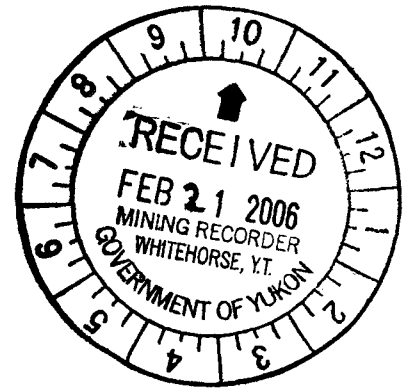


094569



Manson Creek Resources Limited

**REPORT on the
2005 SOIL SAMPLING and
MAGNETIC SURVEY on the CUPRUM PROPERTY,
WHITEHORSE AREA, YUKON**

on quartz claims:

Cuprum 1 to 10 YC39067 to 76

For work done July 7 to 15, 2005

By

Scott Casselman B.Sc, P. Geo.

**Aurora Geosciences Ltd
108 Gold Road
Whitehorse, Yukon, Y1A 2W3**

**YUKON ENERGY, MINES
& RESOURCES LIBRARY
P.O. BOX 2703
WHITEHORSE, YUKON Y1A 2C6**

**Location: Latitude 61° 0'15" N, Longitude 135° 59'20"W
Mining District: Whitehorse
NTS: 105E04 & 115H01
Date: February 20, 2006**

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
reconnaissance work in the amount
of \$ 5000.

M. B.
Regional Manager, Exploration and
Geological Services for Commissioner
Yukon Territory.

Costs associated with this report have been
approved in the amount of \$ 5000.00
for assessment credit under Certificate of Work
No. QW27870
J. Southwick
Mining Recorder
Whitehorse Mining District

SUMMARY

Manson Creek Resources Limited contracted Aurora Geosciences Ltd to conduct an exploration program on the Cuprum claims in the Whitehorse area, Yukon, during the summer of 2005. Aurora provided a crew of four persons to conduct the exploration program. This report documents the work conducted by Aurora in 2005 and includes a review of historical exploration work conducted in the area by other operators.

The Cuprum property lies within the Whitehorse Copper Belt, a region that has had significant past production from copper-gold-bearing skarn deposits. The Copper Belt has historic reserves of 3,000,000 tonnes containing 1% copper, 0.06% molybdenum, 0.1 grams/tonne gold and 3.7 grams/tonne silver from several deposits.

The 2005 exploration program consisted of establishing a grid using a hipchain and compass and marking stations with flagging. Soil samples were collected at 25 m intervals on the grid and total magnetic field measurements were recorded at 12.5 m intervals.

The largest pod of skarn-type mineralization discovered to date on the property measures a few metres wide by up to 30 m long. This alteration zone associated with this mineralization has been traced intermittently for a length of 760 m. The magnetic survey was successful in tracing massive magnetite mineralization associated with this alteration.

The soil sampling survey identified some scattered one to two station gold and arsenic anomalies and a large, strong copper anomaly in the area of an old trench that reported appreciable copper values. Copper values in soil were up to 852 ppm.

Recommendations for future work on the property are to:

- 1 Fill-in the soil sampling and magnetic survey in the eastern part of the property.
- 2 Rock sampling and geological mapping throughout the property.
- 3 Prospecting the slopes surrounding the property with particular attention to the margins around the intrusive contact.
- 4 Drill testing of targets defined by the above surveys with 3 to 4 drill holes including testing below the trenches for a total of 500 m.

An estimated budget for this program is \$150,000.

TABLE OF CONTENTS

	Summary	
1.0	Introduction	1
2.0	Property Location and Access	1
3.0	Claim Information.....	1
4.0	Physiography and Climate	4
5.0	History.....	4
6.0	Geological Setting.....	5
6.1	Regional Geological Setting.....	5
6.2	Property Geology	8
7.0	2005 Exploration Program	8
8.0	Geochemical Analytical Procedure	9
9.0	Results.....	9
9.1	Soil Sampling Geochemical Results	9
9.2	Total Magnetic Field Survey Results	10
10.0	Conclusions and Recommendations.....	11
11.0	Statement of Expenditures.....	12
12.0	References	13

Figures

1	Property Location Map.....	2
2	Claim Map.....	3
3	Regional Geology Map	7
4	Soil Sample Location Map	In Pocket
5	Soil Sample Gold Geochemistry	In Pocket
6	Soil Sample Copper Geochemistry	In Pocket
7	Soil Sample Arsenic Geochemistry.....	In Pocket
8	Shaded Relief Total Magnetic Field Map	In Pocket
9	Property Geology Map.....	In Pocket

Tables

1	Claim Information.....	3
2	Lithological Formations.....	6

Appendices

Appendix I	Statement of Qualifications
Appendix II	Geochemical Analytical Certificates
Appendix III	Crew Log
Appendix IV	Minfile Occurrences

1.0 INTRODUCTION

Manson Creek Resources Limited contracted Aurora Geosciences Ltd to conduct an exploration program on the Cuprum claims during the summer of 2005. The program was designed to test a skarn occurrence reported in Yukon Minfile occurrence 105E 008. The occurrence reported abundant bornite and chalcopyrite mineralization in skarnified limestone in contact with biotite granite. Historical samples from the property assayed up 17% Cu, and a sample collected by Department of Indian and Northern Affairs in 1993 returned 2.87% Cu, 9.5 g/t Ag and elevated zinc levels. The 2005 program consisted of prospecting, establishing a grid, soil sampling and magnetic survey.

The crew consisted of Kel Sax (geologist), Mitch Smaaslet, Andre Lebel and Mike Achtymichuk (field assistants). The crew mobilized from Whitehorse on July 7 and set-up camp near the property that same day. From July 9 to 15 the crew conducted the field program and demobilized to Whitehorse at the end of the day on July 15th.

This report includes a review of historical exploration work conducted in the area. The author is a professional geologist and supervised the field crew, although he has not set foot on the property.

2.0 PROPERTY LOCATION AND ACCESS

The Cuprum Property is located 70 km northwest of Whitehorse, Yukon. The claims are west of Thirty-Seven Mile Creek on NTS map sheet 105E04 and are centred at 61° 0'15' latitude and 135° 59'20" longitude (Figure 1).

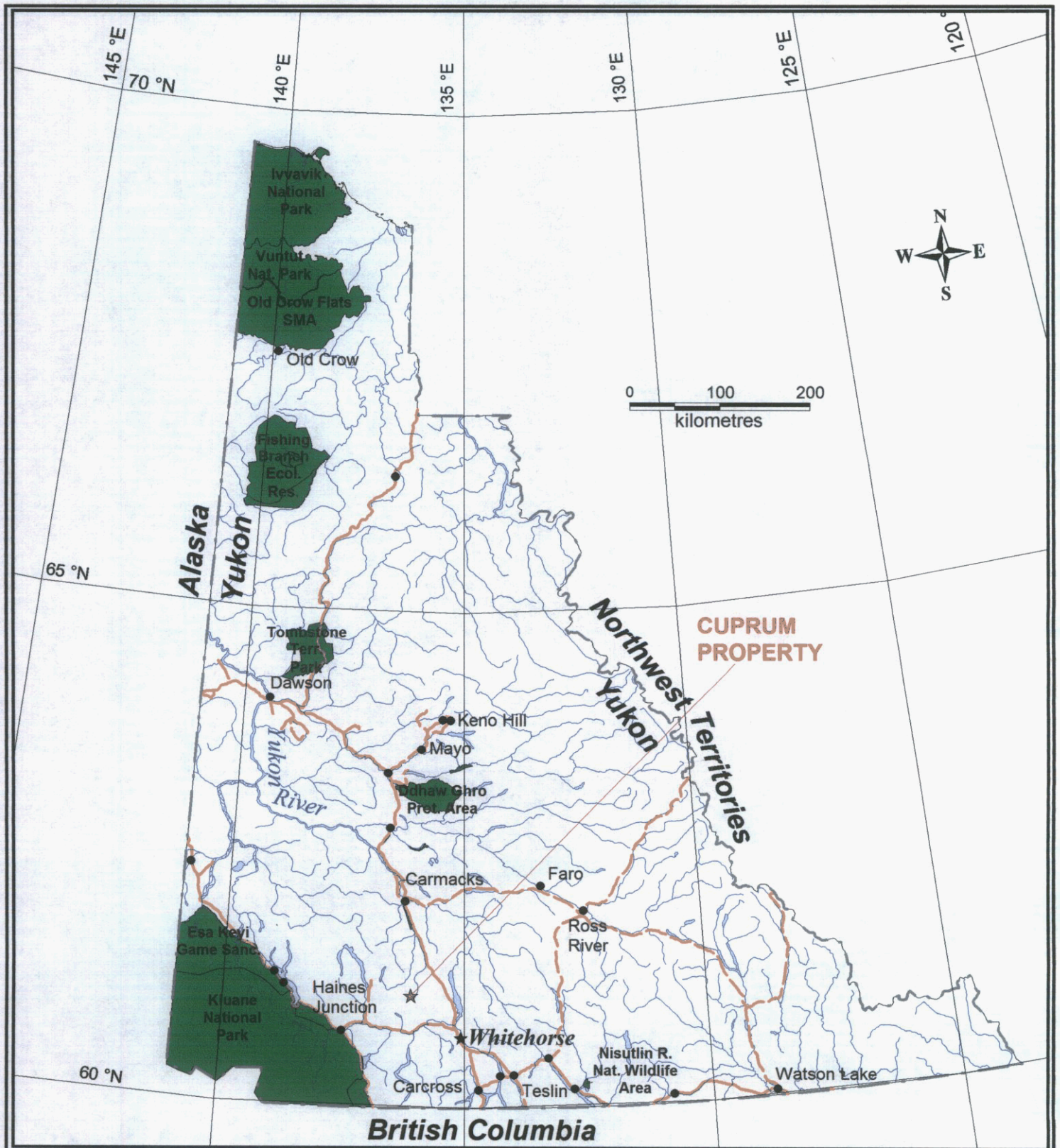
The project area is accessible by a narrow dirt road that runs along the east side of Thirty-Seven Mile Creek from the Alaska Highway, near the Takhini River bridge for approximately 25 km to the property.

3.0 CLAIM INFORMATION

The Cuprum Property consists of 10 quartz claims staked in accordance with the Quartz Mining Act and are in the Whitehorse Mining District. The claims are plotted on Figure 2. Claim information is as follows:

Table 1. Claim Information

Claim Name	Grant Number	Expiry Date *
CUPRUM 1 to 10	YC39067 to YC39076	February 17, 2011

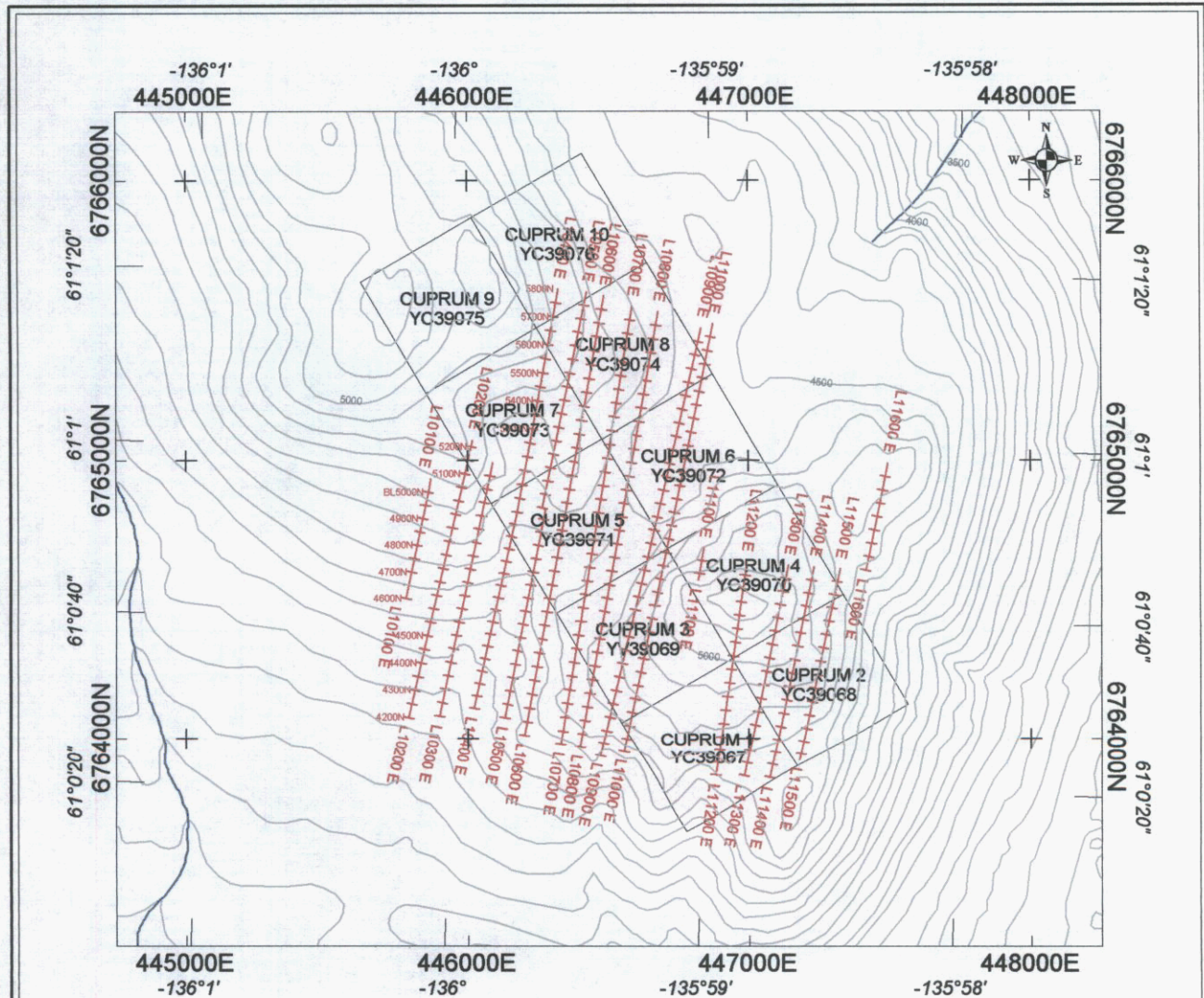


**MANSON CREEK RESOURCES
CUPRUM PROPERTY
LOCATION MAP**


Figure 1

January 23, 2006

20 February 2006
 PROFESSIONAL
 MEMBER OF
 S. J. CASSELMAN
 BRITISH COLUMBIA
 ASSOCIATION OF
 GEOSCIEN



LEGEND

 Soil and Magnetic Survey Grid

20 February 2006
 PROFESSIONAL
 PROVINCE OF
 S. J. CASSELMAN
 BRITISH COLUMBIA
 GEOSCIENTIST

Scale 1:25000
 250 0 250 500
 metres
 NAD83 / UTM zone 8N

MANSON CREEK RESOURCES LTD.	
CUPRUM PROPERTY 2005 EXPLORATION PROGRAM Figure 2 - Claims and Grid Location Map	
NTS: 105E04 & 115H01 Datum: NAD83 Date: January 23, 2006	Mining District: Whitehorse Projection: UTM Zone 8N Job: MCK-05-01-YT
Aurora Geosciences Ltd.	

The claims are in good standing with expiry dates of February 17, 2011, based on the 2005 exploration work being accepted for assessment credit. The claims and are owned 100% by 37999 Yukon Limited and are currently under option to Manson Creek Resources Ltd.

4.0 PHYSIOGRAPHY AND CLIMATE

The Cuprum Property is in the Sifton Range Mountains south of the Yukon Plateau and east of the Kluane Plateau. The property covers a north-west, south-east trending ridge in mountainous terrain. Elevations range from about 4500 feet to 5200 feet above sea level. The claims are entirely above tree line. At lower elevations spruce and poplar trees predominate.

The area experiences cold dry winters and hot dry summers. Snow usually begins accumulating in late September or early October and is generally melted by late May to early June. Temperatures range from highs in the mid 30^os in summer to lows to -40^o C in winter.

The nearest major city centre is Whitehorse, a supply centre for this region with an ample labour force. Power is available along the Alaska Highway 27 km south of the property. Water resources are abundant in the project area in flowing streams and lakes.

5.0 HISTORY

The exploration history of the Cuprum Area dates back to 1953 when L. Fox and Associates staked the Sunrise, Luck, Grizzlie, Eagle and Jackie claims to cover the skarn occurrence. There is no record of any work being conducted and the claims were later allowed to lapse.

The area was re-staked as the Dorothy and Nayda claims by F. Morris and R. Miller in 1964 with no record of any work being completed. In 1968, the area was re-staked as the Oscar claims by G. Leverman and then optioned to Takini River Minerals Ltd. In 1968 and 1969, Takini River Mining conducted ground magnetic and electromagnetic surveys, hand trenching, and soil sampling. There is no record of any further work being completed by Takini River and the claims were later allowed to lapse.

In 1970, H. Larson re-staked the area as the Ruth claims and in 1970 he constructed a tote trail into the property. The claims were allowed to lapse and Mr Larson re-staked as the Lake Claims in 1972. Later that year he conducted some hand trenching. In 1974, he expanded the claim group by staking the Jack claims and in 1974 and 1975 conducted bulldozer trenching and prospecting on the property. In 1976, 1978, 1979, 1984 and 1990 Larson conducted more hand trenching on the property. The claims were subsequently allowed to lapse and in 1997, Larson re-staked the area as the Zeus

claims. There is no record of any work being performed on these claims and they were later allowed to lapse.

In 1993, the Department of Indian and Northern Affairs collected samples from the property that returned 0.3% to 2.87% copper, 9.5 g/t silver and elevated zinc levels.

In February of 2005, 37999 Yukon Inc. staked the Cuprum claims and later that year they optioned the property to Manson Creek Resources Ltd.

6.0 GEOLOGICAL SETTING

6.1 Regional Geological Setting

The Cuprum Property lies within Intermontane Belt of Yukon and is underlain by rocks of Stikinia Terrane. Stikinia Terrane is a thick sequence of folded sedimentary strata that are 220 to 160 million years old. It consist of Lewes River Group greywacke, limestone and shale (Aksala and Pavoas formations); Laberge Group shale, greywacke, conglomerate and arkose; and Nordenskiold Formation volcanics. Stikinia is overlain by Upper Cretaceous Carmacks Formation volcanics, Lower Eocene Skukum Formation volcanics and Quaternary sediments. Table 2 lists layered rocks in the region.

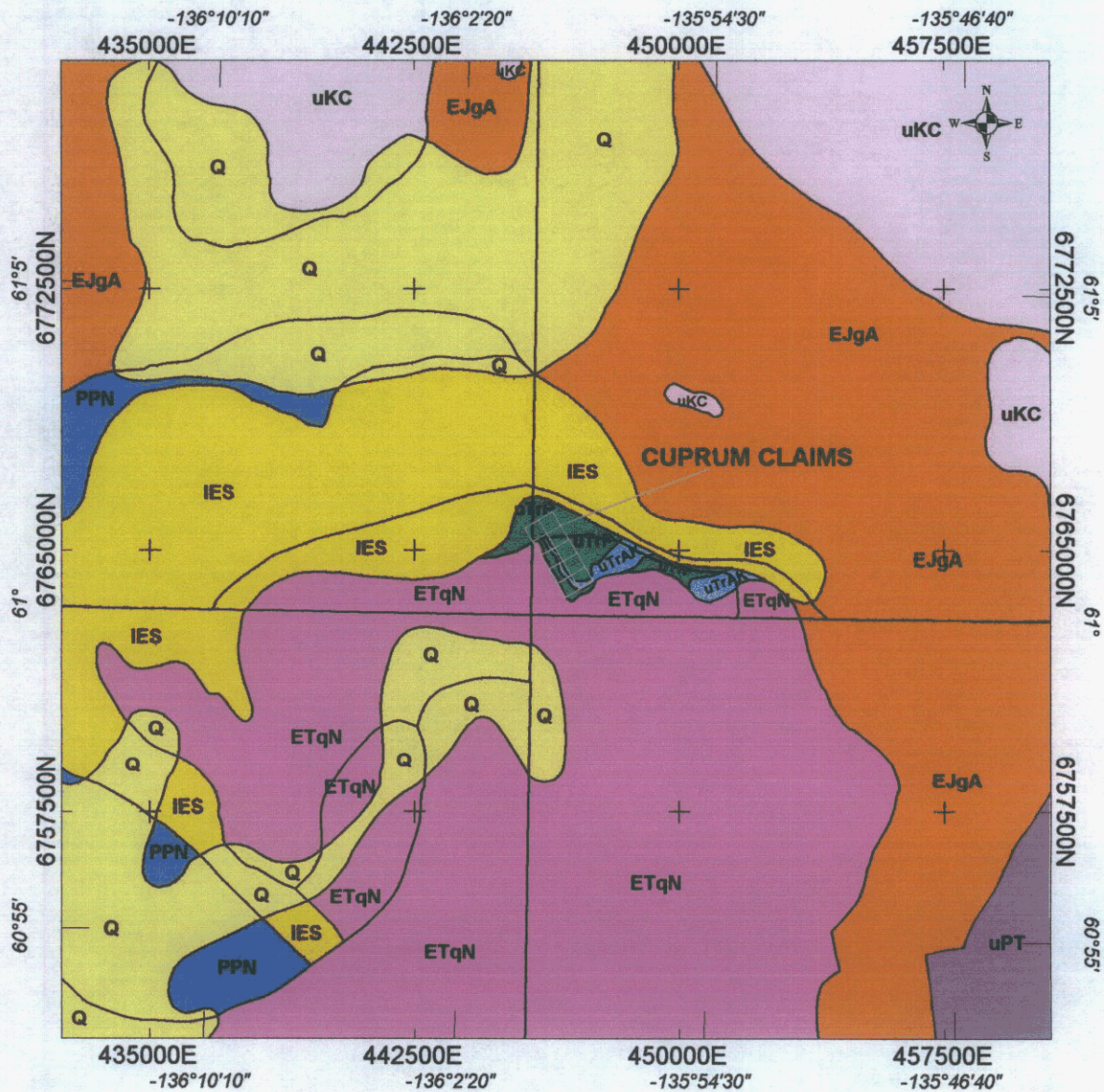
The layered rocks are intruded by the Nisling Range Suite (**EtqN**) and the Aishihik Suite (**EjgA**). The Nisling Range Suite is comprised of leucocratic, biotite granite; miarolitic alaskite; saccharoidal textured, mafic-poor biotite granite; biotite-hornblende granite to leucocratic granodiorite with sparse, white, alkali feldspar phenocrysts; biotite quartz monzonite.

The Aishihik Suite is comprised of medium to coarse grained, foliated biotite-hornblende granodiorite; biotite rich screens and gneiss schlieren; foliated hornblende diorite to monzodiorite with local K-feldspar megacrysts.

The Cuprum Property area is within the Whitehorse Copper Belt. The Copper Belt has a long history of mining from skarn-related copper-gold deposits associated with mid Cretaceous intrusions. The Copper Belt has historic reserves of 3,000,000 tonnes containing 1% copper, 0.06% molybdenum, 0.1 grams/tonne gold and 3.7 grams/tonne silver from several deposits.

Table 2. Lithological Formations

Unit (symbol) Age	Description
Quaternary Sediments (Q) Quaternary	Unconsolidated glacial, glaciofluvial and glacialacustrine deposits of silt, sand, and gravel with a cover of soil and organic deposits.
Skukum Fromation (IES) Lower Eocene	Flow banded rhyolite flows and breccia, andesite flows and breccia, tuff, pyroclastic and epiclastic rocks, granite conglomerate; rhyolite feldspar porphyry domes, plugs and laccoliths.
Carmacks Formation (uKC1) Upper Cretaceous	Augite olivine basalt and breccia; hornblende feldspar porphyry andesite and dacite flows; vesicular, augite phyric andesite and trachyte; minor sandy tuff, granite boulder conglomerate, agglomerate and associated epiclastic rocks.
Aksala Formation (uTrAK2) Upper Triassic	Massive to thick bedded limestone; minor thin bedded argillaceous to sooty limestone; coarsely crystalline, massive dolostone; minor laminated chert; massive to poorly bedded, limestone conglomerate debris flows and fanglomerate.
Povoas Formation (uTrP) Upper Triassic	Augite or feldspar phyric, locally pillowed andesitic basalt flows, breccia, tuff, sandstone and argillite; local dacitic breccia and tuff with minor limestone; greenschist, chlorite schist, chlorite-augite-feldspar gneiss, amphibolite.
Takhini Assemblage (uPT) Upper Proterozoic	Variably sheared and metamorphosed metabasite, amphibolite gneiss, tuff, wacke and marble with minor quartz mica schist and orthogneiss.
Nisling Group (PPN1) Proterozoic to Paleozoic	Consists of dark grey to brown, biotite-muscovite-quartz-feldspar schist, quartzite and micaceous quartzite, garnetiferous; felsic chlorite-biotite orthogneiss; rare amphibolite; minor(?) two-mica gneiss and hornblende diorite gneiss.



