. Of Samples 70
Date Submittéd Sep 15, 2008
Report Comprises Pages 1 to 11
(Inclusive of Cover Sheet)

Distribution of unused material:

STORE: 70 Soils

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

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Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 1 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
200157	13	32	<10	0.1	7660	<1	650	4	287	31
*Rep 200157	12	29	<10	0.2	7580	<1	630	4	282	25
200158	13	71	<10	0.2	5710	<1	550	6	907	9
200159	11	81	<10	<0.1	12300	<1	430	5	128	<5
200160	39	10	<10	0.5	3780	<1	890	19	<5	116
200161	3	118	<10	<0.1	4080	<1	580	8	136	9
200162	13	57	<10	<0.1	3310	<1	550	5	133	13
200163	11	90	<10	0.1	4680	<1	570	9	248	56
200164	8	102	<10	<0.1	3230	<1	700	7	230	36
200165	21	43	<10	0.7	7960	<1	820	3	271	93
200166	2	43	<10	<0.1	2080	<1	740	42	160	51
200167	31	22	<10	<0.1	1340	<1	830	15	201	89
200168	6	63	<10	<0.1	2130	<1	630	11	49	21
200169	3	76	<10	<0.1	1920	<1	610	7	67	16
*Rep 200169	3	71	<10	<0.1	1970	<1	660	10	69	19
200170	4	119	<10	<0.1	4570	<1	550	10	328	20
200171	<1	>300	<10	<0.1	3310	<1	400	8	637	76
200172	<1	>300	<10	<0.1	3820	<1	480	9	768	64
200173	3	110	<10	<0.1	2540	<1	390	11	158	47
200174	12	69	<10	0.1	2390	<1	780	14	279	29
200176	10	136	<10	<0.1	4310	<1	450	6	91	53
200177	2	154	<10	<0.1	3000	<1	370	12	137	29
200201	22	57	<10	<0.1	12100	<1	510	7	345	21
200202	8	96	<10	<0.1	6340	<1	420	7	478	49
200203	16	45	<10	0.1	9880	<1	590	4	197	17
200204	22	132	<10	<0.1	3700	<1	410	10	201	22
200205	15	32	<10	0.7	5760	<1	650	2	95	26
*Rep 200205	16	35	<10	0.5	5840	<1	670	2	99	34
200206	14	68	<10	0.2	5610	<1	460	3	145	24
200207	12	130	<10	<0.1	1730	<1	400	5	97	21
200208	9	40	<10	0.6	5140	<1	480	2	65	11
200209	16	51	<10	0.2	8710	<1	760	5	257	78
200210	8	46	<10	<0.1	2230	<1	610	20	13	21
200211	9	58	<10	<0.1	3960	<1	620	7	80	12
200212	4	164	<10	<0.1	3390	<1	570	8	196	35
200214	8	37	<10	<0.1	2820	<1	710	27	225	21
200215	4	120	<10	<0.1	3110	<1	430	7	104	17
200216	13	74	<10	<0.1	4930	<1	630	5	208	21
200217	21	105	<10	<0.1	800	<1	450	5	75	24
200218	10	129	<10	<0.1	3710	<1	460	5	166	37
*Rep 200218	9	118	<10	<0.1	3440	<1	460	5	162	29
200219	6	114	<10	<0.1	3710	<1	540	9	609	31
200222	14	95	<10	0.3	3020	<1	700	8	88	37

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200251	21	50	<10	0.4	8100	<1	500	2	135	19
200252	14	56	<10	0.3	6670	<1	460	5	295	19
200253	15	16	<10	0.3	10700	<1	1000	13	87	110
200254	16	93	<10	0.3	5650	<1	430	4	90	21
200255	15	10	<10	0.5	14900	<1	770	4	35	37
200256	11	117	<10	0.1	9180	<1	360	3	265	34
200257	11	99	<10	<0.1	5980	<1	620	12	838	45
200258	41	36	<10	0.5	14600	<1	1030	4	109	51
200259	19	169	10	<0.1	5680	<1	290	9	174	23
200260	20	101	<10	<0.1	7850	<1	490	4	273	29
*Rep 200260	17	90	<10	0.3	7770	<1	470	4	238	27
200261	11	60	<10	0.2	4790	<1	500	3	247	31
200262	11	96	<10	<0.1	1340	<1	570	4	223	48
200266	4	153	<10	<0.1	3220	<1	400	7	119	43
200267	9	101	<10	0.1	5050	<1	540	5	140	34
200268	17	100	<10	0.2	3810	<1	480	5	106	31
200269	3	97	<10	0.2	5350	<1	540	9	635	33
200270	6	>300	<10	<0.1	3730	<1	290	6	105	74
200271	7	>300	<10	<0.1	3800	<1	300	6	112	78
200272	<1	>300	<10	<0.1	5030	<1	330	2	369	83
200273	10	40	<10	0.4	2030	<1	740	5	114	31
200274	8	85	<10	<0.1	3260	<1	710	6	147	45
200275	<1	144	<10	<0.1	7640	<1	450	3	722	90
*Rep 200275	<1	136	<10	<0.1	8170	<1	460	2	758	92
200276	2	98	<10	<0.1	3170	<1	400	5	317	11
200277	<1	168	<10	<0.1	4160	<1	270	4	648	19
200278	2	53	<10	0.2	3990	<1	590	2	680	134
200151	22	21	<10	0.8	12300	<1	1240	10	360	144
200152	10	23	<10	0.2	13200	<1	630	3	239	25
200153	27	23	<10	0.3	9060	<1	1090	15	101	209
200154	19	79	<10	<0.1	3820	<1	640	9	40	22
200155	16	89	<10	<0.1	8020	<1	520	8	222	24
200156	21	26	<10	0.4	11200	<1	850	5	126	161
*Std MMISRM16	16	54	20	21.7	110	<1	250	4	40	59
*Std MMISRM16	21	62	20	30.6	110	<1	290	5	39	73
*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

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Element Method Det.Lim. Units	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 1 PPB	Er MMI-M5 0.5 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 1 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB	Li MMI-M5 5 PPB	Mg MMI-M5 1 PPM
200157	<100	310	38	17.8	10.6	25	50	103	6	140
*Rep 200157	<100	330	36	16.7	10.6	25	51	108	6	137
200158	<100	750	171	88.3	51.6	43	223	371	<5	120
200159	<100	270	24	11.7	6.0	37	29	57	<5	36
200160	<100	2720	14	14.4	0.8	8	7	<1	64	166
200161	<100	160	21	11.9	4.2	34	21	29	<5	37
200162	<100	190	21	10.4	5.5	57	27	47	<5	65
200163	<100	120	23	11.1	6.1	45	26	60	<5	80
200164	<100	320	39	21.2	10.7	45	46	73	<5	88
200165	<100	620	162	89.3	30.4	29	161	128	15	145
200166	<100	350	161	93.4	44.7	17	200	192	9	166
200167	<100	1170	171	88.4	49.3	16	210	195	10	185
200168	<100	130	10	5.0	2.8	39	12	18	<5	113
200169	<100	70	10	5.2	2.7	32	12	21	<5	96
*Rep 200169	<100	70	11	5.6	2.9	36	13	23	<5	105
200170	<100	220	64	35.4	17.8	47	72	97	<5	123
200171	<100	180	103	51.3	27.0	49	104	215	<5	104
200172	<100	170	112	54.1	32.3	39	121	272	<5	117
200173	<100	140	23	11.2	7.8	69	29	69	<5	82
200174	<100	1090	266	145	81.2	49	322	444	9	239
200176	<100	280	17	9.0	4.7	53	18	40	<5	98
200177	<100	440	50	32.6	8.7	78	46	53	<5	36
200201	<100	800	55	27.5	17.4	48	75	147	<5	39
200202	<100	170	25	12.4	6.9	52	32	90	13	50
200203	<100	280	20	9.2	6.2	53	28	78	5	42
200204	<100	780	46	26.4	12.2	62	55	81	<5	43
200205	<100	240	10	4.4	3.6	41	14	37	<5	79
*Rep 200205	<100	210	11	5.1	3.8	43	14	38	<5	79
200206	<100	170	13	6.4	4.1	45	17	47	<5	52
200207	<100	180	20	10.9	5.2	42	24	37	<5	33
200208	<100	110	8	3.7	2.7	23	11	26	<5	63
200209	<100	800	66	33.2	17.9	24	87	136	45	200
200210	<100	170	4	2.0	1.1	16	5	5	<5	113
200211	<100	160	14	6.5	4.9	37	19	41	<5	60
200212	<100	380	87	52.4	15.5	87	74	82	8	85
200214	<100	400	160	75.1	46.9	20	216	257	<5	166
200215	<100	110	10	5.0	3.1	48	12	28	<5	62
200216	<100	170	27	13.4	7.3	49	31	61	<5	105
200217	<100	150	12	5.7	2.8	42	14	21	<5	58
200218	<100	220	41	20.9	12.7	72	51	104	<5	90
*Rep 200218	<100	220	42	21.5	13.0	66	53	103	<5	91
200219	<100	250	134	70.4	42.8	50	159	226	<5	113
200222	<100	410	68	40.9	16.5	40	74	91	<5	188

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Element Method Det.Lim. Units	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 1 PPB	Er MMI-M5 0.5 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 1 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB	Li MMI-M5 5 PPB	Mg MMI-M5 1 PPM
200251	<100	430	47	23.5	16.2	37	69	121	<5	78
200252	<100	480	55	27.0	17.2	37	73	153	8	75
200253	<100	710	50	25.9	13.4	11	59	47	29	219
200254	<100	170	8	4.1	2.8	56	10	26	<5	44
200255	<100	4220	40	20.1	12.8	8	56	41	57	197
200256	<100	260	43	22.0	14.2	55	57	137	<5	80
200257	<100	690	275	154	79.4	51	350	564	6	104
200258	<100	940	128	76.0	29.6	21	145	121	8	203
200259	<100	280	45	27.3	8.5	56	44	72	<5	42
200260	<100	200	33	16.6	9.2	69	41	105	<5	48
*Rep 200260	<100	190	29	14.5	8.2	64	36	94	<5	46
200261	<100	200	26	12.1	7.7	54	31	84	<5	71
200262	<100	130	24	11.7	7.6	61	28	76	<5	91
200266	<100	260	29	17.4	5.7	94	26	39	<5	81
200267	<100	270	39	20.1	13.1	49	52	86	<5	121
200268	<100	270	15	7.8	4.8	63	20	46	<5	64
200269	<100	190	82	41.6	28.0	53	107	180	<5	110
200270	<100	210	14	7.0	4.2	79	15	45	<5	67
200271	<100	240	14	7.3	4.4	79	15	48	<5	69
200272	<100	240	55	29.1	14.1	35	59	181	<5	87
200273	<100	240	45	23.5	16.2	25	64	94	<5	177
200274	<100	380	114	66.1	27.2	36	119	99	<5	171
200275	<100	580	199	114	48.6	66	200	327	<5	130
*Rep 200275	<100	400	195	107	50.1	61	204	350	<5	135
200276	<100	360	88	47.2	27.4	36	103	153	<5	105
200277	<100	260	129	66.0	28.6	35	125	262	<5	51
200278	<100	910	135	70.2	44.3	58	173	324	<5	221
200151	<100	1050	136	73.3	33.0	12	169	170	59	160
200152	<100	310	49	22.4	18.2	34	79	171	12	99
200153	<100	450	33	19.8	7.9	31	37	18	25	123
200154	<100	570	10	5.3	2.7	19	13	15	<5	78
200155	<100	250	21	10.1	5.7	54	25	63	<5	72
200156	<100	1060	83	47.5	19.9	19	98	102	17	259
*Std MMISRM16	<100	570	4	1.6	2.1	3	9	7	<5	37
*Std MMISRM16	<100	810	4	1.5	2.0	4	3	6	<5	47
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

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Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Pt MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB
200157	7	0.7	170	116	60	<1	38	<1	76	<1
*Rep 200157	7	0.6	176	121	50	<1	39	<1	75	<1
200158	<5	0.9	662	448	70	<1	136	<1	90	<1
200159	<5	1.3	93	105	70	<1	21	<1	121	<1
200160	16	0.5	2	656	30	<1	<1	<1	37	<1
200161	13	0.7	52	194	100	<1	12	<1	267	<1
200162	6	2.2	88	113	60	<1	19	<1	93	<1
200163	8	1.2	85	116	90	<1	20	<1	56	<1
200164	<5	0.8	130	209	70	<1	28	<1	46	<1
200165	<5	1.1	292	335	120	<1	56	<1	46	<1
200166	10	0.6	442	787	70	<1	88	<1	72	<1
200167	16	0.7	456	723	30	<1	89	<1	38	<1
200168	13	1.5	35	165	80	<1	7	<1	112	<1
200169	11	1.9	36	113	60	<1	8	<1	140	<1
*Rep 200169	14	1.9	38	137	80	<1	9	<1	146	<1
200170	<5	0.7	181	154	50	<1	37	<1	111	<1
200171	<5	<0.5	331	72	100	<1	75	<1	155	<1
200172	<5	<0.5	391	68	90	<1	89	<1	134	<1
200173	<5	1.7	97	79	70	<1	23	<1	83	<1
200174	<5	<0.5	818	529	40	<1	167	<1	22	<1
200176	<5	1.0	54	84	100	<1	12	<1	148	<1
200177	11	2.0	112	239	130	<1	23	<1	214	<1
200201	7	1.5	257	270	80	<1	58	<1	81	<1
200202	17	2.9	124	228	120	<1	31	<1	123	<1
200203	<5	2.6	108	122	110	<1	26	<1	63	<1
200204	6	2.9	165	267	130	<1	34	<1	88	<1
200205	<5	1.2	46	130	70	<1	11	<1	37	<1
*Rep 200205	<5	1.3	48	129	70	<1	11	<1	38	<1
200206	6	2.2	66	70	80	<1	16	<1	69	<1
200207	<5	2.8	75	62	90	<1	16	<1	112	<1
200208	<5	0.7	40	35	20	<1	9	<1	67	<1
200209	6	<0.5	247	291	80	<1	52	<1	86	<1
200210	9	0.9	11	148	50	<1	2	<1	115	<1
200211	7	1.5	63	85	50	<1	14	<1	65	<1
200212	6	0.9	166	526	130	<1	34	<1	219	<1
200214	7	0.5	538	336	40	<1	110	<1	47	<1
200215	11	2.0	39	92	80	<1	9	<1	60	<1
200216	6	2.3	97	90	70	<1	22	<1	72	<1
200217	<5	2.3	40	70	50	<1	9	<1	97	<1
200218	13	3.0	156	88	80	<1	36	<1	73	<1
*Rep 200218	13	2.5	165	91	80	<1	37	<1	69	<1
200219	<5	1.1	453	174	70	<1	98	<1	142	<1
200222	<5	0.8	173	151	80	<1	36	<1	102	<1

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Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Pt MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB
200251	7	1.4	216	137	80	<1	46	<1	49	<1
200252	6	0.9	251	104	70	<1	56	<1	62	<1
200253	11	<0.5	112	464	60	<1	21	<1	37	<1
200254	<5	2.4	35	61	100	<1	9	<1	76	<1
200255	7	<0.5	106	303	20	<1	19	<1	40	<1
200256	8	2.5	205	108	140	<1	47	<1	84	<1
200257	7	1.1	932	641	150	<1	201	<1	74	<1
200258	<5	<0.5	274	381	80	<1	51	<1	42	<1
200259	16	2.3	119	117	200	1	27	<1	119	<1
200260	8	4.0	149	133	130	1	36	<1	71	<1
*Rep 200260	8	3.8	132	118	120	1	32	<1	67	<1
200261	<5	2.3	109	104	70	<1	27	<1	40	<1
200262	<5	2.2	98	80	40	<1	24	<1	56	<1
200266	<5	1.9	65	110	150	1	14	<1	181	<1
200267	<5	1.2	150	99	60	<1	31	<1	131	<1
200268	<5	1.9	66	84	60	<1	15	<1	76	<1
200269	<5	0.9	339	161	50	<1	74	<1	90	<1
200270	<5	2.3	47	89	140	<1	12	<1	118	<1
200271	<5	2.2	51	93	130	<1	13	<1	112	<1
200272	<5	0.8	203	84	80	<1	48	<1	92	<1
200273	<5	<0.5	184	118	10	<1	37	<1	30	<1
200274	<5	<0.5	233	74	50	<1	45	<1	77	<1
200275	<5	<0.5	518	173	50	<1	113	<1	102	<1
*Rep 200275	<5	<0.5	541	171	40	<1	118	<1	101	<1
200276	<5	0.8	281	109	40	<1	59	<1	104	<1
200277	<5	0.7	378	62	80	1	87	<1	121	<1
200278	<5	<0.5	527	282	<10	<1	113	<1	38	<1
200151	9	0.7	379	883	90	<1	76	<1	34	<1
200152	<5	<0.5	281	132	40	<1	62	<1	74	<1
200153	15	0.9	72	1040	50	<1	13	<1	25	<1
200154	12	1.4	34	176	50	<1	7	<1	142	<1
200155	6	3.5	86	132	130	1	20	<1	32	<1
200156	9	<0.5	201	632	60	<1	41	<1	36	<1
*Std MMISRM16	46	<0.5	21	247	160	24	3	<1	340	<1
*Std MMISRM16	53	<0.5	19	297	180	28	6	<1	376	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

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Element Method Det.Lim. Units	Sc MMI-M5 5 PPB	Sm MMI-M5 1 PPB	Sn MMI-M5 1 PPB	Sr MMI-M5 10 PPB	Ta MMI-M5 1 PPB	Tb MMI-M5 1 PPB	Te MMI-M5 10 PPB	Th MMI-M5 0.5 PPB	Ti MMI-M5 3 PPB	Tl MMI-M5 0.5 PPB
200157	27	43	<1	6720	<1	8	<10	17.3	22	0.5
*Rep 200157	26	44	<1	6570	<1	7	<10	17.4	27	<0.5
200158	59	180	<1	4450	<1	33	<10	8.5	33	0.6
200159	29	25	<1	3410	<1	5	<10	5.0	81	<0.5
200160	7	1	<1	3440	<1	2	<10	1.1	6	0.7
200161	26	16	<1	2090	<1	4	<10	4.4	43	<0.5
200162	22	23	<1	4260	<1	4	<10	5.6	112	<0.5
200163	30	22	<1	2670	<1	4	<10	8.3	67	<0.5
200164	38	36	<1	3960	<1	7	<10	5.2	38	<0.5
200165	38	101	<1	5960	<1	28	<10	7.3	26	<0.5
200166	13	139	<1	3070	<1	30	<10	3.9	32	<0.5
200167	23	150	<1	2090	<1	32	<10	15.2	13	0.7
200168	17	9	<1	2230	<1	2	<10	3.9	122	<0.5
200169	15	10	<1	2290	<1	2	<10	4.2	109	<0.5
*Rep 200169	15	10	<1	2470	<1	2	<10	4.2	118	<0.5
200170	58	53	<1	4240	<1	11	<10	6.0	50	<0.5
200171	111	82	<1	3290	<1	18	<10	16.3	115	0.5
200172	123	97	<1	3880	<1	20	<10	15.8	78	<0.5
200173	33	24	<1	1860	<1	4	<10	6.3	378	<0.5
200174	92	247	<1	4630	<1	50	<10	6.1	22	<0.5
200176	33	14	<1	2790	<1	3	<10	5.8	105	<0.5
200177	61	33	<1	1650	<1	8	<10	11.1	236	<0.5
200201	33	66	<1	4030	<1	11	<10	15.5	119	<0.5
200202	52	29	<1	2430	<1	5	<10	21.4	612	<0.5
200203	29	25	<1	4150	<1	4	<10	14.1	171	<0.5
200204	55	45	<1	2490	<1	8	<10	8.7	444	<0.5
200205	14	12	<1	4990	<1	2	<10	6.8	74	<0.5
*Rep 200205	16	12	<1	5020	<1	2	<10	7.7	78	<0.5
200206	23	15	<1	3510	<1	3	<10	10.8	206	<0.5
200207	18	20	<1	3050	<1	4	<10	4.9	275	<0.5
200208	9	10	<1	3580	<1	2	<10	7.0	73	<0.5
200209	34	69	<1	6710	<1	13	<10	16.1	12	<0.5
200210	7	4	<1	4730	<1	<1	<10	1.5	99	<0.5
200211	13	16	<1	3280	<1	3	<10	3.6	96	<0.5
200212	127	52	<1	2310	<1	14	<10	10.7	45	<0.5
200214	20	165	<1	2920	<1	31	<10	5.7	23	<0.5
200215	30	10	<1	2270	<1	2	<10	6.4	270	<0.5
200216	35	26	<1	3800	<1	5	<10	10.5	89	<0.5
200217	14	11	<1	1530	<1	2	<10	4.2	260	<0.5
200218	54	41	<1	2780	<1	8	<10	10.0	436	<0.5
*Rep 200218	50	43	<1	2710	<1	8	<10	9.0	296	<0.5
200219	100	129	<1	3150	<1	25	<10	7.9	143	<0.5
200222	62	51	<1	2800	<1	12	<10	5.3	29	<0.5

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Element Method Det.Lim. Units	Sc MMI-M5 5 PPB	Sm MMI-M5 1 PPB	Sn MMI-M5 1 PPB	Sr MMI-M5 10 PPB	Ta MMI-M5 1 PPB	Tb MMI-M5 1 PPB	Te MMI-M5 10 PPB	Th MMI-M5 0.5 PPB	Ti MMI-M5 3 PPB	Tl MMI-M5 0.5 PPB
200251	34	57	<1	3830	<1	9	<10	9.7	74	<0.5
200252	50	63	<1	3920	<1	11	<10	11.1	75	<0.5
200253	13	40	<1	9500	<1	9	<10	10.0	9	<0.5
200254	25	9	<1	2670	<1	2	<10	10.3	218	<0.5
200255	8	37	<1	8370	<1	8	<10	1.9	8	<0.5
200256	55	49	<1	3270	<1	9	<10	13.0	443	<0.5
200257	68	269	<1	5350	<1	51	<10	9.4	35	<0.5
200258	32	91	<1	8630	<1	22	<10	8.0	10	<0.5
200259	63	33	<1	1420	<1	8	<10	8.7	507	<0.5
200260	55	35	<1	2760	<1	6	<10	19.5	282	<0.5
*Rep 200260	44	31	<1	2750	<1	6	<10	17.8	230	<0.5
200261	31	26	<1	3970	<1	5	<10	11.0	122	<0.5
200262	40	24	<1	4570	<1	5	<10	10.2	116	<0.5
200266	70	19	<1	1760	<1	5	<10	8.9	312	<0.5
200267	29	40	<1	4480	<1	8	<10	5.5	79	<0.5
200268	24	16	<1	3300	<1	3	<10	6.9	149	<0.5
200269	65	88	<1	4580	<1	16	<10	9.4	72	<0.5
200270	42	12	<1	1860	<1	2	<10	12.8	653	<0.5
200271	44	12	<1	1950	<1	3	<10	13.5	659	<0.5
200272	69	45	<1	2770	<1	10	<10	16.4	400	<0.5
200273	18	51	<1	2650	<1	9	<10	5.0	20	<0.5
200274	58	79	<1	2550	<1	19	<10	2.5	15	<0.5
200275	184	141	<1	5490	<1	34	<10	14.7	89	<0.5
*Rep 200275	187	149	<1	5690	<1	34	<10	13.7	90	<0.5
200276	86	80	<1	3470	<1	16	<10	8.8	183	<0.5
200277	170	94	<1	2070	<1	22	<10	22.1	339	<0.5
200278	121	138	<1	6340	<1	26	<10	6.5	18	<0.5
200151	11	118	<1	9380	<1	25	<10	22.3	10	<0.5
200152	21	67	<1	6330	<1	10	<10	16.5	51	<0.5
200153	10	25	<1	9130	<1	6	<10	8.7	11	<0.5
200154	9	10	<1	4680	<1	2	<10	1.8	37	<0.5
200155	42	21	<1	3380	<1	4	<10	12.9	269	<0.5
200156	23	64	<1	8050	<1	15	<10	10.1	12	<0.5
*Std MMISRM16	16	5	<1	530	<1	1	<10	26.3	<3	<0.5
*Std MMISRM16	17	8	<1	600	<1	1	<10	28.1	6	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

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Element Method Det.Lim. Units	U MMI-M5 1 PPB	W MMI-M5 1 PPB	Y MMI-M5 5 PPB	Yb MMI-M5 1 PPB	Zn MMI-M5 20 PPB	Zr MMI-M5 5 PPB
200157	33	<1	171	14	30	95
*Rep 200157	33	<1	174	13	30	90
200158	41	<1	919	62	140	105
200159	14	<1	121	9	120	92
200160	47	<1	67	16	90	13
200161	17	<1	113	9	130	59
200162	10	<1	115	8	220	95
200163	11	<1	109	8	750	80
200164	20	<1	207	16	810	62
200165	19	<1	712	65	100	136
200166	69	1	897	77	3220	41
200167	324	1	825	67	200	77
200168	8	<1	50	4	890	38
200169	10	<1	51	4	840	50
*Rep 200169	10	<1	55	5	1090	51
200170	14	<1	361	26	1020	84
200171	14	<1	521	35	430	175
200172	15	<1	574	37	290	175
200173	6	<1	117	8	510	75
200174	32	1	1610	108	310	69
200176	8	<1	94	7	300	79
200177	12	<1	283	28	330	128
200201	18	<1	267	22	150	188
200202	12	<1	120	10	210	165
200203	10	<1	99	7	430	126
200204	21	<1	241	21	380	165
200205	10	<1	47	3	110	61
*Rep 200205	11	<1	50	4	90	69
200206	9	<1	64	5	120	116
200207	16	<1	103	9	260	118
200208	10	<1	39	3	20	56
200209	155	<1	320	27	60	110
200210	4	<1	20	2	1340	20
200211	9	<1	71	5	440	36
200212	12	<1	420	43	560	125
200214	27	<1	815	50	1890	52
200215	5	<1	54	4	920	78
200216	11	<1	127	11	130	140
200217	8	<1	57	5	180	91
200218	14	<1	208	16	230	112
*Rep 200218	15	<1	216	17	220	100
200219	26	<1	627	55	300	107
200222	19	<1	361	32	520	79

