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PROSPECTING AND GEOCHEMICAL REPORT

on the

CHOPAKA CLAIM GROUP

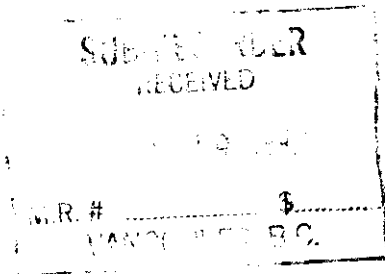
(CHOPAKA 13, 14 & 15)

KEREMEOS-NIGHTHAWK AREA

OSOYOOS MINING DIVISION

82E-4E

(49 01' N. Lat., 119 41 W. Long.)



for

MICHAEL J. HARRIS
(OWNER)

by

MICHAEL J. HARRIS, B.A.
Prospector

June, 1992

GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,405

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SUMMARY AND CONCLUSIONS

The Chopaka Claim Group is located 25 kms southeast of Keremeos, B.C. at the junction of Highway 3 and the Nighthawk Road. Osoyoos is 20 kms to the east along Highway 3. The Group consists of 35 claim units and comprises approximately 875 hectares.

The area has a history of mining exploration and production dating back to the turn of the century. The Dankoe Mine, located to the northwest and adjacent to the Chopaka Claims, has been in production intermittently since the early 1920's. Silver, lead, copper, zinc and gold are contained in quartz veins which are found within a large body of syenite. To the south, in Washington State, production is recorded in lead, zinc, silver, and gold veins at the Nighthawk camp.

This report covers the 1991 work program on Chopaka 13, 14 and 15, comprising an 11 claim unit portion of the Chopaka Claim Group. These claims are located on Barber Mountain, which is situated in the south section of the claim group at the Canada-United States border. Previous work on the Chopaka Claim Group was undertaken in 1989\1990 on the central portion (Assessment Report No. 20172) and in 1990 on the northern portion (Assessment Report No. 20925).

The objective of this program was to locate signs of mineralization, primarily in vein-type deposits, and where possible to correlate data with previous work. The program included prospecting and rock and soil sampling and establishment of a 5000 meter grid. Soil samples from a large drainage gully were also taken.

The 1991 program failed to match the findings of the two previous work programs undertaken on the Chopaka Claim Group.

Several rock and soil samples yielded anomalous values as follows:

R-201, a float sample found at lower elevations and east of the grid area, contained 1000 ppm nickel and 14.97% magnesium. A deposit of gypsum, concentrated as an evaporate on a playa, lies approximately 1 km to the south on Lenton flat in Washington State. This deposit contains high concentrations of magnesium. Further sampling at the location of R-201, including soils, would be necessary to determine the significance of this sample and any possible association with the above mentioned deposit.

The soil survey indicated a weak mineralized zone with anomalous silver, arsenic, and lead located at 200W-350N and traced westerly to 100W-350N. Rock samples R-212, R-213 and R-217 taken from this area were of a crumbly, altered granodiorite and are believed to be associated with a shear zone.

A quartz vein up to 2 feet in width, with an adjacent 8 foot diorite dyke, was located at E200-N825. The quartz vein was heavily fracture and stained. Analysis of samples from the quartz vein and diorite (R-218, R-219, R-220 and R-221) indicated only minor anomalies in silver, lead, arsenic and gold

A number of other rock and soil samples were anomalous and are described in this report.