LEGEND

- Q** Quaternary - Silt, Sand and Gravel
- IES** Lwr. Eocene Skukum Suite - Rhyolite / Andesite Flows and Breccia
- ETqN** Early Tertiary Nisling Range Suite - Biotite Granite
- uKC** Upr. Cretaceous Carmacks Suite - Basalt and Breccia
- EJgA** Early Jurassic Aishihik Suite - Foliated Biotite-Hornblende Granodiorite
- uTrAK** Upr. Triassic (Norian) Aksala Suite - Limestone and Dolostone
- uTrP** Upr. Triassic (Carnian) Povoas Suite - Breccia, Tuff, Sandstone and Argillite
- uPT** Upr. Paleozoic Takhini Suite - Metabasite, Amphibolite Gneiss, and Marble
- PPN** Late Proterozoic and Paleozoic Nisling Suite - Biotite-Muscovite-Quartz-Feldspar Schist

20 February 2006
 PROFESSIONAL
 FIDELITY OF
 S. J. CASSELMAN
 BRITISH COLUMBIA
 GEOSCIEN

Scale 1:200000
 2500 0 2500
 metres
 NAD83 / UTM zone 8N

MANSON CREEK RESOURCES LTD.	
CUPRUM PROPERTY 2005 EXPLORATION PROGRAM Figure 3 - Regional Geology	
NTS: 105E04 & 115H01 Datum: NAD83 Date: January 24, 2006	Mining District: Whitehorse Projection: UTM Zone 8N Job: MCK-05-01-YT
<i>Aurora Geosciences Ltd.</i>	

6.2 Property Geology

The property geology plotted on Figure 9 was provided by Regan Chernish of Manson Creek Resources Ltd. Mr. Chernish spent 2 days onsite examining the historic trenches, collecting some samples and performing some cursory geological mapping.

The property is underlain by intermediate volcanic rocks of the Povoas Formation and limestone of the Aksala Formation. These rocks appear to be contact metasomatized by the Nisling Range Suite biotite granite to the south, although the contact relationship is not directly observed. The carbonate rocks exhibit the greatest degree of alteration.

The carbonate rocks are altered to calc-silicate and hornfels with massive magnetite-sulphide mineralization in large pods within the altered rocks and as disseminated mineralization. The magnetite contains variable amounts of iron and copper sulphides with up to 17% copper reported historically.

7.0 2005 EXPLORATION PROGRAM

The 2005 exploration program on the Cuprum Property consisted of establishing a grid by hip chain and compass, and marking stations with flagging. A baseline was run at 5000 N, line spacing was nominally 100 m and station spacing of 25 m. Soil samples were collected at 25 m intervals along the lines. Steep terrain and an encounter with a grizzly bear limited the crew's ability to sample the central portion of the grid. A total of 384 soil samples were collected.

For the magnetic survey the crew was equipped with the following instruments and equipment:

Field unit: 2 - Gem GSM-19 Overhauser magnetometers.

Base unit: 1 - Gem GSM-19T proton precession magnetometer.

Data processing: P-800 laptop and colour printer. Data processing with Geosoft software and proprietary data conversion software.

The magnetometer survey was conducted according to the following specifications:

Station spacing: 12.5 m nominal.

Base station magnetometer: Installed near the camp and cycled at 10 s intervals. Variations exceeding 3 nT over the 10 s interval were rejected.

Levelling: The operator levelled to a common datum by surveying, on a daily basis, a 150 m interval and calculating the mean difference.

Station Coordinates: All geographic coordinates are in NAD 83 UTM, zone 8N coordinates and were determined by Garmin GPS 72.

The total magnetic field data was corrected for temporal geomagnetic variation relative to the base station unit, using software incorporating linear interpolation. Any data taken during intervals when the base station magnetometer varied by 3 nT or greater over 10 s were rejected.

The station locations were determined by non-differential GPS recording the end of each survey line and the intersection of the line with the base line. Stations locations were then interpolated between these points.

8.0 GEOCHEMICAL ANALYTICAL PROCEDURE

All samples were sent to Acme Analytical Laboratories in Vancouver for processing. Acme is an ISO 9002 accredited facility.

The analytical procedure consisted of drying the samples then sieving to -80 mesh. A 30.0 gm sample of the -80-mesh material was then digested in 180 ml of aqua-regia solution and diluted to 600 ml with distilled water. This solution was then analyzed for gold and 36 elements by Inductively Coupled Plasma Mass Spectrometry (ICP-MS) according to the Acme Group 1DX analytical package. Geochemical Analytical Certificates for the 2005 program are included in Appendix II.

9.0 RESULTS

9.1 SOIL SAMPLING GEOCHEMICAL RESULTS

Soil sample locations are plotted on Figure 4, soil sample results for gold, copper and arsenic are plotted on Figures 5, 6 and 7, respectively. Statistical analysis of the data for gold, copper and arsenic returned the following results:

Element	<u>Cu</u>	<u>Au</u>	<u>As</u>
# of samples	384	384	384
Minimum value	3.3 ppm	<0.5 ppb	<0.5 ppm
Maximum value	852 ppm	54.6 ppb	9.9 ppm
Average	39.1 ppm	2.2 ppb	3.3 ppm
Standard Deviation	63.8 ppm	3.5 ppb	1.2 ppm

For the copper analyses background values are taken to be < mean plus one standard deviation (i.e. < 102.9 ppm). Values from mean plus one to mean plus 2 standard deviations (i.e. 102.9 to 166.7 ppm) are considered anomalous and mean plus 3 standard deviations (i.e. > 166.7 ppm) are considered highly anomalous. The copper plot in Figure 6 shows a large, highly anomalous area on lines 10900E and 11000 E

from 4575 N to 4900 N. Unfortunately this was in the area where the crew was prevented from completing the sampling due to an encounter with a grizzly bear. This anomaly is open to the east and south. This anomaly is centred around a trench that contained massive magnetite mineralization with chalcopyrite.

For the gold analyses background values are taken to be < mean plus one standard deviation (i.e. < 5.7 ppb). Values from mean plus one to mean plus 2 standard deviations (i.e. 5.7 to 9.2) are considered anomalous and mean plus 3 standard deviations (i.e. > 9.2 ppb) are considered highly anomalous. The gold geochemistry plot in Figure 5 shows a number of scattered anomalous to highly anomalous values throughout the property. These are generally very spotty and are one to two stations highs. There is a weak correlation with the copper geochemistry.

The arsenic analyses background values are taken to be < 4.5 ppm; anomalous values are 4.5 to 5.7 ppm; and highly anomalous values are > 5.7 ppm. The arsenic geochemistry plot in Figure 7 shows a moderate correlation with gold geochemistry with scattered one to two station highs.

9.2 TOTAL MAGNETIC FIELD SURVEY RESULTS

The presence of cliffs and steep terrain in the central portion of the grid limited the crew's ability to complete the magnetics survey in this section of the claims. The total magnetic field data was processed by first correcting the rover magnetometer data for diurnal variations with the base station data. Next the GPS survey coordinates were merged with the station reading coordinates to register all readings in NAD 83 UTM coordinates. This data was then imported into Oasis Montaj software to create the plot of Shaded Relief Total Magnetic Field in Figure 8.

Figure 8 shows two magnetic high anomalies in the western part of the property and one in the southern portion of the property. The north-western anomaly measures approximately 400 m east-west and 200 m north-south and has a field strength of 851 nano Tesla (57920-58771 nT).

The south-western anomaly measures approximately 500 m east-west and 300 m north-south and has a field strength of 637 nano Tesla (57920-58557 nT). This south-western anomaly appears to stretch beyond the western boundary of the grid.

The southern magnetic anomaly measures approximately 400m east-west and 200m north-south and has a field strength of 637 nano Tesla (57920-58557 nT). Elsewhere in the survey area readings are generally within a background of 57850 to 57950 nT.

10.0 CONCLUSIONS and RECOMMENDATIONS

The Cuprum property lies within the Whitehorse Copper Belt, a region that has had significant past production copper-gold-bearing skarn deposits. The Copper Belt has historic reserves of 3,000,000 tonnes containing 1% copper, 0.06% molybdenum, 0.1 grams/tonne gold and 3.7 grams/tonne silver from several deposits.

The largest pod of skarn-type mineralization discovered to date on the Cuprum Property measures a few metres wide by up to 30 m long. This zone has been traced intermittently for a length of 760m in scattered outcrop. The magnetic survey was successful in tracing massive magnetite mineralization associated with this alteration.

The soil sampling survey identified some scattered one to two station gold and arsenic anomalies that did not correlate well with copper. However, the soil survey did identify a large, strong copper anomaly in the area of an old trench that reported appreciable copper values. Copper values in soil were up to 852 ppm.

Recommendations for future work on the property are to:

- 1 Fill-in the soil sampling and magnetic survey in the eastern part of the property.
- 2 Rock sampling and geological mapping throughout the property.
- 3 Prospecting the slopes surrounding the property with particular attention to the margins around the intrusive contact.
- 4 Drill testing of targets defined by the above surveys with 3 to 4 drill holes including testing below the trenches for a total of 500 m.

An estimated budget for this program is \$150,000.

Respectfully Submitted,


Scott Casselman, B.Sc., P. Geo
Geologist

11.0 STATEMENT OF EXPENDITURES

Exploration costs - Aurora Geosciences Ltd, Contract Services

Wages

- Kel Sax	- 9 days @ \$567.10	\$5,103.90
- Andre Lebel	- 9 days @ \$428.00	3,852.00
- Mitch Smasslet	- 9 days @ \$401.25	3,611.25
- Mike Achtymichuk	- 9 days @ \$401.25	3,611.25
Truck rental	- 3 days @ \$107.00	321.00
Magnetometer rental	- 2 mags @ \$96.30/day x 9 days	1,733.40
Meals	- 32 person days @ \$37.45/pers day	1,198.40
Camp rental (incl phone, gen, etc)	- 9 days @ \$164.52	1,480.66
Supplies		386.77
Sample shipment		183.71
Aurora Project Administration charges		809.31
Sample Analysis - Acme Labs		6,993.18
Report Writing - Aurora Geosciences Ltd		<u>\$3,210.00</u>
Total exploration costs		<u>\$ 32,492.83</u>



12.0 REFERENCES

- Deklerk, R., 2002. Yukon Minfile, 2002, A Database of Mineral Occurrences. Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada.
- Gordey, S. P. and Makepeace, A. J., 2003. Yukon Digital Geology version 2.0. Yukon Geological Survey Open File 2003-9(D).
- Mougeot, C. M. and Walton, L. A., 1996. Yukon Geoprocess File (2002), Geological Processes and Terrain Hazards of Lake Laberge, 105E. Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada.

APPENDIX I
STATEMENT OF QUALIFICATIONS

Statement of Qualifications

I, Scott Casselman, P. Geo., certify that:

- 1) I reside at 33 Firth Road, Whitehorse, Yukon Territory, Y1A 4R5
- 2) I am a geologist employed by Aurora Geosciences Ltd. of Whitehorse, Yukon Territory.
- 3) I graduated from Carleton University in Ottawa, Ontario with a Bachelor of Science Degree in Geology in 1985 and have worked as a geologist since that time.
- 4) I am a member of the Association of Professional Engineers and Geoscientists of British Columbia, Registration No. 20032.
- 5) I compiled this report from data collected by Aurora Geosciences staff on the Cuprum Property during the summer of 2005.
- 6) I have not visited the Cuprum Property.

Dated this 20th day of February, 2006, at Whitehorse, Yukon Territory.


Scott G. Casselman, BSc., P. Geo.

APPENDIX II

GEOCHEMICAL ANALYTICAL CERTIFICATES

GEOCHEMICAL ANALYSIS CERTIFICATE

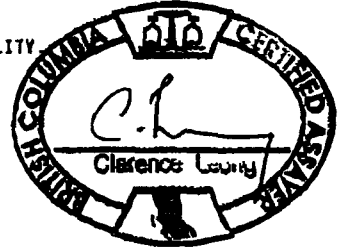
Aurora Geosciences Ltd. PROJECT Cuprum File # A503693 Page 1

108 Gold Road, Whitehorse YT 1A 2A3 Submitted by: Scott Casselman

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Az	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sample	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%ppm	ppm	%ppm	%ppm	%ppm	%ppm	%ppm	%ppm	%ppm	%ppm	%ppm	ppm	ppm	ppm	ppm	%ppm	ppm	ppm	gr
L102E 52+25N	.9	14.6	10.7	61	.1	9.6	6.2	340	2.36	2.0	1.6	1.1	5.9	19	?	?	?	46	79	.052	22	18.1	.53	164	.110	1	1.43	.022	.12	.5	.03	3.1	.2	<.05	6	<.5	30	
L102E 52+00N	1.3	12.0	11.3	59	.2	8.0	5.3	358	2.15	1.8	2.5	1.5	7.4	10	.1	.2	.2	42	.17	.036	24	15.6	.50	82	.087	<1	1.30	.016	.14	.6	.04	2.8	.2	<.05	4	<.5	15	
L102E 51+75N	1.0	16.7	8.5	62	.1	17.3	9.1	401	2.65	4.1	1.0	.9	3.1	27	.1	.3	.2	62	.41	.063	13	33.3	.68	235	.129	1	1.88	.019	.14	.2	.02	3.5	.1	<.05	7	<.5	30	
L102E 51+50N	3.1	13.6	10.0	65	.1	12.6	5.3	285	2.17	2.6	2.2	.9	5.2	18	.1	.2	.2	47	.25	.059	19	26.8	.59	117	.122	1	1.56	.014	.16	.4	.05	2.7	.2	<.05	7	.5	30	
L102E 51+25N	3.0	10.3	8.7	58	.1	7.7	5.8	788	2.28	2.5	1.2	.6	4.6	16	.2	.3	.2	46	.18	.039	17	17.4	.32	121	.117	1	.95	.012	.12	.4	.04	1.8	.2	<.05	6	<.5	30	
L102E 51+00N	.6	16.1	7.7	59	.1	16.8	8.7	402	2.42	3.2	2.0	2.0	7.5	21	.1	.3	.1	58	.33	.032	18	29.3	.73	115	.170	<1	1.73	.023	.12	.2	.02	3.7	.2	<.05	6	<.5	30	
L102E 50+75N	1.5	16.1	11.7	80	.2	15.1	6.9	582	2.58	2.9	2.1	1.0	15.3	15	.3	.2	.2	45	.21	.031	27	26.0	.59	130	.127	1	1.61	.017	.20	.4	.03	3.2	.2	<.05	6	<.5	30	
L102E 50+50N	1.0	17.1	10.3	91	.1	20.4	11.0	702	2.97	4.3	2.0	1.8	4.0	23	.2	.3	.2	64	.30	.046	15	35.8	.78	186	.142	1	2.06	.020	.21	.2	.04	3.5	.2	<.05	8	<.5	30	
L102E 50+25N	1.5	10.9	11.7	96	.1	9.1	6.1	520	2.61	2.2	2.2	.9	8.0	18	.2	.1	.3	44	.25	.036	24	18.0	.55	167	.134	<1	1.37	.019	.20	.7	.04	3.3	.3	<.05	7	<.5	30	
L102E 50+00N	1.3	17.8	12.2	83	.1	17.0	8.8	518	3.01	4.0	2.6	1.2	12.1	19	.2	.2	.2	59	.31	.038	22	29.0	.76	173	.171	<1	1.99	.020	.24	.5	.03	4.2	.3	<.05	7	<.5	30	
L102E 49+75N	1.9	13.5	10.6	104	.1	13.5	7.2	536	2.74	4.2	2.6	1.1	9.8	17	.5	.3	.2	53	.23	.032	20	26.0	.57	130	.145	1	1.74	.016	.16	.4	.05	3.2	.2	<.05	7	.7	30	
L102E 49+50N	1.4	12.7	9.8	73	.1	15.0	7.8	452	2.65	3.6	2.1	.7	8.9	21	.3	.3	.2	56	.30	.031	18	28.0	.66	125	.162	1	1.67	.019	.19	.3	.03	3.5	.2	<.05	6	<.5	15	
L102E 49+25N	.9	12.8	8.6	64	.1	16.8	8.1	327	2.86	4.7	1.7	.9	9.7	20	.2	.3	.2	63	.32	.031	17	33.2	.70	141	.179	1	1.82	.020	.19	.3	.02	3.4	.1	<.05	7	<.5	30	
L102E 49+00N	1.2	11.9	6.9	93	.1	10.7	6.3	405	2.63	2.2	1.6	1.1	8.3	14	.3	.1	.2	52	.21	.031	23	18.7	.66	146	.157	<1	1.24	.015	.24	.9	.02	3.7	.2	<.05	6	<.5	30	
L102E 48+75N	1.5	14.8	9.4	98	.1	17.8	10.4	859	2.83	4.3	1.6	.9	7.1	24	.5	.3	.2	62	.37	.049	18	31.4	.63	198	.163	<1	1.81	.017	.20	.3	.03	3.6	.2	<.05	8	.5	30	
L102E 48+50N	1.3	7.5	7.8	58	.1	7.8	4.1	390	2.17	2.0	1.7	<.5	6.7	11	.1	.2	.2	36	.17	.035	29	15.2	.41	97	.115	1	1.06	.016	.16	.4	.03	2.4	.2	<.05	5	.5	30	
L102E 48+25N	1.3	12.3	10.0	89	.1	16.8	7.6	355	2.85	4.4	1.2	<.5	6.0	25	.2	.3	.2	59	.38	.052	14	31.3	.68	121	.155	1	1.69	.019	.20	.4	.03	3.1	.2	<.05	7	<.5	30	
L102E 48+00N	1.9	9.8	10.6	76	.1	17.6	6.5	468	2.82	3.4	2.3	1.1	10.1	26	.1	.3	.5	57	.36	.033	19	23.4	.55	154	.174	2	1.35	.020	.20	.5	.04	3.0	.2	<.05	8	.5	30	
L102E 47+75N	.9	10.2	7.1	58	.1	10.6	5.5	246	2.20	2.5	1.1	3.8	4.9	19	.2	.2	.2	52	.25	.021	32	22.1	.43	87	.147	1	1.23	.022	.12	.3	.03	2.4	.1	<.05	6	<.5	30	
L102E 47+50N	.9	12.4	9.0	125	.1	17.4	9.1	533	2.94	3.6	1.1	<.5	3.9	25	.3	.2	.2	68	.43	.095	14	35.9	.74	156	.157	2	1.79	.018	.19	.2	.02	3.6	.1	<.05	8	<.5	30	
L102E 47+25N	1.3	9.1	9.2	70	.1	10.4	5.5	412	2.45	2.8	1.8	<.5	13.2	18	.1	.2	.2	41	.25	.034	28	20.3	.46	130	.141	1	1.23	.018	.20	.4	.01	2.7	.2	<.05	6	<.5	30	
L102E 47+00N	1.1	11.9	8.5	81	.1	15.0	7.9	309	2.66	3.6	1.3	<.5	5.3	33	.1	.2	.2	57	.33	.041	17	30.3	.60	119	.159	<1	1.50	.019	.16	.3	.02	3.0	.2	<.05	7	<.5	30	
L102E 46+75N	1.0	13.5	9.0	88	.1	17.9	9.3	373	2.82	4.1	1.7	6.6	9.3	19	.3	.2	.2	57	.34	.069	20	33.1	.65	153	.154	2	1.99	.018	.18	.3	.03	3.6	.2	<.05	6	<.5	30	
L102E 46+50N	1.4	12.1	9.8	82	.1	11.7	7.3	511	2.42	3.0	1.8	<.5	11.3	22	.2	.2	.2	45	.30	.039	22	21.6	.45	120	.139	<1	1.43	.020	.15	.3	.03	2.6	.2	<.05	6	.6	30	
L102E 46+25N	.9	14.7	8.5	72	.1	18.0	8.6	342	2.60	3.7	1.5	.5	9.0	19	.2	.2	.2	54	.30	.033	19	32.3	.68	151	.163	2	2.13	.020	.14	.3	.02	3.8	.2	<.05	7	<.5	38	
L103E 51+50N	2.2	36.8	8.6	66	.1	12.5	6.8	336	2.35	2.7	1.5	1.0	2.9	22	.1	.2	.2	51	.31	.069	18	23.9	.53	150	.090	<1	1.51	.022	.09	.3	.02	2.6	.1	<.05	6	<.5	30	
L103E 51+25N	.9	15.0	3.9	28	.1	5.9	3.5	119	1.58	1.2	.7	.7	.4	13	.1	.1	.1	42	.15	.042	7	13.1	.20	63	.060	<1	.72	.026	.04	.2	.01	1.0	.1	<.05	3	.6	30	
L103E 51+00N	1.5	8.3	10.3	56	<.1	6.5	4.0	418	2.04	1.7	2.2	<.5	18.4	8	.2	.1	.2	27	.21	.042	38	11.3	.41	84	.119	<1	1.06	.017	.15	.9	.01	3.1	.2	<.05	4	<.5	30	
L103E 50+75N	1.1	14.5	10.1	67	.1	12.0	6.5	448	2.53	2.7	2.3	<.5	12.6	26	.1	.2	.2	46	.38	.058	32	22.1	.65	142	.155	<1	1.52	.025	.18	.6	.02	4.3	.2	<.05	6	<.5	30	
L103E 50+50N	1.7	23.1	9.3	74	.1	21.0	9.6	433	2.73	5.2	1.9	.8	1.7	20	.3	.3	.2	62	.30	.053	16	35.4	.71	56	.306	1	2.31	.017	.12	.1	.04	3.0	.2	<.05	7	.7	30	
L103E 50+25N	2.1	11.2	7.8	63	.1	11.0	6.0	319	2.65	3.4	.9	.6	4.9	16	.1	.2	.2	65	.24	.029	16	23.5	.54	97	.169	1	1.32	.015	.11	.5	.03	3.2	.2	<.05	8	.5	30	
L103E 50+00N	1.9	31.7	18.3	159	.2	21.0	11.4	567	3.23	4.2	4.6	1.5	6.6	25	.3	.2	.2	71	.41	.065	23	39.3	.85	230	.151	1	2.47	.020	.19	.2	.03	4.8	.2	<.05	9	.8	30	
L103E 49+75N	2.4	34.3	7.8	90	.2	14.4	8.8	349	2.89	3.1	2.9	.8	5.7	21	.3	.2	.2	65	.30	.071	17	29.3	.65	139	.103	<1	2.00	.019	.13	.2	.02	3.9	.2	<.05	8	.9	15	
RE L103E 49+75N	2.5	34.1	8.1	90	.2	15.0	9.2	351	2.89	3.5	3.0	.7	5.4	22	.3	.2	.2	67	.33	.076	18	29.4	.65	149	.129	<1	2.01	.022	.13	.3	.04	3.9	.2	<.05	8	.8	15	
STANDARD DS6	11.4	119.2	30.0	145	.3	24.1	10.6	717	2.90	20.9	6.6	49.6	3.3	40	6.2	3.6	4.9	58	.88	.079	18	195.6	.61	173	.098	21	1.97	.074	.16	3.4	.22	3.3	1.8	<.05	6	4.6	30	

GROUP 10X - 30.0 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY
- SAMPLE TYPE: SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data 6 PA _____ DATE RECEIVED: JUL 21 2005 DATE REPORT MAILED: Aug 3/05