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Element Method Det.Lim. Units	U MMI-M5 1 PPB	W MMI-M5 1 PPB	Y MMI-M5 5 PPB	Yb MMI-M5 1 PPB	Zn MMI-M5 20 PPB	Zr MMI-M5 5 PPB
200251	21	<1	245	18	70	106
200252	24	<1	258	21	170	118
200253	113	<1	216	20	30	18
200254	8	<1	40	3	130	107
200255	78	<1	242	16	60	14
200256	31	<1	210	18	90	148
200257	102	2	1410	121	560	117
200258	195	<1	661	61	70	68
200259	19	<1	224	22	390	181
200260	15	<1	151	13	220	203
*Rep 200260	14	<1	133	12	200	185
200261	12	<1	115	9	90	143
200262	10	<1	109	9	70	139
200266	16	<1	157	14	430	186
200267	7	<1	218	15	130	61
200268	8	<1	86	6	160	89
200269	18	<1	402	30	680	88
200270	7	<1	69	5	150	142
200271	7	<1	72	6	200	150
200272	10	<1	301	21	80	169
200273	12	<1	238	18	370	36
200274	24	<1	604	50	190	66
200275	19	<1	1090	82	250	166
*Rep 200275	19	<1	1070	78	170	159
200276	16	<1	431	35	250	118
200277	19	<1	614	44	40	195
200278	17	<1	638	51	140	98
200151	36	1	664	55	40	60
200152	67	<1	239	17	90	95
200153	73	<1	172	18	180	23
200154	56	<1	56	4	50	33
200155	18	<1	99	8	520	202
200156	196	<1	387	38	70	51
*Std MMISRM16	54	<1	18	1	230	20
*Std MMISRM16	61	<1	18	1	310	20
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

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Certificate of Analysis

Work Order: TO103226

To: Mammoth Geological Ltd.
Attn: Tim Henneberry
2446 Bidston Road
Mill Bay
BC V0R 2P4

Date: Oct 16, 2008

P.O. No. : Mammoth Geological; Project: Bonaparte
Project No. : DEFAULT
No. Of Samples : 63
Date Submittéd : Sep 15, 2008
Report Comprises : Pages 1 to 11
(Inclusive of Cover Sheet)

Distribution of unused material:

STORE: 63 Soils

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

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Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 1 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
200301	16	152	10	0.4	7710	<1	280	3	193	55
*Rep 200301	10	126	10	0.3	5260	<1	290	5	188	70
200302	14	136	10	0.1	7980	<1	250	3	191	50
200303	22	88	<10	<0.1	5930	<1	350	3	225	31
200304	18	170	<10	0.5	6590	<1	340	10	193	22
200305	11	73	<10	0.1	6430	<1	500	5	79	19
200307	20	55	<10	<0.1	8030	<1	560	5	97	32
200308	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
200309	6	159	<10	<0.1	4840	<1	390	12	59	26
200310	9	123	<10	0.1	6610	<1	590	23	85	29
200311	15	104	<10	0.3	5030	<1	570	4	262	38
200312	3	174	<10	<0.1	1980	<1	660	3	245	54
200313	2	112	<10	0.2	5600	<1	840	4	321	70
200314	3	109	<10	<0.1	2160	<1	470	4	110	32
*Rep 200314	3	113	<10	<0.1	2170	<1	470	4	112	39
200315	<1	>300	<10	<0.1	2250	<1	130	5	213	55
200316	1	170	<10	<0.1	3720	<1	390	5	620	85
200317	2	48	<10	0.2	2570	<1	450	2	383	16
200318	7	81	<10	<0.1	7560	<1	470	4	217	20
200319	3	149	<10	<0.1	780	<1	430	5	55	32
200320	13	181	<10	<0.1	1120	<1	220	13	53	39
200321	7	57	<10	0.3	4510	<1	520	2	303	45
200322	15	56	<10	<0.1	5200	<1	510	3	75	35
200323	8	109	<10	0.1	4390	<1	320	5	1650	36
200324	6	117	<10	0.3	5080	<1	500	3	244	40
200351	16	125	<10	<0.1	8220	<1	300	4	143	23
200352	4	166	<10	<0.1	4670	<1	370	10	62	43
*Rep 200352	3	196	<10	<0.1	4570	<1	370	13	58	60
200353	7	117	<10	0.3	4560	<1	350	7	563	25
200354	15	35	<10	1.0	7510	<1	440	3	125	13
200355	17	64	<10	0.1	7060	<1	570	4	121	47
200356	11	42	<10	0.1	13400	<1	650	2	278	92
200357	12	97	<10	<0.1	5470	<1	320	3	83	39
200358	19	21	<10	<0.1	8200	<1	640	4	61	25
200359	22	83	<10	0.4	5260	<1	420	3	154	39
200360	20	13	<10	0.2	13500	<1	810	3	208	48
200361	7	80	<10	0.1	9390	<1	410	2	112	23
200362	25	114	<10	<0.1	4580	<1	440	4	76	27
200363	8	84	<10	<0.1	4060	<1	670	5	204	54
200365	<1	227	<10	<0.1	4550	<1	260	6	102	132
*Rep 200365	<1	>300	<10	<0.1	4640	<1	280	5	114	130
200366	<1	155	<10	0.1	6990	<1	360	3	592	69
200367	1	131	<10	0.2	4740	<1	370	1	479	329

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Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 1 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
200369	2	182	<10	<0.1	6560	<1	360	4	259	29
200370	2	188	<10	<0.1	5920	<1	350	5	219	29
200371	2	98	<10	0.2	7720	<1	600	3	336	94
200372	<1	154	<10	0.2	7150	<1	340	2	519	175
200374	7	113	<10	0.2	3960	<1	610	3	788	65
200375	17	145	<10	<0.1	4210	<1	390	6	130	26
200377	2	135	<10	<0.1	9610	<1	440	4	392	30
200403	11	101	<10	<0.1	4850	<1	400	12	143	18
200404	16	60	<10	0.3	8640	<1	490	4	73	25
200405	18	36	<10	0.2	8460	<1	500	4	153	24
*Rep 200405	19	36	<10	0.2	8440	<1	500	4	151	25
200406	15	76	<10	0.2	7310	<1	540	4	210	21
200407	27	28	<10	0.2	11000	<1	560	3	82	29
200408	17	89	<10	0.4	7580	<1	570	3	441	61
200409	13	61	<10	0.2	4910	<1	410	5	86	19
200410	11	84	<10	<0.1	4620	<1	430	3	164	29
200411	11	75	<10	<0.1	6230	<1	470	2	166	25
200421	12	77	<10	0.2	5410	<1	410	5	593	26
200422	11	189	<10	<0.1	3380	<1	340	8	204	68
200423	11	121	<10	0.1	4330	<1	400	8	834	29
200424	14	84	<10	0.3	3730	<1	630	6	145	26
200425	7	140	<10	<0.1	3250	<1	370	6	1010	88
200426	7	125	<10	0.2	4430	<1	370	4	144	55
*Rep 200426	7	131	<10	0.1	4720	<1	390	5	141	51
200427	12	118	<10	0.8	3760	<1	560	5	275	105
200428	5	255	<10	<0.1	3130	<1	210	10	96	75
*Std MMISRM16	17	53	10	24.4	90	<1	250	4	32	72
*Std MMISRM16	18	61	20	26.6	100	<1	270	4	35	80
*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

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Element Method Det.Lim. Units	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 1 PPB	Er MMI-M5 0.5 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 1 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB	Li MMI-M5 5 PPB	Mg MMI-M5 1 PPM
200301	<100	330	13	5.9	5.4	91	18	77	<5	38
*Rep 200301	<100	140	10	4.7	4.1	75	14	67	<5	39
200302	<100	320	12	5.4	5.4	90	17	87	<5	34
200303	<100	250	22	10.5	6.9	78	30	84	<5	52
200304	<100	400	44	23.8	11.8	61	47	88	<5	82
200305	<100	240	15	7.3	5.7	40	21	38	<5	96
200307	<100	310	19	9.2	7.6	42	28	63	<5	134
200308	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
200309	<100	480	34	24.4	6.7	55	30	41	<5	34
200310	<100	170	36	21.0	8.0	52	34	53	<5	86
200311	<100	200	27	12.5	9.6	44	37	107	<5	130
200312	<100	160	39	20.2	11.2	70	41	114	<5	150
200313	<100	280	36	18.1	10.9	45	43	118	<5	222
200314	<100	130	21	11.4	6.7	65	27	46	<5	125
*Rep 200314	<100	120	23	12.6	7.3	70	29	49	<5	126
200315	<100	150	30	15.9	7.0	67	31	72	<5	18
200316	<100	220	113	58.8	31.6	76	122	216	<5	87
200317	<100	300	81	39.4	31.2	35	116	222	<5	137
200318	<100	380	37	18.7	14.1	50	55	129	<5	99
200319	<100	90	13	7.1	3.1	44	12	21	<5	71
200320	<100	160	8	4.3	2.1	80	8	13	<5	22
200321	<100	330	55	27.1	20.4	29	79	144	<5	127
200322	<100	680	79	42.5	27.7	37	114	158	<5	123
200323	<100	350	153	68.1	51.2	44	203	491	<5	85
200324	<100	260	31	17.2	9.4	31	38	94	<5	114
200351	<100	210	21	10.6	7.3	36	29	70	<5	46
200352	<100	110	6	3.4	2.3	86	7	20	<5	33
*Rep 200352	<100	140	7	3.8	2.3	103	7	19	<5	35
200353	<100	190	76	36.8	29.1	69	113	215	6	87
200354	<100	510	66	32.5	27.3	30	109	189	6	85
200355	<100	200	14	6.4	5.1	34	19	40	<5	109
200356	<100	160	20	10.1	7.0	23	25	54	14	95
200357	<100	170	4	2.0	2.1	67	5	21	6	49
200358	<100	1090	106	50.7	44.2	18	184	223	9	185
200359	<100	160	16	7.7	6.3	54	23	71	<5	80
200360	<100	350	29	13.7	10.6	13	40	59	52	123
200361	<100	180	8	4.2	4.0	43	12	42	<5	69
200362	<100	190	8	3.7	2.9	50	9	29	<5	105
200363	<100	80	30	14.6	9.2	37	36	53	<5	157
200365	<100	110	9	4.8	3.0	97	9	31	<5	63
*Rep 200365	<100	110	9	4.6	3.1	98	9	35	<5	64
200366	<100	200	76	38.7	26.2	53	99	222	<5	97
200367	<100	650	152	92.0	36.8	112	149	234	<5	130

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Element Method Det.Lim. Units	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 1 PPB	Er MMI-M5 0.5 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 1 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB	Li MMI-M5 5 PPB	Mg MMI-M5 1 PPM
200369	<100	170	65	34.8	17.4	57	67	143	<5	110
200370	<100	160	54	29.4	14.7	59	56	116	<5	113
200371	<100	270	69	37.8	23.3	36	91	162	<5	150
200372	<100	280	52	25.9	16.1	55	62	213	<5	106
200374	<100	280	183	94.9	60.5	40	238	357	<5	177
200375	<100	320	63	34.7	18.3	44	76	113	<5	60
200377	<100	290	45	20.5	12.4	34	51	162	<5	64
200403	<100	190	27	13.9	9.7	62	36	69	<5	81
200404	<100	870	89	44.4	30.2	27	132	196	6	114
200405	<100	450	40	19.4	17.7	24	70	135	<5	120
*Rep 200405	<100	440	40	19.2	17.9	24	69	141	<5	114
200406	<100	360	39	18.7	12.2	24	54	98	<5	100
200407	<100	450	83	41.3	36.2	24	146	223	10	117
200408	<100	520	119	64.6	37.6	49	166	294	8	166
200409	<100	180	13	6.7	5.5	42	20	47	<5	101
200410	<100	130	10	4.6	4.1	55	15	62	<5	78
200411	<100	150	11	4.8	4.8	49	16	63	<5	82
200421	<100	350	94	46.0	34.1	35	129	223	7	158
200422	<100	290	63	34.6	18.3	76	68	111	<5	86
200423	<100	360	165	82.0	51.8	38	200	324	6	167
200424	<100	630	150	81.2	44.8	38	189	190	<5	178
200425	<100	880	350	194	91.5	133	370	425	<5	128
200426	<100	320	33	17.7	11.0	34	42	76	<5	99
*Rep 200426	<100	300	33	18.2	10.8	33	41	73	<5	103
200427	<100	250	70	38.7	23.2	50	90	143	<5	176
200428	<100	320	45	27.9	8.4	90	36	41	<5	74
*Std MMISRM16	<100	590	3	1.2	1.7	4	7	8	<5	45
*Std MMISRM16	100	670	4	1.4	1.8	4	8	8	<5	47
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

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Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Pt MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB
200301	7	5.9	74	56	130	2	20	<1	85	<1
*Rep 200301	5	4.9	63	65	150	1	17	<1	77	<1
200302	6	6.5	78	53	110	2	22	<1	81	<1
200303	<5	4.0	113	86	110	2	28	<1	58	<1
200304	<5	1.6	131	121	150	1	31	<1	123	<1
200305	12	1.6	64	116	80	<1	14	<1	105	<1
200307	14	2.3	94	128	130	<1	22	<1	65	<1
200308	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
200309	<5	1.1	72	76	210	<1	16	<1	159	<1
200310	<5	0.9	77	121	210	<1	19	<1	112	<1
200311	<5	1.1	128	126	60	<1	32	<1	66	<1
200312	<5	1.1	118	81	120	<1	29	<1	42	<1
200313	<5	0.6	129	106	100	<1	30	<1	34	<1
200314	<5	1.5	78	103	80	<1	18	<1	81	<1
*Rep 200314	<5	1.6	83	88	80	<1	19	<1	87	<1
200315	<5	3.1	98	42	170	2	24	<1	155	<1
200316	<5	0.6	354	125	100	<1	84	<1	62	<1
200317	<5	<0.5	397	124	20	<1	91	<1	36	<1
200318	<5	1.6	188	115	60	<1	45	<1	104	<1
200319	<5	0.9	30	48	40	<1	7	<1	102	<1
200320	10	3.0	20	112	140	1	5	<1	118	<1
200321	<5	<0.5	246	125	30	<1	54	<1	55	<1
200322	<5	1.0	305	93	40	<1	63	<1	58	<1
200323	<5	1.0	706	74	50	1	158	<1	81	<1
200324	<5	<0.5	114	75	100	<1	27	<1	77	<1
200351	7	1.4	97	66	120	1	24	<1	139	<1
200352	10	5.4	23	120	180	1	6	<1	93	<1
*Rep 200352	9	4.9	20	140	210	1	5	<1	93	<1
200353	7	2.2	397	192	70	<1	94	<1	93	<1
200354	<5	0.7	358	142	40	<1	79	<1	41	<1
200355	6	1.6	59	142	90	<1	14	<1	80	<1
200356	<5	<0.5	79	134	90	<1	19	<1	62	<1
200357	5	4.0	20	73	120	<1	5	<1	67	<1
200358	9	0.7	506	316	40	<1	101	<1	35	<1
200359	<5	2.7	86	78	90	<1	22	<1	52	<1
200360	6	0.5	110	196	60	<1	24	<1	48	<1
200361	<5	2.2	46	48	50	<1	12	<1	77	<1
200362	<5	2.0	32	102	70	<1	8	<1	97	<1
200363	<5	1.3	96	132	40	<1	22	<1	99	<1
200365	<5	2.5	27	128	200	<1	7	<1	128	<1
*Rep 200365	<5	2.8	30	128	200	<1	8	<1	136	<1
200366	<5	1.1	324	153	140	<1	78	<1	96	<1
200367	<5	<0.5	377	280	50	1	88	<1	69	<1

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Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Pt MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB
200369	<5	<0.5	192	90	100	<1	45	<1	128	<1
200370	<5	<0.5	157	104	100	<1	37	<1	156	<1
200371	<5	<0.5	265	144	70	<1	59	<1	67	<1
200372	<5	<0.5	222	130	150	<1	58	<1	80	<1
200374	<5	<0.5	691	204	100	<1	156	<1	67	<1
200375	<5	0.8	195	112	80	<1	43	<1	103	<1
200377	<5	0.9	164	37	90	1	43	<1	120	<1
200403	<5	2.2	113	150	100	<1	25	<1	98	<1
200404	<5	0.6	387	103	70	<1	83	<1	52	<1
200405	<5	0.7	235	115	30	<1	50	<1	31	<1
*Rep 200405	<5	0.7	242	117	30	<1	52	<1	32	<1
200406	7	0.7	168	93	70	<1	38	<1	65	<1
200407	10	0.8	464	165	60	<1	96	<1	50	<1
200408	<5	0.9	502	294	150	<1	115	<1	69	<1
200409	6	2.3	69	76	80	<1	16	<1	54	<1
200410	<5	1.8	60	74	90	<1	16	<1	64	<1
200411	<5	1.4	65	72	70	<1	17	<1	63	<1
200421	<5	<0.5	424	302	30	<1	96	<1	72	<1
200422	<5	2.0	184	251	120	<1	43	<1	135	<1
200423	<5	<0.5	591	392	50	<1	139	<1	93	<1
200424	<5	<0.5	450	279	40	<1	93	<1	98	<1
200425	<5	<0.5	883	560	50	1	175	<1	77	<1
200426	<5	0.7	123	90	80	<1	27	<1	98	<1
*Rep 200426	<5	0.6	116	98	90	<1	26	<1	102	<1
200427	<5	<0.5	251	177	50	<1	55	<1	61	<1
200428	<5	0.8	84	174	180	<1	17	<1	165	<1
*Std MMISRM16	46	<0.5	23	269	160	24	5	<1	349	<1
*Std MMISRM16	50	<0.5	25	299	170	27	5	<1	350	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

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Element Method Det.Lim. Units	Sc MMI-M5 5 PPB	Sm MMI-M5 1 PPB	Sn MMI-M5 1 PPB	Sr MMI-M5 10 PPB	Ta MMI-M5 1 PPB	Tb MMI-M5 1 PPB	Te MMI-M5 10 PPB	Th MMI-M5 0.5 PPB	Ti MMI-M5 3 PPB	Tl MMI-M5 0.5 PPB
200301	38	15	<1	1820	<1	3	<10	22.7	1210	<0.5
*Rep 200301	28	13	<1	1820	<1	2	<10	17.6	950	<0.5
200302	36	15	<1	1720	<1	3	<10	23.6	1390	<0.5
200303	54	26	<1	2230	<1	5	<10	20.9	550	<0.5
200304	103	36	<1	2450	<1	8	<10	13.0	266	<0.5
200305	19	16	<1	3750	<1	3	<10	7.1	108	<0.5
200307	21	23	<1	5620	<1	4	<10	11.3	127	<0.5
200308	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
200309	36	20	<1	2210	<1	5	<10	6.8	117	<0.5
200310	44	23	<1	3330	<1	6	<10	6.4	71	<0.5
200311	30	30	<1	5260	<1	6	<10	12.4	50	<0.5
200312	68	29	<1	5870	<1	7	<10	12.7	79	<0.5
200313	55	32	<1	5990	<1	7	<10	7.7	25	<0.5
200314	39	20	<1	2210	<1	4	<10	8.2	106	<0.5
*Rep 200314	40	22	<1	2310	<1	4	<10	8.7	115	<0.5
200315	71	23	<1	730	<1	6	<10	22.8	987	<0.5
200316	141	92	<1	2530	<1	21	<10	23.9	136	<0.5
200317	29	97	<1	1710	<1	18	<10	9.8	35	<0.5
200318	38	44	<1	3930	<1	8	<10	10.9	97	<0.5
200319	32	8	<1	1080	<1	2	<10	4.2	82	<0.5
200320	45	6	<1	910	<1	1	<10	11.6	778	<0.5
200321	34	63	<1	4320	<1	12	<10	8.5	30	<0.5
200322	43	83	<1	4120	<1	16	<10	8.5	62	<0.5
200323	123	166	<1	3110	<1	33	<10	18.8	271	<0.5
200324	70	28	<1	3930	<1	6	<10	8.0	30	<0.5
200351	43	23	<1	1520	<1	4	<10	11.3	201	<0.5
200352	42	6	<1	2050	<1	1	<10	13.3	1020	<0.5
*Rep 200352	46	5	<1	2240	<1	1	<10	14.0	971	<0.5
200353	76	97	<1	2570	<1	17	<10	18.4	508	<0.5
200354	31	89	<1	3360	<1	15	<10	15.5	83	<0.5
200355	22	15	<1	4280	<1	3	<10	8.5	96	<0.5
200356	24	20	<1	5030	<1	4	<10	18.4	11	<0.5
200357	30	4	<1	2460	<1	<1	<10	16.9	653	<0.5
200358	14	142	<1	7800	<1	24	<10	13.3	23	<0.5
200359	26	19	<1	3130	<1	4	<10	13.6	299	<0.5
200360	12	32	<1	6170	<1	6	<10	27.6	9	<0.5
200361	15	10	<1	3560	<1	2	<10	11.3	203	<0.5
200362	29	7	<1	2930	<1	2	<10	8.4	205	<0.5
200363	37	28	<1	3590	<1	6	<10	6.9	43	<0.5
200365	51	6	<1	2480	<1	2	<10	21.0	573	<0.5
*Rep 200365	51	7	<1	2470	<1	2	<10	22.7	626	<0.5
200366	77	78	<1	4100	<1	16	<10	24.2	244	<0.5
200367	205	105	<1	3990	<1	27	<10	37.8	71	<0.5

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Element Method Det.Lim. Units	Sc MMI-M5 5 PPB	Sm MMI-M5 1 PPB	Sn MMI-M5 1 PPB	Sr MMI-M5 10 PPB	Ta MMI-M5 1 PPB	Tb MMI-M5 1 PPB	Te MMI-M5 10 PPB	Th MMI-M5 0.5 PPB	Ti MMI-M5 3 PPB	Tl MMI-M5 0.5 PPB
200369	74	49	<1	3820	<1	12	<10	19.0	86	<0.5
200370	66	40	<1	3550	<1	10	<10	18.1	126	<0.5
200371	50	68	<1	7450	<1	14	<10	10.0	24	<0.5
200372	122	48	<1	3590	<1	10	<10	22.3	105	<0.5
200374	96	186	<1	6370	<1	37	<10	11.7	20	<0.5
200375	52	54	<1	3020	<1	12	<10	7.6	84	<0.5
200377	80	39	<1	3460	<1	9	<10	12.7	159	<0.5
200403	51	29	<1	2320	<1	5	<10	11.0	177	<0.5
200404	47	102	<1	4010	<1	19	<10	11.5	24	<0.5
200405	26	58	<1	4780	<1	9	<10	12.9	26	<0.5
*Rep 200405	28	59	<1	4580	<1	9	<10	12.9	31	<0.5
200406	33	44	<1	3820	<1	8	<10	9.2	33	<0.5
200407	16	117	<1	5000	<1	19	<10	18.0	40	<0.5
200408	80	127	<1	5340	<1	25	<10	15.7	40	<0.5
200409	17	17	<1	3120	<1	3	<10	8.7	222	<0.5
200410	17	13	<1	3120	<1	2	<10	12.0	218	<0.5
200411	14	14	<1	3840	<1	2	<10	11.8	153	<0.5
200421	66	108	<1	3820	<1	20	<10	18.2	71	<0.5
200422	58	51	<1	1900	<1	12	<10	17.0	344	<0.5
200423	111	158	<1	3960	<1	33	<10	22.8	42	<0.5
200424	56	135	<1	6280	<1	30	<10	6.0	22	<0.5
200425	232	265	<1	3330	<1	65	<10	31.0	68	<0.5
200426	42	32	<1	2830	<1	7	<10	6.6	96	<0.5
*Rep 200426	44	31	<1	2960	<1	7	<10	6.3	75	<0.5
200427	60	67	<1	4550	<1	14	<10	8.5	40	<0.5
200428	96	24	<1	1670	<1	7	<10	14.4	238	<0.5
*Std MMISRM16	16	7	<1	510	<1	<1	<10	30.4	5	<0.5
*Std MMISRM16	18	7	<1	530	<1	<1	<10	34.6	4	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