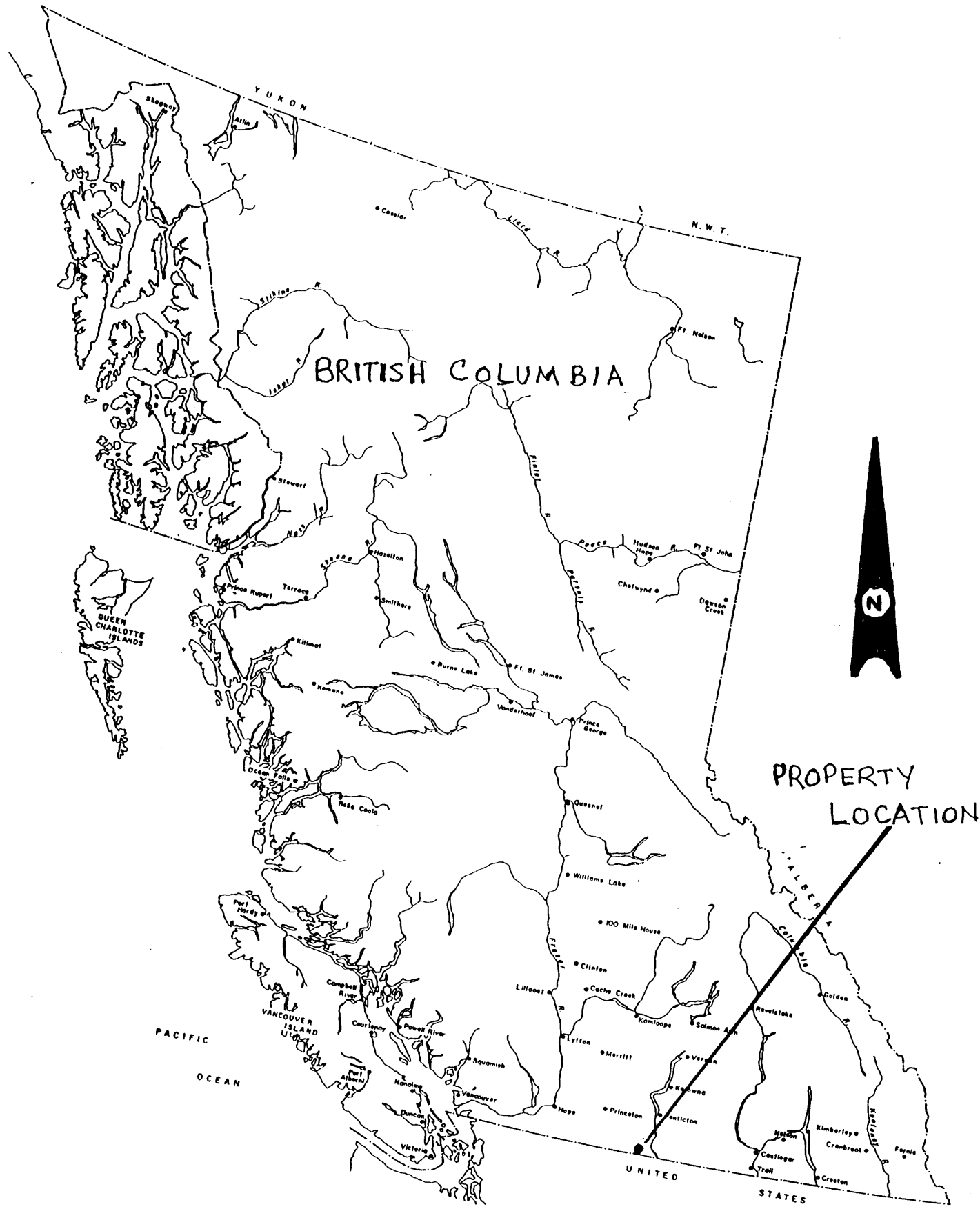
The scope of this program is considered to be of a preliminary exploration nature. Although results from the 1991 work program are not overly encouraging it has identified the presence of mineralizing activities. There are large areas yet to be prospect-ed on Chopaka 13, 14 and 15 and this should be undertaken as a future program.