All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

AUG-03-2005 WED 04:50 PM ACME ANALYTICAL LAB FAX NO. 6042531716 P. 02

P. 04
 FAX NO. 6042531716
 AUG-03-2005 WED 04:50 PM ACME ANALYTICAL LAB



SAMPLE#	Pb	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sample
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm
L104E 50+75N	3.4	35.0	9.9	82	.1	21.3	11.7	450	3.07	7.7	1.5	2.4	6.4	25	.2	.4	.2	71	.24	.083	11	36.5	.81	130	.138	1	3.13	.015	.13	.5	.08	4.0	.1	<.05	9	1.4	15
L104E 50+00N	1.4	7.3	6.3	45	.1	6.5	3.7	343	1.24	1.6	1.4	5.6	9.5	10	?	1	1	37	.16	.044	19	12.7	.33	78	.090	1	.85	.011	.12	.6	.01	2.1	.1	<.05	4	<.5	30
L104E 50+25N	1.7	15.2	12.9	66	.2	10.6	6.2	581	2.16	2.4	2.1	1.6	11.2	22	.4	.2	.2	33	.23	.053	17	18.4	.42	144	.104	2	1.10	.014	.23	.5	.05	2.5	.2	<.05	5	.5	15
L104E 50+00N	2.1	10.1	12.4	67	.2	10.5	5.5	320	2.63	2.9	1.1	.9	8.5	11	.3	.2	.2	48	.13	.026	13	19.9	.45	82	.145	<1	1.32	.014	.21	.6	.03	2.7	.2	<.05	7	.5	30
L104E 49+75N	1.5	18.8	10.5	76	.1	17.4	8.2	359	2.65	3.7	1.7	1.2	10.0	15	.2	.2	.2	53	.23	.053	13	27.2	.64	148	.142	1	1.70	.012	.24	.4	.02	3.3	.2	<.05	7	.6	30
L104E 49+50N	1.8	10.8	7.8	71	.1	11.5	5.7	318	2.29	3.4	.8	1.7	4.2	13	.3	.2	.2	55	.18	.047	8	22.3	.42	105	.141	<1	1.13	.010	.18	.3	.01	2.4	.2	<.05	7	<.5	30
L104E 49+25N	1.8	14.1	7.8	67	.1	14.3	7.3	348	2.58	3.6	1.1	1.4	3.0	15	.2	.2	.2	53	.22	.053	10	27.4	.58	135	.110	1	1.46	.011	.16	.3	.02	2.4	.1	<.05	7	<.5	30
L104E 49+00N	1.2	12.0	6.4	50	.1	9.5	5.0	314	1.75	2.4	1.7	1.4	1.1	11	.2	.2	.1	37	.12	.045	9	18.1	.35	96	.066	<1	1.26	.014	.09	.2	.02	1.5	.1	<.05	5	.5	30
L104E 48+75N	3.0	19.8	9.0	81	.1	17.4	8.2	724	2.89	4.8	1.7	1.4	3.1	11	.4	.3	.2	68	.14	.055	9	33.1	.65	123	.120	1	1.76	.008	.14	.2	.01	2.5	.2	<.05	8	.5	30
L104E 48+50N	2.0	17.0	9.7	67	.1	14.6	9.4	738	2.48	3.3	1.9	.7	1.0	12	.5	.3	.2	53	.11	.058	13	27.2	.43	123	.070	1	1.50	.010	.09	.2	.02	1.6	.1	<.05	8	.7	30
L104E 48+25N	1.2	16.9	8.8	87	.1	20.4	9.4	425	2.89	4.8	2.2	1.2	10.0	13	.3	.3	.2	67	.18	.046	12	35.3	.65	136	.155	1	2.26	.011	.16	.4	.03	3.7	.2	<.05	8	.5	30
L104E 48+00N	.8	14.0	8.9	72	.1	17.7	8.8	355	2.79	3.9	1.1	.6	7.6	20	.3	.3	.2	56	.28	.049	10	30.9	.66	124	.149	1	1.77	.012	.21	.2	.02	3.0	.2	<.05	7	<.5	30
L104E 47+75N	1.2	11.0	9.0	77	.1	13.3	6.7	458	2.68	3.9	1.0	.8	9.3	16	.2	.3	.2	53	.22	.098	10	25.7	.52	124	.135	<1	1.30	.011	.23	.5	.02	2.8	.2	<.05	8	<.5	15
RE L104E 47+75N	1.2	10.7	9.3	82	.1	12.1	6.5	412	2.63	4.4	1.0	5.4	8.6	14	.2	.3	.2	47	.20	.094	10	22.6	.54	126	.127	2	1.24	.010	.22	.5	.02	2.6	.2	<.05	8	<.5	15
L104E 47+50N	.8	10.3	6.9	48	.1	11.5	6.0	306	1.92	2.9	1.5	1.1	12.7	10	.2	.2	.1	36	.16	.042	19	19.6	.41	91	.096	1	1.29	.008	.14	.3	.01	2.6	.1	<.05	5	<.5	30
L104E 47+25N	1.5	6.6	8.9	60	.1	6.7	3.7	302	2.03	2.8	2.1	1.2	17.5	7	.2	.1	.2	25	.11	.034	20	10.8	.25	66	.106	<1	1.10	.009	.13	.6	.02	1.9	.2	<.05	6	<.5	30
L104E 47+00N	.8	13.1	8.1	65	.1	17.4	8.7	349	2.56	4.0	1.3	1.4	10.9	15	.1	.2	.1	52	.20	.034	13	28.4	.64	151	.140	<1	1.91	.011	.15	.3	.01	3.0	.2	<.05	6	.5	30
L104E 46+75N	.9	12.6	9.8	76	<.1	12.8	6.2	429	2.30	3.2	1.8	1.5	15.7	16	.1	.2	.2	38	.25	.059	20	21.9	.51	139	.123	1	1.67	.012	.21	.7	.01	2.8	.2	<.05	6	.5	30
L104E 46+50N	1.0	11.8	9.1	66	.1	14.6	8.5	346	2.71	4.0	1.1	.9	7.4	13	.1	.2	.2	57	.16	.033	10	28.0	.55	121	.143	<1	1.69	.009	.14	.3	.01	3.0	.2	<.05	8	.5	30
L104E 46+25N	.9	11.2	8.6	74	.1	13.3	7.1	300	2.38	3.4	1.3	.6	10.6	12	.2	.2	.2	43	.16	.040	13	22.4	.46	97	.114	1	1.55	.009	.14	.4	.02	2.6	.2	<.05	7	.5	30
L104E 46+00N	1.1	11.8	9.9	76	.1	14.2	7.2	375	2.55	3.5	1.6	<.5	16.3	12	.2	.2	.2	45	.16	.035	17	22.7	.48	137	.139	<1	1.69	.010	.19	.5	.03	3.2	.2	<.05	7	<.5	30
L104E 45+50N	1.1	13.9	9.4	106	.1	15.1	8.0	404	2.94	4.1	1.1	1.3	9.5	13	.4	.2	.2	58	.18	.057	12	30.9	.61	123	.144	1	1.80	.009	.18	.4	.03	2.9	.1	<.05	8	.6	30
L104E 45+00N	2.3	20.8	10.6	98	.2	12.7	7.1	524	2.45	3.1	7.5	.3	11.1	15	.3	.2	?	44	.10	.064	27	23.7	.56	180	.087	<1	1.71	.013	.17	.4	.02	3.5	.2	<.05	7	.6	30
L104E 44+50N	2.6	30.4	14.2	181	.2	20.2	11.0	675	3.43	6.5	4.9	1.0	18.2	22	.4	.2	.3	69	.35	.065	14	36.8	.77	176	.161	1	2.26	.012	.36	.5	.01	4.3	.3	<.05	9	<.5	30
L104E 44+00N	1.4	7.2	7.6	64	.1	8.5	4.5	335	2.07	2.7	1.0	.8	9.7	13	.1	.1	.1	36	.18	.032	16	16.0	.41	89	.124	<1	1.06	.011	.18	.5	.01	2.2	.2	<.05	5	.5	30
L104E 43+50N	1.2	8.6	8.9	109	.1	10.9	6.0	309	2.62	3.7	1.5	.6	6.6	13	.3	.3	.2	54	.16	.123	9	25.1	.46	103	.116	<1	1.56	.008	.13	.5	.01	2.7	.1	<.05	8	<.5	30
L104E 43+00N	1.3	6.1	12.7	103	<.1	5.7	3.5	613	2.55	1.9	4.9	1.1	38.0	17	.2	.1	.2	20	.34	.075	35	11.7	.38	147	.174	1	.95	.014	.38	.7	.01	3.0	.6	<.05	7	<.5	30
L104E 42+50N	3.3	12.5	15.4	90	.2	9.0	4.8	463	2.31	4.5	12.9	1.7	28.7	18	.1	.1	.5	39	.28	.053	37	17.9	.46	128	.107	1	1.44	.009	.26	.5	.02	3.5	.3	<.05	6	.7	30
L104E 42+00N	3.0	18.6	9.5	77	.2	12.3	10.6	1691	2.41	2.9	8.5	<.5	11.5	24	.5	.2	.2	37	.28	.048	27	21.8	.35	138	.092	1	1.53	.011	.17	.3	.02	2.8	.2	.08	7	<.5	30
L105E 58+00N	.8	26.1	10.6	100	.2	26.6	11.0	491	2.40	3.5	.9	1.3	2.5	28	.4	.1	.4	55	.34	.046	9	54.4	.99	108	.099	<1	1.79	.013	.25	.2	.02	2.9	.2	<.05	6	.5	30
L105E 57+50N	1.5	21.8	9.5	103	.2	18.1	10.3	695	2.46	3.7	1.1	2.4	1.2	42	.7	.2	.4	59	.53	.064	9	34.4	.71	163	.080	<1	1.75	.014	.15	.2	.04	2.5	.1	.11	6	<.5	30
L105E 57+00N	.8	24.7	10.5	73	.2	19.0	10.7	536	2.38	3.1	1.5	7.0	6.3	39	.3	.1	.6	53	.47	.073	13	39.8	.91	133	.106	1	1.50	.021	.25	.3	.01	3.7	.2	.06	5	<.5	30
L105E 56+50N	1.1	37.9	12.6	85	.2	23.4	13.7	783	2.94	4.5	1.5	1.6	1.6	40	.5	.3	.4	60	.53	.111	13	47.2	.90	188	.074	2	2.26	.017	.31	.2	.04	2.8	.2	.14	7	.5	30
L105E 56+00N	.5	22.2	5.5	40	.1	9.8	4.9	276	1.22	1.9	.9	<.5	.8	16	.1	.1	.2	28	.20	.041	6	17.7	.35	103	.045	1	.98	.010	.08	.2	.01	1.4	.1	.08	3	.5	15
STANDARD 056	12.1	125.6	29.9	143	.3	24.6	10.																														



P. 05

FAX NO. 6042531716

AUG-03-2005 WED 04:51 PM ACME ANALYTICAL LAB

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sample
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm
L105E 55+50N	1.3	40.3	15.5	98	.2	26.0	12.4	620	3.04	4.2	1.2	2.3	5.5	22	.3	<1	1.7	73	.29	.037	13	54.9	1.34	168	.130	2	2.13	.014	.34	.4	.01	5.1	.3	.07	6	.5	15
L105E 55+00N	1.1	37.5	11.8	88	.1	21.2	15.1	504	2.50	4.5	.8	1.6	4.8	25	.2	<1	.8	90	.46	.052	10	58.9	1.37	202	.192	2	2.48	.020	.39	.3	.01	5.6	.3	.05	7	.6	30
L105E 54+50N	1.3	29.7	13.2	89	.2	21.1	11.7	648	3.10	4.5	1.5	.9	7.1	23	.2	<1	1.2	78	.38	.038	12	43.2	1.14	184	.164	2	2.18	.015	.32	.4	.02	5.0	.3	.05	7	.5	30
L105E 54+00N	1.0	23.6	10.6	63	.1	12.7	8.1	493	2.38	2.9	1.2	5.5	7.5	25	.2	<1	1.4	56	.42	.065	14	27.8	1.00	147	.110	2	1.38	.019	.24	.5	.01	4.1	.2	.05	5	<5	30
L105E 53+75N	2.0	45.0	16.0	138	.5	24.4	10.8	559	3.60	5.2	2.5	4.2	8.8	35	.4	<1	1.9	79	.69	.056	14	45.6	1.25	255	.133	3	2.82	.018	.44	.3	.04	6.3	.3	.11	8	.6	15
L105E 53+50N	1.0	28.1	11.0	67	.2	11.4	6.6	381	2.27	2.7	2.9	3.3	11.3	22	.2	<1	.6	52	.49	.056	18	23.7	.74	146	.122	1	1.33	.019	.25	.5	.01	4.7	.2	.05	5	.6	30
L105E 53+25N	1.5	15.6	15.2	55	.1	6.0	4.8	409	1.74	2.2	1.8	2.0	15.4	15	.3	<1	1.0	32	.31	.066	23	13.4	.49	97	.076	1	.69	.015	.19	.5	.01	3.1	.2	.05	3	<5	30
L105E 53+00N	1.9	15.2	12.6	79	.1	9.8	5.5	323	2.61	3.8	1.6	1.0	10.5	11	.3	<1	.8	51	.24	.021	14	19.4	.60	96	.114	1	1.16	.010	.24	.6	.01	3.3	.1	.05	6	.6	30
L105E 52+75N	1.5	19.4	13.2	77	.2	14.0	7.1	381	2.37	3.9	2.3	1.6	9.6	11	.2	.1	.6	47	.21	.050	16	24.5	.70	118	.105	2	1.84	.012	.24	.4	.02	3.5	.1	.06	5	<5	30
L105E 52+50N	4.4	17.4	20.5	136	.1	10.7	5.0	781	3.26	4.3	10.2	<5	57.8	13	.2	.2	.4	32	.23	.030	52	19.3	.45	178	.113	1	1.44	.013	.29	.7	.02	4.7	.4	.05	8	.6	15
L105E 52+25N	1.1	18.3	11.1	65	.1	13.5	8.5	464	2.38	3.5	2.0	1.7	13.2	17	.2	.2	.3	54	.37	.039	16	26.9	.73	140	.138	2	1.68	.014	.24	.3	.01	4.2	.2	.05	6	<5	30
L105E 52+00N	1.3	26.5	13.4	81	.3	10.3	8.2	411	2.65	2.4	1.6	6.0	8.1	12	.2	.1	1.4	60	.18	.027	17	21.5	.87	131	.117	1	1.55	.015	.24	.5	.01	4.0	.2	.05	5	<5	30
L105E 51+75N	2.5	16.7	13.8	67	.2	12.0	8.3	609	2.65	4.1	3.2	.9	8.0	17	.3	.2	.5	58	.22	.037	16	23.3	.58	130	.138	1	1.47	.011	.23	.4	.02	3.3	.2	.05	8	<5	30
L105E 51+50N	2.6	14.9	12.9	67	.1	12.7	10.3	911	2.68	3.5	2.4	1.0	7.1	16	.2	.2	.8	53	.21	.045	16	24.0	.58	139	.123	1	1.52	.012	.19	.4	.03	3.3	.2	.05	7	<5	30
L105E 51+25N	1.6	8.5	11.2	61	.1	7.7	4.8	416	2.31	3.0	2.0	.9	13.4	10	.1	.1	.8	32	.16	.033	23	15.3	.41	85	.111	1	1.24	.010	.18	.6	.01	2.7	.2	.05	5	<5	30
L105E 51+00N	1.3	11.8	11.2	63	.1	8.9	6.9	514	2.35	2.6	2.3	7.9	14.7	14	.1	.2	2.9	37	.24	.047	22	17.7	.55	99	.108	<1	1.22	.012	.17	.5	.02	3.0	.2	.05	4	<5	30
L105E 50+75N	1.9	21.2	15.3	105	.4	11.4	16.7	1087	6.34	3.0	2.5	2.7	14.1	25	.2	.1	5.0	49	.30	.044	14	23.9	.88	135	.095	2	1.76	.011	.32	.5	.02	4.3	.2	.05	6	<5	15
L105E 50+50N	1.5	10.4	7.7	79	.2	11.8	6.1	318	2.53	3.3	1.9	<5	11.1	15	.4	.2	.3	50	.26	.057	17	21.5	.56	101	.136	1	1.29	.012	.18	.4	.02	3.2	.1	.05	7	.5	30
L105E 50+25N	1.8	14.7	10.6	62	.2	12.3	7.9	638	2.46	3.5	2.3	<5	10.2	14	.2	.2	.4	49	.25	.051	19	24.8	.55	165	.128	1	1.68	.013	.18	.4	.02	3.4	.2	.05	6	<5	30
L105E 50+00N	1.6	12.9	11.6	78	.1	12.6	6.0	385	2.58	4.0	2.0	<5	13.4	11	.3	.2	.2	42	.21	.052	20	23.0	.55	119	.126	1	1.54	.014	.21	.6	.03	3.1	.2	.05	6	<5	15
L105E 49+75N	1.3	18.7	10.6	90	.2	22.8	11.3	442	3.39	6.5	1.5	.9	9.5	16	.3	.3	.2	67	.26	.046	10	39.4	.81	160	.162	3	2.66	.013	.24	.3	.04	4.2	.1	.05	8	.6	30
RE L105E 49+25N	1.5	11.5	9.5	68	.1	13.2	6.7	294	2.66	3.5	1.7	<5	7.8	14	.3	.2	.2	56	.19	.033	12	30.5	.64	119	.145	1	1.83	.009	.12	.3	.01	3.2	.1	.05	8	.5	30
L105E 49+50N	1.2	11.4	7.5	70	.1	11.5	5.5	324	2.22	2.3	.8	2.4	2.8	15	.4	.1	.1	78	.23	.028	10	36.4	.68	112	.189	1	1.68	.012	.17	.3	.02	3.4	.1	.05	8	<5	30
L105E 49+25N	1.4	12.0	9.4	70	.1	12.5	6.6	306	2.63	3.7	1.7	<5	7.9	14	.3	.2	.2	61	.21	.033	13	31.1	.61	121	.151	3	1.94	.011	.12	.3	.01	3.5	.1	.05	8	.5	30
L105E 49+00N	.5	3.3	1.6	16	.1	1.8	1.7	84	.64	<5	1.1	<5	2.2	9	<1	<1	.1	17	.11	.028	5	4.9	.13	36	.047	1	.45	.025	.04	.1	.01	.9	<1	.05	2	<5	30
L105E 48+75N	4.0	4.1	20.4	96	.1	3.7	9.6	3963	2.22	1.4	3.0	<5	6.7	8	.6	.1	.5	25	.09	.047	35	10.8	.16	91	.075	1	.65	.017	.15	2.9	.01	1.9	.3	.05	7	<5	15
L105E 48+50N	2.9	6.5	18.5	269	.1	4.4	4.8	1069	5.64	1.8	1.7	<5	17.0	21	.4	.1	.3	29	.36	.073	33	9.8	.78	291	.347	1	1.62	.011	.90	.9	.01	4.5	.8	.05	16	<5	15
L105E 48+25N	3.3	19.5	11.7	90	.1	12.0	8.4	914	3.07	3.3	4.7	.5	11.0	20	.2	.2	.2	50	.27	.057	19	25.2	.64	165	.131	3	1.88	.014	.23	.4	.02	3.6	.3	.05	8	<5	30
L105E 48+00N	.5	7.3	2.8	24	.1	3.2	2.4	93	1.00	.7	2.3	<5	1.8	11	<1	.1	.1	24	.15	.041	7	7.2	.16	41	.056	1	.59	.026	.05	.1	.01	1.1	.1	.05	3	<5	30
L105E 47+75N	2.0	13.5	6.1	56	.1	9.7	5.0	293	1.76	2.0	3.4	.9	7.2	17	.1	.1	.1	35	.27	.053	16	20.2	.43	111	.099	1	1.20	.011	.12	.3	.01	2.7	.1	.05	5	<5	30
L105E 47+50N	2.3	14.8	7.4	65	.2	10.4	5.6	358	1.98	2.5	5.2	1.5	10.1	20	.2	.2	.2	39	.34	.061	23	21.5	.50	135	.102	1	1.39	.014	.13	.4	.01	3.5	.2	.05	5	<5	30
L105E 47+25N	1.7	18.2	8.2	72	.2	10.4	5.7	309	2.22	2.6	4.9	1.1	7.2	20	.1	.1	.2	46	.27	.058	18	21.8	.50	153	.101	1	1.50	.017	.13	.3	.01	2.8	.2	.05	6	<5	30
L105E 47+00N	1.7	14.4	8.2	66	.4	9.0	5.0	376	1.81	2.3	3.3	1.2	8.5	19	.1	.1	.2	34	.31	.064	16	18.7	.42	132	.086	1	1.30	.020	.13	.3	.01	2.8	.2	.05	6	<5	15
L106E 58+00N	.6	18.9	7.2	75	.1	17.6	10.1	465	2.57	1.9	.9	4.4	2.6	41	.2	.1	.2	66	.46	.079	11	37.9	.79	101	.102	2	1.46	.016	.16	.2	.01	2.8	.2	.05	5	<5	30
STANDARD DS6	11.8	125.5	29.8	146	.3	24.0	10.4	718	2.90	22.0	6.7	48.0	3.1	37	6.2	3.5	5.0	57	.84	.077	15	196.1	.59	169	.080	18	1.83	.074	.16	3.6	.22	3.5	1.7	.05	6	4.8	30

Sample type: SOIL S580 60C. Samples beginning "RE" are Reruns and "RRE" are Reject Reruns.



P. 06

FAX NO. 6042531716

AUG-03-2005 WED 04:51 PM ACME ANALYTICAL LAB

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Yg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sample
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm
L106E 57+50N	.6	25.9	9.3	62	.1	25.2	10.3	592	2.63	2.8	1.0	21.5	4.2	31	.3	.2	.3	63	.46	.083	11	45.9	.87	188	.104	<1	1.52	.020	.16	.3	.01	3.0	.1	<.05	5	<.5	30
L106E 57+00N	.6	58.6	58.6	400	.4	25.4	13.5	1052	3.24	4.0	1.4	5.5	5.0	21	2.4	.2	.6	77	.76	.877	13	56.8	1.77	164	.146	1	2.09	.027	.24	.7	.03	5.4	.2	<.05	6	<.5	30
L106E 56+50N	1.1	40.8	13.2	96	.2	37.5	12.9	626	2.59	3.3	1.0	2.5	1.9	32	.4	.2	.2	61	.51	.054	9	73.9	1.22	103	.105	1	2.18	.024	.15	.2	.04	3.0	.1	<.05	6	<.5	15
RE L106E 53+00N	1.6	27.1	14.1	82	.1	15.9	8.3	547	2.71	3.4	1.9	3.7	8.6	11	.2	.2	.8	53	.18	.021	16	26.0	.86	113	.138	1	2.04	.015	.22	.5	.01	4.3	.2	<.05	6	<.5	30
L106E 56+00N	.9	41.4	12.2	75	.1	27.5	10.4	562	2.60	3.3	1.1	3.0	5.8	33	.2	.2	.3	69	.56	.068	12	65.9	1.14	138	.143	1	1.82	.030	.23	.4	.01	4.0	.2	<.05	5	<.5	30
L106E 55+50N	.8	48.6	11.0	81	.2	26.1	10.7	597	2.68	3.9	2.4	2.0	7.9	30	.3	.2	.4	64	.64	.067	17	50.8	1.05	170	.127	<1	1.83	.032	.25	.3	.02	4.5	.2	<.05	6	<.5	30
L106E 55+00N	1.4	27.8	11.8	64	.1	17.2	8.5	368	2.67	3.9	1.2	1.2	4.6	19	.4	.3	.2	68	.33	.048	12	31.2	.72	164	.136	<1	1.99	.019	.12	.3	.02	3.8	.2	<.05	7	<.5	30
L106E 54+50N	1.7	28.1	12.6	86	.2	16.8	9.4	407	2.90	4.3	.9	3.2	3.9	20	.5	.2	.4	69	.32	.048	11	32.9	.80	184	.145	2	1.96	.016	.16	.3	.02	4.4	.2	<.05	7	<.5	30
L106E 54+00N	1.5	33.3	13.3	76	.2	19.9	11.2	575	3.84	4.5	1.4	6.9	9.6	16	.2	.2	1.5	72	.29	.044	14	31.7	1.14	220	.173	2	2.55	.019	.31	.4	.03	6.4	.2	<.05	7	<.5	30
L106E 53+75N	1.4	29.6	14.3	78	.3	16.1	9.5	538	2.78	3.6	1.5	3.8	9.1	10	.2	.1	1.1	62	.17	.018	15	29.6	.93	145	.140	<1	2.14	.013	.32	.6	.01	5.1	.2	<.05	6	<.5	30
L106E 53+50N	1.6	33.5	14.6	84	.4	19.4	10.2	588	3.16	4.3	1.6	3.7	6.2	14	.2	.2	.7	70	.25	.046	13	33.6	1.03	160	.135	1	2.47	.016	.27	.5	.05	5.1	.2	<.05	7	<.5	15
L106E 53+25N	1.3	17.8	11.7	64	.1	13.8	7.7	385	2.42	3.9	1.7	1.9	10.1	14	.2	.2	.7	52	.24	.035	15	24.2	.72	122	.126	1	1.64	.014	.19	.4	.02	4.3	.1	<.05	5	<.5	30
L106E 53+00N	1.6	28.0	13.8	80	.1	16.3	8.7	559	2.70	3.3	1.8	2.8	8.6	11	.2	.2	.7	56	.18	.020	16	28.1	.83	115	.137	1	2.11	.014	.22	.4	.02	4.5	.2	<.05	6	<.5	30
L106E 52+75N	1.5	16.6	14.1	64	.3	11.8	6.0	411	2.28	3.6	1.8	4.5	9.2	12	.2	.1	.9	42	.18	.019	16	17.8	.59	97	.100	1	1.66	.012	.19	.6	.02	3.5	.2	<.05	5	<.5	30
L106E 52+50N	.9	16.2	9.3	65	.1	16.4	7.6	423	2.52	3.7	1.4	1.8	11.2	12	.1	.2	.2	47	.18	.015	17	26.2	.66	154	.133	<1	1.85	.015	.20	.3	.01	3.5	.2	<.05	6	<.5	30
L106E 52+25N	1.2	16.4	8.4	62	.1	16.7	7.3	369	2.53	4.2	2.4	1.5	6.8	21	.2	.2	.2	56	.27	.049	14	33.2	.60	150	.121	1	1.72	.019	.12	.2	.02	3.6	.2	<.05	7	<.5	30
L106E 52+00N	1.6	15.3	13.7	64	.2	16.2	7.9	365	2.81	5.1	2.0	1.6	12.6	13	.3	.2	.5	50	.20	.034	17	26.3	.60	134	.124	2	1.98	.015	.21	.4	.04	3.7	.2	<.05	7	<.5	30
L106E 51+75N	1.7	6.6	13.2	56	.1	6.5	3.5	404	1.95	2.4	1.9	1.3	18.0	.5	.2	.1	.3	23	.09	.012	22	11.9	.31	47	.096	<1	1.07	.010	.19	.6	.01	2.3	.2	<.05	4	<.5	30
L106E 51+50N	1.9	14.0	16.1	60	.1	7.1	4.5	527	2.09	2.2	3.2	1.5	15.9	.7	.2	.1	.5	31	.11	.024	27	11.4	.43	83	.085	<1	1.30	.012	.17	.6	.02	3.0	.2	<.05	4	<.5	30
L106E 51+25N	2.0	14.0	14.2	65	.2	10.4	5.1	497	2.33	2.9	2.5	1.4	9.1	.9	.1	.2	.4	33	.12	.038	20	19.3	.43	79	.086	1	1.32	.016	.14	.5	.05	2.6	.2	<.05	5	<.5	15
L106E 51+00N	2.1	15.7	13.7	66	.3	11.1	6.7	443	2.54	3.6	2.7	.8	11.6	10	.2	.2	.4	44	.16	.030	22	19.7	.61	99	.113	1	1.65	.017	.27	.4	.03	3.2	.2	<.05	5	<.5	30
L106E 50+75N	1.4	39.8	7.9	66	.1	26.4	11.9	446	3.01	5.3	1.0	2.2	5.5	22	.2	.3	.2	75	.34	.021	11	50.6	1.00	142	.181	<1	2.60	.020	.24	.2	.01	5.1	.2	<.05	7	<.5	30
L106E 50+50N	9.5	51.0	7.0	73	.2	25.1	12.5	338	3.88	6.3	1.1	1.3	2.4	.22	.2	.2	.2	22	.20	.059	11	44.2	1.20	140	.137	1	3.02	.025	.36	.3	.04	6.3	.3	.07	9	1.1	30
L106E 50+25N	2.4	28.7	15.8	83	.2	18.7	10.2	502	3.33	4.6	2.8	9.2	13.5	17	.3	.2	.5	60	.29	.057	18	30.9	1.08	148	.147	1	2.21	.016	.36	.5	.03	4.9	.3	<.05	7	<.5	15
L106E 50+00N	1.3	31.0	11.4	77	.1	18.6	11.7	454	3.26	4.6	1.9	.8	8.6	21	.2	.2	.3	91	.46	.043	16	36.9	1.23	226	.165	<1	2.58	.024	.33	.3	.02	6.2	.2	<.05	8	<.5	30
L106E 49+75N	.5	13.4	3.2	25	.1	6.4	3.3	221	.90	1.6	.6	1.0	.5	25	.1	.2	.1	22	.98	.068	5	12.2	.28	75	.042	2	.60	.032	.06	.1	.02	.9	<.1	.08	2	<.5	30
L106E 49+50N	.9	15.9	7.6	67	<.1	18.5	8.5	428	2.60	4.0	1.6	1.3	9.6	19	.1	.2	.2	59	.42	.060	14	33.0	.74	141	.150	1	1.84	.016	.16	.3	.02	3.9	.1	<.05	6	<.5	30
L106E 49+25N	1.2	11.3	5.6	59	.1	10.0	6.6	480	1.74	2.6	1.3	1.1	4.0	13	.6	.2	.1	41	.19	.025	7	17.9	.31	112	.099	1	.99	.022	.11	.2	.02	1.9	.1	<.05	4	<.5	30
L106E 49+00N	1.7	7.4	9.0	55	.1	8.2	4.5	308	2.46	3.9	2.6	1.1	17.8	8	.1	.1	.2	34	.17	.044	27	15.9	.32	112	.108	<1	1.20	.012	.18	.7	.02	2.5	.1	<.05	5	<.5	30
L106E 48+75N	1.0	7.7	5.8	37	.1	7.1	3.8	274	1.46	1.7	2.1	2.1	9.6	14	.1	.1	.1	29	.33	.062	25	16.0	.30	80	.093	2	.82	.012	.09	.4	<.01	2.3	.1	<.05	3	<.5	30
L106E 48+50N	1.4	14.4	10.0	64	.1	13.8	7.2	424	2.33	3.8	2.2	1.7	9.7	17	.2	.2	.2	46	.33	.058	19	26.9	.52	143	.124	1	1.75	.015	.16	.3	.02	3.4	.2	.08	6	<.5	30
L106E 48+25N	1.5	5.5	7.7	49	.1	5.7	3.1	291	1.57	2.2	1.1	.6	4.3	12	.4	.2	.2	35	.15	.024	11	15.5	.25	68	.120	<1	.77	.012	.15	.3	.01	1.8	.1	<.05	5	<.5	30
L106E 48+00N	2.1	33.8	17.7	133	.4	14.3	5.8	480	2.72	8.8	8.2	1.8	4.4	30	.5	.2	.7	56	.60	.095	14	28.5	.64	259	.070	2	2.69	.025	.26	.4	.03	3.1	.3	.10	8	.7	15
L106E 47+75N	1.9	30.5	10.6	107	.2	16.9	7.8	474	2.65	3.5	6.0	.9	5.0	27	.5	.2	.3	55	.92	.054	16	33.8	.77	218	.096	1	2.02	.016	.21	.2	.02	3.4	.2	<.05	7	<.5	30
STANDARD DS6	12.2	126.5	29.3	147	.3	25.1	11.0	730	2.91	21.0	6.6	44.8	3.1	37	5.9	3.5	5.0	59	.83	.072	15	200.3	.55	166	.088	15	1.82	.068	.17	3.6	.22	3.4	1.6	<.05	6	4.5	30