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Element Method Det.Lim. Units	U MMI-M5 1 PPB	W MMI-M5 1 PPB	Y MMI-M5 5 PPB	Yb MMI-M5 1 PPB	Zn MMI-M5 20 PPB	Zr MMI-M5 5 PPB
200301	11	<1	68	5	230	221
*Rep 200301	9	<1	56	4	290	170
200302	10	<1	64	4	210	237
200303	12	<1	119	9	80	234
200304	22	<1	230	20	300	167
200305	11	<1	89	6	470	71
200307	116	<1	109	8	30	76
200308	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
200309	44	<1	229	22	300	76
200310	42	<1	201	19	1550	84
200311	12	<1	146	10	50	79
200312	16	<1	220	16	240	106
200313	10	<1	207	14	150	89
200314	5	<1	139	10	200	70
*Rep 200314	6	<1	150	11	220	78
200315	11	<1	170	13	110	223
200316	23	<1	540	46	290	118
200317	14	<1	414	31	160	51
200318	12	<1	196	15	210	80
200319	5	<1	83	6	220	52
200320	7	<1	42	4	1090	142
200321	10	<1	276	21	50	47
200322	15	<1	471	36	180	70
200323	22	2	661	50	130	143
200324	11	<1	195	14	120	89
200351	17	<1	114	9	140	159
200352	10	<1	35	3	470	163
*Rep 200352	11	<1	40	4	530	157
200353	26	<1	359	31	1090	132
200354	31	<1	361	27	90	79
200355	17	<1	77	6	60	81
200356	53	<1	100	9	50	78
200357	6	<1	22	2	230	146
200358	248	<1	620	40	70	52
200359	11	<1	89	7	110	113
200360	29	<1	140	12	<20	55
200361	6	<1	46	4	40	91
200362	7	<1	41	3	100	93
200363	7	<1	144	12	180	94
200365	7	<1	57	4	360	130
*Rep 200365	7	<1	55	4	360	143
200366	15	<1	402	30	180	121
200367	29	<1	851	75	60	173

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200369	14	<1	368	26	270	124
200370	13	<1	305	23	390	112
200371	13	<1	392	30	40	78
200372	17	<1	270	19	60	128
200374	19	<1	915	75	70	68
200375	9	<1	364	27	100	76
200377	17	<1	206	15	80	186
200403	12	<1	156	12	1180	106
200404	27	<1	491	34	110	92
200405	21	<1	223	16	80	72
*Rep 200405	20	<1	223	16	90	73
200406	19	<1	209	15	360	86
200407	114	<1	502	34	120	72
200408	24	<1	685	53	140	111
200409	8	<1	79	6	510	74
200410	6	<1	55	4	360	59
200411	6	<1	56	4	140	58
200421	23	<1	432	38	90	79
200422	18	<1	333	28	230	146
200423	37	<1	792	63	80	88
200424	28	<1	847	64	650	67
200425	41	2	1840	150	160	132
200426	9	<1	199	14	180	80
*Rep 200426	9	<1	207	15	200	74
200427	11	<1	387	32	260	67
200428	11	<1	251	24	740	107
*Std MMISRM16	53	<1	15	<1	220	18
*Std MMISRM16	58	<1	16	1	250	20
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

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Certificate of Analysis

Work Order: TO103227

To: Mammoth Geological Ltd.
Attn: Tim Henneberry
2446 Bidston Road
Mill Bay
BC V0R 2P4

Date: Oct 16, 2008

P.O. No. : Mammoth Geological; Project: Bonaparte
Project No. : DEFAULT
No. Of Samples 71
Date Submittéd Sep 15, 2008
Report Comprises Pages 1 to 11
(Inclusive of Cover Sheet)

Distribution of unused material:

STORE: 71 Soils

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

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Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 1 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
200451	12	69	<10	0.2	6950	<1	270	2	68	15
*Rep 200451	12	72	<10	0.2	6850	<1	280	2	67	16
200452	5	140	20	<0.1	4630	<1	220	8	352	248
200454	14	3	<10	1.7	9990	<1	740	<1	<5	11
200457	14	52	<10	0.1	11600	<1	380	3	241	23
200458	28	111	<10	<0.1	2580	<1	260	11	70	12
200459	13	162	<10	<0.1	2160	<1	210	4	127	109
200460	17	96	<10	<0.1	2130	<1	380	7	107	24
200463	<1	118	<10	0.2	5900	<1	250	1	920	77
200464	1	131	<10	<0.1	4150	<1	170	2	554	39
200466	6	60	<10	0.2	4090	<1	290	5	505	17
200467	6	29	<10	0.5	5360	<1	350	3	387	7
200468	10	21	<10	0.3	3570	<1	610	10	112	48
200469	2	109	<10	<0.1	7840	<1	290	16	135	20
*Rep 200469	2	114	<10	<0.1	7110	<1	270	14	128	17
200470	8	75	<10	0.3	6180	<1	400	9	406	43
200471	14	33	<10	<0.1	4890	<1	620	18	75	24
200472	11	110	<10	<0.1	4780	<1	280	4	262	51
200473	9	107	<10	0.1	3660	<1	350	6	277	33
200474	9	107	<10	<0.1	3800	<1	280	4	49	21
200475	7	33	<10	0.2	3080	<1	460	7	67	31
200476	20	69	<10	0.1	2110	<1	390	6	158	26
200477	<1	75	<10	0.3	5800	<1	340	2	730	119
200478	13	110	<10	0.1	5060	<1	320	5	429	58
200501	<1	120	<10	<0.1	3510	<1	290	33	69	34
200502	12	169	<10	<0.1	2780	<1	170	8	207	23
200504	36	9	<10	0.4	6440	<1	540	2	25	20
*Rep 200504	30	8	<10	0.6	6540	<1	540	2	24	12
200505	5	113	<10	<0.1	5100	<1	230	5	71	20
200506	14	31	<10	0.2	4770	<1	330	3	267	12
200507	7	73	<10	0.2	9580	<1	290	3	104	32
200508	6	77	<10	0.3	8440	<1	240	2	110	24
200509	7	51	<10	<0.1	11400	<1	230	3	640	10
200510	18	38	<10	0.4	4370	<1	420	5	215	23
200511	19	41	<10	0.4	4690	<1	440	5	243	27
200512	7	72	<10	0.4	5500	<1	280	4	424	39
200513	8	24	<10	0.2	6270	<1	390	3	90	31
200514	7	174	20	<0.1	3950	<1	110	4	97	56
200515	34	17	<10	0.7	18900	<1	720	3	231	41
200516	15	8	<10	0.6	4240	<1	710	2	64	<5
*Rep 200516	16	8	<10	0.7	4240	<1	680	2	58	<5
200517	31	10	<10	0.6	11500	<1	650	5	101	76
200519	9	51	<10	0.3	6490	<1	360	3	287	8

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Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 1 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
200520	16	82	<10	0.5	3980	<1	540	10	102	24
200521	50	20	<10	0.3	2550	<1	870	16	191	218
200522	8	72	<10	<0.1	2020	<1	440	4	145	32
200523	19	62	<10	<0.1	1290	<1	410	10	173	92
200524	6	125	<10	0.1	3250	<1	300	8	298	68
200525	7	34	<10	0.4	4370	<1	540	3	126	11
200526	2	80	<10	0.2	5550	<1	390	3	322	49
200528	6	56	<10	0.3	5810	<1	260	2	379	17
200551	19	126	<10	<0.1	5000	<1	290	19	64	27
200556	1	35	<10	<0.1	1740	<1	650	13	6	26
*Rep 200556	2	24	<10	<0.1	1640	<1	630	13	<5	20
200557	20	24	<10	0.2	8390	<1	640	6	388	79
200558	11	35	<10	0.3	9930	<1	490	3	209	10
200559	12	61	<10	0.2	9420	<1	290	3	254	11
200560	9	134	<10	<0.1	6850	<1	200	3	96	18
200561	15	37	<10	0.3	11200	<1	440	4	293	12
200562	18	34	<10	0.1	8770	<1	340	4	204	10
200563	24	36	<10	0.6	8540	<1	590	8	308	34
200564	26	21	<10	0.3	5370	<1	660	9	42	30
200565	11	25	<10	0.2	4630	<1	560	6	61	<5
200566	7	80	<10	0.2	5380	<1	390	3	121	28
200567	10	70	<10	<0.1	5900	<1	250	5	46	32
200568	13	28	<10	0.2	7680	<1	310	1	65	11
*Rep 200568	13	27	<10	0.3	7760	<1	320	1	70	17
200569	25	18	<10	0.1	4930	<1	880	12	44	47
200570	45	20	<10	0.8	9330	<1	670	10	96	61
200571	35	25	<10	0.3	8420	<1	660	12	121	65
200572	12	59	<10	0.2	3500	<1	430	3	78	8
200573	12	31	<10	<0.1	4120	<1	460	3	284	50
200574	4	47	<10	<0.1	4320	<1	490	4	113	12
200575	10	75	<10	<0.1	4970	<1	330	5	121	35
200576	<1	86	<10	0.1	2540	<1	220	1	304	44
200577	<1	121	<10	<0.1	3790	<1	250	4	277	42
200578	17	81	<10	<0.1	930	<1	350	19	39	35
*Std MMISRM16	22	41	10	24.8	100	<1	190	4	31	51
*Std MMISRM16	19	45	10	32.9	90	<1	220	4	26	62
*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

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Element Method Det.Lim. Units	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 1 PPB	Er MMI-M5 0.5 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 1 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB	Li MMI-M5 5 PPB	Mg MMI-M5 1 PPM
200451	<100	110	6	2.7	2.3	35	8	31	<5	48
*Rep 200451	<100	110	6	2.6	2.4	36	8	31	<5	47
200452	<100	330	16	8.2	5.1	149	21	87	10	54
200454	<100	740	31	19.5	4.9	9	26	<1	15	143
200457	<100	90	17	8.5	7.1	36	24	72	<5	84
200458	<100	150	26	14.1	6.1	25	27	42	<5	37
200459	<100	70	14	6.4	3.5	86	13	47	<5	58
200460	<100	100	18	9.9	3.9	43	18	37	<5	85
200463	<100	300	146	81.6	35.9	44	152	418	<5	89
200464	<100	260	97	47.7	23.0	36	101	267	<5	59
200466	<100	270	98	50.2	35.7	36	135	269	<5	90
200467	<100	310	90	45.5	32.6	26	129	258	<5	95
200468	<100	260	68	41.0	20.1	17	84	86	7	197
200469	<100	550	96	63.7	17.6	64	82	110	<5	103
*Rep 200469	<100	510	93	62.5	17.1	64	82	102	<5	100
200470	<100	390	104	54.2	34.5	38	137	267	<5	127
200471	<100	320	110	62.8	27.4	15	124	94	21	266
200472	<100	400	134	78.0	33.2	78	137	197	<5	90
200473	<100	290	79	44.3	24.5	43	94	158	<5	102
200474	<100	100	8	4.9	2.5	34	9	21	<5	50
200475	<100	560	63	36.7	19.7	28	82	93	5	181
200476	<100	320	96	53.2	25.7	41	114	156	<5	100
200477	<100	400	121	63.9	39.9	34	151	295	<5	97
200478	<100	580	243	136	60.6	75	245	304	5	99
200501	<100	120	7	4.9	1.8	69	7	15	<5	39
200502	<100	290	28	15.1	6.9	78	29	68	<5	19
200504	<100	590	4	2.0	1.6	13	6	6	<5	74
*Rep 200504	<100	540	4	1.8	1.7	12	6	6	5	72
200505	<100	100	10	5.6	3.6	73	11	28	<5	46
200506	<100	260	21	9.8	7.6	23	31	81	<5	58
200507	<100	230	8	3.7	3.4	47	11	46	<5	44
200508	<100	140	7	3.3	2.9	46	8	39	<5	48
200509	<100	140	34	15.9	12.3	29	44	174	<5	64
200510	<100	250	82	44.2	27.2	27	113	193	5	108
200511	<100	330	95	52.9	30.2	29	126	210	5	122
200512	<100	230	87	46.1	32.3	33	123	269	6	87
200513	<100	350	64	35.9	21.7	20	87	137	6	107
200514	<100	110	10	5.5	3.8	91	12	40	<5	26
200515	<100	850	194	119	50.5	19	224	199	55	145
200516	<100	1000	144	79.1	48.7	21	192	180	13	188
*Rep 200516	<100	1040	139	78.3	47.1	20	181	160	12	185
200517	<100	510	42	24.4	10.8	12	48	41	10	196
200519	<100	300	60	30.3	21.2	29	80	151	<5	110

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Element Method Det.Lim. Units	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 1 PPB	Er MMI-M5 0.5 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 1 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB	Li MMI-M5 5 PPB	Mg MMI-M5 1 PPM
200520	<100	260	34	22.8	7.2	44	31	41	<5	158
200521	<100	760	86	53.0	19.5	14	96	88	18	172
200522	<100	90	15	8.3	4.2	35	17	31	<5	78
200523	<100	890	164	103	45.8	39	200	231	7	106
200524	<100	190	50	28.5	13.2	68	54	95	<5	67
200525	<100	350	48	25.1	16.3	24	61	90	<5	142
200526	<100	240	38	19.5	12.6	30	48	138	<5	98
200528	<100	230	38	18.9	14.8	36	55	156	<5	84
200551	<100	120	12	7.4	2.8	60	12	24	<5	29
200556	<100	70	2	1.2	0.6	19	2	3	14	157
*Rep 200556	<100	60	2	1.1	0.6	18	2	2	13	161
200557	<100	700	99	61.5	20.6	21	110	150	11	241
200558	<100	390	81	42.2	27.3	27	116	229	<5	106
200559	<100	260	62	31.9	22.5	35	84	178	<5	53
200560	<100	140	13	7.3	4.2	50	15	45	<5	31
200561	<100	550	158	94.9	44.6	22	191	234	10	123
200562	<100	240	37	19.5	12.1	26	49	84	5	91
200563	<100	1240	154	89.8	42.1	26	193	256	11	199
200564	<100	1300	33	20.3	8.8	18	39	33	27	166
200565	<100	190	35	19.5	10.6	13	43	34	19	161
200566	<100	170	11	6.0	3.9	38	14	38	<5	63
200567	<100	170	5	2.9	2.3	43	7	19	<5	77
200568	<100	260	29	13.3	11.2	25	44	106	<5	53
*Rep 200568	<100	270	29	14.4	11.4	26	45	109	<5	53
200569	<100	290	45	25.1	11.0	12	51	36	6	184
200570	<100	690	66	37.2	16.5	14	79	67	11	221
200571	<100	480	59	34.3	15.2	14	72	68	9	220
200572	<100	430	78	42.1	24.2	27	98	137	<5	97
200573	<100	210	20	9.5	6.3	32	26	75	<5	113
200574	<100	160	33	17.2	9.7	27	43	67	<5	122
200575	<100	230	47	25.7	15.9	35	64	126	<5	72
200576	<100	380	102	62.4	24.3	68	101	138	<5	108
200577	<100	180	45	24.5	12.1	29	50	117	<5	57
200578	<100	150	5	2.5	1.2	36	5	9	<5	65
*Std MMISRM16	<100	500	3	1.2	1.7	3	7	8	<5	33
*Std MMISRM16	<100	610	3	1.1	1.3	3	6	6	<5	37
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

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Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Pt MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB
200451	<5	1.8	30	30	80	<1	8	<1	75	<1
*Rep 200451	<5	1.7	30	31	80	<1	8	<1	75	<1
200452	9	5.2	91	99	350	<1	26	<1	44	<1
200454	<5	<0.5	1	107	<10	<1	<1	<1	7	<1
200457	<5	0.7	92	63	40	<1	24	<1	33	<1
200458	<5	1.4	67	95	120	<1	16	<1	105	<1
200459	6	2.2	39	122	120	<1	11	<1	121	<1
200460	<5	1.6	49	140	100	<1	13	<1	130	<1
200463	<5	<0.5	509	104	120	<1	130	<1	90	<1
200464	<5	<0.5	303	27	120	<1	78	<1	65	<1
200466	<5	0.7	456	171	60	<1	110	<1	92	<1
200467	<5	<0.5	422	218	20	<1	99	<1	28	<1
200468	<5	<0.5	172	392	40	<1	35	<1	24	<1
200469	<5	0.7	185	134	120	<1	41	<1	121	<1
*Rep 200469	<5	0.6	179	125	120	<1	39	<1	106	<1
200470	<5	<0.5	417	291	50	<1	102	<1	40	<1
200471	<5	<0.5	216	622	50	<1	45	<1	23	<1
200472	<5	1.2	332	244	90	<1	78	<1	46	<1
200473	<5	0.8	260	124	60	<1	61	<1	63	<1
200474	<5	0.7	26	66	80	<1	6	<1	109	<1
200475	<5	<0.5	177	223	30	<1	39	<1	27	<1
200476	6	0.7	284	118	90	<1	64	<1	45	<1
200477	<5	<0.5	466	103	60	<1	113	<1	54	<1
200478	<5	1.0	599	327	90	<1	141	<1	47	<1
200501	15	2.3	20	76	220	<1	5	<1	82	<1
200502	10	5.0	92	76	380	1	24	<1	81	<1
200504	6	<0.5	14	98	<10	<1	3	<1	30	<1
*Rep 200504	5	<0.5	13	80	<10	<1	3	<1	27	<1
200505	<5	2.4	34	47	130	<1	9	<1	87	<1
200506	<5	<0.5	110	48	50	<1	27	<1	46	<1
200507	<5	1.9	42	40	90	<1	12	<1	71	<1
200508	5	2.5	37	25	70	<1	11	<1	67	<1
200509	<5	2.2	186	46	80	<1	52	<1	92	<1
200510	<5	<0.5	309	309	70	<1	71	<1	24	<1
200511	<5	<0.5	343	369	70	<1	79	<1	26	<1
200512	<5	0.6	424	240	60	<1	102	<1	63	<1
200513	<5	<0.5	245	160	30	<1	54	<1	47	<1
200514	6	5.3	46	95	80	<1	13	<1	64	<1
200515	<5	<0.5	418	557	40	<1	86	<1	21	<1
200516	<5	<0.5	396	339	10	<1	78	<1	16	<1
*Rep 200516	<5	<0.5	354	353	10	<1	71	<1	15	<1
200517	6	<0.5	90	258	40	<1	18	<1	22	<1
200519	<5	<0.5	243	155	20	<1	57	<1	34	<1

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Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Pt MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB
200520	<5	<0.5	65	226	150	<1	15	<1	33	<1
200521	7	<0.5	179	729	20	<1	38	<1	21	<1
200522	6	0.7	46	81	50	<1	11	<1	40	<1
200523	6	1.0	446	472	50	<1	98	<1	43	<1
200524	<5	1.1	152	138	80	<1	37	<1	94	<1
200525	<5	<0.5	163	105	20	<1	35	<1	19	<1
200526	<5	<0.5	158	53	50	<1	40	<1	68	<1
200528	<5	1.1	207	155	40	<1	52	<1	44	<1
200551	6	2.1	31	105	190	<1	8	<1	100	<1
200556	<5	<0.5	4	74	90	<1	<1	<1	216	<1
*Rep 200556	5	<0.5	4	76	70	<1	<1	<1	210	<1
200557	10	<0.5	250	379	40	<1	58	<1	19	<1
200558	<5	0.6	372	109	50	<1	86	<1	48	<1
200559	<5	1.4	263	143	60	<1	64	<1	70	<1
200560	<5	2.7	50	53	170	<1	13	<1	100	<1
200561	<5	<0.5	437	363	50	<1	97	<1	57	<1
200562	<5	<0.5	145	131	50	<1	34	<1	55	<1
200563	<5	<0.5	445	484	40	<1	101	<1	21	<1
200564	<5	<0.5	76	647	20	<1	15	<1	30	<1
200565	<5	<0.5	83	431	<10	<1	16	<1	58	<1
200566	<5	0.9	46	63	100	<1	12	<1	57	<1
200567	<5	1.8	24	63	100	<1	6	<1	60	<1
200568	<5	0.8	156	54	30	<1	37	<1	36	<1
*Rep 200568	<5	0.9	159	64	30	<1	38	<1	38	<1
200569	12	<0.5	81	275	30	<1	17	<1	20	<1
200570	7	<0.5	146	336	40	<1	29	<1	41	<1
200571	8	<0.5	138	345	40	<1	29	<1	45	<1
200572	<5	0.7	245	65	40	<1	55	<1	59	<1
200573	<5	1.1	88	103	40	<1	23	<1	23	<1
200574	<5	0.5	111	62	50	<1	25	<1	76	<1
200575	<5	1.1	183	48	100	<1	43	<1	92	<1
200576	<5	<0.5	243	303	20	<1	55	<1	158	<1
200577	<5	<0.5	145	69	110	<1	36	<1	62	<1
200578	<5	0.9	14	141	70	<1	3	<1	105	<1
*Std MMISRM16	39	<0.5	23	204	130	20	5	<1	291	<1
*Std MMISRM16	46	<0.5	18	241	130	25	4	<1	313	<1
*Blk BLANK	<5	<0.5	<1	8	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

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Element Method Det.Lim. Units	Sc MMI-M5 5 PPB	Sm MMI-M5 1 PPB	Sn MMI-M5 1 PPB	Sr MMI-M5 10 PPB	Ta MMI-M5 1 PPB	Tb MMI-M5 1 PPB	Te MMI-M5 10 PPB	Th MMI-M5 0.5 PPB	Ti MMI-M5 3 PPB	Tl MMI-M5 0.5 PPB
200451	14	7	<1	2190	<1	1	<10	10.7	196	<0.5
*Rep 200451	14	7	<1	2180	<1	1	<10	10.1	196	<0.5
200452	63	20	<1	1720	<1	4	<10	37.3	1080	<0.5
200454	7	5	<1	6640	<1	5	<10	<0.5	<3	<0.5
200457	31	21	<1	3160	<1	4	<10	16.1	41	<0.5
200458	23	20	<1	1500	<1	5	<10	5.0	156	<0.5
200459	65	10	<1	1410	<1	3	<10	23.1	279	<0.5
200460	28	14	<1	1810	<1	4	<10	5.9	103	<0.5
200463	260	116	<1	3220	<1	29	<10	32.8	65	0.6
200464	76	76	<1	1480	<1	19	<10	26.1	144	<0.5
200466	56	116	<1	2190	<1	22	<10	14.9	123	<0.5
200467	26	108	<1	3230	<1	20	<10	21.0	37	<0.5
200468	18	56	<1	2340	<1	14	<10	14.7	11	<0.5
200469	98	55	<1	2330	<1	17	<10	13.8	61	<0.5
*Rep 200469	99	53	<1	2150	<1	17	<10	13.5	58	<0.5
200470	47	112	<1	4440	<1	23	<10	11.5	54	<0.5
200471	13	81	<1	10100	<1	22	<10	3.9	6	<0.5
200472	82	99	<1	3590	<1	26	<10	13.4	150	<0.5
200473	52	72	<1	3780	<1	16	<10	9.5	96	<0.5
200474	16	7	<1	2210	<1	2	<10	6.8	85	<0.5
200475	23	57	<1	3450	<1	14	<10	5.8	23	<0.5
200476	53	85	<1	1760	<1	20	<10	7.3	55	<0.5
200477	112	121	<1	4030	<1	26	<10	14.6	40	<0.5
200478	110	179	<1	3950	<1	47	<10	16.9	144	<0.5
200501	32	5	<1	1980	<1	1	<10	10.8	507	<0.5
200502	53	25	<1	1070	<1	6	<10	25.4	1040	<0.5
200504	5	4	<1	4170	<1	<1	<10	2.0	19	<0.5
*Rep 200504	5	4	<1	4150	<1	<1	<10	1.8	19	<0.5
200505	41	9	<1	1550	<1	2	<10	12.1	573	<0.5
200506	24	27	<1	2940	<1	5	<10	14.6	45	<0.5
200507	12	9	<1	2530	<1	2	<10	11.6	395	<0.5
200508	15	8	<1	2180	<1	2	<10	12.5	490	<0.5
200509	36	42	<1	2380	<1	8	<10	31.1	317	<0.5
200510	17	85	<1	2320	<1	18	<10	12.9	43	<0.5
200511	22	96	<1	2460	<1	20	<10	15.4	43	<0.5
200512	56	107	<1	2750	<1	20	<10	18.1	175	<0.5
200513	20	68	<1	2570	<1	14	<10	16.1	39	<0.5
200514	31	11	<1	600	<1	2	<10	15.3	1260	<0.5
200515	36	142	<1	5190	<1	38	<10	20.4	18	<0.5
200516	17	131	<1	2170	<1	31	<10	16.6	7	<0.5
*Rep 200516	16	123	<1	2140	<1	30	<10	15.8	5	<0.5
200517	15	31	<1	5550	<1	8	<10	15.8	9	<0.5
200519	25	66	<1	4080	<1	13	<10	8.6	30	<0.5