Respectfully submitted,



Michael J. Harris, B.A.
Prospector

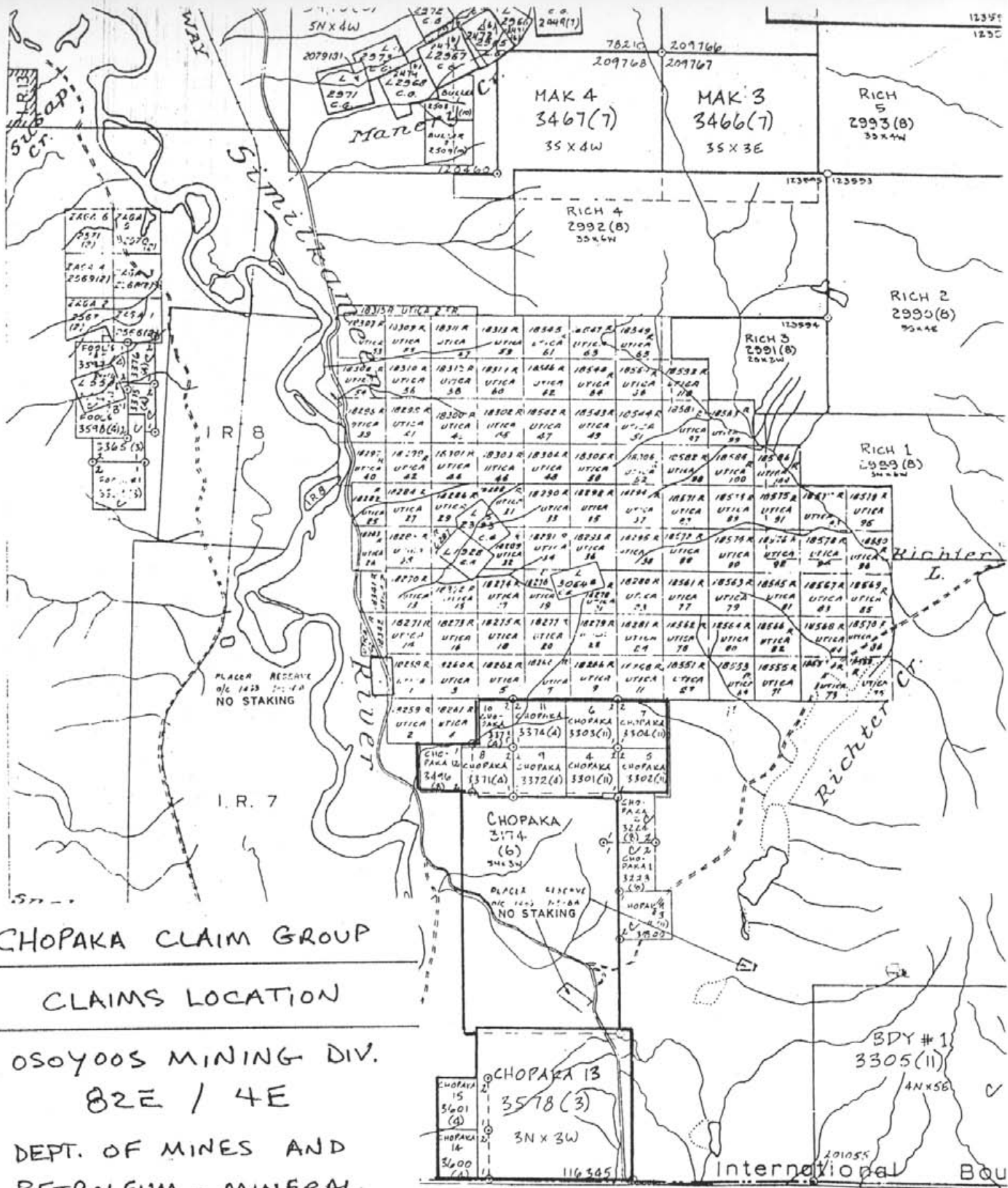
Vancouver, B.C.
June, 1992



CHOPAKA CLAIM GROUP

LOCATION MAP

DATE: JAN. 91	SCALE:	FIGURE: 1
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CHOPAKA CLAIM GROUP

CLAIMS LOCATION

OSOYOOS MINING DIV.

82E / 4E

DEPT. OF MINES AND
PETROLEUM - MINERAL
CLAIM MAP - JUNE, 1991

SCALE 1:50,000

Fig 2

DEPARTMENT OF MINES AND P
VICTORIA,
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1 . 0 INTRODUCTION

1.1 GENERAL

Field work was conducted on the Chopaka Claims 13, 14 and 15 from May 11, 1991 to October 20, 1991 by Michael J. Harris. A total of 10 days of work was recorded. Several rock and soil samples were taken while staking the claims and analytical results have been included as part of this report.

Chopaka Claims 13, 14 and 15 are located in the south section of the claim group at the Canada-United States border. Elevations range from 400 meters to 900 meters. Traverses by foot to all parts of the claims covered by this work program were relatively easy with the exception of several precipitous cliffs which were not attempted.