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

AUG-03-2005 WED 04:51 PM ACME ANALYTICAL LAB FAX NO. 6042531716 P. 07



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Ni	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sample
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm
L106E 47+50N	1.8	21.7	11.9	83	.1	14.8	7.9	562	2.53	3.8	3.5	1.2	9.5	18	.3	.2	.3	48	.38	.039	17	28.0	.67	165	.109	3	1.57	.011	.20	.3	.01	3.2	.2	<.05	6	<.5	30
L106E 47+25N	.9	8.0	6.6	50	<.1	7.0	4.5	303	1.73	2.2	1.5	1.0	10.4	14	?	?	?	30	25	.056	17	16.6	.35	82	.084	2	.96	.010	.13	.3	.01	2.1	.1	<.05	4	<.5	30
L106E 47+00N	.8	10.4	8.8	55	<.1	12.2	5.6	406	2.07	2.6	1.6	<.5	10.0	16	.1	.1	.2	37	.21	.036	18	22.7	.43	99	.101	2	1.30	.012	.15	.3	.02	2.6	.2	<.05	5	<.5	30
L106E 46+75N	1.6	13.3	11.4	75	.1	12.0	6.1	388	2.68	3.5	1.8	.6	11.5	19	.2	.3	.3	49	.23	.041	15	23.9	.48	120	.120	2	1.42	.012	.15	.4	.02	3.0	.2	<.05	8	<.5	30
L106E 46+50N	2.0	10.8	12.2	112	.1	13.7	6.0	367	3.01	4.3	1.1	<.5	7.2	17	.3	.4	.3	62	.19	.043	10	26.9	.44	119	.132	1	1.33	.010	.12	.4	.02	2.7	.2	<.05	8	<.5	30
L106E 46+25N	1.4	17.8	14.4	94	.1	15.8	9.1	600	2.87	4.3	2.1	<.5	9.4	20	.7	.3	.3	54	.26	.059	16	29.2	.67	143	.122	2	1.69	.013	.22	.4	.03	3.7	.2	<.05	7	.5	30
L106E 46+00N	1.8	15.0	18.4	89	.1	14.2	7.5	673	2.67	3.7	2.6	1.1	13.1	14	.3	.2	.4	42	.19	.043	22	24.4	.60	141	.120	1	1.66	.013	.26	.6	.02	4.3	.2	<.05	7	.5	30
L106E 45+50N	2.5	12.7	15.1	82	.2	11.6	5.9	481	2.79	3.7	2.4	.7	10.7	17	.3	.3	.3	52	.18	.038	14	21.5	.42	91	.121	2	1.32	.010	.18	.5	.02	3.2	.2	<.05	7	<.5	30
L106E 45+00N	1.5	16.0	12.5	74	.1	16.9	8.1	405	2.65	4.5	2.1	1.6	13.9	14	.2	.2	.3	47	.23	.069	17	29.0	.61	118	.115	1	1.86	.011	.21	.4	.03	4.0	.2	<.05	6	<.5	30
L106E 44+50N	4.7	44.6	21.7	139	.8	22.4	14.7	2051	4.05	5.7	11.3	3.7	19.5	55	.3	.4	.7	65	.56	.078	44	38.9	.86	396	.137	3	3.52	.022	.44	.5	.08	7.9	.4	<.05	12	1.2	15
L106E 44+00N	1.9	16.2	13.5	94	.2	12.9	5.2	371	2.45	3.1	3.8	.5	8.2	28	.3	.2	.5	42	.37	.055	23	27.7	.55	154	.105	1	1.71	.014	.22	.3	.02	3.2	.2	<.05	8	<.5	15
L106E 43+50N	1.8	5.4	8.2	49	.1	5.0	4.4	646	1.74	1.9	1.9	1.0	7.0	12	.2	.2	.2	24	.14	.027	20	10.3	.21	75	.077	1	.82	.009	.13	.5	.02	1.8	.2	<.05	5	<.5	30
L106E 43+00N	2.7	10.7	11.1	74	.1	9.7	4.7	362	2.75	3.4	1.7	.7	3.1	13	.2	.3	.3	46	.13	.086	12	19.8	.29	87	.084	1	1.17	.009	.25	.4	.03	2.0	.3	<.05	8	<.5	15
L106E 42+50N	1.6	12.7	10.9	78	.1	11.8	6.5	585	2.68	3.2	6.3	1.2	30.5	25	.1	.2	.2	36	.35	.055	33	23.2	.55	145	.124	1	1.69	.014	.30	.4	.02	4.2	.3	<.05	7	.6	30
L106E 42+00N	.6	9.3	5.9	45	<.1	10.8	5.7	337	1.98	2.4	2.6	1.0	13.7	20	<.1	.2	.2	40	.41	.089	24	22.2	.50	86	.116	2	1.05	.013	.12	.2	.01	3.2	.1	<.05	4	<.5	30
L107E 58+00N	.6	76.0	11.3	90	.1	58.9	17.6	693	3.29	3.9	.9	2.8	1.9	27	.4	.2	.2	76	.47	.083	10	121.4	1.48	158	.125	1	2.44	.016	.17	.2	.01	4.8	.2	<.05	7	.6	30
RE L106E 42+00N	.6	9.0	5.5	44	<.1	10.8	5.2	330	1.92	2.5	2.6	1.0	13.4	19	<.1	.1	.1	36	.37	.084	23	21.0	.46	84	.105	1	.98	.011	.11	.2	<.01	2.8	.1	<.05	4	<.5	30
L107E 57+50N	.7	49.0	17.8	119	.2	49.8	15.1	631	2.62	3.1	.7	2.1	1.8	24	.4	.2	.3	60	.39	.056	7	98.7	1.26	88	.103	1	1.92	.020	.13	.3	.01	3.2	.1	<.05	5	.5	30
L107E 57+00N	.3	63.6	10.6	79	.1	48.3	13.6	369	2.16	1.8	.6	2.3	3.3	34	.3	.1	.2	51	.69	.092	7	90.7	1.39	80	.115	1	1.55	.025	.14	.3	<.01	3.1	.1	<.05	4	<.5	30
L107E 56+50N	.5	66.7	14.2	146	.2	56.7	16.2	641	2.87	3.0	1.1	3.9	5.8	42	.9	.1	.2	68	.71	.091	8	108.2	1.81	161	.136	3	2.15	.040	.28	.3	.02	4.2	.2	<.05	6	<.5	30
L107E 56+00N	.5	24.5	8.0	82	.1	21.2	10.3	477	2.37	3.6	.8	3.1	3.3	24	.4	.2	.1	58	.39	.053	11	37.4	.82	117	.139	1	1.63	.018	.15	.2	.01	3.7	.1	<.05	5	<.5	30
L107E 55+50N	.7	41.2	16.7	103	.5	32.1	12.3	653	3.18	5.3	1.5	1.2	3.2	27	.5	.2	.3	72	.70	.056	13	58.0	1.31	200	.133	2	2.83	.023	.29	.3	.05	4.7	.2	<.05	7	.6	30
L107E 55+00N	1.0	48.8	16.5	95	.2	33.1	11.4	555	3.00	7.7	1.6	3.7	5.1	25	.5	.2	.2	75	.40	.070	12	89.0	1.19	138	.142	3	2.70	.024	.28	.9	.05	4.9	.2	<.05	7	1.0	15
L107E 54+50N	.8	46.4	19.6	136	.2	31.6	12.2	622	2.75	3.5	2.0	2.6	6.2	37	.7	.2	.4	66	1.06	.058	15	67.1	1.38	128	.128	2	1.85	.029	.29	.4	.01	4.2	.2	<.05	6	.7	30
L107E 54+00N	.8	30.0	10.8	99	.1	27.4	11.2	573	2.98	4.5	1.9	1.3	8.5	28	.3	.2	.3	63	.67	.052	14	49.7	1.07	197	.162	2	1.98	.023	.31	.4	.02	4.7	.2	<.05	7	.6	30
L107E 53+75N	.8	30.9	11.0	86	.1	20.4	9.5	543	2.58	3.3	1.6	2.1	4.1	27	.3	.2	.2	59	.51	.068	16	44.6	.92	162	.113	1	1.76	.022	.14	.2	.01	4.0	.2	<.05	6	.6	30
L107E 53+50N	1.1	29.8	8.8	70	.1	18.6	9.5	590	2.58	4.0	1.7	1.5	3.1	28	.2	.2	.2	59	.47	.057	11	36.0	.78	199	.117	1	1.86	.021	.15	.2	.02	4.1	.2	<.05	6	.6	30
L107E 53+25N	1.2	31.5	13.1	99	.2	15.2	8.7	445	2.69	3.0	1.7	2.1	6.6	23	.3	.2	.4	63	.32	.050	15	29.4	.82	209	.138	1	1.90	.018	.23	.3	.03	4.8	.2	<.05	7	.5	30
L107E 53+00N	1.1	32.2	11.2	73	.1	14.0	8.6	468	2.44	1.9	.9	3.6	6.9	18	.3	.1	.3	61	.34	.063	13	29.5	.83	128	.139	1	1.36	.014	.21	.4	.01	4.5	.2	<.05	5	.5	30
L107E 52+75N	1.1	24.4	12.6	77	.2	12.9	7.5	453	2.39	2.5	1.5	2.0	7.2	16	.2	.2	.4	55	.29	.050	16	24.7	.77	125	.137	1	1.38	.014	.23	.4	.01	4.7	.2	<.05	5	<.5	30
L107E 52+50N	1.1	24.7	11.6	72	.1	12.5	7.9	483	2.37	2.2	1.2	2.4	7.3	18	.2	.1	.3	57	.30	.045	16	25.4	.76	133	.132	<.1	1.41	.014	.18	.4	.02	4.7	.2	<.05	5	<.5	30
L107E 52+25N	1.4	19.7	12.3	79	.1	12.9	7.2	426	2.48	3.0	1.6	1.7	11.2	16	.2	.2	.4	51	.28	.057	17	23.0	.70	150	.134	1	1.51	.013	.24	.5	.02	4.4	.2	<.05	6	.5	15
L107E 52+00N	1.4	22.3	12.4	84	.1	12.3	7.8	704	2.67	2.8	1.5	1.0	9.0	17	.3	.2	.3	56	.72	.071	17	26.7	.73	142	.126	1	1.36	.015	.17	1.5	.01	4.7	.2	<.05	5	.5	15
L106+80E 51+75N	1.6	18.8	15.0	70	.1	8.5	5.6	461	2.27	2.7	2.0	<.5	13.8	9	.3	.1	.4	42	.13	.020	20	15.1	.61	105	.117	1	1.42	.011	.24	.5	.01	3.9	.2	<.05	5	.5	15
STANDARD DS6	11.																																				

AUG-03-2005 WED 04:51 PM ACME ANALYTICAL LAB FAX NO. 6042531716 P. 08



Aurora Geosciences Ltd. PROJECT Cuprum FILE # A503693



SAMPLE#	Pb	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sample	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	% ppm	% ppm	% ppm	% ppm	% ppm	% ppm	% ppm	% ppm	ppm	ppm	ppm	ppm	% ppm	ppm	ppm	gm
L106+80E 51+50N	1.1	13.8	12.1	77	.1	7.8	4.5	260	2.00	2.2	2.1	1.1	15.7	14	.1	.1	.3	38	.30	.053	20	16.0	.61	110	.105	<1	1.08	.014	.24	.4	.03	3.8	.2	<.05	5	<.5	30	
L106+80E 51+25N	1.7	16.5	15.5	85	.3	12.8	7.8	520	2.52	4.1	2.2	.9	6.0	14	? ?	.3	53	.20	.035	14	26.2	.65	108	.100	<1	1.55	.010	.23	.4	.03	3.1	.2	<.05	7	.7	30		
L106+80E 51+00N	1.9	19.1	21.7	141	.3	12.1	6.6	562	2.38	5.1	3.6	3.6	20.2	20	.6	.2	.6	43	.49	.020	30	20.3	.67	115	.081	1	1.69	.012	.20	.5	.03	4.5	.3	<.05	6	.5	30	
L106+80E 50+75N	1.6	28.7	20.1	128	.2	13.5	8.1	827	2.68	7.2	3.3	1.3	14.5	22	.6	.3	.4	50	.57	.059	20	24.3	1.38	172	.088	3	1.89	.015	.24	.4	.03	4.6	.2	<.05	6	.6	15	
L107E 50+50N	.9	35.2	12.0	96	.2	11.4	8.8	524	2.84	2.4	2.1	1.6	9.8	21	.4	.1	.2	69	.59	.076	13	23.4	1.09	202	.168	<1	1.59	.027	.29	.4	.01	7.2	.3	<.05	6	.5	30	
L107E 50+25N	1.8	14.5	11.3	75	.2	11.4	5.9	400	2.20	3.4	1.7	1.3	3.8	20	.7	.3	.2	51	.30	.049	9	22.3	.42	116	.087	1	1.15	.009	.15	.7	.07	2.6	.2	<.05	6	.5	15	
L107E 50+00N	1.4	16.9	10.6	75	.1	14.5	8.3	609	2.38	3.4	2.2	.7	4.4	21	.3	.3	.2	47	.34	.088	13	27.1	.62	136	.083	2	1.42	.011	.27	.2	.06	2.8	.1	<.05	6	.6	15	
L107E 49+75N	.9	23.9	16.2	97	.1	23.8	12.4	782	3.25	5.4	2.4	1.4	7.2	26	.4	.3	.3	65	.58	.038	15	39.5	1.03	234	.120	1	2.17	.022	.32	.2	.03	4.9	.2	<.05	8	.5	15	
L107E 49+50N	1.1	30.8	17.5	88	.1	13.7	9.4	583	2.93	3.4	3.1	1.0	9.6	19	.3	.2	.3	69	.41	.033	18	24.2	.98	175	.130	<1	1.90	.019	.32	.4	.01	5.8	.3	<.05	7	.5	30	
L107E 49+25N	1.5	14.5	9.4	68	.2	16.2	8.3	289	2.63	4.1	1.4	1.1	4.4	16	.3	.3	.2	61	.21	.023	9	32.2	.62	115	.136	1	1.85	.011	.14	.2	.02	3.4	.1	<.05	7	<.5	15	
L107E 49+00N	1.6	4.7	11.8	66	.1	4.8	4.7	392	2.36	2.3	2.4	.8	23.9	9	.3	.1	.2	23	.16	.048	26	8.9	.27	69	.087	<1	1.06	.009	.24	.4	.02	2.1	.2	<.05	6	<.5	15	
RE L107E 49+00N	1.6	4.5	11.8	66	.1	4.8	4.6	397	2.38	2.4	2.3	<.5	22.9	9	.3	.1	.2	23	.16	.047	26	8.7	.26	71	.085	<1	1.05	.009	.24	.5	.02	2.2	.2	<.05	6	<.5	15	
L108E 58+08N	.3	45.6	13.7	104	.2	32.4	18.8	378	2.41	3.1	1.0	2.0	3.9	23	.3	.2	.2	54	.53	.066	9	63.5	1.05	137	.105	2	1.68	.019	.17	.3	.01	3.8	.2	<.05	5	.6	30	
L108E 57+50N	.4	55.5	10.0	68	.1	36.1	12.4	401	2.35	3.1	.6	2.1	2.8	26	.2	.2	.2	56	.43	.066	8	72.8	1.07	124	.106	<1	1.70	.018	.10	.2	.01	3.3	.1	<.05	5	<.5	30	
L108E 57+00N	.4	61.7	14.3	74	.2	42.1	12.6	349	2.27	2.4	.5	1.5	1.9	24	.3	.1	.2	53	.45	.060	5	85.2	1.15	87	.096	1	1.56	.016	.12	.3	.01	2.8	.1	<.05	5	<.5	30	
L108E 56+58N	.4	58.3	18.1	130	.2	45.7	13.1	510	2.45	2.5	1.6	4.0	5.2	34	.9	.2	.3	55	.75	.085	10	94.2	1.35	138	.101	1	1.68	.024	.20	.3	.01	3.9	.2	<.05	5	<.5	30	
L108E 56+00N	.6	35.0	13.3	98	.2	39.2	11.8	385	2.36	2.8	.5	.9	1.2	22	.6	.2	.2	58	.30	.052	5	81.8	1.03	87	.085	2	1.61	.014	.10	.2	.03	2.6	.1	<.05	6	<.5	30	
L108E 55+50N	.3	58.5	11.7	76	.1	95.4	18.9	476	2.66	2.2	.6	1.8	2.6	23	.2	.1	.2	54	.38	.063	8	227.2	1.93	127	.105	1	2.00	.014	.25	.2	.01	2.8	.2	<.05	5	.5	30	
L108E 55+00N	.4	52.6	14.5	86	.1	46.3	11.2	473	2.09	2.1	.6	2.5	6.5	32	.5	.1	.2	47	1.53	.086	9	90.9	1.77	109	.087	1	1.26	.021	.25	.3	<.01	3.1	.2	<.05	4	<.5	30	
L108E 54+58N	.4	47.1	19.3	141	.2	42.9	16.2	556	2.38	2.7	.8	2.2	3.3	28	.7	.2	.3	54	.59	.062	7	88.0	1.28	101	.090	1	1.65	.026	.23	.3	.01	2.8	.2	<.05	5	.5	30	
L108E 54+00N	.2	11.3	3.2	37	.1	5.0	3.3	167	.75	.9	.4	<.5	.6	18	.4	.1	.1	18	.50	.057	4	9.3	.22	50	.040	1	.54	.029	.06	.1	.01	1.0	.1	<.05	2	<.5	30	
L108E 53+75N	.5	15.4	4.6	40	.1	5.6	4.3	300	1.14	1.7	.9	.6	.6	15	.2	.1	.1	27	.34	.056	6	11.7	.27	61	.043	1	.86	.026	.05	.1	.01	1.3	.1	<.05	3	<.5	30	
L108E 53+58N	1.1	23.9	11.1	113	.1	19.2	12.0	550	2.71	3.6	1.5	3.2	2.2	22	.6	.2	.2	58	.75	.070	11	36.5	.80	194	.090	1	1.84	.016	.14	.2	.02	3.4	.1	<.05	7	.6	30	
L108E 53+25N	.9	24.9	11.4	118	.2	18.0	9.6	581	2.66	3.6	1.9	1.9	2.3	21	.3	.2	.3	59	.34	.067	13	35.6	.82	198	.091	1	1.98	.017	.12	.2	.02	3.5	.2	<.05	7	.7	30	
L108E 53+00N	.6	35.5	16.3	128	.2	18.2	9.4	478	2.63	3.2	1.7	3.4	8.7	31	.4	.2	.3	67	.86	.092	15	41.9	1.21	187	.125	2	1.72	.028	.29	.5	.02	5.0	.3	<.05	6	.6	30	
L108E 52+75N	1.2	34.4	14.6	101	.2	15.1	10.3	627	2.80	2.7	1.7	1.5	12.2	23	.3	.1	.3	66	.43	.077	17	30.2	.97	212	.153	1	1.67	.018	.30	.4	<.01	5.2	.3	<.05	6	<.5	30	
L108E 52+50N	.6	23.9	12.0	79	.1	10.9	7.4	296	2.32	1.7	1.0	.9	8.6	15	.2	.1	.3	60	.38	.079	16	24.3	.91	162	.150	1	1.36	.015	.30	.3	<.01	4.5	.2	<.05	5	<.5	30	
L108E 52+25N	.8	22.7	13.5	75	.1	13.2	7.6	407	2.38	2.6	1.4	2.2	8.8	14	.1	.2	.3	56	.25	.041	18	27.7	.77	124	.131	2	1.53	.013	.23	.3	.01	4.1	.2	<.05	5	<.5	30	
L108E 52+00N	.9	27.6	15.0	77	.2	12.3	8.6	347	2.51	2.1	1.0	1.2	7.2	13	.1	.1	.2	64	.25	.047	12	26.8	.94	160	.147	1	1.58	.012	.30	.3	<.01	4.5	.2	<.05	6	.7	30	
L108E 51+75N	.7	35.2	13.0	79	.2	19.2	12.4	440	3.03	3.0	.9	1.5	6.8	17	.3	.1	.2	80	.34	.056	10	36.5	1.17	195	.172	2	2.04	.014	.29	.3	.02	5.4	.2	<.05	7	<.5	30	
L108E 51+50N	1.2	22.3	12.0	86	.1	17.1	9.5	566	2.74	3.9	1.4	2.2	8.0	19	.2	.2	.3	62	.43	.063	13	30.6	.84	200	.131	1	1.67	.013	.25	.3	.01	4.5	.2	<.05	6	.6	30	
L108E 51+25N	1.3	21.0	16.5	71	.1	10.9	7.7	331	2.52	3.0	1.5	.7	8.0	9	.2	.2	.4	59	.14	.029	14	21.1	.72	100	.116	1	1.59	.011	.20	.5	<.01	4.0	.2	<.05	6	.5	30	
L108E 51+00N	.9	23.2	10.4	94	.1	10.1	7.2	360	2.02	2.1	2.9	2.1	9.4	15	.3	.1	.3	49	.40	.046	16	21.4	.71	125	.123	2	1.18	.014	.18	.3	.01	3.9	.2	<.05	5	<.5	30	
L108E 50+75N	1.2	24.8	14.7	85	.1	11.7	7.9	2663	2.76	2.6	1.8	.9	15.9	18	.3	.1	.3	56	.47	.070	20	21.3	.85	198	.147	1	1.29	.021	.28	.5	<.01	5.1	.3	<.05	6	.6	30	
STANDARD DS6	11.8	122.6	29.1	145	.4	24.4	10.6	688	2.83	21.3	6.7	53.7	2.9	37	6.0	3.3	5.0	55	.83	.075	14	190.4	.60	162	.071	17	1.84	.073	.16	3.4	.23	3.4	1.7	<.05	6	4.4	30	