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Element Method Det.Lim. Units	Sc MMI-M5 5 PPB	Sm MMI-M5 1 PPB	Sn MMI-M5 1 PPB	Sr MMI-M5 10 PPB	Ta MMI-M5 1 PPB	Tb MMI-M5 1 PPB	Te MMI-M5 10 PPB	Th MMI-M5 0.5 PPB	Ti MMI-M5 3 PPB	Tl MMI-M5 0.5 PPB
200520	64	20	<1	4660	<1	6	<10	12.0	24	<0.5
200521	10	60	<1	3510	<1	17	<10	13.1	19	<0.5
200522	22	13	<1	2720	<1	3	<10	5.6	49	<0.5
200523	44	136	<1	2030	<1	33	<10	8.3	60	<0.5
200524	86	43	<1	1810	<1	10	<10	19.1	156	<0.5
200525	18	47	<1	3970	<1	10	<10	6.2	26	<0.5
200526	37	38	<1	4510	<1	8	<10	10.0	46	<0.5
200528	31	49	<1	3140	<1	9	<10	16.7	366	<0.5
200551	31	9	<1	2120	<1	2	<10	10.9	319	<0.5
200556	6	1	<1	5870	<1	<1	<10	0.8	74	<0.5
*Rep 200556	<5	1	<1	5910	<1	<1	<10	0.7	57	<0.5
200557	25	75	<1	13300	<1	19	<10	12.7	14	<0.5
200558	29	96	<1	4410	<1	18	<10	12.3	36	<0.5
200559	34	70	<1	2400	<1	14	<10	12.8	182	<0.5
200560	35	13	<1	1620	<1	3	<10	15.8	601	<0.5
200561	43	136	<1	4980	<1	32	<10	10.6	17	<0.5
200562	24	40	<1	4120	<1	8	<10	9.0	36	<0.5
200563	30	136	<1	6460	<1	32	<10	13.1	21	<0.5
200564	6	26	<1	5320	<1	7	<10	2.9	7	<0.5
200565	12	30	<1	4970	<1	7	<10	2.2	<3	<0.5
200566	21	11	<1	2640	<1	2	<10	10.7	78	<0.5
200567	10	6	<1	2090	<1	1	<10	7.6	350	<0.5
200568	14	38	<1	2930	<1	7	<10	12.7	80	<0.5
*Rep 200568	15	39	<1	3040	<1	7	<10	13.8	88	<0.5
200569	8	31	<1	8330	<1	9	<10	6.5	11	<0.5
200570	13	51	<1	8710	<1	13	<10	7.3	7	<0.5
200571	13	46	<1	8220	<1	12	<10	6.6	10	<0.5
200572	35	73	<1	3200	<1	17	<10	5.1	26	<0.5
200573	20	22	<1	3800	<1	5	<10	10.5	62	<0.5
200574	17	31	<1	2690	<1	7	<10	5.2	43	<0.5
200575	29	48	<1	2940	<1	10	<10	7.4	94	<0.5
200576	123	72	<1	2030	<1	19	<10	21.7	70	<0.5
200577	42	37	<1	2830	<1	9	<10	14.9	91	<0.5
200578	11	4	<1	1560	<1	<1	<10	4.2	92	<0.5
*Std MMISRM16	13	7	<1	450	<1	<1	<10	28.9	<3	<0.5
*Std MMISRM16	10	5	<1	490	<1	<1	<10	30.1	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	5	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	7	<0.5

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Element Method Det.Lim. Units	U MMI-M5	W MMI-M5	Y MMI-M5	Yb MMI-M5	Zn MMI-M5	Zr MMI-M5
	1 PPB	1 PPB	5 PPB	1 PPB	20 PPB	5 PPB
200451	7	<1	33	2	60	68
*Rep 200451	7	<1	34	2	70	68
200452	17	1	84	7	660	193
200454	9	<1	188	17	<20	6
200457	10	<1	92	7	60	55
200458	16	<1	145	11	360	71
200459	10	<1	77	4	100	161
200460	15	<1	104	8	40	82
200463	31	<1	869	60	40	139
200464	15	<1	492	33	30	154
200466	20	<1	448	40	140	80
200467	43	<1	420	35	20	55
200468	62	<1	370	34	340	37
200469	40	<1	582	54	530	119
*Rep 200469	39	<1	578	51	490	115
200470	42	<1	511	42	400	64
200471	234	<1	499	52	630	30
200472	51	<1	689	63	640	90
200473	34	3	411	35	320	69
200474	8	<1	49	4	70	64
200475	129	<1	346	31	140	35
200476	21	<1	508	43	80	59
200477	25	<1	579	48	80	89
200478	82	1	1210	103	490	91
200501	5	1	41	5	4760	75
200502	19	<1	143	13	330	286
200504	28	<1	25	2	<20	11
*Rep 200504	25	<1	23	2	<20	10
200505	9	<1	61	5	900	84
200506	13	<1	109	8	40	56
200507	6	<1	43	3	20	66
200508	6	<1	37	3	60	77
200509	14	<1	162	13	30	170
200510	44	<1	417	36	70	37
200511	57	<1	474	44	60	45
200512	25	<1	408	39	40	91
200513	38	<1	312	29	40	52
200514	8	<1	55	5	50	154
200515	138	<1	1040	99	30	71
200516	200	<1	845	66	<20	37
*Rep 200516	199	<1	796	66	<20	34
200517	99	<1	227	20	30	33
200519	21	<1	301	23	170	46

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Element Method Det.Lim. Units	U MMI-M5 1 PPB	W MMI-M5 1 PPB	Y MMI-M5 5 PPB	Yb MMI-M5 1 PPB	Zn MMI-M5 20 PPB	Zr MMI-M5 5 PPB
200520	49	<1	194	20	60	51
200521	152	<1	421	44	30	28
200522	12	<1	81	7	30	45
200523	82	<1	977	87	200	78
200524	33	<1	264	24	570	107
200525	14	<1	270	19	200	38
200526	11	<1	228	14	90	74
200528	16	<1	196	15	220	71
200551	11	<1	74	6	960	116
200556	49	<1	11	1	1080	5
*Rep 200556	42	<1	10	<1	1020	<5
200557	375	<1	508	54	180	65
200558	28	<1	437	32	70	63
200559	20	<1	333	25	210	102
200560	10	<1	82	6	80	151
200561	318	<1	874	80	60	102
200562	171	<1	218	16	20	62
200563	346	<1	811	75	40	70
200564	141	<1	218	18	20	21
200565	140	<1	229	17	40	14
200566	10	<1	62	5	50	43
200567	8	<1	28	2	70	46
200568	17	<1	169	10	20	57
*Rep 200568	18	<1	170	11	30	64
200569	96	<1	246	20	110	18
200570	147	<1	332	29	100	25
200571	144	<1	338	28	110	27
200572	22	<1	403	32	60	67
200573	13	<1	99	7	120	79
200574	13	<1	197	13	90	55
200575	9	<1	301	19	80	65
200576	15	<1	554	51	170	123
200577	9	<1	272	18	70	73
200578	5	<1	25	2	1190	30
*Std MMISRM16	48	<1	14	<1	190	14
*Std MMISRM16	54	<1	12	<1	220	12
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

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Certificate of Analysis

Work Order: TO103228

To: Mammoth Geological Ltd.
Attn: Tim Henneberry
2446 Bidston Road
Mill Bay
BC V0R 2P4

Date: Oct 16, 2008

P.O. No. : Mammoth Geological; Project: Bonaparte
Project No. : DEFAULT
No. Of Samples 40
Date Submittéd Sep 15, 2008
Report Comprises Pages 1 to 11
(Inclusive of Cover Sheet)

Distribution of unused material:

STORE: 40 Soils

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

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Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 1 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
200608	14	142	<10	<0.1	9980	<1	410	6	160	42
*Rep 200608	13	145	<10	<0.1	10000	<1	400	6	156	44
200611	6	48	<10	<0.1	5930	<1	570	8	372	91
200612	19	25	<10	1.0	10000	<1	780	2	120	18
200613	8	25	<10	0.5	5880	<1	510	1	185	6
200614	18	61	<10	0.1	5630	<1	570	4	161	25
200615	15	90	<10	0.2	7880	<1	590	5	348	33
200616	6	142	<10	<0.1	2470	<1	250	8	66	77
200617	16	112	<10	0.2	5670	<1	360	3	168	23
200618	11	49	<10	0.2	8380	<1	550	4	315	18
200619	6	101	<10	<0.1	5150	<1	460	7	122	38
200621	2	194	<10	0.1	3790	<1	140	5	123	49
200623	1	104	<10	<0.1	3220	<1	510	3	474	100
200624	<1	218	<10	<0.1	2920	<1	180	5	94	79
*Rep 200624	1	208	<10	<0.1	2790	<1	190	5	91	82
200625	5	138	<10	<0.1	1950	<1	260	13	55	63
200626	10	35	<10	0.6	2780	<1	680	4	298	44
200627	10	97	<10	0.1	2890	<1	500	5	53	36
200652	63	43	<10	0.6	6980	<1	500	15	556	19
200654	17	26	<10	0.2	4000	<1	580	11	91	33
200655	20	39	<10	0.8	4680	<1	470	4	108	15
200656	19	86	<10	<0.1	7820	<1	350	5	142	16
200659	8	55	<10	0.3	7640	<1	460	2	651	15
200660	9	96	<10	<0.1	4200	<1	380	8	81	16
200661	22	12	<10	0.2	6910	<1	430	3	19	12
200662	28	18	<10	0.1	5910	<1	760	9	220	55
200663	29	17	<10	0.4	8340	<1	710	5	52	22
*Rep 200663	30	19	<10	0.3	9170	<1	680	6	52	19
200664	12	31	<10	<0.1	7350	<1	450	2	49	15
200665	16	46	<10	0.4	8150	<1	970	4	234	21
200666	12	45	<10	0.5	4400	<1	710	3	186	27
200667	15	13	<10	0.6	5900	<1	910	1	69	30
200668	17	21	<10	0.2	9140	<1	590	4	55	21
200669	13	85	<10	0.2	4020	<1	710	8	586	31
200670	5	73	<10	<0.1	2220	<1	710	8	124	29
200671	4	75	<10	0.2	2360	<1	720	4	174	32
200672	2	110	<10	0.1	3850	<1	510	4	750	69
200673	4	128	<10	0.2	5880	<1	460	2	437	97
200674	2	112	<10	0.2	3490	<1	400	3	388	106
200675	9	61	<10	0.5	2620	<1	750	5	469	17
*Rep 200675	10	63	<10	0.4	2620	<1	770	5	499	17
200676	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
200677	10	59	<10	0.1	3220	<1	660	4	29	44

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Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	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
200678	2	14	<10	<0.1	740	<1	140	1	31	8
*Std MMISRM16	15	42	10	22.9	90	<1	230	3	28	54
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

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Element Method Det.Lim. Units	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 1 PPB	Er MMI-M5 0.5 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 1 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB	Li MMI-M5 5 PPB	Mg MMI-M5 1 PPM
200608	<100	110	12	5.8	3.1	56	13	44	<5	61
*Rep 200608	<100	110	12	6.1	3.1	59	14	43	<5	62
200611	<100	770	120	76.7	27.9	61	133	207	16	217
200612	<100	660	81	49.0	16.3	25	85	84	9	178
200613	<100	580	54	28.2	16.7	36	75	143	<5	128
200614	<100	360	50	25.6	12.2	38	65	109	<5	121
200615	<100	600	154	86.0	37.8	42	181	257	8	134
200616	<100	300	32	20.6	5.4	102	25	31	<5	69
200617	<100	320	63	31.8	19.1	40	82	154	<5	55
200618	<100	530	157	83.4	48.1	31	214	318	8	126
200619	<100	150	38	19.9	10.1	52	44	85	<5	88
200621	<100	210	41	22.2	6.6	77	29	47	<5	42
200623	<100	160	76	39.5	23.7	39	96	215	<5	148
200624	<100	110	17	8.5	3.6	63	14	37	<5	60
*Rep 200624	<100	110	15	7.9	3.6	64	14	36	<5	55
200625	<100	220	28	17.2	4.6	73	23	30	<5	63
200626	<100	940	105	61.5	22.1	47	116	145	9	249
200627	<100	260	39	21.3	7.6	39	38	52	<5	85
200652	<100	1250	81	39.2	33.3	24	138	207	9	130
200654	<100	340	21	11.8	5.7	28	28	39	11	200
200655	<100	430	49	23.7	17.7	30	81	169	<5	74
200656	<100	380	22	11.3	5.6	28	30	81	<5	59
200659	<100	160	44	19.5	12.1	26	56	186	<5	114
200660	<100	250	20	11.0	5.5	36	26	50	<5	45
200661	<100	450	15	6.9	5.3	20	24	37	<5	156
200662	<100	520	45	22.3	12.3	21	59	66	<5	183
200663	<100	680	64	31.3	16.3	17	82	85	<5	184
*Rep 200663	<100	640	60	29.6	15.9	17	81	88	<5	174
200664	<100	490	22	11.0	6.5	28	31	59	<5	116
200665	<100	1050	133	83.2	27.8	27	143	159	19	219
200666	<100	1020	98	55.0	24.0	36	112	147	8	176
200667	<100	1140	62	33.2	13.0	29	66	60	10	299
200668	<100	650	52	26.5	15.1	18	73	91	<5	314
200669	<100	260	71	39.8	16.9	36	81	146	9	138
200670	<100	140	15	7.0	3.6	46	17	38	<5	113
200671	<100	190	22	10.2	5.1	53	24	56	<5	121
200672	<100	550	238	119	61.7	35	262	440	<5	121
200673	<100	170	32	16.0	9.8	40	39	170	<5	111
200674	<100	450	68	35.8	18.9	61	78	193	<5	144
200675	<100	770	223	128	51.3	31	247	275	<5	229
*Rep 200675	<100	850	237	135	55.0	31	256	315	5	230
200676	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
200677	<100	540	16	8.9	3.0	30	14	16	<5	106

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Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5									
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
200678	<100	60	10	5.3	2.7	11	13	21	<5	39
*Std MMISRM16	<100	550	3	1.0	1.4	4	6	7	<5	41
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

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Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Pt MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB
200608	<5	1.8	48	87	140	<1	13	<1	122	<1
*Rep 200608	<5	1.8	47	88	150	<1	13	<1	122	<1
200611	<5	<0.5	320	751	110	<1	73	<1	52	<1
200612	<5	<0.5	165	360	40	<1	34	<1	21	<1
200613	<5	<0.5	227	201	10	<1	51	<1	26	<1
200614	7	0.8	177	186	70	<1	40	<1	23	<1
200615	<5	0.5	448	358	70	<1	99	<1	59	<1
200616	<5	1.2	57	145	170	<1	13	<1	68	<1
200617	<5	0.8	261	87	100	<1	58	<1	76	<1
200618	<5	<0.5	608	483	50	<1	130	<1	38	<1
200619	<5	0.9	128	155	120	<1	30	<1	67	<1
200621	<5	1.9	76	89	120	<1	18	<1	58	<1
200623	<5	<0.5	301	96	60	<1	71	<1	53	<1
200624	<5	1.1	44	56	70	<1	11	<1	99	<1
*Rep 200624	<5	1.6	41	52	60	<1	10	<1	109	<1
200625	<5	0.9	51	92	80	<1	11	<1	112	<1
200626	<5	<0.5	259	459	30	<1	56	<1	20	<1
200627	<5	<0.5	86	106	110	<1	19	<1	61	<1
200652	11	<0.5	387	320	50	<1	81	<1	58	<1
200654	11	0.5	78	136	40	<1	16	<1	34	<1
200655	<5	0.5	282	93	150	<1	62	<1	34	<1
200656	<5	0.6	106	35	160	<1	26	<1	104	<1
200659	5	<0.5	206	143	50	<1	52	<1	44	<1
200660	11	1.0	78	93	100	<1	19	<1	71	<1
200661	<5	0.6	70	165	30	<1	14	<1	232	<1
200662	14	0.5	132	321	30	<1	27	<1	30	<1
200663	<5	<0.5	170	265	40	<1	34	<1	23	<1
*Rep 200663	<5	<0.5	173	259	40	<1	35	<1	26	<1
200664	<5	1.0	95	147	60	<1	21	<1	47	<1
200665	<5	<0.5	289	579	40	<1	62	<1	10	<1
200666	<5	<0.5	267	323	40	<1	56	<1	28	<1
200667	6	<0.5	125	286	<10	<1	26	<1	22	<1
200668	9	<0.5	174	174	20	<1	36	<1	40	<1
200669	<5	0.6	231	172	40	<1	56	<1	40	<1
200670	8	1.5	49	101	50	<1	12	<1	109	<1
200671	<5	1.3	71	78	40	<1	18	<1	80	<1
200672	<5	<0.5	752	243	90	<1	176	<1	60	<1
200673	<5	<0.5	157	131	80	<1	41	<1	61	<1
200674	<5	0.8	245	195	60	<1	59	<1	42	<1
200675	<5	<0.5	507	461	10	<1	108	<1	32	<1
*Rep 200675	<5	<0.5	558	495	20	<1	121	<1	34	<1
200676	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
200677	<5	0.7	25	81	70	<1	5	<1	96	<1

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Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5									
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB									
200678	<5	<0.5	35	25	<10	<1	8	<1	14	<1
*Std MMISRM16	43	<0.5	21	193	110	22	4	<1	353	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

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Element Method Det.Lim. Units	Sc MMI-M5 5 PPB	Sm MMI-M5 1 PPB	Sn MMI-M5 1 PPB	Sr MMI-M5 10 PPB	Ta MMI-M5 1 PPB	Tb MMI-M5 1 PPB	Te MMI-M5 10 PPB	Th MMI-M5 0.5 PPB	Ti MMI-M5 3 PPB	Tl MMI-M5 0.5 PPB
200608	32	12	<1	3980	<1	2	<10	12.1	195	<0.5
*Rep 200608	31	11	<1	3930	<1	2	<10	12.6	207	<0.5
200611	48	93	<1	6390	<1	22	<10	10.7	13	<0.5
200612	31	53	<1	6980	<1	15	<10	13.4	<3	<0.5
200613	32	59	<1	4150	<1	11	<10	16.1	13	<0.5
200614	36	49	<1	4800	<1	10	<10	8.5	45	<0.5
200615	103	132	<1	4870	<1	30	<10	9.2	27	<0.5
200616	62	17	<1	2470	<1	5	<10	10.0	198	<0.5
200617	55	68	<1	2420	<1	13	<10	9.3	95	<0.5
200618	31	170	<1	5060	<1	32	<10	9.7	17	<0.5
200619	30	35	<1	3400	<1	7	<10	6.3	68	<0.5
200621	43	21	<1	1440	<1	7	<10	12.0	668	<0.5
200623	68	76	<1	3830	<1	16	<10	10.1	27	<0.5
200624	28	11	<1	2140	<1	3	<10	10.6	335	<0.5
*Rep 200624	28	10	<1	2120	<1	3	<10	11.4	429	<0.5
200625	49	15	<1	1940	<1	5	<10	7.5	194	<0.5
200626	57	76	<1	3610	<1	19	<10	7.5	9	<0.5
200627	80	26	<1	2470	<1	7	<10	3.9	37	<0.5
200652	26	111	<1	5350	<1	19	<10	6.9	8	1.1
200654	12	21	<1	5570	<1	4	<10	10.4	19	<0.5
200655	20	67	<1	3090	<1	11	<10	10.4	31	<0.5
200656	29	26	<1	2650	<1	5	<10	7.4	53	<0.5
200659	71	48	<1	4230	<1	9	<10	13.2	17	<0.5
200660	23	21	<1	3140	<1	4	<10	5.3	111	<0.5
200661	11	20	<1	4360	<1	3	<10	3.2	63	<0.5
200662	14	40	<1	6460	<1	9	<10	9.7	11	<0.5
200663	15	55	<1	6870	<1	13	<10	7.3	10	<0.5
*Rep 200663	14	56	<1	6630	<1	12	<10	7.3	7	<0.5
200664	18	25	<1	3860	<1	5	<10	5.8	108	<0.5
200665	41	93	<1	7110	<1	25	<10	8.9	4	<0.5
200666	59	79	<1	5410	<1	19	<10	9.2	11	<0.5
200667	27	43	<1	7500	<1	12	<10	10.8	4	<0.5
200668	25	54	<1	7260	<1	11	<10	12.7	12	<0.5
200669	56	62	<1	3200	<1	14	<10	12.9	22	<0.5
200670	29	13	<1	2580	<1	3	<10	6.4	50	<0.5
200671	42	19	<1	2640	<1	4	<10	8.8	44	<0.5
200672	130	200	<1	4800	<1	45	<10	17.0	14	<0.5
200673	63	33	<1	4580	<1	7	<10	14.8	66	<0.5
200674	78	62	<1	3530	<1	13	<10	13.2	134	<0.5
200675	81	157	<1	5000	<1	43	<10	6.5	4	<0.5
*Rep 200675	85	173	<1	4980	<1	46	<10	6.5	5	<0.5
200676	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
200677	28	8	<1	4370	<1	3	<10	1.9	17	<0.5

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Element	Sc MMI-M5	Sm MMI-M5	Sn MMI-M5	Sr MMI-M5	Ta MMI-M5	Tb MMI-M5	Te MMI-M5	Th MMI-M5	Ti MMI-M5	Tl MMI-M5
Method	5 PPB	1 PPB	1 PPB	10 PPB	1 PPB	1 PPB	10 PPB	0.5 PPB	3 PPB	0.5 PPB
Det.Lim. Units										
200678	<5	9	<1	760	<1	2	<10	1.2	<3	<0.5
*Std MMISRM16	14	6	<1	520	<1	<1	<10	25.8	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

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Element Method Det.Lim. Units	U MMI-M5 1 PPB	W MMI-M5 1 PPB	Y MMI-M5 5 PPB	Yb MMI-M5 1 PPB	Zn MMI-M5 20 PPB	Zr MMI-M5 5 PPB
200608	7	<1	72	5	260	85
*Rep 200608	7	<1	71	5	290	86
200611	361	<1	747	65	130	55
200612	95	<1	446	41	40	45
200613	19	<1	346	20	20	55
200614	24	<1	332	20	80	74
200615	39	<1	915	66	160	81
200616	10	<1	218	16	1060	71
200617	18	<1	349	23	140	78
200618	50	<1	949	62	120	48
200619	13	<1	228	16	400	53
200621	10	<1	248	16	690	84
200623	15	<1	417	28	90	69
200624	5	<1	117	6	140	90
*Rep 200624	5	<1	101	6	150	108
200625	7	<1	194	13	1070	66
200626	23	<1	533	49	200	60
200627	13	<1	244	16	200	47
200652	167	<1	532	29	60	52
200654	119	<1	145	10	590	47
200655	15	<1	336	17	310	48
200656	15	<1	138	8	120	86
200659	19	<1	236	12	40	73
200660	84	<1	131	8	60	54
200661	10	<1	101	5	<20	23
200662	94	<1	293	17	50	33
200663	105	<1	367	23	70	29
*Rep 200663	99	<1	339	22	80	30
200664	29	<1	136	8	80	40
200665	92	<1	791	69	140	59
200666	18	<1	583	42	180	71
200667	311	<1	353	27	20	46
200668	320	<1	346	20	80	40
200669	50	<1	370	30	180	91
200670	15	<1	89	5	550	85
200671	18	<1	115	8	200	109
200672	23	<1	1250	79	80	77
200673	10	<1	211	11	60	94
200674	12	<1	378	27	360	72
200675	29	1	1260	95	160	69
*Rep 200675	30	1	1390	98	160	70
200676	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
200677	14	<1	98	7	170	43

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Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
200678	3	<1	65	4	90	12
*Std MMISRM16	44	<1	13	<1	220	15
*Blk BLANK	<1	<1	<5	<1	<20	<5

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Certificate of Analysis

Work Order: TO103413

To: Mammoth Geological Ltd.
Attn: Tim Henneberry
2446 Bidston Road
Mill Bay
BC V0R 2P4

Date: Oct 16, 2008

P.O. No. : Mammoth Geological; Project: Bonaparte
Project No. : DEFAULT
No. Of Samples 60
Date Submittéd Sep 23, 2008
Report Comprises Pages 1 to 11
(Inclusive of Cover Sheet)

Distribution of unused material:

STORE: 60 Soils

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

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Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 1 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
200379	6	81	<10	<0.1	2330	<1	380	9	894	71
*Rep 200379	7	80	<10	<0.1	2340	<1	400	10	997	66
200380	10	39	<10	<0.1	2190	<1	320	3	255	32
200381	9	15	<10	<0.1	1300	<1	690	13	54	27
200382	6	101	<10	<0.1	2580	<1	230	4	215	123
200383	11	42	<10	<0.1	3380	<1	390	3	476	45
200384	12	89	<10	<0.1	2950	<1	320	6	633	106
200385	4	93	<10	<0.1	2340	<1	240	4	118	107
200386	9	88	<10	<0.1	3530	<1	250	5	255	37
200387	17	124	<10	<0.1	2650	<1	150	4	130	40
200388	2	196	<10	<0.1	3060	<1	130	5	213	255
200389	10	58	<10	<0.1	2700	<1	490	3	219	62
200390	12	44	<10	<0.1	4170	<1	350	3	387	40
200391	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
*Rep 200391	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
200392	12	39	<10	<0.1	5060	<1	340	2	262	44
200393	18	45	<10	<0.1	3420	<1	430	7	125	17
200013	2	12	<10	0.2	2710	<1	550	<1	115	15
200014	1	144	<10	<0.1	3000	<1	290	3	225	96
200015	8	41	<10	<0.1	2140	<1	500	5	192	34
200016	2	82	<10	<0.1	6360	<1	260	2	219	66
200027	4	8	<10	0.2	1550	<1	400	<1	52	14
200028	5	56	<10	<0.1	2740	<1	370	3	238	17
200029	3	78	<10	<0.1	3220	<1	290	2	229	37
200030	5	97	<10	<0.1	2150	<1	320	4	255	53
200031	7	88	<10	<0.1	3120	<1	430	4	469	111
200032	8	58	<10	0.1	3420	<1	480	2	379	36
*Rep 200032	8	61	<10	0.3	3640	<1	490	2	367	43
200033	14	69	<10	<0.1	2420	<1	550	5	618	52
200034	11	83	<10	<0.1	2840	<1	420	9	265	79
200035	13	65	<10	<0.1	2430	<1	420	4	220	68
200037	1	25	<10	<0.1	1180	<1	450	29	129	94
200038	28	183	<10	<0.1	3080	<1	250	12	145	42
200039	10	81	<10	<0.1	3010	<1	390	4	393	50
200040	5	44	<10	<0.1	2350	<1	360	10	221	30
200041	25	12	<10	0.2	1630	<1	570	10	71	67
200042	28	16	<10	<0.1	1640	<1	600	16	96	36
200043	9	59	<10	<0.1	3260	<1	300	4	450	38
200045	25	19	<10	<0.1	3590	<1	1020	23	53	98
200132	<1	117	<10	<0.1	6140	<1	230	<1	212	121
*Rep 200132	<1	118	<10	<0.1	6440	<1	260	<1	157	123
200133	2	121	<10	<0.1	3790	<1	230	3	342	68
200134	<1	>300	<10	<0.1	5750	<1	140	3	410	166