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



Aurora Geosciences Ltd. PROJECT Cuprum FILE # A503693



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Yn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Sample
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm
L108E 50+50N	4.5	7.0	24.4	298	<.1	3.0	5.0	1037	5.54	2.2	4.1	1.4	39.3	16	.2	.1	.2	28	.71	.159	33	5.1	.80	212	.410	1	1.65	.010	1.13	.8	.01	4.5	1.0	<.05	17	.6	30
L108E 50+25N	.9	28.4	14.7	67	.1	10.4	6.3	354	2.32	1.7	1.9	1.4	11.5	14	.2	.2	.1	50	.38	.058	18	20.0	.73	153	.138	<1	1.25	.014	.27	.4	<.01	4.8	.2	<.05	5	<.5	30
L108E 50+00N	.6	32.1	9.9	67	.1	13.2	8.9	396	2.36	2.1	1.2	3.1	9.2	21	.1	.1	.2	60	.53	.089	15	24.6	.92	164	.150	1	1.35	.023	.25	.3	.01	4.7	.2	<.05	5	<.5	30
L108E 49+75N	1.3	19.1	6.2	96	.1	10.4	4.5	271	1.80	1.7	2.1	.9	2.2	26	.3	.2	.2	39	.96	.090	9	16.7	.48	101	.064	2	1.14	.015	.08	.2	.03	2.3	.1	.13	4	1.0	30
L108E 49+50N	1.9	29.0	9.9	143	.1	19.3	9.7	660	2.85	3.6	2.7	1.6	4.3	32	.4	.3	.3	60	1.33	.083	11	35.6	.90	224	.117	2	1.65	.013	.24	.2	.02	4.4	.2	.06	7	.7	30
L108E 49+25N	1.2	17.4	8.9	97	<.1	16.3	8.3	484	2.52	3.3	1.4	2.2	6.8	22	.3	.2	.2	54	.71	.059	12	29.0	.75	173	.127	2	1.46	.014	.21	.2	.01	3.8	.1	<.05	6	.5	30
L108E 49+00N	1.5	35.4	13.4	152	.2	20.5	8.7	408	3.03	3.6	3.3	2.1	3.5	25	.6	.2	.2	64	.71	.071	12	36.6	.87	172	.113	1	2.02	.012	.22	.2	.02	3.9	.2	<.05	8	.7	30
L108E 48+75N	1.4	70.0	10.4	141	.1	14.5	5.8	253	2.32	2.2	5.7	2.5	2.2	32	.5	.1	.2	52	1.08	.104	11	32.9	.62	139	.093	2	1.62	.011	.17	.1	.02	3.3	.2	<.05	7	1.0	30
L108E 48+50N	1.1	23.2	12.2	66	.2	16.6	9.6	675	2.59	3.5	1.0	1.4	3.9	26	.4	.2	.2	63	.67	.057	10	32.3	.80	209	.122	1	1.73	.016	.15	.2	.02	3.7	.1	<.05	7	.5	30
L108E 48+25N	1.3	30.6	17.1	109	.2	20.5	11.8	399	3.91	4.2	1.5	.7	11.3	20	.6	.2	.5	90	.28	.060	15	46.1	1.07	233	.205	1	2.43	.014	.38	.3	.03	5.8	.2	<.05	9	.6	15
L108E 48+00N	.9	26.5	12.0	80	.1	21.8	11.6	461	3.19	4.8	1.3	1.0	5.0	22	.3	.2	.2	70	.44	.057	14	41.8	.94	276	.147	2	2.34	.014	.21	.2	.02	4.8	.2	<.05	8	.5	30
L108E 47+75N	1.1	14.9	10.8	65	.1	10.5	6.4	298	2.49	2.8	1.5	.7	12.3	10	.2	.2	.2	50	.15	.034	19	21.1	.56	107	.132	1	1.45	.010	.18	.4	.02	3.3	.1	<.05	6	.7	30
L108E 47+50N	1.0	16.5	11.3	65	<.1	10.7	6.5	381	2.39	2.6	1.8	.8	13.8	11	.2	.1	.3	46	.15	.035	23	19.9	.59	135	.114	1	1.44	.011	.19	.4	.01	3.9	.2	<.05	6	.5	30
L108E 47+25N	1.0	24.5	12.1	84	.1	21.8	11.2	481	3.23	4.7	1.4	.8	10.7	16	.2	.3	.2	65	.22	.032	17	35.4	.92	178	.176	1	2.25	.015	.30	.3	.01	5.0	.3	<.05	8	.7	30
L108E 47+00N	.9	24.6	9.6	66	.1	16.0	8.3	369	2.57	2.5	1.0	<.5	7.3	17	.3	.2	.2	56	.22	.034	16	28.0	.72	139	.147	1	1.78	.013	.21	.3	.02	4.1	.2	<.05	6	.6	30
L108E 46+75N	1.8	64.9	43.8	135	.4	24.0	10.5	419	4.23	3.5	1.9	1.9	4.1	58	.6	.3	.3	108	.61	.051	12	43.8	1.12	233	.144	1	2.85	.019	.46	.2	.02	8.8	.2	.07	9	2.1	15
L108E 46+50N	1.1	43.7	14.5	81	.2	17.0	9.6	368	2.64	3.6	2.2	4.1	9.9	28	.3	.2	.3	73	.58	.072	15	37.4	1.16	174	.180	1	1.78	.030	.29	.4	.01	5.8	.2	<.05	6	.6	30
L108E 46+25N	3.0	38.6	37.8	143	.3	10.8	5.6	298	2.07	.7	1.6	.7	6.9	24	1.1	.3	.6	51	.55	.079	11	25.6	.85	168	.120	1	1.53	.010	.28	.2	.03	6.0	.3	.08	7	.9	30
L108E 46+00N	1.0	18.7	11.3	76	.1	16.2	8.8	492	2.87	3.6	1.6	.9	10.1	21	.2	.2	.2	55	.32	.062	18	29.8	.77	205	.145	1	1.84	.015	.17	.3	.01	4.2	.2	<.05	7	.6	30
L108E 45+50N	.8	18.2	9.4	81	.1	18.0	8.8	472	2.88	3.9	1.3	<.5	9.0	22	.2	.2	.2	57	.29	.047	16	32.2	.76	254	.143	1	1.86	.014	.17	.2	.01	4.5	.2	<.05	7	.6	30
L108E 45+00N	.9	7.4	9.5	59	.1	7.6	3.8	360	1.99	2.1	1.8	<.5	13.4	8	.2	.1	.2	24	.12	.028	30	12.9	.32	79	.097	<1	1.14	.011	.17	.3	.01	2.2	.2	<.05	5	<.5	30
L108E 44+50N	.9	14.6	9.4	69	.1	14.8	8.0	402	2.61	3.7	1.7	1.2	14.2	22	.2	.2	.2	49	.33	.056	22	26.5	.63	170	.132	2	1.80	.014	.16	.3	.01	3.6	.2	<.05	7	.6	30
RE L108E 44+50N	.9	14.3	9.8	73	.1	14.9	8.2	388	2.37	3.7	1.7	.5	13.8	22	.2	.2	.2	48	.33	.057	22	26.6	.62	171	.130	1	1.81	.013	.17	.3	.01	3.7	.2	<.05	7	.5	30
L108E 44+00N	.8	17.5	4.7	86	.3	6.4	3.8	244	1.30	1.3	2.6	1.2	4.8	16	.7	.1	.1	26	.21	.034	13	9.8	.23	125	.066	<1	.94	.028	.11	.1	.02	1.8	.1	<.05	4	.5	30
L108E 43+50N	1.5	15.3	10.9	60	.1	15.1	7.4	316	2.92	4.1	1.4	2.5	6.4	17	.3	.3	.3	62	.20	.039	15	28.8	.55	187	.133	1	1.74	.011	.13	.2	.01	3.5	.2	<.05	8	.6	30
L108E 43+00N	.9	6.4	8.3	53	.1	7.9	3.8	304	1.79	2.2	1.6	<.5	11.2	9	.2	.1	.1	24	.12	.023	24	13.5	.30	63	.080	1	1.14	.009	.14	.3	.02	1.9	.2	<.05	5	.6	30
L109E 58+00N	.4	61.9	22.2	119	.1	54.3	12.0	700	1.95	1.7	.5	4.6	4.3	31	1.0	.1	.3	47	.70	.095	8	99.6	1.24	78	.096	1	1.20	.025	.16	.5	<.01	3.0	.1	<.05	4	<.5	30
L109E 57+50N	.3	59.7	17.2	109	.1	42.1	12.5	295	2.02	1.9	.8	5.8	3.6	27	.3	.1	.2	53	.63	.087	8	84.3	1.21	96	.119	<1	1.49	.023	.11	.4	<.01	3.7	.1	<.05	4	<.5	30
L109E 57+00N	.2	80.1	8.3	66	.1	42.7	12.0	244	1.98	1.3	.5	1.6	2.8	30	.2	.1	.2	53	.55	.084	6	87.8	1.22	80	.109	<1	1.52	.028	.12	.3	<.01	3.2	.1	<.05	4	<.5	30
L109E 56+50N	.3	63.1	15.6	92	.1	43.1	11.9	417	1.93	1.4	.5	3.7	3.6	36	.8	.1	.2	50	.74	.105	8	93.9	1.20	78	.101	1	1.23	.032	.14	.4	<.01	3.2	.1	<.05	4	<.5	30
L109E 56+00N	.4	89.8	19.7	140	.2	54.1	14.7	561	2.48	2.4	.6	4.4	4.0	33	.7	.1	.3	61	.74	.084	8	104.4	1.46	120	.126	2	1.73	.030	.21	.4	.01	3.8	.2	<.05	5	.5	30
L109E 55+50N	.4	67.3	15.4	128	.2	46.8	12.9	464	2.25	2.1	1.1	2.7	2.0	32	.6	.1	.2	54	.91	.075	7	97.4	1.29	103	.091	1	1.60	.028	.16	.3	.02	3.2	.1	<.05	5	.6	30
L109E 55+00N	.4	48.2	10.8	81	.1	34.5	11.9	381	2.46	2.7	1.0	2.4	3.0	29	.3	.1	.2	58	.63	.063	9	66.9	1.12	131	.132	1	1.67	.027	.22	.3	.01	3.4	.1	<.05	5	.5	30
L109E 54+50N	.5	47.7	35.5	261	.1	31.2	12.5	721	2.70	2.5	.7	2.2	5.3	32	.7	.1	.4	64	.65	.073	9	62.6	1.23	104	.130	<1	1.71	.026	.18	.5	<.01	3.6	.2	<.05	5	.5	30
STANDARD US6	11.9	125.7	29.9	149	.3	25.4	10.6	714	2.87	21.1	6.9	49.0	3.1	41	6.3	3.5	5.1	57	.83	.079	15	196.2	.60	164	.082	20	1.86	.074	.16	3.5	.22	3.5	1.7	<.05	6	4.6	30

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

AUG-03-2005 WED 04:52 PM ACME ANALYTICAL LAB FAX NO. 6042531716 P. 10



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sample	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
L109E 54+00N	.5	50.2	13.6	115	.2	26.3	11.1	526	2.71	3.5	1.8	3.3	6.1	29	.3	.2	.2	66	.57	.068	15	53.9	1.10	145	.152	2	1.82	.024	.24	.2	.02	4.4	.2	<.05	6	<.5	30	
L109E 54+75N	.4	55.0	25.0	245	.3	23.7	11.5	522	2.55	2.7	.8	4.0	10.1	37	1.1	1.1	5	63	.87	.082	15	77.8	1.31	135	.140	2	1.75	.030	.27	.5	.01	4.6	.3	<.05	6	<.5	30	
L109E 53+50N	.6	47.2	18.8	102	.2	24.9	10.5	504	2.53	2.6	1.3	3.0	11.3	35	.4	.2	.3	61	.54	.067	15	55.8	1.12	134	.139	<1	1.80	.025	.22	.4	.01	4.4	.3	<.05	6	<.5	30	
L109E 53+25N	.7	69.6	31.2	150	.2	37.9	12.3	695	2.85	3.0	1.1	3.9	11.4	43	.8	.2	.4	69	.93	.059	17	69.9	1.49	202	.140	1	1.85	.030	.30	.4	.01	5.4	.3	<.05	6	<.5	30	
L109E 53+00N	.9	23.5	8.5	100	.1	17.3	9.2	902	2.38	3.3	1.3	1.0	1.6	25	.4	.2	.2	52	.64	.085	10	33.6	.74	193	.082	1	1.71	.018	.12	.2	.01	2.8	.1	<.05	6	.5	30	
L109E 52+75N	.5	17.2	5.0	45	.2	7.9	4.6	415	1.12	1.2	1.5	.6	.7	26	.8	.2	.1	22	.81	.075	8	15.0	.48	149	.044	1	1.09	.028	.06	.1	.02	1.4	.1	.06	3	.5	15	
L109E 52+50N	.6	29.3	18.1	129	.2	15.3	7.5	493	2.31	2.7	1.6	1.7	9.3	28	.4	.2	.3	50	.87	.067	17	32.2	.82	213	.122	1	1.64	.026	.23	.3	.02	3.8	.2	<.05	6	<.5	15	
L109E 52+25N	.7	38.7	15.6	105	.2	16.9	10.1	778	2.80	3.0	1.1	1.8	11.3	33	.3	.2	.3	71	.76	.091	19	35.2	1.16	204	.163	1	1.74	.036	.30	.5	.01	5.5	.2	<.05	6	<.5	30	
L109E 52+00N	.7	32.3	16.9	109	.1	19.8	10.9	534	2.93	4.2	1.4	3.0	10.6	26	.4	.2	.3	67	.72	.067	17	39.5	1.06	216	.164	1	1.89	.024	.27	.4	.02	5.2	.2	<.05	7	<.5	30	
L109E 51+75N	.6	35.1	17.3	119	.2	14.9	9.2	515	2.53	3.7	2.0	3.6	7.3	29	.6	.2	.3	67	.67	.040	16	31.3	1.12	174	.138	1	1.66	.033	.22	.6	.01	4.8	.2	<.05	6	.6	15	
L109E 51+50N	1.2	43.9	16.4	100	.2	16.2	10.4	501	2.95	2.5	4.1	2.9	12.1	18	.4	.2	.3	72	.51	.079	17	30.2	1.04	200	.155	1	1.73	.020	.30	.5	.01	5.5	.2	<.05	6	.7	30	
L109E 51+25N	.7	57.4	12.6	90	.2	12.7	9.0	362	2.65	2.0	1.6	2.7	9.6	18	.4	.1	.2	75	.58	.080	15	24.6	1.14	194	.154	1	1.59	.027	.32	.4	.01	5.2	.2	<.05	6	.5	30	
L109E 51+00N	.7	38.9	12.2	91	.1	19.9	10.3	489	2.76	3.6	1.9	1.9	7.5	28	.3	.2	.2	71	.77	.082	14	37.1	1.09	220	.161	1	1.83	.027	.27	.3	.02	5.0	.2	<.05	6	.5	30	
L109E 50+75N	.7	38.6	9.9	97	.2	14.9	12.6	470	3.11	3.2	1.2	3.1	2.9	37	.6	.2	.2	88	.86	.663	9	29.8	1.29	184	.113	2	1.88	.037	.17	.2	.03	4.6	.1	<.05	8	.7	30	
L109E 50+50N	1.3	28.6	14.7	110	.3	19.7	10.3	436	2.84	4.1	.9	1.7	2.8	39	.6	.3	.2	74	.59	.061	10	35.7	.73	191	.118	1	2.26	.015	.19	.3	.06	4.1	.1	<.05	8	.5	15	
L109E 50+25N	.7	43.3	17.2	94	.2	17.0	10.5	637	2.89	5.6	1.3	3.9	9.0	29	.4	.1	.2	81	.54	.083	15	38.4	1.27	193	.172	1	1.98	.030	.29	.5	.02	5.8	.2	<.05	7	.5	30	
L109E 50+00N	1.2	31.4	14.2	106	.1	18.1	10.7	601	3.12	3.9	1.3	1.2	4.6	31	.6	.3	.2	74	.43	.067	12	34.1	.90	184	.125	1	1.99	.018	.25	.3	.03	3.9	.2	.06	8	.6	15	
L109E 49+75N	1.2	28.8	15.3	81	.2	16.6	10.4	469	2.70	3.0	2.4	1.2	9.8	20	.2	.2	.3	71	.88	.061	17	32.3	.93	221	.160	<1	1.86	.017	.23	.3	<.01	5.2	.2	<.05	6	.5	30	
L109E 49+50N	3.2	6.7	36.8	239	.1	10.8	9.3	3302	5.29	1.5	15.2	1.9	91.0	38	.8	.1	.4	19	.63	.126	43	21.7	.73	283	.348	1	1.33	.013	.50	1.4	<.01	4.1	.9	<.05	15	.6	30	
L109E 49+25N	1.0	84.9	24.2	145	.3	34.6	15.3	487	3.94	3.6	1.9	4.9	7.2	44	.4	.2	.3	98	.78	.050	13	77.8	1.53	149	.140	<1	2.19	.038	.28	.5	.02	5.5	.3	<.05	7	.5	30	
L109E 49+00N	.7	101.0	48.5	261	.3	23.1	12.9	906	3.24	3.7	1.3	6.7	10.7	42	1.5	.2	.7	84	1.73	.091	15	56.6	1.96	171	.148	1	1.84	.034	.31	.6	.03	6.0	.3	<.05	6	.7	30	
L109E 48+75N	.5	88.5	34.1	203	.3	21.8	11.0	558	2.94	3.3	1.1	9.8	8.9	45	1.1	.2	.5	83	2.37	.104	14	48.5	2.16	176	.146	1	1.75	.036	.30	.6	.01	5.8	.2	<.05	6	.7	30	
L109E 48+50N	.8	147.0	18.4	cur	.2	19.5	12.0	1550	4.32	2.2	1.5	1.2	2.2	59	1.0	.2	.2	95	1.36	.091	8	342	2.3	69	230	.140	1	3.79	.029	.31	.3	.04	5.6	.4	<.05	10	.8	15
L109E 48+25N	.7	48.2	11.7	84	.1	33.8	12.6	750	2.57	2.8	.9	3.0	2.4	38	.4	.2	.2	64	.89	.077	8	69.6	1.20	163	.138	1	1.91	.033	.23	.9	.02	3.7	.2	<.05	6	.5	30	
L109E 48+00N	.8	144.9	46.6	600	.5	27.3	16.8	2564	3.85	4.5	1.5	8.4	6.7	56	4.6	.5	1.1	92	1.41	.104	13	56.0	1.43	170	.134	1	2.24	.054	.27	1.0	.02	6.0	.2	<.05	7	.7	30	
L109E 47+75N	.9	852.0	24.0	206	.9	48.7	20.6	2589	4.50	4.0	1.9	10.4	8.3	64	.9	.3	1.3	107	1.75	.126	16	91.2	1.90	234	.104	1	2.57	.041	.28	.6	.02	6.5	.2	<.05	9	.8	30	
RE L109E 46+75N	.8	67.4	17.5	84	.2	17.4	9.2	511	2.34	7.2	2.4	5.8	3.4	38	.4	.3	.2	59	2.93	.088	12	33.6	3.15	147	.111	4	1.57	.022	.31	.3	.03	3.7	.2	<.05	5	.8	30	
L109E 47+50N	.7	173.7	21.0	271	.2	28.1	18.7	660	3.99	5.6	1.6	4.2	4.1	52	1.7	.2	.3	129	1.39	.093	9	58.4	1.80	230	.127	1	2.44	.081	.32	.3	.02	6.4	.2	<.05	8	.8	30	
L109E 47+25N	.6	134.3	31.8	207	.3	22.7	14.9	896	3.52	5.2	1.1	4.7	5.4	53	1.0	.2	.4	103	3.32	.089	11	48.1	2.81	226	.147	3	2.33	.058	.39	.3	.01	6.8	.3	<.05	8	.7	30	
L109E 47+00N	.5	200.6	31.1	183	.3	25.6	16.8	867	3.68	4.4	1.3	5.5	6.3	51	.7	.2	.4	102	1.43	.087	13	50.1	1.92	280	.174	3	2.74	.061	.50	.3	.02	8.5	.3	<.05	9	.7	30	
L109E 46+75N	.9	67.2	17.0	85	.3	16.7	9.0	498	2.23	7.1	2.3	4.3	3.4	37	.4	.3	.2	58	2.94	.088	12	33.0	3.20	142	.108	3	1.55	.022	.31	.3	.03	3.8	.2	<.05	6	.7	30	
L109E 46+50N	.7	47.4	20.7	118	.2	15.2	8.7	691	2.35	4.6	1.5	5.2	4.3	41	.8	.2	.3	61	3.99	.063	12	30.9	2.89	173	.116	1	1.53	.023	.25	.3	.01	4.2	.2	.09	5	.6	30	
L109E 46+25N	.9	170.3	9.2	100	.2	11.6	14.6	372	3.57	5.4	1.9	6.2	6.6	41	.3	.1	.2	137	.88	.165	12	21.8	2.03	343	.207	1	2.13	.031	.44	.4	<.01	8.3	.2	<.05	9	.6	30	
L109E 46+00N	.7	41.1	76.6	133	.2	20.5	11.2	604	3.02	3.8	1.2	2.3	6.2	49	.4	.2	.3	73	.68	.091	15	39.7	1.19	148	.136	1	2.31											



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sample
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm
L109E 45+50N	.7	31.7	18.4	62	.2	16.6	10.6	418	2.53	2.8	1.1	11.3	4.5	38	.2	.2	.3	56	.50	.059	14	29.1	.83	132	.118	<1	1.62	.015	.23	.2	.02	3.3	.1<.05	5	.6	30.0	
L109E 45+00N	1.3	19.3	17.1	124	.3	26.0	24.3	336	3.74	3.7	4.2	2.4	2.7	24	.7	.2	.2	97	.70	.063	13	50.0	1.47	301	.172	1	2.61	.021	.42	.5	.02	7.8	.3<.05	9	.9	30.0	
L109E 44+50N	.7	34.0	26.3	103	.2	16.4	12.7	927	3.34	3.0	1.7	1.6	8.5	33	.7	.2	.3	90	.48	.090	17	37.0	1.33	269	.184	<1	2.23	.016	.62	.3	.03	6.2	.4<.05	8	.7	30.0	
L109E 44+00N	.9	21.0	16.2	73	<.1	12.4	8.3	426	2.75	2.3	1.3	.8	9.6	20	.3	.1	.2	65	.37	.057	18	31.6	.92	196	.161	1	1.57	.012	.33	.3<.01	4.6	.3<.05	6	.5	30.0		
L109E 43+50N	.9	22.4	11.5	85	.1	16.9	10.1	519	3.11	3.2	1.6	1.0	11.0	22	.3	.2	.2	70	.50	.054	17	35.3	1.00	220	.169	<1	1.92	.013	.32	.3	.01	4.4	.3<.05	7	.6	30.0	
L109E 43+00N	1.0	12.0	10.2	85	.1	12.7	6.7	423	2.64	3.2	1.1	1.9	7.6	19	.2	.2	.2	44	.33	.030	18	23.2	.56	184	.130	<1	1.43	.010	.25	.3	.02	2.9	.2<.05	7	.5	30.0	
L109E 42+50N	.2	6.0	2.1	19	.1	2.9	2.4	112	.84	1.1	1.0	<.5	2.8	11	<.1	<.1	.1	21	.18	.049	7	5.0	.14	54	.049	<1	.54	.027	.06	.1<.01	.7	<.1<.05	2	<.5	30.0		
L109E 42+00N	.9	12.1	8.7	79	.1	14.2	7.8	384	2.50	3.8	1.8	1.3	8.3	14	.2	.2	.2	52	.21	.040	16	28.1	.60	118	.116	<1	1.70	.011	.14	.4	.02	2.8	.1<.05	7	.6	30.0	
L110E 58+00N	.2	69.0	5.7	49	.1	36.0	11.0	217	1.66	1.6	.5	1.9	2.4	28	.2	.1	.1	47	.61	.072	6	77.7	1.06	71	.118	1	1.40	.025	.11	.2<.01	3.2	.1<.05	4	<.5	15.0		
RE L110E 58+00N	.2	71.5	5.9	50	.1	34.9	10.7	221	1.67	1.7	.4	1.0	2.2	27	.1	<.1	.1	47	.61	.073	6	77.8	1.08	68	.116	<1	1.39	.024	.11	.2<.01	3.0	.1<.05	4	.6	15.0		
L110E 57+50N	.1	55.1	6.5	52	.1	31.2	11.1	203	1.96	2.2	.7	1.9	3.1	22	.2	.1	.1	49	.52	.070	7	69.8	.92	95	.098	1	1.30	.018	.13	.2<.01	2.9	.1<.05	4	<.5	30.0		
L110E 57+00N	.6	66.4	9.2	87	.4	36.4	17.3	849	3.34	4.7	1.4	2.5	2.3	31	.7	.2	.2	62	.66	.116	10	76.2	1.05	231	.094	1	2.15	.017	.16	.2	.04	3.8	.2<.05	6	.8	30.0	
L110E 56+50N	.2	44.2	6.8	59	.1	30.0	9.9	349	1.96	2.1	.8	2.5	3.1	29	.2	.1	.1	48	.69	.088	9	65.0	.98	115	.107	<1	1.40	.020	.10	.2	.01	3.1	.1<.05	4	<.5	30.0	
L110E 56+00N	.2	75.0	7.3	55	.1	40.6	10.8	271	1.79	1.5	.5	2.2	3.7	25	.2	.1	.1	44	.54	.093	9	93.3	1.09	84	.096	<1	1.24	.021	.11	.2<.01	2.5	.1<.05	3	<.5	30.0		
L110E 55+50N	.5	33.7	11.7	64	<.1	18.6	7.0	333	1.84	2.0	.9	1.4	7.4	21	.2	.1	.2	42	.48	.079	17	42.5	.70	100	.094	1	1.06	.016	.11	.3<.01	2.6	.1<.05	4	<.5	15.0		
L110E 55+00N	1.4	29.4	13.0	144	.1	20.4	13.4	2997	2.86	3.5	1.4	1.7	3.5	27	.6	.1	.2	45	.75	.069	9	39.1	.65	182	.064	1	.97	.018	.08	.5	.01	2.1	.1	.06	3	.7	30.0
L110E 54+50N	.5	168.8	183.1	1336	.9	33.4	18.6	1955	3.89	4.8	.8	16.7	6.3	42	14.5	.2	1.6	78	1.55	.100	12	68.8	1.85	136	.128	<1	1.86	.025	.21	1.3	.01	4.9	.2<.05	6	.6	30.0	
L110E 54+00N	.5	78.6	35.4	245	.3	31.9	15.0	871	2.89	2.6	.8	4.8	7.3	44	2.0	1.5	70	.77	.094	11	72.6	1.41	141	.125	1	1.58	.032	.27	.6<.01	4.0	.2<.05	5	<.5	30.0			
L110E 53+75N	.5	44.1	15.6	118	.1	25.5	10.8	530	2.54	3.0	1.1	1.6	7.0	31	.2	.2	.3	61	.55	.069	16	52.8	1.05	159	.142	1	1.86	.020	.13	.3<.01	4.4	.2<.05	6	.5	30.0		
L110E 53+50N	.5	50.6	11.7	81	.1	29.0	11.4	444	2.33	2.2	1.3	12.1	7.0	37	.2	.1	.3	57	.56	.071	12	66.3	1.13	110	.121	<1	1.51	.030	.22	.3	.01	3.3	.2<.05	5	<.5	30.0	
L110E 53+25N	.6	47.0	12.8	75	.2	31.0	11.8	425	2.46	2.4	1.7	3.2	8.0	48	.4	.1	.6	65	.77	.071	11	70.4	1.35	143	.121	1	1.64	.041	.25	.4	.01	4.0	.2<.05	5	.6	30.0	
L110E 53+00N	.6	38.8	11.7	88	.1	26.8	12.8	572	2.75	3.5	1.4	1.6	5.3	38	.2	.2	.3	69	.74	.058	13	57.4	1.14	173	.144	1	1.84	.031	.33	.3	.03	4.4	.2<.05	6	.5	30.0	
L110E 52+75N	.5	41.5	15.6	101	.1	27.5	11.1	388	2.07	2.6	1.0	2.3	8.5	32	.2	.2	.2	59	.49	.054	18	60.2	1.12	175	.160	<1	1.98	.025	.27	.3	.01	4.5	.2<.05	6	<.5	30.0	
L110E 52+50N	.5	67.3	8.0	59	.1	66.2	15.2	342	2.32	2.0	.8	1.2	4.3	33	.1	.1	.3	52	.47	.023	7	140.4	1.45	88	.109	1	1.81	.018	.21	.3	.01	2.7	.2<.05	5	<.5	30.0	
L110E 52+25N	.6	65.8	12.3	92	.2	28.8	11.4	473	2.70	3.2	2.3	1.5	6.5	47	.3	.2	.3	62	.89	.080	15	65.0	1.18	166	.116	2	2.00	.030	.26	.2	.05	4.4	.3<.05	6	.7	7.5	
L110E 52+00N EMPTY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L110E 51+75N	.6	79.0	14.6	116	.2	48.1	15.9	650	3.14	3.4	2.5	1.3	4.4	55	.4	.2	.4	77	1.00	.096	12	106.8	1.65	179	.133	1	2.41	.028	.30	.3	.03	5.2	.3<.05	7	.7	30.0	
L110E 51+50N	.9	59.4	14.1	93	.2	27.3	12.4	618	2.65	3.7	3.1	2.2	3.5	68	.3	.2	.3	67	1.35	.093	12	60.3	1.21	176	.107	1	2.11	.028	.18	.2	.04	4.2	.2	.09	7	.7	15.0
L110E 51+25N	.5	42.3	10.0	64	.1	23.6	9.6	366	2.28	2.2	2.7	3.5	8.0	47	.3	.1	.3	58	.91	.071	13	59.4	1.03	106	.115	<1	1.54	.029	.22	.3	.02	3.9	.2	.06	5	.5	30.0
L110E 51+00N	.6	49.2	12.7	90	.1	19.6	10.6	565	2.48	2.8	3.3	3.9	7.2	40	.5	.2	.3	59	.88	.070	15	45.2	.96	142	.110	<1	1.53	.027	.19	.3	.01	3.4	.2<.05	5	.7	30.0	
L110E 50+75N	.7	56.5	18.7	142	.2	24.0	10.8	532	2.50	2.8	1.6	.5	2.8	43	1.0	.2	.3	63	1.00	.085	11	52.8	1.05	155	.096	2	1.66	.033	.17	.3	.02	3.4	.2<.05	6	.7	30.0	
L110E 50+50N	.1	50.9	3.9	45	.1	128.4	17.4	283	2.16	1.0	.5	.6	1.5	21	.1	.1	.1	51	.55	.073	4	263.9	2.05	106	.108	1	1.64	.019	.31	.1	.01	1.8	.2<.05	4	<.5	30.0	
L110E 50+25N	.7	67.3	20.6	122	.2	20.2	11.3	508	2.89	3.1	3.5	1.7	10.9	46	.6	.2	.4	75	1.14	.073	18	48.0	1.23	195	.153	1	1.96	.032	.35	.5	.02	5.4	.3<.05	6	.8	15.0	
L110E 50+00N	.6	50.2	18.6	108	.2	21.5	11.8	587	3.06	3.1	3.0	1.1	10.6	39	.4	.2	.4	80	.83	.081	17	46.5	1.22	194	.164	2	1.91	.028	.36	.4	.02	5.4	.3<.05	6	.7	30.0	
STANDARD DS6	12.1	125.1	30.2	148	.4	25.4	10.8	871	2.90	21.5	6.8	47.7	3.1	37	6.3	3.7	5.1	58	.85	.078	15	197.9	.62	168	.080	17	1.52	.072	.15	3.5	.24	3.4	1.8<.05	6	4.4	30.0	