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Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 1 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
200135	1	122	<10	<0.1	5090	<1	340	1	790	124
200136	<1	199	<10	<0.1	3750	<1	240	1	1360	255
200137	<1	123	<10	<0.1	4980	<1	260	2	221	70
200138	<1	>300	<10	<0.1	3000	<1	180	5	184	94
200139	<1	102	<10	<0.1	3700	<1	270	3	201	42
200140	<1	>300	<10	<0.1	1630	<1	90	5	148	140
200141	1	169	<10	<0.1	3500	<1	330	2	264	122
200142	<1	>300	<10	<0.1	1180	<1	70	4	53	177
200147	10	44	<10	<0.1	2700	<1	460	5	237	17
200149	8	65	<10	<0.1	2000	<1	460	19	354	20
*Rep 200149	8	70	<10	<0.1	1940	<1	450	22	304	27
200150	10	42	<10	<0.1	1710	<1	460	3	113	34
200851	4	64	<10	<0.1	1920	<1	360	2	223	190
200852	10	55	<10	<0.1	1400	<1	400	3	211	16
200853	5	116	<10	<0.1	3640	<1	360	4	116	73
200854	3	61	<10	<0.1	1350	<1	330	4	194	52
200855	12	68	<10	<0.1	2430	<1	440	2	458	70
200856	9	75	<10	<0.1	1970	<1	400	3	257	86
200857	22	220	<10	<0.1	1960	<1	170	9	131	87
200858	14	49	<10	0.1	2420	<1	430	6	152	63
200859	3	151	<10	<0.1	1600	<1	230	7	334	224
200860	3	146	<10	<0.1	1930	<1	340	9	144	200
*Std MMISRM16	17	40	10	29.0	90	<1	240	4	26	62
*Std MMISRM16	18	42	10	29.0	80	<1	250	4	26	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

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Element Method Det.Lim. Units	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 1 PPB	Er MMI-M5 0.5 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 1 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB	Li MMI-M5 5 PPB	Mg MMI-M5 1 PPM
200379	100	320	163	88.4	41.9	44	165	245	<5	120
*Rep 200379	100	320	159	85.0	43.1	41	166	265	<5	125
200380	200	370	52	25.0	19.6	33	72	172	<5	99
200381	100	380	70	38.7	18.1	14	83	54	7	189
200382	200	190	29	15.0	9.9	91	36	87	<5	61
200383	300	610	71	33.3	29.8	30	119	198	<5	80
200384	<100	350	83	40.1	29.2	43	111	247	<5	98
200385	<100	260	11	5.1	4.0	77	15	54	<5	61
200386	<100	210	31	14.3	13.1	64	45	140	<5	56
200387	<100	180	12	5.7	4.5	69	16	55	<5	19
200388	<100	140	18	9.4	6.4	172	23	78	<5	35
200389	<100	310	36	17.8	13.7	46	50	112	<5	143
200390	<100	820	48	23.1	17.5	49	63	148	<5	111
200391	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
*Rep 200391	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
200392	<100	1020	40	20.1	14.9	53	55	135	<5	111
200393	<100	440	33	17.1	10.9	25	42	78	<5	182
200013	<100	790	30	14.4	12.8	21	45	81	7	247
200014	<100	270	44	24.2	13.7	89	47	113	<5	101
200015	<100	510	57	31.1	19.7	42	75	147	<5	183
200016	<100	290	22	10.8	8.8	53	32	108	<5	117
200027	<100	510	26	11.9	10.6	11	39	46	<5	281
200028	<100	280	44	20.5	17.2	31	62	153	<5	134
200029	<100	230	24	11.5	10.0	50	33	121	<5	98
200030	<100	320	88	42.8	25.8	44	100	182	<5	84
200031	<100	480	69	35.3	26.1	67	91	195	<5	134
200032	<100	460	43	20.0	18.0	33	62	174	<5	163
*Rep 200032	<100	480	45	21.1	17.7	34	62	165	<5	161
200033	<100	550	117	62.4	37.1	64	141	233	6	222
200034	<100	480	86	45.7	30.2	77	113	198	<5	137
200035	<100	340	36	18.1	13.6	41	50	128	5	157
200037	<100	270	18	11.3	5.6	23	23	37	11	172
200038	<100	150	20	10.2	6.0	53	23	71	<5	41
200039	<100	370	42	20.5	16.7	52	60	171	<5	127
200040	<100	220	29	13.4	11.3	29	43	109	<5	135
200041	<100	610	42	21.2	12.6	12	56	55	10	309
200042	<100	780	74	36.4	22.1	12	103	101	11	334
200043	<100	380	52	24.0	22.1	41	78	207	<5	97
200045	<100	480	27	16.1	6.8	14	30	16	91	186
200132	<100	980	319	251	31.0	118	135	68	<5	166
*Rep 200132	<100	980	290	255	22.3	126	102	51	<5	182
200133	<100	420	27	13.1	10.7	61	38	162	<5	67
200134	<100	410	109	58.3	23.5	61	93	171	<5	66

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200135	<100	490	93	44.9	32.8	61	123	382	<5	160
200136	<100	470	262	138	75.2	99	289	582	<5	112
200137	<100	270	15	6.5	6.0	44	21	104	<5	63
200138	<100	170	21	11.2	6.5	76	23	79	<5	44
200139	<100	220	13	5.5	5.2	48	19	91	<5	57
200140	<100	210	23	13.3	5.4	60	20	47	<5	26
200141	<100	330	73	43.5	18.0	102	70	138	<5	141
200142	<100	140	9	4.9	2.3	137	8	19	<5	28
200147	<100	210	22	10.0	8.8	34	34	115	<5	148
200149	<100	640	153	82.3	45.8	33	187	280	7	204
*Rep 200149	<100	680	153	89.1	40.7	33	172	232	6	198
200150	<100	290	35	17.0	13.4	26	51	101	<5	137
200851	<100	490	26	13.1	9.7	72	34	105	<5	135
200852	<100	350	55	27.5	19.3	38	70	143	<5	181
200853	<100	180	22	11.6	7.3	67	26	62	<5	106
200854	<100	460	71	36.8	24.5	44	85	131	<5	116
200855	<100	850	160	87.0	44.1	79	174	277	<5	198
200856	<100	290	43	21.6	15.5	56	58	149	<5	144
200857	<100	420	30	16.3	9.4	107	34	73	<5	44
200858	<100	450	30	14.9	11.1	48	43	106	<5	161
200859	<100	490	60	30.9	20.2	86	75	151	<5	64
200860	<100	210	22	12.0	6.4	92	25	66	<5	154
*Std MMISRM16	<100	540	2	0.9	1.3	3	5	6	<5	43
*Std MMISRM16	<100	540	3	0.9	1.3	3	5	6	<5	45
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

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Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Pt MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB
200379	<5	<0.5	404	336	30	<1	97	<1	47	<1
*Rep 200379	<5	<0.5	434	333	30	<1	104	<1	47	<1
200380	<5	<0.5	248	130	10	<1	61	<1	35	<1
200381	9	<0.5	136	1250	<10	<1	26	<1	10	<1
200382	<5	1.6	123	168	30	<1	30	<1	42	<1
200383	7	<0.5	337	184	<10	1	80	<1	52	<1
200384	6	0.8	390	205	40	<1	97	<1	92	<1
200385	15	2.0	60	125	50	<1	16	<1	71	<1
200386	6	2.6	180	99	20	<1	45	<1	130	<1
200387	7	4.1	63	47	100	<1	17	<1	146	<1
200388	9	7.8	87	168	110	<1	23	<1	81	<1
200389	5	0.8	170	157	10	<1	40	<1	38	<1
200390	<5	0.9	219	173	<10	<1	51	<1	86	<1
200391	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
*Rep 200391	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
200392	<5	0.9	190	140	<10	<1	45	<1	90	<1
200393	<5	<0.5	131	205	10	<1	30	<1	64	<1
200013	<5	<0.5	136	216	<10	<1	30	<1	30	<1
200014	<5	1.8	144	178	30	<1	36	<1	127	<1
200015	<5	0.6	225	226	20	<1	51	<1	33	<1
200016	<5	1.4	126	94	20	<1	32	<1	93	<1
200027	<5	<0.5	103	145	<10	<1	21	<1	20	<1
200028	<5	<0.5	214	92	<10	<1	51	<1	86	<1
200029	<5	1.9	135	96	10	<1	35	<1	97	<1
200030	<5	0.8	287	146	30	<1	69	<1	88	<1
200031	<5	0.9	304	345	20	<1	71	<1	74	<1
200032	<5	<0.5	230	187	<10	<1	56	<1	67	<1
*Rep 200032	<5	<0.5	220	192	<10	<1	52	<1	68	<1
200033	<5	<0.5	390	566	10	<1	91	<1	38	<1
200034	<5	1.0	341	266	30	<1	79	<1	98	<1
200035	<5	0.6	179	165	<10	<1	43	<1	49	<1
200037	8	1.1	67	475	10	<1	15	<1	30	<1
200038	6	1.2	75	98	90	<1	19	<1	99	<1
200039	5	0.9	220	199	20	<1	54	<1	69	<1
200040	6	0.7	161	107	20	<1	39	<1	43	<1
200041	6	<0.5	121	350	<10	<1	24	<1	41	<1
200042	<5	<0.5	212	498	20	<1	43	<1	41	<1
200043	<5	1.1	304	145	<10	<1	78	<1	60	<1
200045	32	<0.5	49	479	20	<1	9	<1	35	<1
200132	<5	<0.5	226	267	50	<1	43	<1	87	<1
*Rep 200132	<5	<0.5	159	270	30	<1	31	<1	93	<1
200133	5	2.1	168	102	50	<1	45	<1	125	<1
200134	<5	2.8	287	109	140	1	68	<1	101	<1

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Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Pt MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB
	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Pt MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB
200135	<5	0.8	476	195	20	<1	124	<1	73	<1
200136	<5	2.3	925	222	50	1	200	<1	68	<1
200137	<5	2.0	97	61	80	<1	26	<1	152	<1
200138	<5	3.9	85	138	140	1	22	<1	120	<1
200139	<5	2.2	83	63	60	<1	22	<1	101	<1
200140	<5	2.1	65	107	160	<1	16	<1	202	<1
200141	<5	0.8	200	409	30	<1	46	<1	63	<1
200142	7	5.1	26	101	150	<1	6	<1	112	<1
200147	<5	0.5	137	120	<10	<1	35	<1	36	<1
200149	<5	<0.5	494	500	50	<1	115	<1	55	<1
*Rep 200149	<5	<0.5	416	526	60	<1	97	<1	57	<1
200150	7	<0.5	163	170	20	<1	37	<1	32	<1
200851	<5	1.2	133	235	<10	<1	34	<1	105	<1
200852	<5	<0.5	211	260	<10	<1	50	<1	41	<1
200853	9	1.2	83	100	50	<1	19	<1	120	<1
200854	<5	1.6	240	124	20	<1	54	<1	56	<1
200855	<5	<0.5	457	397	30	<1	109	<1	55	<1
200856	6	1.0	198	180	30	<1	49	<1	21	<1
200857	8	3.8	109	115	90	<1	26	<1	123	<1
200858	9	0.9	149	134	10	<1	36	<1	24	<1
200859	12	2.4	246	204	100	<1	59	<1	67	<1
200860	<5	1.1	81	202	30	<1	20	<1	68	<1
*Std MMISRM16	42	<0.5	19	194	120	23	4	<1	350	<1
*Std MMISRM16	42	<0.5	18	199	120	22	4	<1	345	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

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Element Method Det.Lim. Units	Sc MMI-M5 5 PPB	Sm MMI-M5 1 PPB	Sn MMI-M5 1 PPB	Sr MMI-M5 10 PPB	Ta MMI-M5 1 PPB	Tb MMI-M5 1 PPB	Te MMI-M5 10 PPB	Th MMI-M5 0.5 PPB	Ti MMI-M5 3 PPB	Tl MMI-M5 0.5 PPB
200379	95	118	<1	2590	<1	31	<10	23.7	22	<0.5
*Rep 200379	93	122	<1	2610	<1	32	<10	23.6	21	<0.5
200380	27	59	<1	2210	<1	12	<10	12.8	54	<0.5
200381	18	51	<1	2280	<1	14	<10	6.3	10	<0.5
200382	37	29	<1	1670	<1	6	<10	15.1	391	<0.5
200383	49	89	<1	2130	<1	18	<10	12.8	43	<0.5
200384	45	94	<1	1960	<1	18	<10	19.1	136	<0.5
200385	23	13	<1	1430	<1	2	<10	10.7	551	<0.5
200386	34	42	<1	1760	<1	7	<10	13.8	739	<0.5
200387	30	14	<1	820	<1	3	<10	13.9	1160	<0.5
200388	47	20	<1	1010	<1	4	<10	24.6	2080	<0.5
200389	31	42	<1	3420	<1	8	<10	11.3	47	<0.5
200390	52	54	<1	2710	<1	11	<10	11.0	86	<0.5
200391	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
*Rep 200391	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
200392	50	46	<1	2780	<1	9	<10	11.8	103	<0.5
200393	23	34	<1	2150	<1	7	<10	6.9	18	<0.5
200013	25	35	<1	3820	<1	7	<10	7.8	7	<0.5
200014	68	38	<1	2160	<1	9	<10	18.9	504	<0.5
200015	40	60	<1	3490	<1	12	<10	12.1	35	<0.5
200016	25	28	<1	2080	<1	5	<10	13.4	364	<0.5
200027	16	31	<1	2210	<1	6	<10	5.7	7	<0.5
200028	34	50	<1	2900	<1	10	<10	10.6	31	<0.5
200029	37	30	<1	2060	<1	5	<10	12.7	599	<0.5
200030	57	76	<1	2210	<1	18	<10	10.8	171	<0.5
200031	56	76	<1	3150	<1	15	<10	13.9	84	<0.5
200032	29	54	<1	3370	<1	10	<10	13.3	20	<0.5
*Rep 200032	32	53	<1	3560	<1	10	<10	12.7	20	<0.5
200033	93	108	<1	3820	<1	24	<10	14.5	23	<0.5
200034	62	90	<1	3130	<1	18	<10	9.7	108	<0.5
200035	25	43	<1	2750	<1	8	<10	11.7	53	<0.5
200037	11	17	<1	1800	<1	4	<10	4.3	16	<0.5
200038	46	18	<1	1590	<1	4	<10	14.0	273	<0.5
200039	39	52	<1	2840	<1	10	<10	16.8	223	<0.5
200040	18	38	<1	1510	<1	7	<10	9.5	118	<0.5
200041	12	40	<1	2000	<1	9	<10	12.2	11	<0.5
200042	11	70	<1	2070	<1	16	<10	11.0	10	<0.5
200043	36	70	<1	2130	<1	12	<10	13.7	337	<0.5
200045	22	19	<1	2850	<1	5	<10	7.1	11	<0.5
200132	291	79	<1	3850	<1	41	<10	20.2	17	1.1
*Rep 200132	282	57	<1	4080	<1	33	<10	19.3	15	1.1
200133	53	35	<1	1510	<1	6	<10	16.3	818	<0.5
200134	134	71	<1	1750	<1	20	<10	27.7	1190	0.6

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Element Method Det.Lim. Units	Sc MMI-M5 5 PPB	Sm MMI-M5 1 PPB	Sn MMI-M5 1 PPB	Sr MMI-M5 10 PPB	Ta MMI-M5 1 PPB	Tb MMI-M5 1 PPB	Te MMI-M5 10 PPB	Th MMI-M5 0.5 PPB	Ti MMI-M5 3 PPB	Tl MMI-M5 0.5 PPB
200135	102	107	<1	2810	<1	21	<10	22.1	279	<0.5
200136	265	236	<1	2620	<1	53	<10	43.5	930	<0.5
200137	29	20	<1	1880	<1	3	<10	14.6	552	<0.5
200138	45	20	<1	1120	<1	4	<10	28.2	1470	<0.5
200139	25	17	<1	1930	<1	3	<10	13.3	561	<0.5
200140	43	16	<1	580	<1	4	<10	20.0	878	<0.5
200141	97	53	<1	2740	<1	13	<10	17.8	254	<0.5
200142	33	7	<1	380	<1	2	<10	16.7	2070	<0.5
200147	17	30	<1	2260	<1	5	<10	15.3	58	<0.5
200149	64	143	<1	2290	<1	32	<10	13.6	23	<0.5
*Rep 200149	70	124	<1	2230	<1	30	<10	14.3	25	<0.5
200150	18	43	<1	1910	<1	8	<10	9.5	25	<0.5
200851	47	30	<1	1930	<1	5	<10	15.2	148	<0.5
200852	43	56	<1	2270	<1	12	<10	8.3	32	<0.5
200853	37	21	<1	2680	<1	5	<10	7.3	201	<0.5
200854	64	68	<1	1650	<1	14	<10	9.8	142	<0.5
200855	114	128	<1	2430	<1	31	<10	15.8	30	<0.5
200856	30	49	<1	1570	<1	9	<10	8.0	130	<0.5
200857	55	29	<1	980	<1	6	<10	17.9	1120	<0.5
200858	22	36	<1	1950	<1	7	<10	14.8	123	<0.5
200859	69	63	<1	1070	<1	13	<10	17.4	818	<0.5
200860	37	20	<1	1910	<1	4	<10	13.5	145	<0.5
*Std MMISRM16	13	5	<1	520	<1	<1	<10	24.5	6	<0.5
*Std MMISRM16	13	5	<1	510	<1	<1	<10	24.3	7	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	5	<0.5

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Element Method Det.Lim. Units	U MMI-M5 1 PPB	W MMI-M5 1 PPB	Y MMI-M5 5 PPB	Yb MMI-M5 1 PPB	Zn MMI-M5 20 PPB	Zr MMI-M5 5 PPB
200379	57	<1	745	69	240	58
*Rep 200379	55	<1	733	66	220	59
200380	21	<1	245	21	60	48
200381	77	<1	362	33	30	18
200382	11	<1	141	13	140	64
200383	43	<1	316	30	40	56
200384	32	<1	377	33	70	78
200385	7	<1	54	5	80	51
200386	11	<1	158	12	360	116
200387	9	<1	57	5	50	135
200388	9	1	94	9	170	126
200389	15	<1	192	16	70	54
200390	16	<1	237	19	60	111
200391	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
*Rep 200391	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
200392	15	<1	218	16	40	120
200393	18	<1	190	15	120	42
200013	11	<1	150	12	<20	35
200014	13	<1	224	21	460	140
200015	24	<1	340	29	350	58
200016	10	<1	128	9	80	105
200027	54	<1	147	10	<20	24
200028	10	<1	222	16	30	69
200029	8	<1	128	9	200	103
200030	12	<1	438	32	70	71
200031	20	<1	330	30	340	88
200032	20	<1	236	15	70	66
*Rep 200032	20	<1	241	16	70	69
200033	45	<1	619	52	120	89
200034	23	<1	455	40	330	79
200035	22	<1	206	15	220	63
200037	124	<1	107	11	3100	19
200038	10	<1	122	8	390	104
200039	17	<1	216	17	250	78
200040	47	<1	165	11	280	42
200041	50	<1	226	18	30	33
200042	66	<1	392	30	50	28
200043	11	<1	240	19	90	69
200045	42	<1	176	15	110	26
200132	30	2	1660	223	70	116
*Rep 200132	29	2	1500	233	70	105
200133	9	<1	148	11	150	125
200134	18	<1	572	46	200	229

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Element Method Det.Lim. Units	U MMI-M5	W MMI-M5	Y MMI-M5	Yb MMI-M5	Zn MMI-M5	Zr MMI-M5
	1 PPB	1 PPB	5 PPB	1 PPB	20 PPB	5 PPB
200135	18	<1	458	36	50	152
200136	28	1	1330	109	280	233
200137	6	<1	83	5	90	124
200138	9	<1	126	10	270	198
200139	8	<1	71	5	100	111
200140	7	<1	134	12	350	155
200141	12	<1	404	38	240	108
200142	6	<1	46	4	400	98
200147	25	<1	121	9	100	46
200149	119	<1	848	66	170	58
*Rep 200149	123	<1	812	74	190	61
200150	17	<1	195	14	40	40
200851	17	<1	137	11	110	98
200852	13	<1	279	22	110	65
200853	6	<1	129	10	170	69
200854	14	<1	328	32	200	110
200855	38	<1	816	67	40	72
200856	17	<1	229	18	170	45
200857	11	<1	175	14	170	176
200858	38	<1	164	13	160	67
200859	18	<1	256	27	180	83
200860	10	<1	127	11	170	85
*Std MMISRM16	45	<1	11	<1	190	15
*Std MMISRM16	44	<1	11	<1	180	15
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

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Certificate of Analysis

Work Order: TO103414

To: Mammoth Geological Ltd.
Attn: Tim Henneberry
2446 Bidston Road
Mill Bay
BC V0R 2P4

Date: Oct 16, 2008

P.O. No. : Mammoth Geological; Project: Bonaparte
Project No. : DEFAULT
No. Of Samples 57
Date Submittéd Sep 23, 2008
Report Comprises Pages 1 to 11
(Inclusive of Cover Sheet)

Distribution of unused material:

STORE: 57 Soils

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

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Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 1 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
200180	6	105	<10	<0.1	3030	<1	530	2	186	82
*Rep 200180	7	102	<10	0.1	3260	<1	550	2	184	83
200181	14	137	<10	<0.1	3820	<1	520	3	104	71
200182	7	116	<10	<0.1	1510	<1	320	4	252	45
200183	14	82	<10	<0.1	2640	<1	510	10	159	28
200184	<1	124	<10	<0.1	8500	<1	480	2	652	28
200185	<1	140	<10	<0.1	4430	<1	540	3	630	59
200186	8	49	<10	<0.1	1790	<1	450	6	178	18
200187	3	30	<10	<0.1	1270	<1	380	1	147	19
200190	7	169	<10	<0.1	4480	<1	260	6	214	50
200191	7	35	<10	<0.1	1990	<1	450	3	79	28
200192	5	85	<10	<0.1	2140	<1	520	4	233	98
200193	2	164	<10	<0.1	1410	<1	210	3	121	131
200194	5	179	<10	<0.1	2690	<1	170	4	82	48
*Rep 200194	4	190	<10	<0.1	2900	<1	170	4	72	65
200195	3	170	<10	<0.1	2740	<1	150	5	90	43
200197	3	98	<10	<0.1	2270	<1	490	3	285	124
200199	4	98	<10	<0.1	1800	<1	480	5	254	69
200200	3	95	<10	<0.1	3130	<1	410	4	200	34
200279	4	102	<10	<0.1	3330	<1	460	4	364	35
200280	11	70	<10	<0.1	3020	<1	420	8	154	19
200281	33	68	<10	<0.1	4690	<1	870	22	530	24
200282	21	36	<10	<0.1	2700	<1	660	7	240	110
200283	20	34	<10	0.1	3040	<1	710	7	428	104
200284	25	25	<10	0.1	2860	<1	670	9	422	123
200285	10	101	<10	<0.1	1880	<1	430	11	287	74
200286	11	97	<10	<0.1	2520	<1	470	3	242	54
*Rep 200286	11	109	<10	0.1	2620	<1	500	4	244	59
200287	8	153	<10	<0.1	4470	<1	340	5	239	76
200078	<1	150	<10	<0.1	11500	<1	460	2	970	64
200079	2	219	<10	<0.1	3870	<1	330	3	445	40
200080	7	55	<10	<0.1	2740	<1	450	3	385	29
200081	7	185	<10	<0.1	2980	<1	300	4	160	69
200082	11	102	<10	0.1	2150	<1	270	2	247	38
200083	11	43	<10	0.1	1010	<1	360	3	135	9
200084	8	33	<10	<0.1	860	<1	820	10	88	20
200085	4	11	<10	<0.1	1830	<1	680	2	56	54
200086	<1	25	<10	<0.1	1640	<1	670	2	144	35
200087	<1	100	<10	<0.1	2070	<1	510	3	138	88
200089	1	106	<10	<0.1	1350	<1	530	3	403	44
*Rep 200089	1	102	<10	<0.1	1370	<1	530	3	372	41
200090	18	16	<10	<0.1	1500	<1	680	11	7	36
200091	17	34	<10	<0.1	2310	<1	740	12	72	33

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Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 1 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
200092	11	108	<10	<0.1	1690	<1	460	15	474	60
200093	24	17	<10	<0.1	220	<1	470	34	<5	44
200094	19	35	<10	<0.1	2660	<1	610	6	173	35
200095	34	11	<10	0.1	410	<1	530	5	10	22
200096	5	251	<10	<0.1	2490	<1	100	6	57	70
200097	12	62	<10	<0.1	3700	<1	540	5	58	38
200098	12	47	<10	<0.1	2770	<1	390	2	146	28
200099	27	4	<10	0.1	780	<1	480	15	<5	17
200100	8	33	<10	0.1	2750	<1	390	1	121	24
200412	1	42	<10	<0.1	2010	<1	660	2	143	18
*Rep 200412	1	45	<10	<0.1	1900	<1	650	2	139	18
200413	2	155	<10	<0.1	4650	<1	580	4	366	78
200414	6	219	<10	<0.1	1170	<1	170	5	47	44
200415	7	207	<10	<0.1	1020	<1	180	4	68	33
200416	9	123	<10	<0.1	2300	<1	340	4	128	62
200417	2	63	<10	<0.1	1230	<1	520	17	143	47
200418	15	63	<10	<0.1	3810	<1	600	4	65	42
200419	4	140	<10	<0.1	2730	<1	440	16	300	106
200420	25	20	<10	<0.1	1470	<1	640	5	6	11
*Std MMISRM16	18	70	20	28.6	80	<1	260	4	24	68
*Std MMISRM16	19	72	20	27.7	80	<1	270	4	19	70
*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

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Element Method Det.Lim. Units	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 1 PPB	Er MMI-M5 0.5 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 1 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB	Li MMI-M5 5 PPB	Mg MMI-M5 1 PPM
200180	<100	220	29	15.1	8.7	46	33	81	<5	178
*Rep 200180	<100	220	27	13.7	8.3	44	34	79	<5	176
200181	<100	220	23	12.9	7.4	70	28	51	<5	161
200182	<100	240	33	16.4	11.3	56	46	89	<5	89
200183	<100	540	109	53.4	30.8	20	132	173	<5	343
200184	<100	280	67	35.0	20.2	22	87	181	<5	114
200185	<100	220	111	58.7	33.6	52	137	233	<5	159
200186	<100	460	51	27.2	15.7	24	70	109	9	145
200187	<100	370	29	13.7	10.3	25	43	76	<5	117
200190	<100	530	62	32.8	17.2	69	65	112	<5	100
200191	<100	330	19	9.5	6.1	29	25	41	<5	212
200192	<100	220	42	21.3	13.5	39	55	105	<5	162
200193	<100	170	17	7.9	5.5	101	21	58	<5	59
200194	<100	210	19	11.3	4.2	43	18	35	<5	45
*Rep 200194	<100	220	19	12.2	3.9	55	16	30	<5	48
200195	<100	210	25	15.2	4.3	46	19	37	<5	42
200197	<100	490	86	48.3	20.7	52	89	140	<5	245
200199	<100	220	44	19.6	14.6	50	57	111	<5	137
200200	<100	410	45	25.7	14.8	46	56	90	<5	140
200279	<100	260	65	32.8	21.1	48	90	189	<5	117
200280	<100	350	44	21.1	14.6	41	65	126	5	115
200281	<100	820	132	78.5	30.8	39	151	171	16	239
200282	<100	530	37	18.6	10.6	18	45	57	<5	240
200283	<100	1710	82	46.8	21.0	20	104	92	26	214
200284	<100	1950	63	35.2	17.2	17	81	71	31	199
200285	<100	280	34	15.8	10.7	75	47	140	<5	81
200286	<100	280	33	15.6	11.6	63	45	117	<5	114
*Rep 200286	<100	330	35	17.7	12.2	71	49	116	<5	122
200287	<100	210	32	13.8	11.7	92	46	157	5	81
200078	<100	270	103	53.7	27.2	22	121	433	<5	148
200079	<100	140	33	15.0	8.9	41	37	184	<5	96
200080	<100	290	42	20.9	15.2	50	64	147	5	101
200081	<100	230	25	12.7	8.5	70	31	71	<5	69
200082	<100	270	34	15.3	11.6	79	45	117	<5	85
200083	<100	310	22	9.4	7.3	28	31	61	5	151
200084	<100	630	72	40.7	15.4	19	77	66	<5	403
200085	<100	920	25	13.7	8.4	26	35	46	<5	270
200086	<100	250	25	11.9	7.3	29	32	53	<5	302
200087	<100	210	20	10.5	7.0	55	27	60	<5	159
200089	<100	240	70	32.0	23.6	49	94	182	<5	113
*Rep 200089	<100	220	69	32.0	22.1	48	86	168	<5	115
200090	<100	440	21	10.5	5.4	9	28	16	<5	145
200091	<100	390	62	33.5	17.4	17	75	70	6	335

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Element Method Det.Lim. Units	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 1 PPB	Er MMI-M5 0.5 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 1 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB	Li MMI-M5 5 PPB	Mg MMI-M5 1 PPM
200092	<100	430	100	51.4	32.6	48	134	227	6	172
200093	<100	350	8	6.0	0.7	4	5	<1	23	343
200094	<100	720	69	35.7	20.8	30	93	135	8	274
200095	<100	680	9	7.0	1.1	8	6	1	20	275
200096	<100	160	14	8.7	3.6	100	14	29	<5	14
200097	<100	250	21	9.8	6.9	29	30	57	10	159
200098	<100	230	17	8.2	6.4	57	26	77	<5	114
200099	<100	610	35	41.8	3.5	2	18	8	13	384
200100	<100	220	15	7.0	5.4	44	22	63	<5	110
200412	<100	230	45	24.0	16.4	21	67	104	<5	225
*Rep 200412	<100	240	48	24.4	16.9	21	67	104	<5	225
200413	<100	240	29	14.4	10.7	52	38	111	<5	140
200414	<100	190	15	9.7	2.9	90	13	24	<5	43
200415	<100	170	16	9.1	3.9	78	17	33	<5	40
200416	<100	190	14	7.2	5.1	82	19	64	<5	87
200417	<100	280	39	22.4	11.2	26	48	80	<5	268
200418	<100	370	21	10.0	6.9	38	28	59	6	138
200419	<100	480	60	32.5	16.2	117	70	127	9	97
200420	<100	1290	24	14.0	5.8	9	28	11	16	281
*Std MMISRM16	<100	690	3	1.1	1.4	3	7	8	<5	45
*Std MMISRM16	<100	720	3	1.3	1.4	3	7	7	<5	48
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

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Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Pt MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB
200180	9	0.9	101	158	40	<1	23	<1	54	<1
*Rep 200180	9	0.7	98	147	40	<1	22	<1	54	<1
200181	10	0.7	83	150	20	<1	17	<1	55	<1
200182	18	1.8	141	158	50	1	31	<1	85	<1
200183	5	<0.5	334	315	20	<1	66	<1	44	<1
200184	<5	<0.5	290	61	30	<1	62	<1	88	<1
200185	<5	<0.5	422	244	30	<1	89	<1	55	<1
200186	7	<0.5	203	208	<10	<1	41	<1	27	<1
200187	6	<0.5	142	112	<10	<1	29	<1	27	<1
200190	<5	2.0	186	114	70	1	40	<1	97	<1
200191	<5	<0.5	74	163	<10	<1	15	<1	46	<1
200192	6	0.6	172	155	<10	<1	35	<1	38	<1
200193	5	2.5	73	96	60	<1	18	<1	86	<1
200194	<5	0.7	50	54	90	<1	11	<1	162	<1
*Rep 200194	<5	0.7	43	62	100	<1	10	<1	170	<1
200195	<5	0.7	56	55	120	1	12	<1	184	<1
200197	<5	<0.5	221	381	10	<1	48	<1	133	<1
200199	<5	0.7	181	178	10	<1	39	<1	59	<1
200200	<5	0.7	168	170	10	<1	33	<1	102	<1
200279	<5	0.5	298	136	10	<1	63	<1	62	<1
200280	<5	1.0	211	146	20	<1	44	<1	38	<1
200281	10	<0.5	329	667	30	<1	65	<1	42	<1
200282	19	<0.5	110	322	<10	<1	22	<1	39	<1
200283	22	<0.5	213	871	<10	<1	40	<1	51	<1
200284	59	<0.5	168	1000	<10	<1	32	<1	46	2
200285	10	2.7	183	144	60	<1	43	<1	52	<1
200286	8	1.0	156	152	<10	<1	35	<1	54	<1
*Rep 200286	8	1.0	163	172	<10	<1	36	<1	55	<1
200287	7	4.3	181	132	70	<1	43	<1	63	<1
200078	<5	<0.5	446	75	50	1	100	<1	54	<1
200079	6	1.2	144	50	60	<1	38	<1	122	<1
200080	<5	1.2	233	132	10	<1	52	<1	32	<1
200081	9	2.8	107	116	50	<1	24	<1	98	<1
200082	8	3.3	164	116	20	<1	38	<1	104	<1
200083	8	<0.5	102	119	<10	<1	22	<1	41	<1
200084	6	<0.5	145	1020	20	<1	28	<1	41	<1
200085	<5	<0.5	105	300	<10	<1	20	<1	42	<1
200086	<5	<0.5	97	190	<10	<1	21	<1	34	<1
200087	<5	0.7	88	144	20	<1	19	<1	53	<1
200089	<5	1.3	288	134	50	<1	63	<1	42	<1
*Rep 200089	<5	1.4	274	127	50	<1	60	<1	42	<1
200090	7	<0.5	45	223	<10	<1	8	<1	42	<1
200091	<5	<0.5	156	353	20	<1	30	<1	39	<1

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Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Pt MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB
200092	6	0.6	413	410	50	<1	86	<1	46	<1
200093	9	<0.5	<1	650	10	<1	<1	<1	23	<1
200094	5	<0.5	250	304	<10	<1	50	<1	42	<1
200095	12	0.7	2	302	<10	<1	<1	<1	33	<1
200096	11	3.5	40	105	160	<1	10	<1	141	<1
200097	8	1.3	93	144	40	<1	20	<1	27	<1
200098	9	1.6	100	96	10	<1	23	<1	37	<1
200099	<5	<0.5	17	1330	20	<1	4	<1	78	<1
200100	7	1.6	85	81	<10	<1	19	<1	32	<1
200412	<5	<0.5	204	113	<10	<1	40	<1	18	<1
*Rep 200412	<5	<0.5	209	119	<10	<1	40	<1	18	<1
200413	<5	0.7	141	187	40	<1	33	<1	50	<1
200414	<5	2.7	34	90	230	<1	8	<1	112	<1
200415	<5	2.6	50	75	190	<1	11	<1	112	<1
200416	13	3.2	79	109	50	<1	19	<1	59	<1
200417	6	<0.5	139	300	70	<1	29	<1	19	<1
200418	<5	0.5	90	116	20	<1	19	<1	26	<1
200419	16	1.5	216	251	110	<1	47	<1	16	<1
200420	<5	<0.5	39	323	<10	<1	6	<1	53	<1
*Std MMISRM16	70	<0.5	17	324	140	31	4	<1	358	<1
*Std MMISRM16	70	<0.5	18	320	140	31	4	<1	369	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

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Element Method Det.Lim. Units	Sc MMI-M5 5 PPB	Sm MMI-M5 1 PPB	Sn MMI-M5 1 PPB	Sr MMI-M5 10 PPB	Ta MMI-M5 1 PPB	Tb MMI-M5 1 PPB	Te MMI-M5 10 PPB	Th MMI-M5 0.5 PPB	Ti MMI-M5 3 PPB	Tl MMI-M5 0.5 PPB
200180	69	26	<1	4800	<1	5	<10	15.4	49	<0.5
*Rep 200180	65	24	<1	5020	<1	5	<10	14.3	54	<0.5
200181	49	22	<1	3580	<1	4	<10	11.2	71	<0.5
200182	45	39	<1	1630	<1	6	<10	9.7	492	<0.5
200183	46	97	<1	3420	<1	19	<10	6.6	21	<0.5
200184	74	71	<1	4770	<1	12	<10	10.7	29	<0.5
200185	103	112	<1	5240	<1	20	<10	13.8	70	<0.5
200186	38	54	<1	2170	<1	9	<10	15.4	60	<0.5
200187	26	35	<1	1640	<1	6	<10	13.4	115	<0.5
200190	96	51	<1	2580	<1	10	<10	16.6	655	<0.5
200191	25	20	<1	2690	<1	3	<10	5.9	27	<0.5
200192	60	44	<1	3310	<1	8	<10	9.7	65	<0.5
200193	29	17	<1	1340	<1	3	<10	12.5	919	<0.5
200194	42	14	<1	1510	<1	3	<10	11.6	123	<0.5
*Rep 200194	43	13	<1	1560	<1	3	<10	11.6	136	<0.5
200195	47	14	<1	1440	<1	4	<10	11.9	91	<0.5
200197	131	63	<1	3660	<1	14	<10	18.8	21	<0.5
200199	44	46	<1	2710	<1	8	<10	8.8	90	<0.5
200200	54	45	<1	2430	<1	8	<10	7.7	96	<0.5
200279	52	73	<1	3850	<1	13	<10	9.7	74	<0.5
200280	27	53	<1	2710	<1	8	<10	13.4	157	<0.5
200281	74	101	<1	4840	<1	22	<10	10.8	16	<0.5
200282	23	35	<1	3920	<1	6	<10	7.0	7	<0.5
200283	34	68	<1	3190	<1	14	<10	13.6	15	<0.5
200284	34	54	<1	2980	<1	11	<10	12.7	11	<0.5
200285	35	41	<1	1720	<1	6	<10	17.0	642	<0.5
200286	42	39	<1	3280	<1	6	<10	11.6	197	<0.5
*Rep 200286	50	40	<1	3320	<1	7	<10	11.0	158	<0.5
200287	57	40	<1	2480	<1	6	<10	17.8	1330	<0.5
200078	165	97	<1	5500	<1	18	<10	15.3	17	<0.5
200079	73	31	<1	2730	<1	6	<10	24.5	413	<0.5
200080	36	55	<1	2300	<1	8	<10	28.1	231	<0.5
200081	57	27	<1	2020	<1	4	<10	14.9	1260	<0.5
200082	48	40	<1	1730	<1	6	<10	14.6	1020	<0.5
200083	27	25	<1	1760	<1	4	<10	11.7	144	<0.5
200084	26	50	<1	2780	<1	11	<10	6.4	17	<0.5
200085	27	28	<1	4060	<1	5	<10	6.9	14	<0.5
200086	23	26	<1	2830	<1	4	<10	7.2	17	<0.5
200087	33	22	<1	2550	<1	4	<10	7.0	114	<0.5
200089	51	73	<1	1090	<1	13	<10	11.6	114	<0.5
*Rep 200089	49	71	<1	1070	<1	13	<10	11.2	111	<0.5
200090	18	17	<1	2540	<1	4	<10	6.8	19	<0.5
200091	47	55	<1	3900	<1	11	<10	12.9	13	<0.5

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Element Method Det.Lim. Units	Sc MMI-M5 5 PPB	Sm MMI-M5 1 PPB	Sn MMI-M5 1 PPB	Sr MMI-M5 10 PPB	Ta MMI-M5 1 PPB	Tb MMI-M5 1 PPB	Te MMI-M5 10 PPB	Th MMI-M5 0.5 PPB	Ti MMI-M5 3 PPB	Tl MMI-M5 0.5 PPB
200092	84	109	<1	2390	<1	19	<10	12.7	141	<0.5
200093	13	2	<1	2260	<1	<1	<10	1.8	9	<0.5
200094	43	69	<1	2880	<1	13	<10	13.6	27	<0.5
200095	14	3	<1	2000	<1	1	<10	5.3	9	<0.5
200096	60	11	<1	530	<1	2	<10	14.6	1220	<0.5
200097	22	24	<1	2190	<1	4	<10	7.1	135	<0.5
200098	26	23	<1	1960	<1	4	<10	13.0	482	<0.5
200099	21	9	<1	2730	<1	4	<10	0.6	<3	<0.5
200100	21	20	<1	2110	<1	3	<10	12.4	537	<0.5
200412	27	53	<1	4370	<1	9	<10	4.7	10	<0.5
*Rep 200412	26	57	<1	4310	<1	9	<10	4.5	11	<0.5
200413	87	34	<1	4150	<1	5	<10	13.4	103	<0.5
200414	46	10	<1	860	<1	2	<10	7.5	666	<0.5
200415	50	13	<1	730	<1	3	<10	8.2	746	<0.5
200416	30	18	<1	1710	<1	3	<10	10.5	1030	<0.5
200417	23	38	<1	3000	<1	7	<10	2.9	38	<0.5
200418	25	23	<1	3540	<1	4	<10	7.4	50	<0.5
200419	81	56	<1	1820	<1	10	<10	19.6	389	<0.5
200420	20	17	<1	1930	<1	4	<10	4.9	11	<0.5
*Std MMISRM16	19	6	<1	580	<1	<1	<10	32.8	9	<0.5
*Std MMISRM16	21	7	<1	540	<1	<1	<10	32.1	4	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	1	<10	<1	<1	<10	<0.5	<3	<0.5

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Element Method Det.Lim. Units	U MMI-M5	W MMI-M5	Y MMI-M5	Yb MMI-M5	Zn MMI-M5	Zr MMI-M5
	1 PPB	1 PPB	5 PPB	1 PPB	20 PPB	5 PPB
200180	10	<1	148	10	<20	88
*Rep 200180	9	<1	143	10	20	91
200181	9	<1	124	10	120	62
200182	9	<1	158	11	270	67
200183	96	<1	597	38	60	47
200184	13	<1	380	26	30	119
200185	13	<1	603	43	110	90
200186	49	<1	295	20	100	66
200187	34	<1	157	11	40	64
200190	12	<1	326	24	760	141
200191	9	<1	99	8	110	47
200192	17	<1	225	15	130	81
200193	5	<1	90	6	120	89
200194	9	<1	114	9	30	110
*Rep 200194	9	<1	115	9	20	105
200195	11	<1	149	11	50	119
200197	26	<1	501	33	160	75
200199	13	<1	235	16	190	58
200200	8	<1	247	18	360	76
200279	12	<1	371	23	290	63
200280	14	<1	250	16	100	55
200281	267	<1	836	58	160	61
200282	143	<1	181	14	40	28
200283	239	<1	538	35	<20	49
200284	228	<1	413	26	20	52
200285	16	<1	177	11	300	67
200286	10	<1	166	12	90	60
*Rep 200286	12	<1	185	13	100	63
200287	13	<1	159	12	260	83
200078	15	<1	615	39	50	128
200079	12	<1	182	9	120	162
200080	46	<1	207	16	120	79
200081	9	<1	126	10	660	103
200082	8	<1	165	11	250	88
200083	10	<1	104	7	40	50
200084	57	<1	412	33	80	51
200085	24	<1	165	11	60	56
200086	12	<1	126	9	50	65
200087	7	<1	115	8	90	50
200089	21	<1	386	23	40	70
*Rep 200089	21	<1	364	22	40	69
200090	157	<1	111	9	130	28
200091	49	<1	328	26	260	53

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Element Method Det.Lim. Units	U MMI-M5 1 PPB	W MMI-M5 1 PPB	Y MMI-M5 5 PPB	Yb MMI-M5 1 PPB	Zn MMI-M5 20 PPB	Zr MMI-M5 5 PPB
200092	29	<1	543	37	410	60
200093	22	<1	33	5	130	11
200094	269	<1	419	28	50	66
200095	124	<1	43	7	50	22
200096	7	<1	79	7	300	138
200097	24	<1	116	8	200	45
200098	22	<1	92	7	110	67
200099	27	<1	156	45	30	6
200100	19	<1	75	5	80	63
200412	11	<1	251	17	20	36
*Rep 200412	11	<1	259	18	30	36
200413	10	<1	145	10	170	104
200414	8	<1	93	8	210	90
200415	8	<1	100	8	170	104
200416	6	<1	77	5	180	62
200417	24	<1	226	17	720	22
200418	8	<1	121	8	70	39
200419	33	<1	335	26	960	85
200420	50	<1	135	11	70	30
*Std MMISRM16	53	<1	13	<1	240	18
*Std MMISRM16	53	<1	15	<1	250	18
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

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Certificate of Analysis

Work Order: TO103415

To: Mammoth Geological Ltd.
Attn: Tim Henneberry
2446 Bidston Road
Mill Bay
BC V0R 2P4

Date: Oct 16, 2008

P.O. No. : Mammoth Geological; Project: Bonaparte
Project No. : DEFAULT
No. Of Samples 67
Date Submittéd Sep 23, 2008
Report Comprises Pages 1 to 11
(Inclusive of Cover Sheet)

Distribution of unused material:

STORE: 67 Soils

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

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Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 1 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB	
200801	16	100	<10	<0.1	1140	<1	260	6	84	22	
*Rep 200801	17	100	<10	0.3	1220	<1	290	6	80	23	
200804	1	117	<10	<0.1	2330	<1	400	4	210	17	
200805	<1	116	<10	<0.1	2250	<1	630	6	507	40	
200806	2	52	<10	<0.1	2700	<1	870	4	265	45	
200807	8	92	<10	<0.1	1610	<1	380	6	559	58	
200808	6	52	<10	0.1	2480	<1	440	2	405	33	
200809	4	42	<10	<0.1	3080	<1	480	2	284	31	
200810	9	23	<10	<0.1	1040	<1	400	7	87	25	
200811	12	56	<10	<0.1	4740	<1	410	3	174	25	
200812	2	87	<10	<0.1	5190	<1	450	3	433	71	
200813	2	106	<10	<0.1	2110	<1	470	3	102	58	
200814	5	80	<10	<0.1	2360	<1	430	9	178	33	
200815	<1	145	<10	<0.1	2530	<1	300	3	190	67	
*Rep 200815	<1	140	<10	<0.1	2960	<1	330	3	212	62	
200816	5	46	<10	<0.1	2830	<1	390	2	283	99	
200817	11	72	<10	<0.1	1720	<1	390	3	310	50	
200818	8	53	<10	<0.1	1230	<1	380	3	530	25	
200819	4	34	<10	0.1	2340	<1	420	1	176	128	
200820	3	34	<10	<0.1	3540	<1	440	2	133	22	
200821	3	42	<10	<0.1	1170	<1	360	4	150	<5	
200822	2	35	<10	<0.1	920	<1	320	2	304	17	
200824	11	57	<10	0.2	2770	<1	400	3	120	23	
200825	7	50	<10	<0.1	3190	<1	400	3	362	29	
200826	7	48	<10	0.1	1510	<1	380	3	302	16	
200861	2	170	<10	<0.1	1940	<1	180	7	61	44	
200862	10	45	<10	<0.1	2240	<1	540	4	113	16	
*Rep 200862	9	43	<10	<0.1	2170	<1	540	4	106	16	
200863	11	37	<10	<0.1	2800	<1	520	2	228	40	
200864	18	22	<10	<0.1	2330	<1	530	3	67	9	
200865	1	69	<10	<0.1	3000	<1	390	5	60	34	
200866	<1	161	<10	<0.1	1510	<1	60	4	247	66	
200867	22	77	<10	<0.1	2120	<1	330	7	108	20	
200868	8	98	<10	<0.1	2460	<1	460	7	128	37	
200869	1	105	<10	<0.1	4040	<1	370	2	282	30	
200870	2	24	<10	0.1	1720	<1	400	1	125	108	
200871	4	55	<10	<0.1	3400	<1	380	4	96	32	
200872	6	14	<10	0.1	2120	<1	500	2	107	71	
200873	19	17	<10	<0.1	2400	<1	490	5	13	13	
200874	3	41	<10	<0.1	1020	<1	370	6	240	18	
*Rep 200874	3	41	<10	<0.1	1110	<1	400	7	233	19	
200875	5	110	<10	<0.1	2870	<1	350	4	103	16	
200876		<1	114	<10	0.3	6010	<1	470	2	926	248

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Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 1 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
200877	1	76	<10	<0.1	3890	<1	480	2	114	81
200878	<1	140	<10	<0.1	3310	<1	280	4	317	72
200879	2	198	<10	<0.1	1430	<1	130	2	50	73
200880	1	66	<10	<0.1	4540	<1	540	3	267	56
200881	5	167	<10	<0.1	1230	<1	180	4	101	57
200883	8	58	<10	<0.1	2400	<1	430	3	208	15
200884	7	64	<10	<0.1	2450	<1	430	3	169	17
200885	26	30	<10	<0.1	2740	<1	960	13	52	65
200888	15	24	<10	<0.1	2360	<1	750	7	67	59
200889	20	59	<10	<0.1	2570	<1	390	4	231	20
*Rep 200889	18	57	<10	0.1	2950	<1	420	3	223	20
200890	6	105	<10	<0.1	2680	<1	320	4	197	117
200891	10	147	<10	<0.1	1370	<1	270	9	193	83
200892	4	73	<10	<0.1	1910	<1	260	2	95	304
200897	8	36	<10	<0.1	1590	<1	400	3	104	25
200898	7	65	<10	0.1	2830	<1	470	2	322	45
200899	8	55	<10	<0.1	1760	<1	390	3	223	15
200900	9	46	<10	<0.1	1920	<1	410	5	125	23
200429	27	13	<10	0.4	1750	<1	660	2	108	40
200430	4	183	<10	<0.1	2430	<1	250	10	86	69
200741	5	68	<10	0.2	2990	<1	350	1	338	46
200742	1	141	<10	<0.1	4840	<1	400	3	234	49
200743	6	90	<10	<0.1	3330	<1	530	3	114	48
*Rep 200743	6	85	<10	<0.1	3440	<1	560	3	101	46
200744	<1	113	<10	<0.1	3140	<1	310	3	745	105
200745	4	59	<10	<0.1	3190	<1	410	11	154	33
200746	5	56	<10	<0.1	520	<1	440	4	301	34
200747	12	68	<10	0.1	4210	<1	400	3	112	26
200749	12	125	<10	<0.1	4850	<1	220	4	187	21
200750	4	57	<10	<0.1	2570	<1	390	2	228	37
*Std MMISRM16	17	41	10	27.2	70	<1	220	4	21	49
*Std MMISRM16	17	46	20	27.8	60	<1	230	4	22	52
*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