Sample type: SOIL SS80 60C. Samples beginning "RE" are Reruns and "RRE" are Reject Reruns.



P. 12

FAX NO. 6042531716

AUG-03-2005 WED 04:52 PM ACME ANALYTICAL LAB

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sample	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	g/g
L110E 49+75N	.7	54.1	21.5	135	.2	22.9	12.0	627	3.10	3.6	3.1	2.1	11.5	40	.6	.2	.4	76	.91	.063	17	47.1	1.21	212	.160	2	2.05	.031	.34	.4	.04	5.8	.3	<.05	7	.6	30	
L110E 49+50N	.7	51.1	22.0	133	.2	18.7	11.3	575	2.99	2.5	1.5	7.6	11.6	38	7	1	.4	79	1.20	.088	16	41.4	1.30	160	.148	1	1.50	.035	.25	.6	.01	5.0	.2	<.05	5	<.5	15	
L110E 49+25N	.6	56.3	22.4	107	.1	24.4	12.6	559	2.99	2.8	1.4	1.5	6.7	51	.4	.2	.3	77	.81	.098	12	58.3	1.28	150	.125	2	2.08	.027	.33	.4	.02	5.5	.3	<.05	7	<.5	30	
L110E 49+00N	.4	118.2	16.6	109	.1	62.4	18.0	585	3.12	2.7	1.0	4.9	6.5	70	.4	.5	.3	84	.96	.095	12	149.2	2.11	160	.132	1	2.30	.044	.44	.6	.01	5.4	.4	<.05	6	.5	30	
L110E 48+75N	1.1	75.0	18.1	100	.2	30.1	10.2	564	1.93	2.1	1.1	1.9	1.6	38	.7	.2	.2	53	1.21	.086	8	70.1	1.05	118	.076	2	1.43	.034	.11	.3	.04	2.9	.2	<.05	5	.6	30	
L110E 48+50N	.4	57.4	10.6	65	.1	25.0	8.8	395	1.68	1.6	.8	1.6	1.1	27	.3	.1	.2	46	.48	.073	8	43.4	.74	139	.072	2	1.27	.033	.09	.2	.03	2.0	.1	<.05	4	.5	30	
L110E 48+25N	.5	46.9	10.2	88	.1	16.7	9.9	652	2.09	2.0	.9	2.4	1.6	36	.4	.2	.1	72	1.60	.082	7	38.7	1.47	159	.128	2	1.49	.054	.21	.3	.02	4.8	.2	<.05	5	.5	30	
RE L110E 46+25N	.8	35.9	16.4	75	.2	13.2	7.9	641	2.16	4.5	2.1	1.7	2.7	59	.6	.2	.2	58	7.66	.058	11	27.5	4.66	185	.099	3	1.33	.022	.20	.7	.02	3.6	.2	.66	4	.8	30	
L110E 48+00N	.6	75.4	10.2	91	.2	91.7	17.4	585	2.59	2.5	1.1	2.2	1.8	57	.5	.2	.1	68	1.00	.098	7	184.0	1.73	171	.094	1	1.93	.033	.23	.2	.03	3.2	.3	<.05	5	.6	30	
L110E 47+75N	.5	56.7	14.5	94	.2	63.9	16.9	521	3.01	2.7	1.5	2.9	4.0	39	.4	.2	.3	83	.95	.054	10	129.6	1.06	170	.138	2	2.28	.036	.31	.4	.02	5.4	.3	<.05	6	.5	30	
L110E 47+50N	.9	760.4	28.7	155	.8	47.2	14.3	1272	3.25	2.4	1.5	5.9	7.7	47	1.0	.2	.7	65	2.89	.089	13	100.4	2.70	186	.102	2	1.73	.025	.28	.5	.02	4.6	.2	<.05	5	.5	30	
L110E 47+25N	.3	209.2	23.9	763	.2	23.2	22.1	516	4.67	2.2	1.1	3.3	3.8	53	4.1	.2	.2	172	1.23	.093	8	41.9	1.71	260	.150	2	2.81	.094	.35	.2	.04	8.3	.3	<.05	9	.6	30	
L110E 47+00N	.8	200.5	31.1	263	.3	21.8	17.4	1215	4.16	3.5	1.4	5.0	6.4	52	1.9	.2	.4	141	1.79	.123	11	44.3	1.80	241	.143	1	2.55	.074	.36	.3	.02	7.5	.2	<.05	9	.6	30	
L110E 46+75N	.4	213.4	15.2	113	.2	21.1	18.9	670	3.80	2.7	1.6	3.3	4.6	57	.3	.2	.2	120	1.38	.124	9	35.9	1.76	286	.168	1	2.84	.096	.57	.2	.02	10.2	.2	<.05	9	.5	30	
L110E 46+50N	.6	160.0	26.4	178	.3	23.2	13.7	778	3.33	4.7	1.5	4.7	6.9	40	.9	.2	.4	91	1.71	.070	14	44.0	1.91	249	.164	2	2.32	.052	.34	.3	.03	7.1	.3	<.05	8	.5	30	
L110E 46+25N	.8	35.8	16.4	77	.2	13.5	8.1	635	2.16	4.7	2.0	1.9	2.7	58	.6	.2	.2	58	7.55	.059	11	28.0	4.62	188	.100	3	1.37	.023	.21	.6	.02	3.5	.2	.08	5	1.0	30	
L110E 46+00N	.5	11.0	9.8	41	.1	5.4	2.9	510	.75	4.0	3.4	<.5	2	.89	.5	.2	.1	21	17.91	.048	5	9.9	9.58	58	.016	5	.42	.006	.03	.2	.01	.4	<.1	.10	1	.5	30	
L110E 45+75N	.9	36.2	13.5	119	.1	16.2	10.4	508	3.41	3.6	2.6	1.7	14.2	32	.3	.2	.2	91	.71	.028	16	31.8	1.16	254	.204	3	1.95	.050	.10	.4	.03	6.7	.3	<.05	8	.6	30	
L110E 45+00N	1.0	48.1	12.3	89	.3	19.7	12.9	996	3.01	3.9	2.2	1.5	4.3	29	.9	.2	.2	75	.67	.052	16	32.3	.97	262	.135	1	1.92	.019	.19	.3	.01	4.7	.2	<.05	7	.6	30	
L110E 44+50N	.7	21.4	10.7	79	<.1	17.6	9.7	503	2.95	4.0	1.4	1.0	7.5	23	.3	.2	.2	73	.58	.029	13	32.6	1.22	239	.181	2	1.83	.024	.27	.3	<.01	5.1	.2	<.05	6	.5	30	
L110E 44+00N	.8	30.0	9.2	77	.2	16.9	10.5	689	2.64	4.3	1.4	2.6	3.6	26	.7	.2	.2	64	.84	.047	12	30.9	.83	224	.128	1	1.67	.016	.21	.2	.01	3.8	.1	<.05	6	.5	30	
L110E 43+50N	.8	25.2	32.5	92	.1	16.8	9.7	544	2.95	3.8	3.4	.9	8.0	27	.5	.2	.2	66	.46	.047	26	31.5	.83	202	.143	2	1.92	.015	.29	.3	.01	4.4	.2	<.05	7	.6	30	
L110E 43+00N	1.4	42.8	11.4	100	.3	11.4	13.0	522	1.92	4.3	1.5	2.4	3.2	2	.1	.1	.1	122	.40	.036	10	19.8	1.43	411	.345	<.1	2.30	.013	.98	.4	.01	14.7	.5	<.05	10	.8	30	
L110E 42+50N	.2	80.8	7.3	60	.1	24.5	16.3	293	3.69	1.1	.8	2.0	5.4	50	.2	.1	.1	167	.77	.096	10	77.1	3.22	365	.216	<.1	3.59	.059	.35	.2	<.01	11.5	.3	<.05	10	.5	30	
L110E 42+00N	1.1	40.4	12.9	79	.2	17.1	14.4	505	3.55	2.3	1.4	1.0	8.5	21	.2	.1	.2	105	.42	.033	14	35.9	1.51	235	.240	2	2.19	.014	.68	.3	.01	6.3	.3	<.05	8	.6	30	
L111E 50+00N	.6	39.4	11.9	75	.1	18.4	9.9	507	2.51	3.2	1.9	1.4	3.4	39	.4	.2	.2	61	.95	.067	15	38.2	.92	163	.095	2	1.65	.030	.21	.3	.03	3.2	.2	<.05	5	.5	30	
L111E 49+75N	.7	80.5	25.7	150	.2	23.1	13.6	667	3.29	3.0	1.4	3.6	10.8	55	.7	.1	.5	87	1.99	.087	18	56.4	1.62	207	.157	1	2.14	.053	.36	.5	.02	6.4	.3	<.05	7	.7	30	
L111E 49+50N	.9	40.7	15.9	92	.1	15.3	10.0	614	2.90	2.8	3.3	4.1	14.9	39	.3	.2	.4	65	.64	.070	23	32.5	.95	169	.149	1	1.80	.024	.27	.4	.02	4.9	.3	<.05	6	.5	30	
L111E 49+25N	1.0	40.1	18.9	104	.1	15.6	10.4	586	2.88	2.5	3.1	1.9	11.4	39	.3	.1	.5	71	.79	.060	20	36.0	1.04	187	.147	2	1.77	.025	.23	.4	.03	4.9	.3	<.05	6	.8	30	
L111E 49+00N	.5	93.8	9.7	77	.1	20.5	17.6	802	3.85	2.0	1.1	3.2	2.8	115	.4	.2	.1	94	.96	.127	12	57.4	1.63	99	.064	<.1	2.62	.023	.12	.3	.02	8.0	.1	<.05	8	.5	30	
L111E 48+75N	5.2	92.2	12.1	89	.3	24.3	10.0	449	2.35	2.9	1.8	2.6	.8	61	.4	.3	.2	69	.57	.105	9	51.9	.81	135	.066	1	1.76	.027	.10	.3	.03	2.3	.1	.06	6	.9	30	
L112E 50+00N	1.1	78.0	11.5	60	.2	25.1	14.0	595	3.11	3.5	2.0	2.8	10.3	116	.2	.2	.6	64	.77	.062	17	56.0	1.28	135	.096	2	2.31	.030	.26	.2	.03	6.0	.3	<.05	6	.5	15	
L112E 49+75N	.5	40.7	7.5	58	.1	48.8	15.6	520	2.76	2.3	1.8	1.5	3.9	82	.2	.2	.2	64	.81	.077	9	98.3	1.40	113	.109	<.1	2.31	.031	.27	.2	.03	5.1	.3	<.05	6	.6	30	
L112E 49+50N	1.6	50.8	14.7	77	.2	22.3	11.2	513	2.99	3.7	2.7	2.1	5.2	47	.2	.2	.6	68	.86	.079	14	46.0	.96	193	.110	1	2.00	.020	.21	.4	.03	4.1	.2	.06	7	.5	30	
STANDARD DS6	12.1	125.8	30.3	148	.3	25.7	10.9	720	2.90	21.6	6.6	48.4	3.1	38	6.2	3.4	5.2	58	.86	.078	15	200.0	.61	173	.086	21	1.93	.075	15	3.6	.22	3.5	1.7	<.05	6	4.5	30	

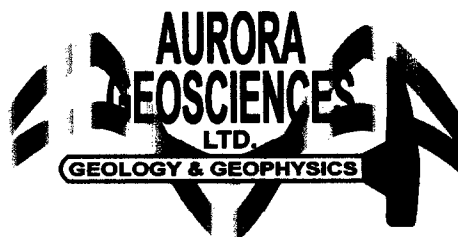
Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Yg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Sample
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	gm
L112E 49+25N	.7	46.3	12.9	65	.1	18.6	10.3	443	2.58	2.5	1.6	1.4	9.4	44	.2	.2	.3	60	.47	.049	14	43.5	.90	152	.119	2	1.78	.030	.23	.4	.02	4.1	.2<.05	6	<.5	30	
L112E 49+00N	.9	34.8	11.8	75	.1	18.8	11.4	433	2.63	3.2	1.1	1.0	5.4	35	.2	.2	.3	70	.41	.050	11	41.6	.88	121	.137	1	1.85	.018	.15	.3	.02	3.8	.2<.06	7	<.5	30	
L112E 48+75N	.5	44.3	8.0	74	.1	18.0	17.4	844	3.81	2.4	1.0	1.6	4.7	107	.3	.2	.2	82	1.03	.091	10	52.4	1.27	166	.016	<1	2.61	.012	.12	.2	.01	6.9	.1<.05	4	<.5	15	
L112E 48+50N	.8	25.6	10.6	86	.1	13.0	17.2	754	3.79	3.2	1.7	1.5	4.3	114	.3	.3	.2	83	.89	.103	11	46.5	1.14	155	.079	1	2.44	.023	.23	.3	.03	5.7	.2<.05	8	<.5	15	
L112E 48+25N	.4	57.7	11.2	67	.1	11.6	12.3	953	2.85	4.7	1.6	1.3	5.2	83	.4	.5	.2	46	.90	.100	24	23.3	.95	110	.069	<1	2.02	.010	.18	.2<.01	4.8	.1<.05	7	<.5	15		
L112E 48+00N	.9	27.4	8.6	77	<.1	23.2	12.2	475	3.36	5.0	1.1	1.5	4.9	23	.1	.3	.2	83	.35	.043	11	41.3	1.09	211	.174	1	2.47	.019	.24	.3	.01	6.5	.2<.05	8	<.5	30	
L112E 47+75N	2.4	62.2	17.8	309	.4	19.6	17.1	465	4.40	4.2	2.8	3.5	10.6	28	.8	.1	.5	149	.43	.031	17	33.5	1.87	206	.284	3	3.22	.039	.60	2.6	.02	14.4	.5<.05	10	.5	30	
L112E 47+50N	.8	33.1	14.1	89	.1	19.9	11.7	462	3.06	3.7	1.5	1.3	5.8	27	.2	.2	.3	79	.45	.038	11	40.1	1.10	214	.165	1	2.23	.024	.22	.3	.01	5.6	.2<.05	7	<.5	30	
L112E 47+25N	.9	48.2	21.0	137	.2	21.0	13.6	594	3.51	3.9	1.8	1.3	5.5	40	.5	.2	.6	89	.81	.055	11	44.2	1.31	252	.147	1	2.56	.027	.53	.4	.03	6.6	.3<.05	8	.5	30	
L112E 47+00N	.7	53.5	21.2	127	.2	34.2	15.2	618	3.19	4.0	1.3	.8	3.1	42	.7	.2	.4	82	1.06	.067	10	70.8	1.32	239	.131	2	2.44	.028	.43	.4	.02	5.8	.3<.05	7	<.5	30	
L112E 46+75N	.6	93.2	14.6	111	.2	27.6	13.8	528	3.30	4.0	2.1	2.7	3.4	57	.6	.2	.3	88	1.47	.082	10	57.8	1.31	203	.133	2	2.35	.030	.30	.3	.02	6.3	.2<.05	7	.5	30	
L112E 46+50N	.2	83.1	3.7	47	.1	176.0	20.2	263	2.30	.8	.4	1.2	1.2	21	.1	<.1	.1	42	.56	.066	3	333.7	2.42	155	.099	2	2.66	.013	.37	.1	<.01	3.7	.2<.05	4	<.5	30	
L112E 46+25N	.4	111.7	10.9	71	.2	57.6	16.3	423	2.44	1.9	1.0	1.9	2.7	25	.3	.1	.2	58	.79	.068	7	112.4	1.54	192	.123	1	1.95	.018	.37	.3	.01	4.8	.2<.05	5	<.5	30	
L112E 46+00N	.7	73.8	22.6	130	.3	23.8	14.0	539	3.50	3.0	1.4	3.4	9.6	42	.4	.1	.7	97	.98	.081	14	53.5	1.55	252	.184	2	2.48	.034	.52	.5	<.01	7.9	.4<.05	8	<.5	30	
L112E 45+50N	1.0	34.1	22.3	108	.2	16.2	9.0	520	2.55	3.2	3.5	1.2	7.4	46	.7	.2	.4	60	1.95	.047	16	30.0	1.61	187	.107	2	1.64	.025	.36	.4	.03	4.1	.2	.08	6	.5	30
L112E 45+00N	.7	70.0	20.4	128	.2	15.8	12.4	462	3.18	2.2	2.1	.9	6.7	53	.8	.1	.4	82	1.51	.070	10	33.8	1.33	185	.134	2	2.04	.063	.37	.3	.03	5.0	.2<.05	7	.6	30	
L112E 44+50N	.6	85.3	21.8	120	.2	19.4	11.6	497	3.06	3.9	2.3	1.6	9.9	40	.4	.1	.5	76	.99	.053	15	40.1	1.13	196	.146	1	2.07	.033	.42	.3	.01	5.5	.3<.05	7	.6	30	
L112E 44+00N	.6	40.5	9.3	94	.2	22.3	9.8	429	2.70	4.4	2.4	1.3	2.1	46	.9	.3	.3	60	1.63	.059	12	33.7	.88	204	.098	2	1.77	.023	.34	.2	.02	3.1	.2	.08	6	.7	30
L112E 43+50N	.6	24.0	11.5	117	.1	21.2	11.0	477	3.01	4.1	1.3	1.4	8.6	32	.5	.2	.3	67	.74	.049	13	37.9	.97	199	.163	1	1.91	.026	.34	.3	<.01	4.9	.2<.05	6	<.5	30	
L112E-43+00N	.7	23.3	8.6	76	.1	16.2	7.9	480	2.61	3.5	2.6	1.3	8.6	33	.3	.2	.2	53	.95	.046	17	27.1	.73	151	.127	<1	1.56	.020	.27	.3	.02	3.6	.2<.05	6	<.5	30	
L112E 42+50N	1.1	38.5	10.8	100	.1	13.2	6.9	489	2.33	3.1	3.4	1.3	5.5	31	.5	.2	.3	48	.80	.059	15	23.1	.70	155	.106	1	1.61	.023	.28	.4	.01	3.1	.2<.05	6	<.5	15	
OF L112E 42+50N	1.0	38.7	10.8	102	.1	12.9	7.0	479	2.33	2.9	3.4	1.1	5.4	30	.4	.2	.4	46	.79	.056	14	22.2	.68	151	.099	1	1.57	.023	.27	.5	.02	2.9	.3<.05	6	<.5	15	
L112E 42+00N	1.2	34.0	11.8	84	.2	11.7	8.2	491	2.42	3.2	3.1	1.7	5.4	33	.3	.2	.3	52	.82	.051	12	20.6	.73	131	.108	1	1.66	.026	.33	.3	.02	3.7	.2<.05	6	.5	30	
STANDARD DS6	11.3	120.0	29.5	144	.3	24.3	10.6	698	2.81	21.1	6.7	45.2	3.1	39	6.2	3.3	4.9	54	.82	.077	14	186.2	.58	164	.075	18	1.85	.073	.16	3.6	.21	3.3	1.7	<.05	6	4.4	ju

Sample type: SOIL SS80 60C. Samples beginning "RE" are Reruns and "RRE" are Reject Reruns.

APPENDIX III
CREW LOG



CREW LOG

MANSON CREEK RESOURCES LTD

MCK-05-001-YT

CUPRUM PROJECT - 2005

Gridding/Magnetics/Soil sampling and Prospecting

**Crew: Kel Sax (Geologist, crew chief)
Mitch Smasslet (Field assistant)
Andre Lebel (field assistant)
Mike Achtymichuk (field assistant)**

Thursday, July 07: Kel, Mitch, Andre, Travis and Calvin (expediter) depart Whitehorse for the Cuprum property at 1100h. Travis became ill and was taken to the hospital. Delayed departure until the next day to find a replacement for Travis.

Friday, July 08: Kel, Mitch, Andre, Mike, and Calvin depart Whitehorse at 0900h. Drive 26 km up the 37 Mile Creek road, very rough, requiring 4 wheel drive low in places. Set up camp at NAD 83 08V 0447100E 6761870N. Calvin returned to Whitehorse with rental truck and broken Honda ATV. Kel established center of grid at 446540E 6764750N. In the evening, Calvin dropped off Polaris 6 wheeler to replace the Honda. Cloudy with intermittent rain all day.

Saturday, July 09: Early morning, Mitch and Mike picked up Polaris from its drop-off and returned to camp. Load pickets and all drove to center of grid, approximately 5km from camp. Mitch and Andre run BL 50 N from 108E to 100E at bearing 280 deg. Kel and Mike ran BL 50 N from 108E to 118E, bearing 100 degrees. Compass declination set at 26 degrees E. Sunny and hot.

Production: 1.8 km of baseline gridding

Sunday, July 10: Start line gridding. Kel and Mike completed L108E and L107E from 4200N to 5800N; L107E has a 20m west offset from 5075N to 5175N, to avoid cliffs. Mitch and Andre completed L109E and the north half of L110E, also had problems with cliffs. Sunny and windy.

Production: 5.8 km of gridding

Monday, July 11: Kel picketed L104E, L105E, and L106E from BL 50N to 5800N with hipchain and compass. Note: strong local magnetics affect compasses. Mike did same lines from BL 50N to 4200N. Andre and Mitch hard chained L110E, L111E, L112E, and L113E from BL50N to the south; not all lines were completed due to cliffs. Kel drove ATV to highway to pick up supplies. Sunny and windy.

Production: 7.3 km of gridding

Tuesday, July 12: Kel prospects and fixes lines, Andre runs mag. Mitch and Mike picket remaining lines with compass and hipchain. Mike completed lines to the west, Mitch did the east side. Sunny and windy.

**Production: 4.1 km of gridding
7.9 km mag**

Wednesday, July 13: Dirt bag school for Mike and Mitch. They sampled lines 105E to 108E from BL50N to 58N. Kel samples lines 109E to 112E from BL50N to 42N. Andre magged. Sunny and windy.

**Production: 8.0 km of mag
170 soil samples**

Thursday, July 14: Kel prospects and puts tags on claim posts, Andre runs mag, Mike and Mitch soil sample line 104E, 109E and 110E on north side. Clear and warm.

**Production: 2.5 km of mag
50 soil samples**

Friday, July 15: Crew soil samples in morning on southern parts of lines 102, 103, 104, 106 and 107E. Calvin arrives in afternoon to demob crew back to Whitehorse. Clear, sunny and warm.

Production: 133 soil samples

APPENDIX IV
MINFILE OCCURENCES

YUKON MINFILE
MASTER REPORT
YUKON GEOLOGY PROGRAM
WHITEHORSE

MINFILE NUMBER: 105E 008

NAME (S): RUTH

STATUS: SHOWING

NTS MAP (1:250000): LABERGE

NTS MAP (1:50000): 105E4

MINING DISTRICTS: WHITEHORSE

UTM ZONE: 8

NORTHING: 6764337

EASTING: 446443

LATITUDE: 61° 0' 37" N

LONGITUDE: 135° 59' 26" W

LOCATION ACCURACY: .5 Kilometres

CLAIMS: SUNRISE	START: 1	END: 2
LADY LUCK	START: 1	END: 4
GRIZZLIE	START: 1	END: 4
EAGLE	START: 1	END: 3
JACKIE	START: 1	END: 3
DOROTHY	START: 1	END: 2
NAYDA	START: 1	END: 2
OSCAR	START: 1	END: 104
RUTH	START: 1	END: 16
LAKE	START: 1	END: 12
JACK	START: 4	END: 5
ZEUS	START: 1	END: 5

COMMENT:

MINERALS:

SIGNIFICANT: BORNITE
CHALCOPYRITE

COMMENTS: Found in skarnified limestone within volcanics in contact with biotite granite.

ASSOCIATED: MAGNETITE

COMMENT:

ALTERATION:

COMMENT:

ALTERATION TYPE: SILICIFICATION
SKARN

DEPOSIT:

TYPE: SKARN

AGE OF MINERALIZATION :	(Era) :	(Period) :
Start :	CENOZOIC	PALEOCENE
End :	CENOZOIC	PALEOCENE

Isotopic Age : Material :

COMMODITY:

Major:	Minor:	Trace:
COPPER	ZINC	
SILVER		

TECTONIC ELEMENT: NORTHERN STIKINE TERRANE

METAMORPHISM:

Type(s): Grade(s):

YUKON MINFILE
 MASTER REPORT
 YUKON GEOLOGY PROGRAM
 WHITEHORSE

REGIONAL GREENSCHIST
 CONTACT HORNFELS
 Comment:

OWNER/OPERATOR:

<u>YEAR</u>	<u>OWNER/OPERATOR</u>	<u>COMMENT</u>
1953	FOX, L. AND ASSOCIATES	Staked Sunrise and other claims over and around occurrence.
1964	MORRIS, F.	Retaked as Dorothy and Nayda claims.
1964	MILLER, R.	Retaked as Dorothy and Nayda claims.
1968	TAKHINI RIVER MINING LIMITED	Optioned property from Leverman.
1968	LEVERMAN, G.	Restaked as Oscar claims.
1970	LARSON, H.	Restaked as Ruth claims.
1972	LARSON, H.	Added Jack claims.
1997	LARSON, H.	Restaked part of occurrence as Zeus cl 1-5.

WORK HISTORY:

YEAR RANGE: 1968 TO 1969

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
HAND TRENCHING	0	0	
SOIL SAMPLING	0	0	
GEOPHYSICAL SURVEY	0	0	
COMMENT: Ground mag. & EM..			

YEAR RANGE: 1971 TO 1971

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
ROAD CONSTRUCTION	0	0	
COMMENT:			

YEAR RANGE: 1972 TO 1972

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
HAND TRENCHING	0	0	
PROSPECTING	0	0	
COMMENT:			

YEAR RANGE: 1974 TO 1974

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
BULLDOZER TRENCHING	0	0	
COMMENT:			

YEAR RANGE: 1975 TO 1975

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
BULLDOZER TRENCHING	0	0	
COMMENT:			

YEAR RANGE: 1976 TO 1976

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
HAND TRENCHING	0	0	
COMMENT:			

YEAR RANGE: 1978 TO 1978

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
HAND TRENCHING	0	0	
COMMENT:			

YUKON MINFILE
 MASTER REPORT
 YUKON GEOLOGY PROGRAM
 WHITEHORSE

YEAR RANGE: 1979 TO 1979

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
HAND TRENCHING	0	0	
COMMENT:			

YEAR RANGE: 1984 TO 1984

<u>WORK TYPE</u>	<u>#DRILL HOLES</u>	<u>AMOUNT</u>	<u>UNIT</u>
HAND TRENCHING	0	0	
COMMENT:			

EXPLORATION RESULTS:

Geochemical (Strong):

Commodity Sample Type

Geochemical (Weak):

Commodity Sample Type

Geophysical:

Visual:

RESERVES:

HOST ROCK:

DOMINANT HOST ROCK: VOLCANIC
 HOST ROCK GROUP: CARMACKS
 FORMATION:

AGE (Era) (Period)
 Start: MESOZOIC CRETACEOUS
 End: MESOZOIC CRETACEOUS

INFORMAL ROCK UNIT:

DATING METHOD:
 ISOTOPIC AGE:
 MATERIAL DATED:

LITHOLOGIES: BASALTIC FLOW

COMMENT: A small body of Late Cretaceous Carmacks Group volcanics (unit LKC) caps a nearby hill.

DOMINANT HOST ROCK: VOLCANIC
 HOST ROCK GROUP: LEWES RIVER
 FORMATION:

AGE (Era) (Period)
 Start: MESOZOIC TRIASSIC
 End: MESOZOIC TRIASSIC

INFORMAL ROCK UNIT:

DATING METHOD:
 ISOTOPIC AGE:
 MATERIAL DATED:

LITHOLOGIES: MAFIC SCHIST
 MARBLE SKARN

COMMENT: Unit uPT, Takhini assemblage volcanic rocks. Marble beds occur within unit.

DOMINANT HOST ROCK: PLUTONIC
 HOST ROCK GROUP:
 FORMATION:

AGE (Era) (Period)
 Start: CENOZOIC PALEOCENE
 End: CENOZOIC PALEOCENE

INFORMAL ROCK UNIT: ANNIE NED BATHOLITH

DATING METHOD: POTASSIUM/ARGON
 ISOTOPIC AGE: 57.2+/-2.0Ma
 MATERIAL DATED:

LITHOLOGIES: BIOTITE GRANITE

COMMENT: Unit ETqA, Annie Ned Granite, belonging to Nisling Range Plutonic Suite, intrudes Takhini Assemblage volcanic rocks. Age date from Hart's Bulletin 8. Age of mineralization based on age of intrusion.

CAPSULE WORK HISTORY

The earliest claim records show that the occurrence was staked within a group of claims consisting of Sunrise cl 1-2 (66617), Lady Luck cl 1-4 (66619), Grizzlie cl 1-4 (Y66623), Eagle cl 1-3 (Y66627) and Jackie cl 1-3 (Y66630), in Sep/53 by L. Fox et al..

Restaked as Dorothy cl 1-2 (90441) and Nayda cl 1-2 (90445) in Jul/64 by F. Morris and R. Miller. Restaked as Oscar cl 1-104 (Y25217) in Jul/68 by G.R. Leverman and optioned to Takhini River Minerals Ltd, which conducted ground mag, EM, soil sampling and hand trenching in 1968-69.

Restaked as Ruth cl 1-16 (Y59831) in Dec/70 and Lake cl 1-12 (Y67045) in Aug/72 by H.A. Larson, who built a tote trail in 1971, prospected and hand trenched in 1972, added Jack cl 4-5 (Y79568) in Jul/74 and bulldozed in 1974 and 1975 and hand trenched in 1976, 1978, 1979, 1984, and 1990. Larson restaked the occurrence within Zeus cl 1-5 (YC08019) in Jul/97.

CAPSULE GEOLOGY

Magnetite with minor bornite and chalcopyrite is found in two areas of skarn associated with marble in deformed Takhini Assemblage volcanic rocks (unit uPT) in contact with biotite granite (unit ETqA) belonging to the Late Cretaceous Annie Ned pluton. A small body of Late Cretaceous Carmacks Group volcanics caps a nearby hill.

The largest skarn zone measures 9 to 30 m wide, strikes north and dips about 25° east. It has been intermittently outlined in outcrop for a length of 760 m. Representative samples assayed from 0.3% to 17% Cu but the overall grade is estimated to be less than 1% Cu.

A specimen collected by Hart and Brent in 1993 returned 2.87% Cu, 9.5 g/t Ag and elevated zinc values.

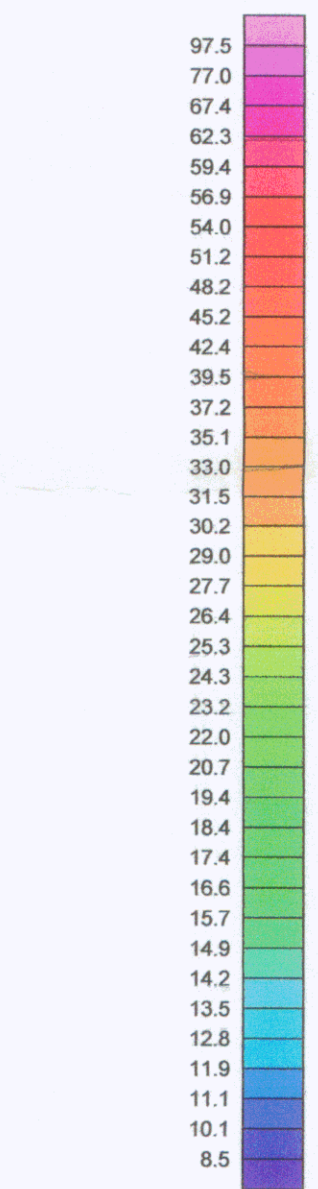
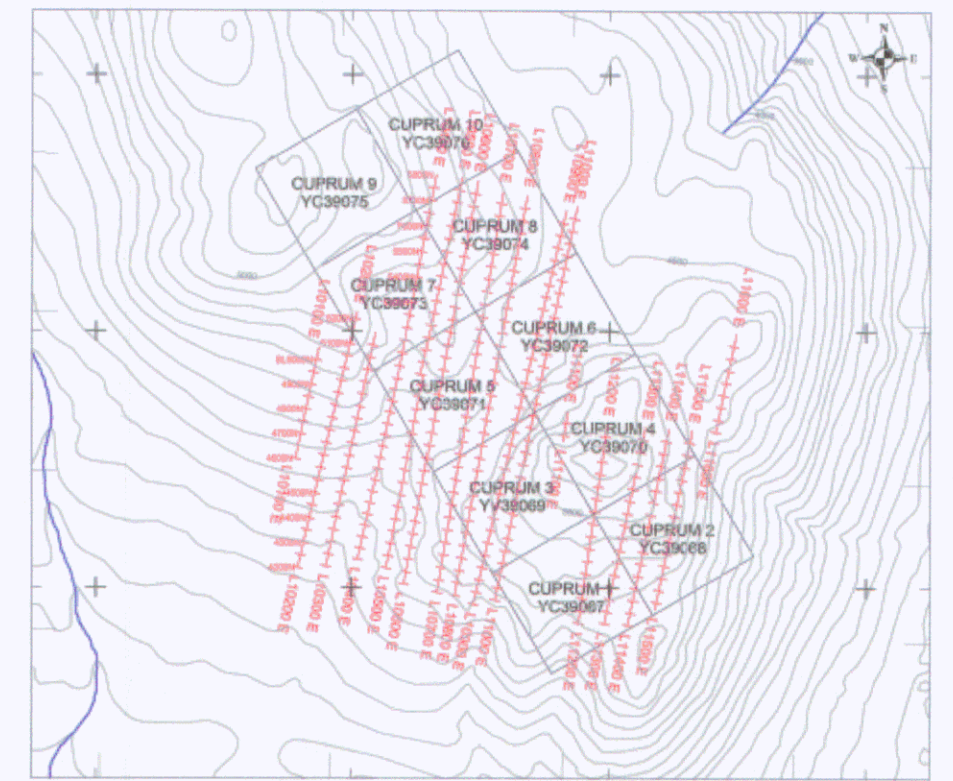
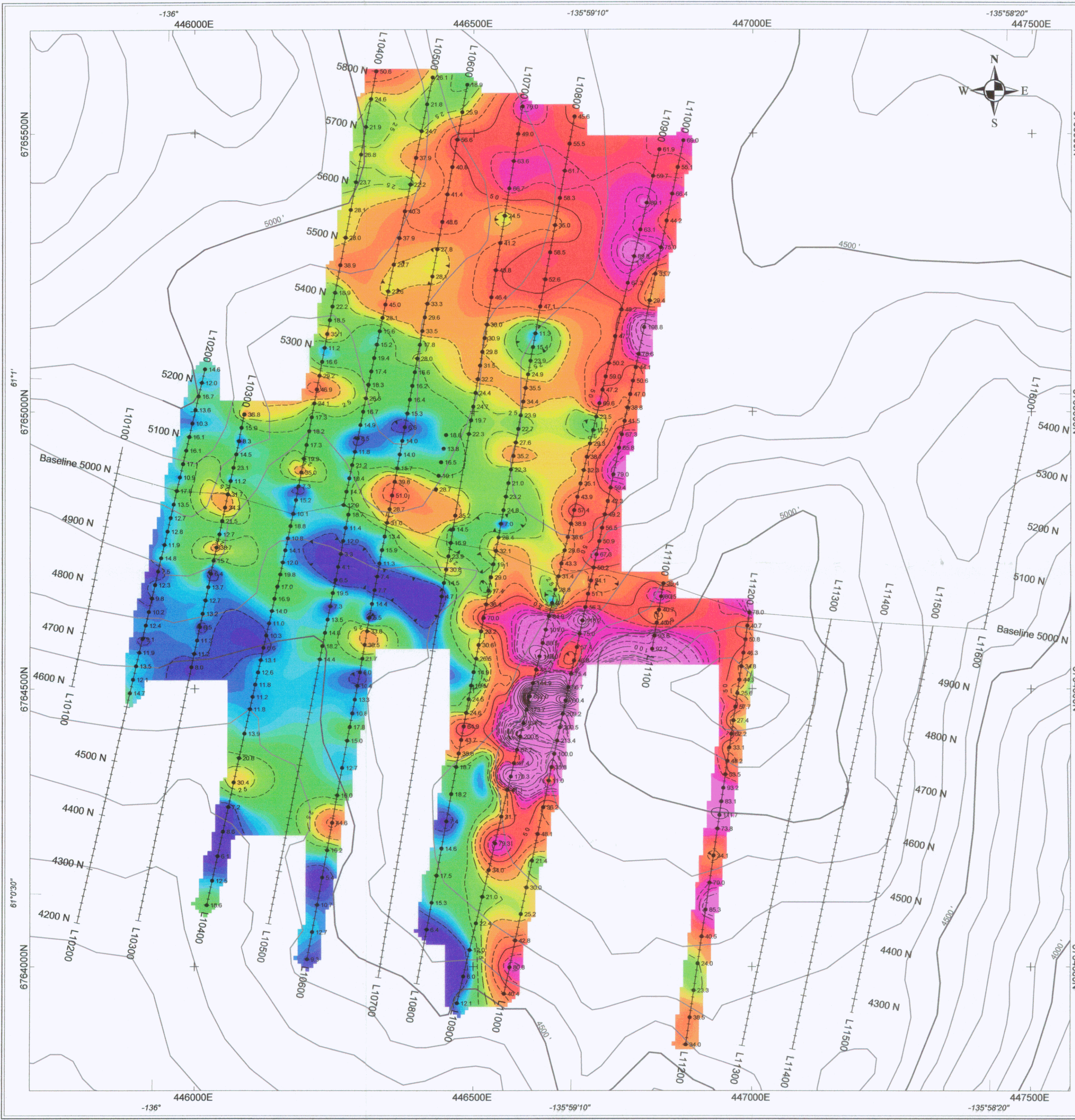
REFERENCES

HART, C.J.R., AND BRENT, D., 1993. Preliminary geology of the Thirty-Seven Mile Creek map sheet (105D/13). In: Yukon Exploration and Geology 1992. Exploration and Geological Services Division, DIAND, p. 37-46.

HART, C.J.R., 1997. A Transect Across Stikinia: Geology of the Northern Whitehorse map Area, Southern Yukon Territory (105D/13-16). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Bulletin 8, 112p.

HART, C.J.R., 1997. Geology of Thirty-seven Mile Creek map area, southern Yukon (NTS 105D/13). Exploration and Geological Services Division, Indian and Northern Affairs Canada, Geoscience Map 1997-4, 1:50 000 scale.

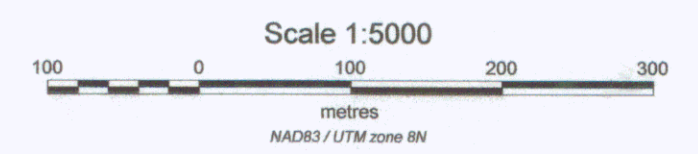
TAKHINI RIVER MINERALS LTD, Nov/68. Prospectus Report by A.R. Parker.



Copper Soil Geochemistry
ppm

20 February 2006
S. B. CASSELMAN
PROFESSIONAL
BRITISH
COLUMBIA

094569



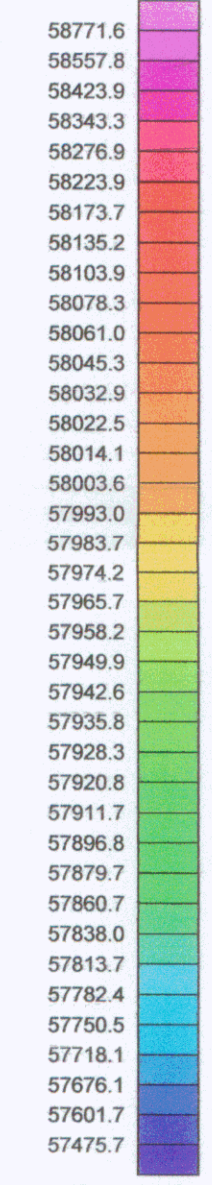
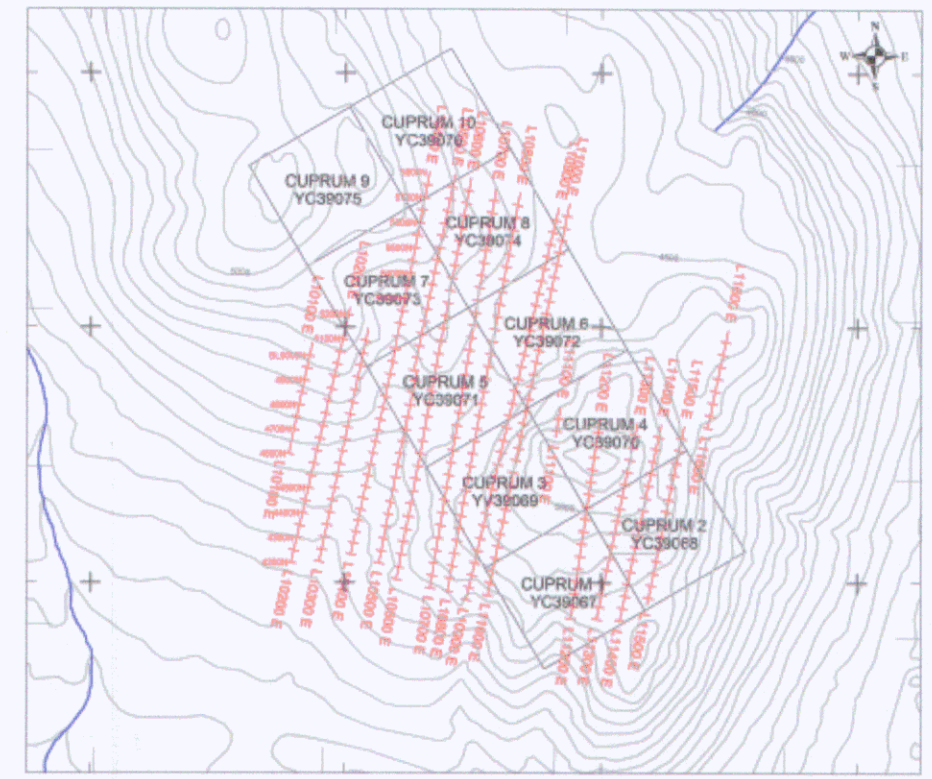
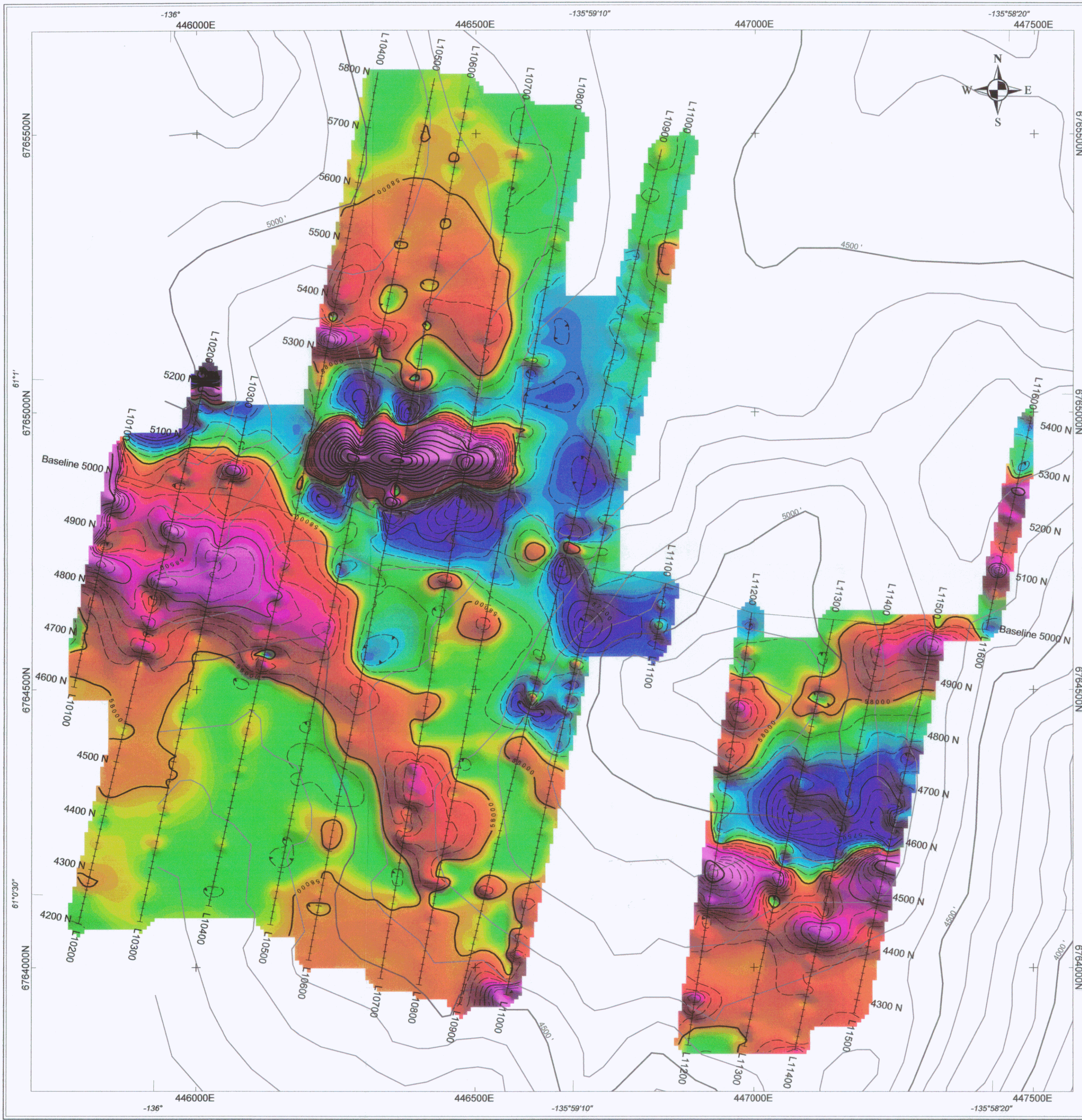
MANSON CREEK RESOURCES

CUPRUM PROPERTY
2005 EXPLORATION PROGRAM
Figure 6 - Soil Sample Copper Geochemistry

NTS: 105E04 & 115H01
Datum: NAD83
Date: January 24, 2006

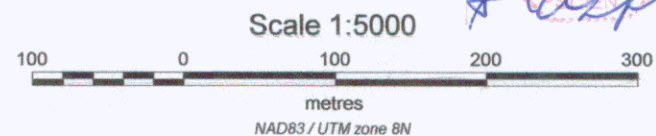
Mining District: Whitehorse
Projection: UTM Zone 8N
Job: MCK-05-01-YT

Aurora Geosciences Ltd.