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Element Method Det.Lim. Units	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 1 PPB	Er MMI-M5 0.5 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 1 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB	Li MMI-M5 5 PPB	Mg MMI-M5 1 PPM
200801	<100	160	12	5.9	3.8	57	17	42	12	33
*Rep 200801	<100	160	12	5.7	3.6	56	17	40	14	37
200804	<100	180	34	18.2	9.0	25	39	72	12	124
200805	<100	170	138	82.5	26.5	29	124	169	9	197
200806	<100	310	233	132	48.9	16	250	143	6	246
200807	<100	620	146	77.2	42.2	53	179	261	9	162
200808	<100	460	55	25.8	19.6	33	78	162	8	184
200809	<100	490	50	22.9	18.0	29	73	153	8	186
200810	<100	550	49	25.2	15.7	20	72	72	8	216
200811	<100	270	18	8.9	5.1	26	23	47	<5	86
200812	<100	130	21	10.3	6.2	34	26	70	5	192
200813	<100	170	33	17.5	8.1	43	36	61	6	176
200814	<100	350	97	53.1	27.3	39	120	144	7	140
200815	<100	170	35	17.5	10.1	46	39	88	5	107
*Rep 200815	<100	280	37	18.9	10.9	45	42	101	6	119
200816	<100	640	54	27.1	19.5	57	77	178	8	134
200817	<100	940	125	69.7	31.0	73	136	188	6	161
200818	<100	650	112	52.9	35.9	49	149	282	5	141
200819	<100	390	25	12.6	8.9	32	35	69	6	175
200820	<100	390	32	14.6	11.8	25	48	89	<5	236
200821	<100	290	137	67.1	52.6	14	183	171	<5	214
200822	<100	1000	99	50.1	31.2	50	125	203	<5	202
200824	<100	510	42	21.0	12.1	43	54	83	6	128
200825	<100	560	56	26.1	18.8	35	77	161	7	150
200826	<100	460	51	23.1	16.8	40	66	133	<5	156
200861	<100	250	35	21.3	5.7	84	28	30	5	67
200862	<100	430	50	24.6	15.2	24	69	108	<5	206
*Rep 200862	<100	410	47	23.9	14.5	24	66	101	<5	211
200863	<100	1040	56	27.9	17.4	40	79	134	<5	221
200864	<100	610	26	12.9	8.4	21	39	58	7	191
200865	<100	190	23	12.0	7.6	37	32	52	6	128
200866	<100	170	78	43.9	16.5	31	71	86	<5	18
200867	<100	360	29	14.4	10.0	38	41	71	<5	92
200868	<100	210	44	24.1	13.7	63	56	84	<5	141
200869	<100	150	29	13.8	7.8	25	35	96	<5	94
200870	<100	580	18	9.8	6.2	47	26	54	<5	226
200871	<100	200	32	15.4	9.2	36	44	80	6	168
200872	<100	530	19	9.3	6.1	25	29	45	6	208
200873	<100	380	25	11.6	7.9	10	36	37	<5	304
200874	<100	260	115	57.4	39.5	18	146	143	<5	198
*Rep 200874	<100	270	128	64.9	42.1	18	154	146	<5	216
200875	<100	120	16	7.7	4.8	37	21	45	<5	75
200876	<100	450	56	25.8	16.4	29	67	327	<5	125

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Element Method Det.Lim. Units	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 1 PPB	Er MMI-M5 0.5 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 1 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB	Li MMI-M5 5 PPB	Mg MMI-M5 1 PPM
200877	<100	160	15	7.6	4.9	31	21	49	<5	173
200878	<100	170	66	35.3	16.0	37	70	157	<5	116
200879	<100	150	11	6.4	2.2	90	9	17	<5	33
200880	<100	210	51	26.3	14.2	21	63	111	<5	195
200881	<100	210	21	12.4	5.2	68	23	36	<5	35
200883	<100	330	78	35.9	26.2	33	113	196	5	151
200884	<100	330	59	27.8	19.2	31	85	134	<5	156
200885	<100	340	86	51.1	13.9	11	93	59	133	205
200888	<100	620	21	10.6	6.1	21	30	41	7	139
200889	<100	380	43	19.9	14.7	40	57	106	<5	113
*Rep 200889	<100	340	43	20.9	14.3	40	58	106	<5	118
200890	<100	250	35	17.9	11.1	78	46	104	5	99
200891	<100	270	42	22.1	13.1	84	55	103	<5	68
200892	<100	1680	16	9.0	3.9	195	17	35	<5	71
200897	<100	240	21	10.6	6.4	25	29	52	<5	178
200898	<100	390	47	23.2	15.4	39	64	139	5	190
200899	<100	280	44	20.4	14.4	36	59	109	<5	147
200900	<100	340	39	19.8	12.3	30	51	78	<5	211
200429	<100	3090	79	44.6	20.6	28	100	66	20	306
200430	<100	220	18	10.7	4.0	66	19	40	<5	43
200741	<100	330	39	19.1	14.3	40	56	167	<5	115
200742	<100	210	19	9.4	5.5	39	24	102	<5	85
200743	<100	250	34	17.3	10.2	45	42	81	<5	166
*Rep 200743	<100	240	31	15.4	9.8	44	40	76	<5	164
200744	<100	280	104	59.9	33.7	45	134	282	<5	112
200745	<100	210	20	9.1	7.2	47	28	80	6	118
200746	<100	930	268	154	80.8	32	308	248	<5	205
200747	<100	360	31	16.3	9.4	47	41	78	<5	85
200749	<100	270	28	14.4	7.0	22	32	74	<5	41
200750	<100	220	32	15.9	11.8	52	46	111	<5	141
*Std MMISRM16	<100	530	2	0.7	1.0	3	4	5	<5	38
*Std MMISRM16	<100	570	2	0.8	1.1	3	5	5	<5	41
*BLK BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*BLK BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

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Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Pt MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB
200801	7	3.2	65	81	50	<1	14	<1	42	<1
*Rep 200801	7	3.1	62	90	60	<1	14	<1	44	<1
200804	<5	<0.5	112	83	40	<1	23	<1	122	<1
200805	<5	<0.5	310	229	50	<1	62	<1	60	<1
200806	<5	<0.5	418	485	10	<1	69	<1	29	<1
200807	<5	0.6	488	350	30	<1	98	<1	50	<1
200808	<5	<0.5	265	206	<10	<1	54	<1	26	<1
200809	<5	<0.5	257	139	<10	<1	51	<1	19	<1
200810	<5	<0.5	176	376	<10	<1	32	<1	38	<1
200811	<5	0.5	79	60	20	<1	16	<1	47	<1
200812	<5	<0.5	90	239	30	<1	20	<1	47	<1
200813	<5	0.6	101	105	40	<1	20	<1	59	<1
200814	<5	<0.5	316	153	40	<1	59	<1	46	<1
200815	<5	0.6	128	133	40	<1	27	<1	90	<1
*Rep 200815	<5	<0.5	139	140	30	<1	30	<1	90	<1
200816	5	0.6	279	173	<10	<1	58	<1	52	<1
200817	<5	<0.5	337	446	10	<1	67	<1	50	<1
200818	<5	<0.5	484	328	<10	<1	100	<1	24	<1
200819	<5	<0.5	125	171	<10	<1	25	<1	18	<1
200820	<5	<0.5	158	84	<10	<1	31	<1	26	<1
200821	<5	<0.5	477	108	<10	<1	82	<1	38	<1
200822	<5	<0.5	351	180	<10	<1	71	<1	29	<1
200824	7	0.8	158	167	10	<1	31	<1	33	<1
200825	<5	<0.5	263	211	<10	<1	56	<1	40	<1
200826	<5	<0.5	226	240	<10	<1	46	<1	32	<1
200861	<5	0.9	69	140	150	<1	13	<1	73	<1
200862	<5	<0.5	198	185	10	<1	39	<1	25	<1
*Rep 200862	<5	<0.5	190	184	10	<1	37	<1	24	<1
200863	5	<0.5	237	226	<10	<1	48	<1	34	<1
200864	<5	<0.5	122	189	<10	<1	23	<1	25	<1
200865	18	1.0	103	99	50	<1	21	<1	55	<1
200866	<5	0.5	211	47	100	<1	40	<1	140	<1
200867	<5	1.1	129	103	20	<1	26	<1	58	<1
200868	6	1.1	157	256	30	<1	32	<1	37	<1
200869	<5	<0.5	117	48	40	<1	26	<1	74	<1
200870	<5	<0.5	102	108	<10	<1	21	<1	33	<1
200871	6	1.0	145	87	30	<1	28	<1	39	<1
200872	<5	<0.5	95	163	<10	<1	19	<1	23	<1
200873	<5	<0.5	93	155	10	<1	16	<1	41	<1
200874	<5	<0.5	369	225	10	<1	66	<1	52	<1
*Rep 200874	<5	<0.5	367	246	10	<1	67	<1	52	<1
200875	6	0.9	68	90	60	<1	15	<1	89	<1
200876	<5	<0.5	286	187	40	<1	69	<1	85	<1

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Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Pt MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB
200877	<5	<0.5	72	92	20	<1	15	<1	60	<1
200878	<5	<0.5	212	97	60	<1	45	<1	85	<1
200879	6	2.8	29	111	90	<1	6	<1	90	<1
200880	<5	<0.5	174	182	30	<1	35	<1	41	<1
200881	6	1.8	69	82	40	<1	14	<1	120	<1
200883	<5	<0.5	368	196	<10	<1	72	<1	40	<1
200884	<5	<0.5	258	151	<10	<1	51	<1	39	<1
200885	7	0.6	147	434	20	<1	25	<1	20	<1
200888	6	0.9	86	397	10	<1	16	<1	20	<1
200889	5	<0.5	197	116	<10	<1	38	<1	41	<1
*Rep 200889	<5	<0.5	193	110	<10	<1	39	<1	44	<1
200890	9	2.2	163	153	40	<1	35	<1	56	<1
200891	14	2.5	182	155	70	<1	38	<1	73	<1
200892	13	1.1	57	99	<10	<1	13	<1	153	<1
200897	<5	<0.5	95	95	<10	<1	19	<1	26	<1
200898	<5	<0.5	226	215	<10	<1	46	<1	46	<1
200899	<5	<0.5	192	163	<10	<1	39	<1	45	<1
200900	<5	<0.5	148	141	<10	<1	29	<1	51	<1
200429	13	<0.5	181	1890	<10	<1	31	<1	<5	<1
200430	6	2.0	64	136	90	<1	13	<1	94	<1
200741	<5	0.6	218	94	<10	<1	47	<1	84	<1
200742	<5	0.7	98	49	30	<1	23	<1	118	<1
200743	<5	0.5	135	123	30	<1	27	<1	66	<1
*Rep 200743	<5	<0.5	124	112	30	<1	25	<1	65	<1
200744	<5	0.5	480	195	20	<1	99	<1	139	<1
200745	<5	1.1	113	113	30	<1	25	<1	37	<1
200746	<5	<0.5	671	332	<10	<1	120	<1	50	<1
200747	<5	0.7	128	50	20	<1	26	<1	122	<1
200749	6	0.5	105	30	20	<1	22	<1	191	<1
200750	<5	<0.5	173	119	<10	<1	36	<1	44	<1
*Std MMISRM16	47	<0.5	17	163	70	22	3	<1	328	<1
*Std MMISRM16	46	<0.5	19	181	80	22	3	<1	325	<1
*BLK BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*BLK BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

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Element Method Det.Lim. Units	Sc MMI-M5 5 PPB	Sm MMI-M5 1 PPB	Sn MMI-M5 1 PPB	Sr MMI-M5 10 PPB	Ta MMI-M5 1 PPB	Tb MMI-M5 1 PPB	Te MMI-M5 10 PPB	Th MMI-M5 0.5 PPB	Ti MMI-M5 3 PPB	Tl MMI-M5 0.5 PPB
200801	17	16	<1	950	<1	2	<10	9.1	615	1.5
*Rep 200801	18	15	<1	1040	<1	2	<10	8.8	617	1.3
200804	37	31	<1	2360	<1	6	<10	8.9	34	1.1
200805	222	91	<1	5010	<1	21	<10	12.7	5	0.9
200806	115	154	<1	4520	<1	38	<10	2.9	5	0.6
200807	76	133	<1	2130	<1	26	<10	9.6	85	0.7
200808	35	66	<1	3030	<1	11	<10	8.0	24	0.5
200809	32	61	<1	3920	<1	9	<10	8.0	25	<0.5
200810	18	52	<1	1460	<1	9	<10	7.2	23	<0.5
200811	21	20	<1	3950	<1	3	<10	6.0	29	<0.5
200812	53	22	<1	3610	<1	4	<10	8.7	41	<0.5
200813	78	27	<1	3560	<1	5	<10	5.0	57	<0.5
200814	55	90	<1	2870	<1	17	<10	4.6	28	<0.5
200815	38	32	<1	2840	<1	6	<10	8.8	144	<0.5
*Rep 200815	43	36	<1	3100	<1	6	<10	8.8	101	<0.5
200816	58	66	<1	3400	<1	10	<10	7.5	93	<0.5
200817	144	95	<1	2710	<1	21	<10	12.1	28	<0.5
200818	74	122	<1	2410	<1	21	<10	9.1	36	<0.5
200819	25	31	<1	3520	<1	5	<10	6.8	23	<0.5
200820	20	41	<1	3780	<1	6	<10	5.9	22	<0.5
200821	37	143	<1	3070	<1	25	<10	3.7	13	<0.5
200822	74	95	<1	1500	<1	18	<10	5.9	14	<0.5
200824	31	44	<1	2470	<1	7	<10	6.3	59	<0.5
200825	31	66	<1	2810	<1	11	<10	6.8	28	<0.5
200826	38	56	<1	2400	<1	9	<10	7.9	35	<0.5
200861	46	19	<1	1930	<1	5	<10	6.9	295	<0.5
200862	17	53	<1	3380	<1	9	<10	4.7	15	<0.5
*Rep 200862	18	52	<1	3460	<1	9	<10	4.5	20	<0.5
200863	29	61	<1	3260	<1	10	<10	7.4	10	<0.5
200864	13	34	<1	2270	<1	5	<10	7.6	21	<0.5
200865	17	27	<1	3000	<1	4	<10	3.5	177	<0.5
200866	62	58	<1	550	<1	12	<10	14.8	232	0.5
200867	24	33	<1	2440	<1	6	<10	5.8	222	<0.5
200868	40	43	<1	3380	<1	8	<10	4.9	138	<0.5
200869	49	28	<1	2890	<1	5	<10	6.7	41	<0.5
200870	25	24	<1	2380	<1	4	<10	7.8	29	<0.5
200871	27	36	<1	2830	<1	6	<10	4.5	101	<0.5
200872	17	24	<1	1910	<1	4	<10	13.6	14	<0.5
200873	12	29	<1	1450	<1	5	<10	5.2	14	<0.5
200874	31	113	<1	2460	<1	21	<10	10.7	14	<0.5
*Rep 200874	35	118	<1	2640	<1	22	<10	9.9	11	<0.5
200875	24	17	<1	2230	<1	3	<10	5.7	116	<0.5
200876	185	58	<1	5430	<1	10	<10	13.4	16	<0.5

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200877	34	18	<1	3890	<1	3	<10	9.3	25	<0.5
200878	64	54	<1	3440	<1	11	<10	19.0	232	<0.5
200879	34	8	<1	850	<1	2	<10	10.8	946	<0.5
200880	57	48	<1	5360	<1	9	<10	4.3	10	<0.5
200881	52	19	<1	740	<1	4	<10	8.2	613	<0.5
200883	24	94	<1	3030	<1	15	<10	5.1	29	<0.5
200884	20	68	<1	3090	<1	11	<10	4.7	24	<0.5
200885	18	55	<1	2640	<1	14	<10	9.2	14	<0.5
200888	14	24	<1	2540	<1	4	<10	8.7	24	<0.5
200889	29	51	<1	2570	<1	8	<10	7.0	46	<0.5
*Rep 200889	33	50	<1	2890	<1	8	<10	6.6	44	<0.5
200890	41	40	<1	1890	<1	7	<10	8.3	571	<0.5
200891	26	47	<1	1330	<1	8	<10	6.2	729	<0.5
200892	60	14	<1	1980	<1	3	<10	5.7	162	<0.5
200897	16	24	<1	1810	<1	4	<10	7.2	29	<0.5
200898	43	56	<1	3210	<1	9	<10	8.7	25	<0.5
200899	35	49	<1	2610	<1	8	<10	7.6	41	<0.5
200900	25	41	<1	2540	<1	7	<10	5.2	26	<0.5
200429	29	64	<1	2360	<1	13	<10	6.7	5	<0.5
200430	43	16	<1	1360	<1	3	<10	11.0	561	<0.5
200741	34	49	<1	3150	<1	7	<10	13.9	189	<0.5
200742	38	22	<1	3220	<1	4	<10	19.3	212	<0.5
200743	37	36	<1	4030	<1	6	<10	6.8	28	<0.5
*Rep 200743	35	33	<1	3980	<1	6	<10	6.1	28	<0.5
200744	113	115	<1	3540	<1	19	<10	15.6	225	<0.5
200745	19	26	<1	3240	<1	4	<10	6.7	121	<0.5
200746	88	217	<1	2760	<1	45	<10	5.6	10	<0.5
200747	25	33	<1	3450	<1	6	<10	5.7	64	<0.5
200749	53	26	<1	1470	<1	5	<10	10.8	196	<0.5
200750	26	41	<1	3150	<1	6	<10	10.0	76	<0.5
*Std MMISRM16	10	5	<1	510	<1	<1	<10	21.8	<3	<0.5
*Std MMISRM16	11	5	<1	510	<1	<1	<10	22.2	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

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Element Method Det.Lim. Units	U MMI-M5 1 PPB	W MMI-M5 1 PPB	Y MMI-M5 5 PPB	Yb MMI-M5 1 PPB	Zn MMI-M5 20 PPB	Zr MMI-M5 5 PPB
200801	7	2	61	4	240	79
*Rep 200801	7	1	60	4	310	76
200804	9	<1	193	13	140	77
200805	10	<1	756	64	410	76
200806	23	1	1300	91	80	59
200807	18	<1	817	55	380	62
200808	10	<1	287	18	130	51
200809	8	<1	263	16	50	47
200810	31	<1	303	18	150	40
200811	5	<1	95	6	70	45
200812	13	<1	105	7	120	91
200813	6	<1	179	13	290	77
200814	7	<1	638	37	640	46
200815	6	<1	183	12	470	67
*Rep 200815	6	<1	204	13	450	66
200816	8	<1	292	21	240	72
200817	25	<1	688	50	60	94
200818	19	<1	596	36	70	66
200819	9	<1	138	9	60	46
200820	7	<1	174	10	20	33
200821	15	<1	774	45	70	43
200822	21	<1	576	35	30	56
200824	11	<1	235	16	130	61
200825	25	<1	293	18	120	60
200826	22	<1	261	16	90	56
200861	5	<1	215	17	340	61
200862	34	<1	283	17	40	27
*Rep 200862	33	<1	285	16	40	25
200863	86	<1	315	20	40	52
200864	57	<1	158	10	30	39
200865	9	<1	129	9	210	29
200866	9	<1	462	32	50	153
200867	6	<1	161	9	80	54
200868	7	<1	266	18	340	54
200869	8	<1	164	9	50	92
200870	15	<1	104	8	50	67
200871	5	<1	182	11	630	40
200872	65	<1	105	7	20	56
200873	16	<1	148	8	100	23
200874	32	<1	599	42	180	55
*Rep 200874	34	<1	649	47	190	55
200875	6	<1	84	5	100	59
200876	21	<1	265	17	40	108

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Element Method Det.Lim. Units	U MMI-M5	W MMI-M5	Y MMI-M5	Yb MMI-M5	Zn MMI-M5	Zr MMI-M5
	1 PPB	1 PPB	5 PPB	1 PPB	20 PPB	5 PPB
200877	7	<1	84	5	90	77
200878	10	<1	402	24	80	134
200879	4	<1	56	6	190	139
200880	10	<1	307	17	170	67
200881	5	<1	120	10	210	113
200883	10	<1	459	23	60	32
200884	10	<1	335	19	50	32
200885	381	<1	511	38	120	50
200888	40	<1	119	8	50	34
200889	8	<1	211	14	170	49
*Rep 200889	9	<1	223	15	150	52
200890	8	<1	188	13	360	77
200891	5	<1	245	15	930	59
200892	11	<1	91	8	90	86
200897	20	<1	114	8	40	42
200898	9	<1	242	16	30	53
200899	8	<1	223	14	60	55
200900	8	<1	220	14	70	43
200429	361	<1	466	38	20	40
200430	9	<1	101	9	760	135
200741	10	<1	202	13	40	96
200742	12	<1	96	7	190	153
200743	9	<1	196	12	90	49
*Rep 200743	8	<1	168	11	250	45
200744	17	<1	602	47	130	113
200745	5	<1	98	6	40	35
200746	52	1	1580	112	70	81
200747	8	<1	168	12	210	57
200749	9	<1	143	10	50	102
200750	10	<1	174	12	130	61
*Std MMISRM16	38	<1	8	<1	200	14
*Std MMISRM16	39	<1	9	<1	200	15
*BLK BLANK	<1	<1	<5	<1	<20	<5
*BLK BLANK	<1	<1	<5	<1	<20	<5

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Certificate of Analysis

Work Order: TO103416

To: Mammoth Geological Ltd.
Attn: Tim Henneberry
2446 Bidston Road
Mill Bay
BC V0R 2P4

Date: Oct 16, 2008

P.O. No. : Mammoth Geological; Project: Bonaparte
Project No. : DEFAULT
No. Of Samples : 68
Date Submittéd : Sep 23, 2008
Report Comprises : Pages 1 to 11
(Inclusive of Cover Sheet)

Distribution of unused material:

STORE: 68 Soils

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

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Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 1 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
200701	9	52	<10	<0.1	2360	<1	440	4	182	19
*Rep 200701	10	52	<10	<0.1	2410	<1	440	4	192	16
200702	23	38	<10	<0.1	1730	<1	620	9	243	38
200703	14	24	<10	<0.1	1470	<1	490	4	79	17
200704	12	25	<10	<0.1	1730	<1	470	2	43	26
200705	31	26	<10	<0.1	590	<1	550	6	91	30
200706	21	35	<10	<0.1	720	<1	740	5	55	96
200707	6	36	<10	<0.1	3070	<1	500	4	89	22
200709	16	104	<10	<0.1	2510	<1	320	7	188	58
200710	6	89	<10	<0.1	2520	<1	460	10	748	38
200711	4	64	<10	<0.1	3100	<1	360	3	118	42
200712	<1	77	<10	<0.1	3800	<1	470	2	537	98
200714	7	48	<10	<0.1	2260	<1	400	5	201	14
200715	10	74	<10	<0.1	5240	<1	370	2	47	28
*Rep 200715	10	77	<10	<0.1	4910	<1	370	2	45	30
200716	11	50	<10	<0.1	2060	<1	410	5	137	16
200718	14	46	<10	<0.1	1490	<1	580	8	338	55
200719	31	19	<10	0.1	2080	<1	720	5	36	35
200720	9	21	<10	<0.1	2730	<1	410	2	37	14
200721	9	27	<10	<0.1	2610	<1	380	2	51	20
200722	5	31	<10	<0.1	2290	<1	570	4	191	16
200723	4	35	<10	<0.1	1960	<1	440	3	157	28
200724	7	40	<10	<0.1	1650	<1	400	4	170	15
200725	9	140	<10	<0.1	2420	<1	200	3	120	36
200726	10	165	<10	<0.1	620	<1	240	4	74	151
200727	13	111	<10	<0.1	2150	<1	480	7	53	45
200728	18	6	<10	<0.1	1650	<1	690	3	17	26
*Rep 200728	21	6	<10	<0.1	2070	<1	700	2	15	23
200729	2	38	<10	<0.1	3900	<1	400	3	146	39
200731	2	57	<10	<0.1	4810	<1	350	2	141	23
200733	7	111	<10	<0.1	1860	<1	370	6	421	68
200734	13	106	<10	<0.1	3930	<1	250	3	314	40
200735	9	109	<10	<0.1	2040	<1	340	11	668	96
200736	8	70	<10	<0.1	2430	<1	350	4	331	40
200737	7	59	<10	<0.1	2590	<1	330	3	317	31
200738	2	63	<10	<0.1	2080	<1	460	7	999	50
200739	1	82	<10	0.2	5900	<1	300	<1	1900	71
200740	2	176	<10	<0.1	5580	<1	240	3	193	65
200753	6	62	<10	<0.1	1870	<1	410	12	502	41
200757	7	14	<10	<0.1	2080	<1	460	1	60	15
*Rep 200757	7	14	<10	<0.1	2160	<1	470	2	59	13
200759	6	41	<10	<0.1	2070	<1	430	5	135	54
200760	9	28	<10	<0.1	2420	<1	360	3	144	15