Total Magnetic Field
nT
Contour interval = 100 nT

PROFESSIONAL
20 February 2006
S.B. CASSELMAN
Geophysicist
COLLUMBIAN
flax

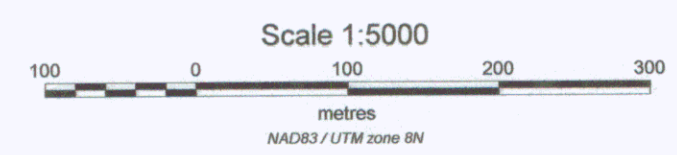
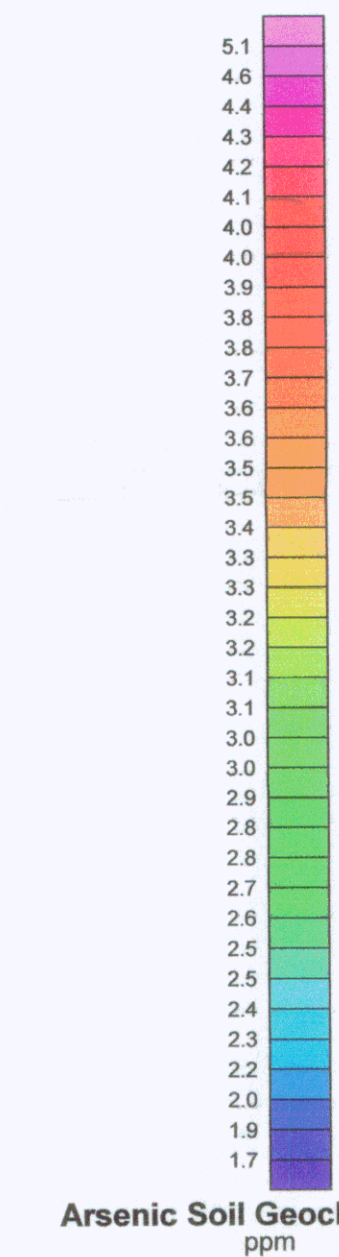
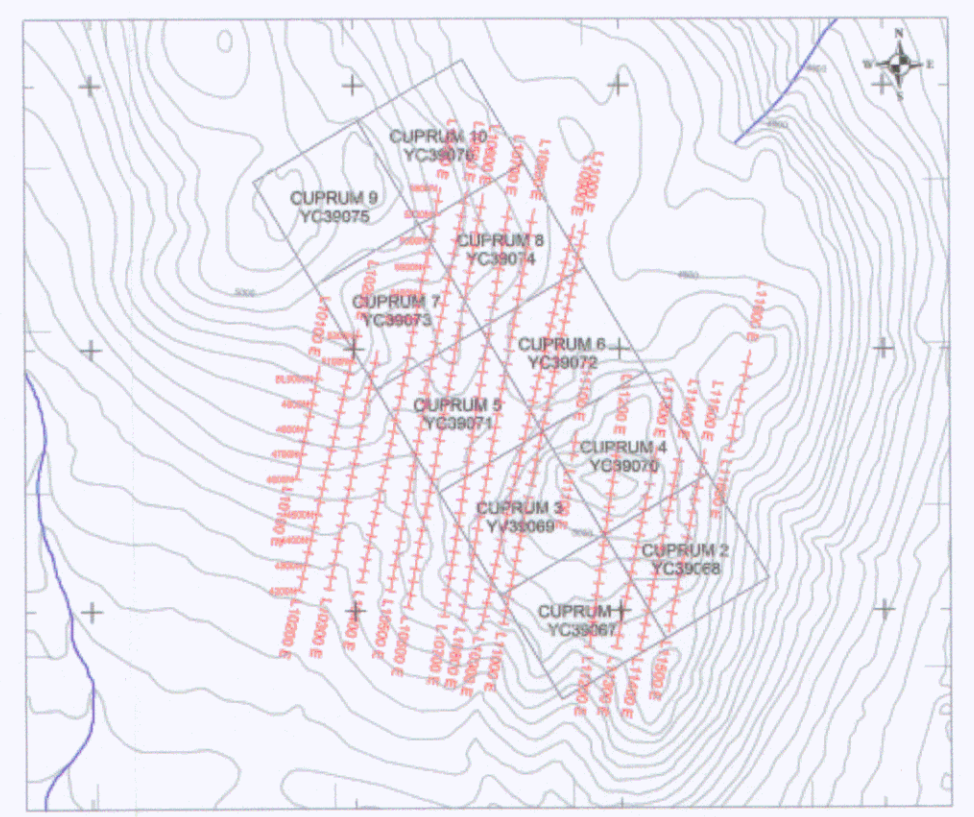
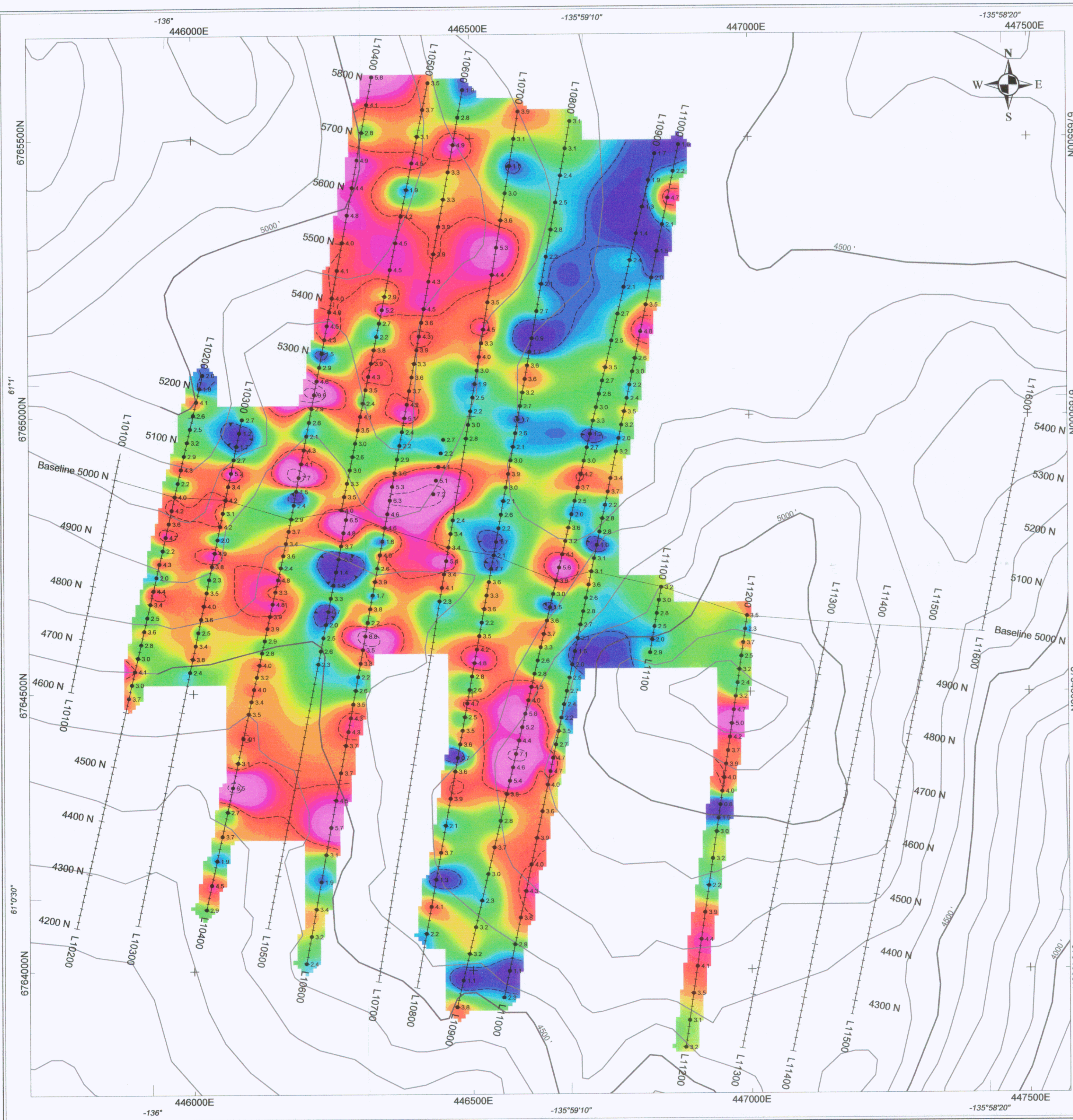


MANSON CREEK RESOURCES

CUPRUM PROPERTY
2005 EXPLORATION PROGRAM
Figure 8 - Shaded Relief Total Magnetic Field Map

NTS: 105E04 & 115H01 Mining District: Whitehorse
Datum: NAD83 Projection: UTM Zone 8N
Date: January 24, 2006 Job: MCK-05-01-YT

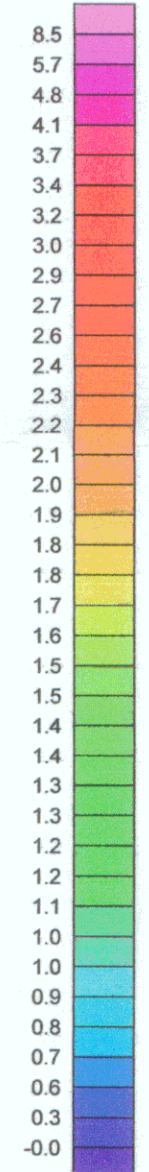
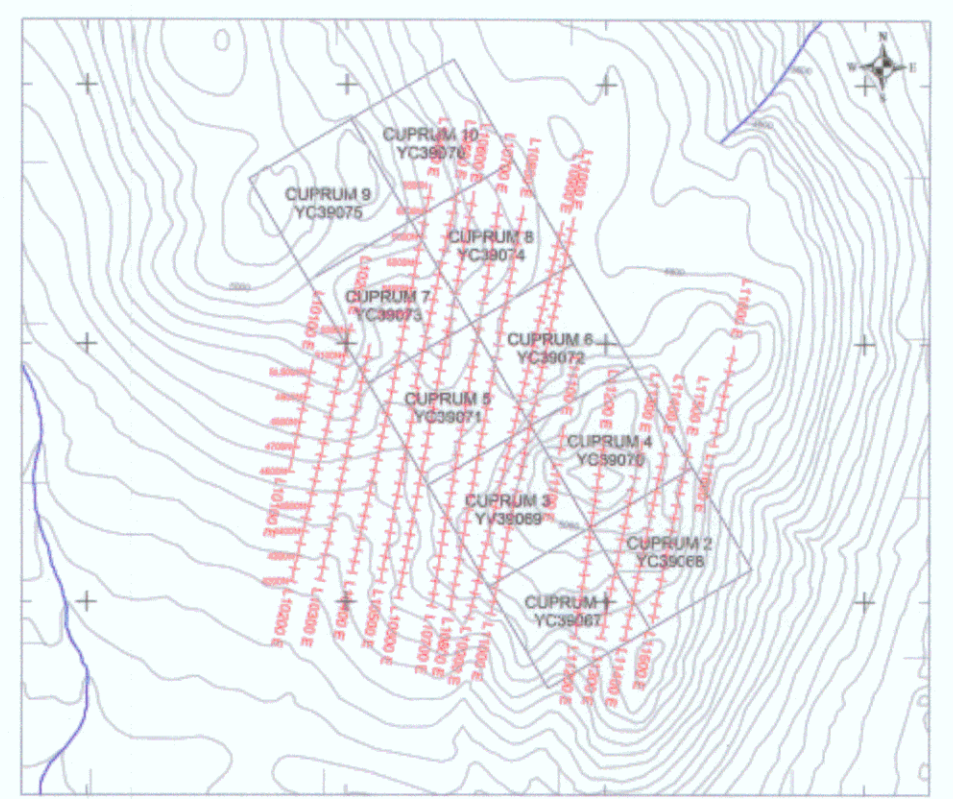
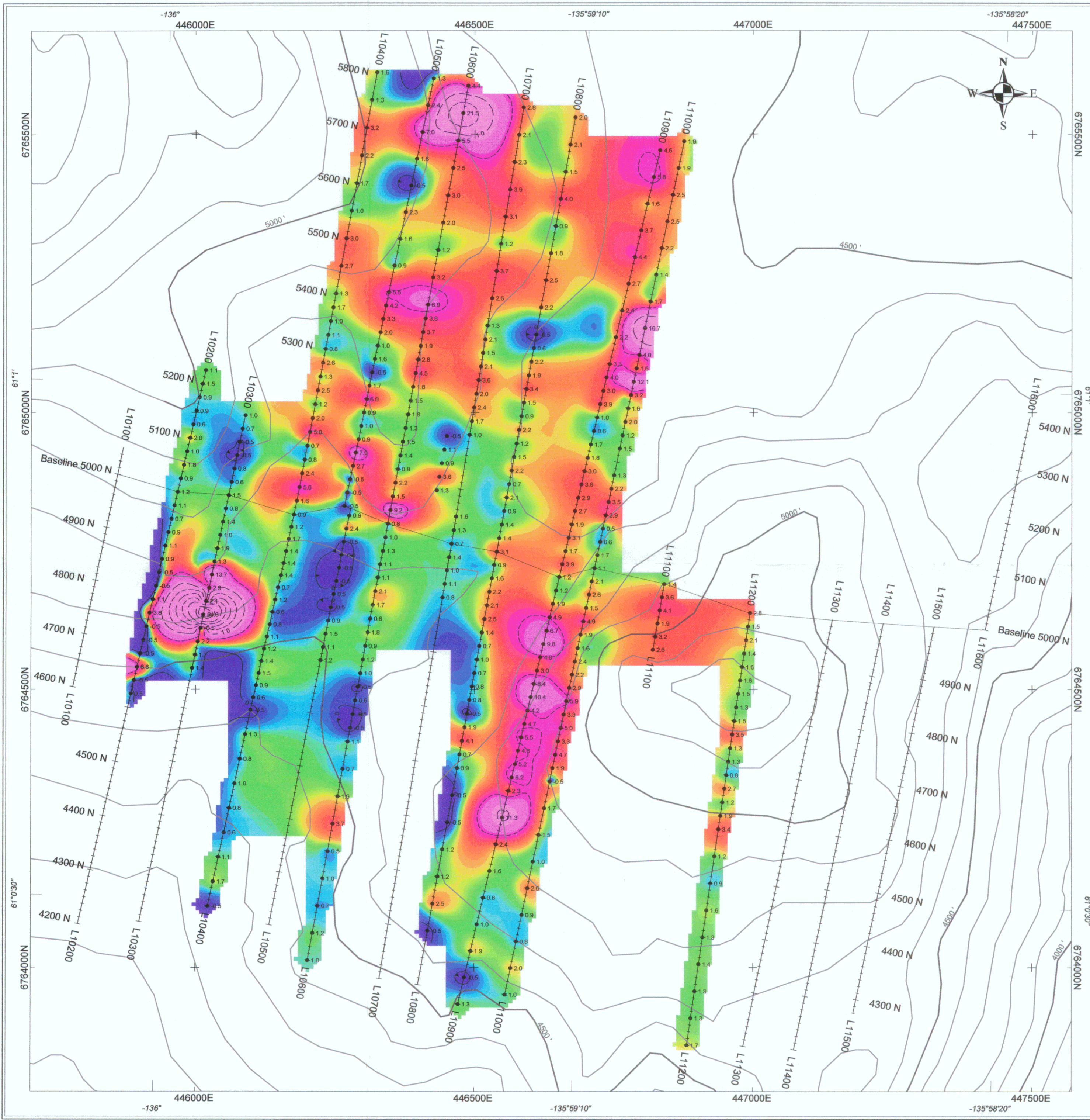
Aurora Geosciences Ltd.



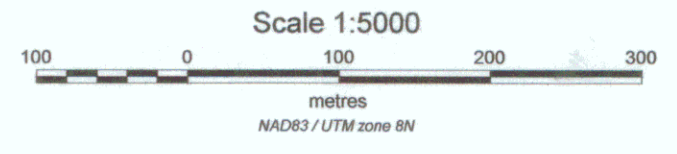
20 February 2006
 S. G. CASSELMAN
 BRITISH COLUMBIA
S. G. Casselman

094569

MANSON CREEK RESOURCES	
CUPRUM PROPERTY	
2005 EXPLORATION PROGRAM	
Figure 7 - Soil Sample Arsenic Geochemistry	
NTS: 105E04 & 115H01	Mining District: Whitehorse
Datum: NAD83	Projection: UTM Zone 8N
Date: January 24, 2006	Job: MCK-05-01-YT
Aurora Geosciences Ltd.	



094569
 20 February 2006
 S. CASSELMAN
 BRITISH COLUMBIA
[Signature]

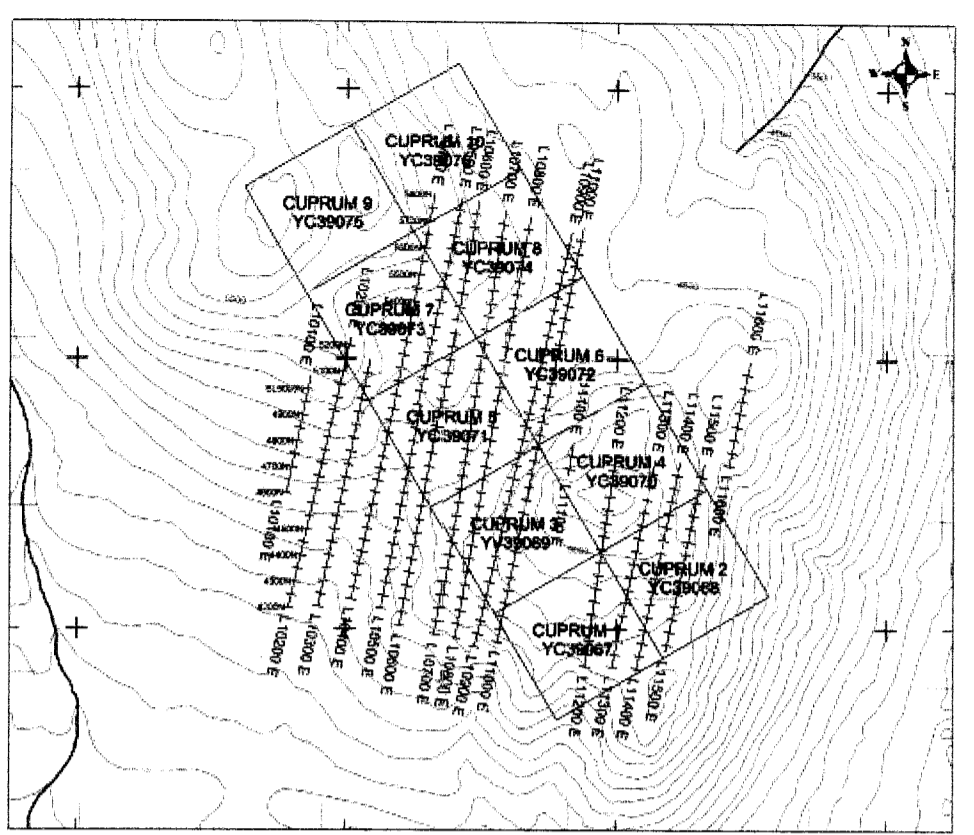
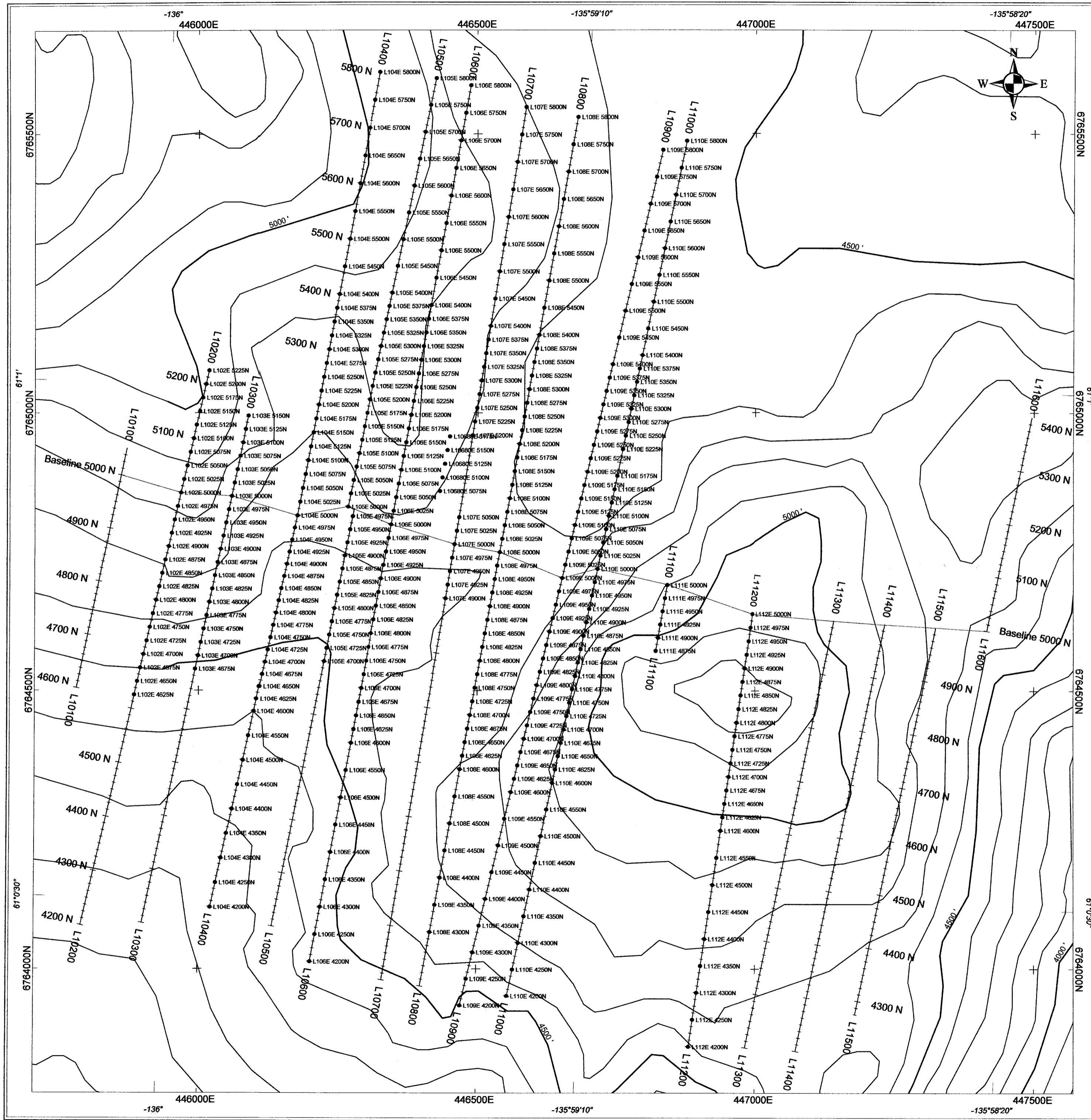


MANSON CREEK RESOURCES

CUPRUM PROPERTY
2005 EXPLORATION PROGRAM
Figure 5 - Soil Sample Gold Geochemistry

NTS: 105E04 & 115H01 Mining District: Whitehorse
 Datum: NAD83 Projection: UTM Zone 8N
 Date: January 24, 2006 Job: MCK-05-01-YT

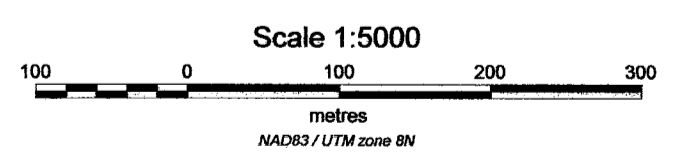
Aurora Geosciences Ltd.



LEGEND
 ● soil sample location

094569

20 February 2006
 S. G. CASSELMAN
 BRITISH COLUMBIA



MANSON CREEK RESOURCES	
CUPRUM PROPERTY	
2005 EXPLORATION PROGRAM	
Figure 4 - Soil Sample Location Map	
NTS: 105E04 & 115H01	Mining District: Whitehorse
Datum: NAD83	Projection: UTM Zone 8N
Date: January 24, 2006	Job: MCK-05-01-YT
Aurora Geosciences Ltd.	



GEOLOGICAL LEGEND

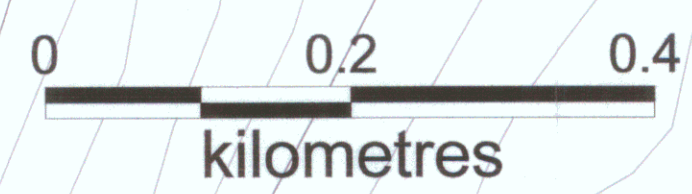
- V Volcanics
- Limestone
- CS Calc-silicate
- H Hornfels
- mag Magnetite skarn
- ★ trench

094569

20 February 2006
 S. G. CASSELMAN
 COLUMBIA

Note: geology provided by Regan Chemish of Manson Creek Resources Ltd

Scale 1:5,000



MANSON CREEK RESOURCES LTD	
CUPRUM PROPERTY 2005 EXPLORATION PROGRAM Figure 9 - Property Geology Map	
NTS: 105E04 & 115H01 Datum: NAD83 Date: February 19, 2006	Mining District: Whitehorse Projection: UTM zone 8N Job: MCK-05-01-YT
<small>AURORA GEOSCIENCES LTD</small>	