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Element Method Det.Lim. Units	Ag MMI-M5 1 PPB	Al MMI-M5 1 PPM	As MMI-M5 10 PPB	Au MMI-M5 0.1 PPB	Ba MMI-M5 10 PPB	Bi MMI-M5 1 PPB	Ca MMI-M5 10 PPM	Cd MMI-M5 1 PPB	Ce MMI-M5 5 PPB	Co MMI-M5 5 PPB
200762	6	46	<10	<0.1	2650	<1	330	3	93	40
200763	7	48	<10	<0.1	3010	<1	320	3	89	43
200764	8	37	<10	<0.1	1700	<1	440	5	196	21
200765	6	128	<10	<0.1	2820	<1	260	6	234	132
200766	22	20	<10	<0.1	2540	<1	450	5	39	18
200767	10	117	<10	<0.1	1750	<1	290	4	62	24
200768	10	30	<10	<0.1	2370	<1	360	3	96	23
200770	9	122	<10	<0.1	1590	<1	320	9	168	86
200771	5	>300	<10	<0.1	2070	<1	380	4	147	121
200772	4	34	<10	0.1	2570	<1	870	3	182	26
*Rep 200772	5	42	<10	0.3	2680	<1	980	3	173	28
200773	10	53	<10	<0.1	1330	<1	500	4	168	58
200774	3	47	<10	<0.1	3800	<1	430	1	144	69
200775	6	55	<10	<0.1	2960	<1	530	2	178	45
200776	7	68	<10	<0.1	3340	<1	430	3	71	45
200778	5	42	<10	<0.1	1630	<1	440	2	153	284
200779	7	37	<10	<0.1	1690	<1	390	3	115	53
200780	6	86	<10	<0.1	2550	<1	330	3	152	60
200781	8	42	<10	<0.1	2410	<1	340	3	206	38
200783	7	109	<10	<0.1	3360	<1	440	5	133	68
200784	9	46	<10	0.2	4160	<1	420	2	371	66
200785	11	99	<10	<0.1	4540	<1	340	5	279	84
200786	10	89	<10	<0.1	3520	<1	360	5	139	85
*Rep 200786	10	90	<10	<0.1	3820	<1	390	4	144	84
200787	14	31	<10	<0.1	2330	<1	450	4	98	52
200788	10	204	<10	<0.1	3380	<1	160	3	196	50
200789	4	128	<10	<0.1	1690	<1	270	5	482	99
200790	8	132	<10	0.1	3710	<1	460	4	319	83
200792	7	154	<10	<0.1	2440	<1	380	6	255	98
200793	13	147	<10	<0.1	3790	<1	310	5	76	32
200794	6	149	<10	<0.1	4080	<1	260	7	212	48
*Std MMISRM16	15	51	20	24.5	60	<1	230	4	25	63
*Std MMISRM16	16	46	10	26.5	70	<1	250	4	24	59
*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

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Element Method Det.Lim. Units	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 1 PPB	Er MMI-M5 0.5 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 1 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB	Li MMI-M5 5 PPB	Mg MMI-M5 1 PPM
200701	<100	170	35	18.3	10.4	47	45	76	<5	76
*Rep 200701	<100	180	36	17.7	10.2	48	46	78	<5	76
200702	<100	1160	163	88.2	44.2	18	216	194	15	159
200703	<100	540	68	35.5	21.7	18	95	115	<5	146
200704	<100	240	14	7.0	5.1	24	21	37	<5	127
200705	<100	1110	115	52.8	37.4	16	169	168	<5	220
200706	<100	1260	148	84.8	38.5	18	170	119	<5	503
200707	<100	390	48	23.7	15.2	24	66	100	<5	145
200709	<100	370	29	14.1	8.4	67	33	71	<5	93
200710	<100	650	153	80.1	40.6	52	163	262	<5	178
200711	<100	230	21	10.9	7.8	40	31	75	<5	85
200712	<100	230	73	34.5	27.3	30	103	263	<5	111
200714	<100	340	50	24.7	17.0	24	66	106	<5	142
200715	<100	180	5	2.2	1.6	20	6	17	<5	74
*Rep 200715	<100	190	4	2.0	1.4	21	6	16	<5	72
200716	<100	420	43	21.8	14.3	29	60	96	<5	115
200718	<100	750	86	48.2	23.3	31	104	111	8	279
200719	<100	500	45	22.5	12.2	12	57	51	5	246
200720	<100	250	11	5.8	4.1	18	18	39	<5	150
200721	<100	240	14	7.3	5.0	22	21	49	<5	137
200722	<100	510	46	23.4	15.3	30	62	126	5	177
200723	<100	400	39	19.9	13.8	22	57	114	<5	118
200724	<100	490	60	30.1	19.5	25	82	139	<5	125
200725	<100	350	17	8.8	5.1	57	21	58	<5	38
200726	<100	140	9	4.4	2.6	83	9	22	<5	56
200727	<100	480	30	17.2	7.9	46	35	54	<5	81
200728	<100	930	16	7.4	4.8	8	22	20	6	265
*Rep 200728	<100	900	15	7.0	4.8	8	22	19	7	266
200729	<100	330	21	10.2	7.2	36	32	82	<5	133
200731	<100	390	24	11.6	8.2	22	34	90	<5	95
200733	<100	240	76	38.6	22.4	52	93	188	<5	100
200734	<100	330	26	11.4	9.1	50	36	146	<5	64
200735	<100	350	95	47.0	29.7	48	119	243	<5	110
200736	<100	240	33	15.3	11.9	43	45	139	<5	93
200737	<100	260	30	13.4	11.5	40	43	139	<5	85
200738	<100	670	170	102	42.8	52	175	192	<5	236
200739	<100	480	163	77.4	59.5	55	239	955	<5	140
200740	<100	160	17	9.1	5.2	40	21	86	<5	51
200753	<100	350	74	36.3	26.6	49	103	230	<5	115
200757	<100	410	17	8.8	5.9	22	24	42	<5	190
*Rep 200757	<100	390	17	8.2	5.8	22	24	45	<5	196
200759	<100	300	32	16.2	11.1	39	44	86	<5	130
200760	<100	500	33	16.9	10.9	32	46	89	5	135

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Element Method Det.Lim. Units	Cr MMI-M5 100 PPB	Cu MMI-M5 10 PPB	Dy MMI-M5 1 PPB	Er MMI-M5 0.5 PPB	Eu MMI-M5 0.5 PPB	Fe MMI-M5 1 PPM	Gd MMI-M5 1 PPB	La MMI-M5 1 PPB	Li MMI-M5 5 PPB	Mg MMI-M5 1 PPM
200762	<100	220	16	7.4	5.3	32	22	53	<5	118
200763	<100	230	13	6.3	4.5	30	18	50	<5	120
200764	<100	460	47	23.3	14.8	28	65	114	5	189
200765	<100	310	45	24.0	14.0	108	57	117	<5	94
200766	<100	410	26	12.7	9.4	20	43	73	<5	175
200767	<100	200	8	4.5	2.1	43	10	24	<5	38
200768	<100	340	36	18.7	13.5	30	54	95	<5	96
200770	<100	400	20	9.8	6.6	65	27	61	<5	48
200771	<100	280	21	11.2	4.9	96	20	75	<5	153
200772	<100	270	28	13.0	11.0	22	44	110	<5	260
*Rep 200772	<100	330	28	14.0	10.4	26	43	97	<5	304
200773	<100	800	40	20.4	12.8	54	52	114	<5	192
200774	<100	500	23	10.6	8.2	27	33	70	<5	135
200775	<100	400	34	17.0	12.2	34	49	103	<5	148
200776	<100	320	21	11.2	7.6	32	29	56	<5	157
200778	<100	400	18	9.4	7.1	30	27	62	<5	139
200779	<100	450	24	11.6	9.2	30	37	83	<5	102
200780	<100	390	30	14.1	10.5	54	41	102	<5	96
200781	<100	480	33	16.6	11.5	33	47	99	<5	213
200783	<100	430	24	12.1	8.0	46	31	67	<5	125
200784	<100	420	28	12.2	9.1	35	37	120	<5	96
200785	<100	340	32	14.7	10.7	64	44	125	<5	90
200786	<100	340	23	11.3	7.9	53	32	83	<5	106
*Rep 200786	<100	340	22	10.6	7.9	53	32	84	<5	113
200787	<100	430	22	10.7	7.3	27	33	66	<5	177
200788	<100	240	22	11.1	6.9	81	27	87	<5	25
200789	<100	250	46	21.6	16.6	81	65	201	<5	75
200790	<100	200	36	17.9	10.8	69	44	97	5	116
200792	<100	180	58	32.6	16.7	81	71	113	<5	97
200793	<100	420	37	20.6	9.4	89	41	56	<5	81
200794	<100	220	29	15.0	7.9	76	32	76	<5	50
*Std MMISRM16	<100	620	3	1.1	1.4	3	6	6	<5	35
*Std MMISRM16	<100	590	3	1.0	1.3	3	5	6	<5	41
*BLK BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*BLK BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

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Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Pt MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB
200701	6	0.6	143	160	10	<1	29	<1	52	<1
*Rep 200701	6	0.6	144	158	<10	<1	29	<1	53	<1
200702	<5	0.7	497	1000	30	<1	89	<1	42	<1
200703	<5	<0.5	261	216	<10	<1	48	<1	22	<1
200704	5	0.6	73	108	<10	<1	14	<1	26	<1
200705	10	<0.5	426	930	<10	<1	77	<1	24	<1
200706	9	<0.5	318	839	<10	<1	55	<1	33	<1
200707	<5	<0.5	193	278	20	<1	37	<1	33	<1
200709	<5	1.4	110	159	30	<1	24	<1	82	<1
200710	<5	<0.5	458	574	30	<1	97	<1	45	<1
200711	<5	1.2	115	82	<10	<1	25	<1	64	<1
200712	<5	<0.5	399	126	<10	<1	84	<1	58	<1
200714	<5	<0.5	206	283	<10	<1	41	<1	52	<1
200715	<5	<0.5	24	26	10	<1	5	<1	56	<1
*Rep 200715	<5	<0.5	23	28	10	<1	5	<1	57	<1
200716	<5	<0.5	184	166	<10	<1	36	<1	41	<1
200718	<5	<0.5	252	562	<10	<1	47	<1	44	<1
200719	8	<0.5	130	265	<10	<1	22	<1	27	<1
200720	<5	<0.5	66	61	<10	<1	14	<1	28	<1
200721	<5	<0.5	79	62	<10	<1	16	<1	30	<1
200722	<5	<0.5	220	239	<10	<1	45	<1	23	<1
200723	<5	<0.5	197	124	<10	<1	40	<1	33	<1
200724	<5	<0.5	254	177	<10	<1	53	<1	37	<1
200725	<5	2.4	84	91	50	<1	19	<1	53	<1
200726	<5	2.1	32	156	30	<1	7	<1	76	<1
200727	<5	0.6	95	159	30	<1	19	<1	66	<1
200728	7	<0.5	55	276	<10	<1	10	<1	22	<1
*Rep 200728	6	<0.5	56	262	<10	<1	10	<1	22	<1
200729	<5	0.6	125	52	10	<1	27	<1	60	<1
200731	<5	<0.5	124	48	10	<1	27	<1	81	<1
200733	<5	0.7	311	247	20	<1	67	<1	125	<1
200734	<5	1.9	157	64	40	<1	37	<1	54	<1
200735	<5	<0.5	410	327	40	<1	89	<1	55	<1
200736	<5	0.9	187	168	20	<1	43	<1	60	<1
200737	<5	0.9	187	136	20	<1	42	<1	49	<1
200738	<5	<0.5	406	620	20	<1	80	<1	60	<1
200739	<5	<0.5	1080	193	<10	<1	248	<1	31	<1
200740	<5	1.5	83	81	80	<1	20	<1	96	<1
200753	<5	1.5	377	263	20	<1	83	<1	65	<1
200757	<5	<0.5	78	132	<10	<1	16	<1	19	<1
*Rep 200757	<5	<0.5	83	135	<10	<1	17	<1	22	<1
200759	5	0.7	154	160	10	<1	31	<1	31	<1
200760	<5	<0.5	157	162	<10	<1	32	<1	38	<1

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Element Method Det.Lim. Units	Mo MMI-M5 5 PPB	Nb MMI-M5 0.5 PPB	Nd MMI-M5 1 PPB	Ni MMI-M5 5 PPB	Pb MMI-M5 10 PPB	Pd MMI-M5 1 PPB	Pr MMI-M5 1 PPB	Pt MMI-M5 1 PPB	Rb MMI-M5 5 PPB	Sb MMI-M5 1 PPB
200762	7	0.9	83	103	30	<1	18	<1	40	<1
200763	6	1.0	70	92	20	<1	16	<1	40	<1
200764	5	<0.5	206	327	<10	<1	42	<1	42	<1
200765	<5	2.7	196	218	20	<1	41	<1	84	<1
200766	5	0.6	144	182	10	<1	28	<1	33	<1
200767	11	2.0	38	65	50	<1	8	<1	86	<1
200768	5	1.0	177	118	10	<1	36	<1	30	<1
200770	7	1.7	97	169	70	<1	22	<1	61	<1
200771	<5	<0.5	70	192	120	<1	16	<1	50	<1
200772	<5	<0.5	165	141	<10	<1	34	<1	14	<1
*Rep 200772	<5	<0.5	151	153	<10	<1	32	<1	11	<1
200773	<5	<0.5	169	311	10	<1	36	<1	29	<1
200774	<5	<0.5	117	80	<10	<1	24	<1	63	<1
200775	<5	<0.5	171	162	<10	<1	35	<1	29	<1
200776	<5	0.7	99	186	10	<1	20	<1	48	<1
200778	<5	0.7	118	133	<10	<1	24	<1	38	<1
200779	<5	0.8	146	135	<10	<1	30	<1	24	<1
200780	6	1.4	156	96	20	<1	34	<1	43	<1
200781	5	<0.5	173	183	<10	<1	37	<1	35	<1
200783	<5	0.7	104	140	20	<1	22	<1	66	<1
200784	<5	0.5	152	132	20	<1	35	<1	51	<1
200785	6	1.6	169	116	30	<1	39	<1	79	<1
200786	6	1.4	121	109	60	<1	26	<1	71	<1
*Rep 200786	7	1.4	122	112	50	<1	27	<1	78	<1
200787	8	<0.5	113	164	<10	<1	23	<1	44	<1
200788	5	3.9	109	66	130	<1	26	<1	94	<1
200789	8	1.8	257	169	30	<1	60	<1	82	<1
200790	<5	0.9	141	276	70	<1	31	<1	53	<1
200792	5	1.5	210	305	110	<1	42	<1	27	<1
200793	<5	1.1	109	126	140	<1	22	<1	71	<1
200794	6	2.0	113	131	90	<1	24	<1	116	<1
*Std MMISRM16	46	<0.5	21	253	110	23	4	<1	322	<1
*Std MMISRM16	44	<0.5	19	226	110	23	4	<1	336	<1
*BLK BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*BLK BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

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Element Method Det.Lim. Units	Sc MMI-M5 5 PPB	Sm MMI-M5 1 PPB	Sn MMI-M5 1 PPB	Sr MMI-M5 10 PPB	Ta MMI-M5 1 PPB	Tb MMI-M5 1 PPB	Te MMI-M5 10 PPB	Th MMI-M5 0.5 PPB	Ti MMI-M5 3 PPB	Tl MMI-M5 0.5 PPB
200701	35	38	<1	2350	<1	7	<10	5.1	53	<0.5
*Rep 200701	34	37	<1	2430	<1	7	<10	5.2	53	<0.5
200702	21	152	<1	2300	<1	31	<10	7.5	18	<0.5
200703	20	72	<1	2590	<1	13	<10	6.5	21	<0.5
200704	11	18	<1	1610	<1	3	<10	5.2	40	<0.5
200705	18	127	<1	1610	<1	23	<10	7.5	20	<0.5
200706	41	107	<1	3440	<1	26	<10	5.7	11	<0.5
200707	19	51	<1	2900	<1	9	<10	3.5	33	<0.5
200709	50	28	<1	1690	<1	5	<10	6.9	325	<0.5
200710	114	131	<1	3050	<1	28	<10	11.3	30	<0.5
200711	21	27	<1	2330	<1	4	<10	5.7	156	<0.5
200712	65	91	<1	4080	<1	15	<10	7.4	30	<0.5
200714	41	54	<1	3340	<1	10	<10	5.2	36	<0.5
200715	9	6	<1	2830	<1	<1	<10	3.9	37	<0.5
*Rep 200715	8	5	<1	2740	<1	<1	<10	4.5	54	<0.5
200716	28	46	<1	2650	<1	8	<10	7.4	44	<0.5
200718	41	76	<1	2250	<1	16	<10	7.2	13	<0.5
200719	14	42	<1	2590	<1	8	<10	7.1	11	<0.5
200720	9	15	<1	2220	<1	2	<10	3.8	35	<0.5
200721	10	18	<1	1990	<1	3	<10	4.0	50	<0.5
200722	27	52	<1	3300	<1	9	<10	7.3	16	<0.5
200723	19	47	<1	3060	<1	8	<10	7.2	34	<0.5
200724	29	64	<1	2660	<1	12	<10	5.0	35	<0.5
200725	32	19	<1	1040	<1	3	<10	8.7	719	<0.5
200726	36	8	<1	1180	<1	2	<10	9.1	495	<0.5
200727	29	26	<1	2250	<1	5	<10	3.0	58	<0.5
200728	<5	18	<1	2390	<1	3	<10	1.9	6	<0.5
*Rep 200728	6	18	<1	2520	<1	3	<10	1.8	5	<0.5
200729	17	28	<1	2550	<1	4	<10	6.0	101	<0.5
200731	25	29	<1	2920	<1	5	<10	4.3	99	<0.5
200733	79	78	<1	2150	<1	14	<10	13.3	135	<0.5
200734	54	32	<1	1610	<1	5	<10	12.6	651	<0.5
200735	65	100	<1	2010	<1	18	<10	10.8	161	<0.5
200736	31	42	<1	1930	<1	7	<10	10.1	268	<0.5
200737	28	40	<1	1790	<1	6	<10	10.4	317	<0.5
200738	149	124	<1	4390	<1	28	<10	10.0	13	<0.5
200739	112	211	<1	3130	<1	34	<10	27.4	176	<0.5
200740	31	18	<1	2080	<1	3	<10	17.8	632	<0.5
200753	35	90	<1	2290	<1	15	<10	7.6	140	<0.5
200757	12	20	<1	2320	<1	3	<10	3.1	25	<0.5
*Rep 200757	12	19	<1	2290	<1	3	<10	3.0	34	<0.5
200759	25	37	<1	2680	<1	6	<10	5.5	99	<0.5
200760	22	38	<1	2070	<1	7	<10	6.2	81	<0.5

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200762	16	19	<1	1680	<1	3	<10	5.4	196	<0.5
200763	15	16	<1	1680	<1	3	<10	5.3	225	<0.5
200764	21	52	<1	2190	<1	9	<10	6.3	29	<0.5
200765	90	47	<1	1780	<1	8	<10	12.8	775	<0.5
200766	13	35	<1	1720	<1	5	<10	5.1	54	<0.5
200767	21	9	<1	1300	<1	2	<10	5.7	412	<0.5
200768	24	44	<1	2580	<1	7	<10	6.0	193	<0.5
200770	24	23	<1	1650	<1	4	<10	8.6	386	<0.5
200771	112	15	<1	2950	<1	4	<10	13.0	54	<0.5
200772	13	37	<1	5450	<1	6	<10	5.1	14	<0.5
*Rep 200772	16	36	<1	6220	<1	6	<10	6.1	15	<0.5
200773	32	42	<1	2710	<1	8	<10	6.8	46	<0.5
200774	20	28	<1	3400	<1	5	<10	6.7	43	<0.5
200775	22	42	<1	3520	<1	7	<10	5.8	46	<0.5
200776	21	24	<1	2870	<1	4	<10	4.7	71	<0.5
200778	21	25	<1	3000	<1	4	<10	8.2	51	<0.5
200779	24	33	<1	2500	<1	5	<10	7.6	99	<0.5
200780	29	36	<1	2140	<1	6	<10	6.0	250	<0.5
200781	26	41	<1	2120	<1	7	<10	7.6	100	<0.5
200783	32	26	<1	2710	<1	5	<10	5.3	134	<0.5
200784	50	34	<1	3280	<1	6	<10	12.2	76	<0.5
200785	39	39	<1	2240	<1	6	<10	12.3	437	<0.5
200786	23	28	<1	2330	<1	5	<10	7.7	295	<0.5
*Rep 200786	23	28	<1	2360	<1	4	<10	7.3	297	<0.5
200787	14	27	<1	2090	<1	5	<10	7.6	60	<0.5
200788	40	24	<1	1140	<1	4	<10	17.2	1400	<0.5
200789	39	56	<1	1860	<1	9	<10	17.9	575	<0.5
200790	104	35	<1	3520	<1	7	<10	12.1	91	<0.5
200792	77	57	<1	2960	<1	11	<10	15.0	254	<0.5
200793	68	30	<1	2150	<1	7	<10	13.1	156	<0.5
200794	84	28	<1	2020	<1	5	<10	12.5	536	<0.5
*Std MMISRM16	13	6	<1	470	<1	<1	<10	26.5	4	<0.5
*Std MMISRM16	12	5	<1	520	<1	<1	<10	22.5	6	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	3	<0.5

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	1 PPB	1 PPB	5 PPB	1 PPB	20 PPB	5 PPB
200701	9	<1	200	14	80	55
*Rep 200701	9	<1	201	13	60	54
200702	96	<1	947	65	<20	80
200703	16	<1	422	27	40	48
200704	6	<1	84	5	30	25
200705	48	<1	681	37	70	36
200706	99	<1	834	63	50	58
200707	11	<1	277	17	170	26
200709	6	<1	144	11	220	87
200710	21	<1	788	58	260	64
200711	6	<1	118	8	50	45
200712	15	<1	383	24	<20	60
200714	11	<1	286	19	40	53
200715	5	<1	24	2	<20	35
*Rep 200715	5	<1	21	1	20	37
200716	10	<1	262	16	180	55
200718	70	<1	519	39	90	67
200719	96	<1	247	16	<20	34
200720	12	<1	70	4	<20	23
200721	12	<1	82	5	<20	26
200722	17	<1	273	18	60	55
200723	12	<1	252	15	<20	44
200724	10	<1	327	21	60	44
200725	6	<1	96	7	90	115
200726	4	<1	44	3	40	69
200727	9	<1	183	13	80	41
200728	48	<1	87	6	<20	13
*Rep 200728	47	<1	85	5	<20	13
200729	11	<1	120	8	80	48
200731	5	<1	134	8	<20	49
200733	23	<1	394	28	30	82
200734	7	<1	133	8	130	117
200735	14	<1	493	34	540	44
200736	13	<1	169	11	240	56
200737	12	<1	147	10	130	57
200738	34	<1	1010	79	280	81
200739	17	<1	933	53	<20	140
200740	8	<1	101	6	300	121
200753	11	<1	396	26	1070	53
200757	6	<1	100	7	50	22
*Rep 200757	5	<1	99	6	60	21
200759	7	<1	194	12	150	41
200760	11	<1	190	13	50	54

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Element Method Det.Lim. Units	U MMI-M5 1 PPB	W MMI-M5 1 PPB	Y MMI-M5 5 PPB	Yb MMI-M5 1 PPB	Zn MMI-M5 20 PPB	Zr MMI-M5 5 PPB
200762	7	<1	84	6	90	39
200763	7	<1	72	5	80	43
200764	19	<1	283	18	40	42
200765	9	<1	256	18	310	136
200766	21	<1	166	9	<20	26
200767	5	<1	46	4	80	92
200768	9	<1	221	14	120	45
200770	5	<1	109	7	130	81
200771	8	<1	125	8	160	59
200772	10	<1	163	10	20	22
*Rep 200772	13	<1	167	10	30	25
200773	11	<1	226	15	140	44
200774	7	<1	116	7	<20	42
200775	19	<1	182	13	60	36
200776	7	<1	123	8	370	45
200778	9	<1	97	8	30	56
200779	8	<1	129	9	60	57
200780	6	<1	161	11	500	56
200781	23	<1	189	12	100	65
200783	5	<1	132	9	210	58
200784	12	<1	121	9	70	69
200785	10	<1	157	11	140	87
200786	12	<1	123	9	110	57
*Rep 200786	11	<1	119	8	110	58
200787	19	<1	123	9	80	47
200788	7	<1	112	9	100	125
200789	12	<1	227	15	170	66
200790	11	<1	188	13	60	82
200792	10	<1	336	26	150	84
200793	17	<1	222	15	70	85
200794	8	<1	147	11	350	122
*Std MMISRM16	46	<1	12	<1	220	15
*Std MMISRM16	39	<1	11	<1	200	13
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

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