A 5 km grid located at the higher elevations of Barber Mountain was established. Lines were placed at 100 meter intervals. Soil samples were obtained every 25 meters along the grid lines and samples of rocks showing mineralization or alteration were taken. A total of 209 soil samples and 23 rock samples were taken for laboratory analysis.

1.2 LOCATION AND ACCESS

The property is located 25 kms southeast of Keremeos, B.C. at the junction of Highway 3 and the Nighthawk Road. Osoyoos is 20 kms to the east. The Nighthawk Road leads to the Chopaka customs station at the Canada - United States border 2.5 kms south of Highway 3.

Coordinates for the property are 49 01'N. Latitude and 119 41'W. Longitude (NTS 82E-4E Osoyoos Mining Division.)

Access to the Claim Group can take place along Highway 3 and the Nighthawk Road in the south and central portions of the claims. A four wheel drive road in the south section leads to the top of Barber Mountain. Access to the north section may be possible from a four wheel drive road which leads to the top of Richter Mountain.

During this program access to Chopaka claims 13, 14 and 15 took place by foot at several locations along the Nighthawk Road.

1.3 PHYSIOGRAPHY

The Chopaka Claim Group is located in the Okanagan range of the Cascade Mountains. Elevations vary from 400 meters to 1250 meters

above sea level. Highway 3 crosses the claims at the lower elevations forming the Richter Pass. Elevations increase to the north with the south slope of Richter Mountain. To the south elevations increase with the north slope of Barber Mountain.

Topography is gentle to steep with a variety of cliffs and talus slopes. Several drainage gullies cut through the claims. Traverses over the claims covered in the 1991 work program were relatively easy with the exceptions of several cliffs. Overburden covers most of the lower elevations and few outcrops are exposed. Glacial and alluvial gravels and debris are prominent. Vegetation consists of bunch grass and sage brush with a scattering of deciduous and coniferous (mostly pine) trees.

The upper elevations consist of a greater proportion of outcrop but the prominence of talus and overburden continues to cover large areas. Coniferous trees, pine and fir, increase with elevation.

Cattle graze throughout the property during the summer.

1.4 CLIMATE

The climate is hot and dry in the summer and cold in the winter. Work is possible on the property year-round except during heavy winter snowfalls. Temperatures average 50 F. with lows of -10 F. to highs of 120 F. Precipitation is light, 7-10 inches per year, and results in the semi-arid condition of the area.

1.5 PROPERTY AND CLAIM STATUS

The Chopaka Claim Group consists of two modified grid claims and eleven 2 post claims for a total of 35 claim units. The claims are owned by Michael J. Harris, 2710 Cactus Court, North Vancouver, B.C.

This report covers work performed on Chopaka 13, 14 and 15 and if accepted will put these claims in good standing up to 1996 (14&15) and 1997 (13).

The Chopaka claim 3174 is in good standing until 1996 as a result of the acceptance of Assessment Report No. 20172. Assessment Report No. 20925 covering the Chopaka claims 3301, 3302, 3303, 3304, 3371, 3372, 3373, 3374 and 3496 have placed these claims in good standings from between 1996 and 1998.

The Chopaka Claim Group is located in the Osoyoos Mining Division and consists of the following:

Claim	Units	Record No.	Expiry Date
Chopaka	15	3174	June 5, 1996

Chopaka 4	1	3301	November 13, 1996	
Chopaka 5	1	3302	November 13, 1996	
Chopaka 6	1	3303	November 13, 1996	
Chopaka 7	1	3304	November 13, 1996	
Chopaka 8	1	3371	April 10, 1998	
Chopaka 9	1	3372	April 10, 1997	
Chopaka 10	1	3373	April 10, 1998	
Chopaka 11	1	3374	April 10, 1997	
Chopaka 12	1	3496	August 18, 1998	
Chopaka 13	9	3578	March 31, 1997	*
Chopaka 14	1	3600	April 27, 1996	*
Chopaka 15	1	3601	April 28, 1996	*

* Upon acceptance of this report.

1.6 AREA AND PROPERTY HISTORY

There are no known records of the workings on the Chopaka Claim Group which consist of a 5 meter adit and two trenches. The workings likely date back to early exploration in the 1920's.

Two assessment reports, dating back to 1985 (Weymark) and 1986 (Crooker), are available covering the southern portion of the Chopaka claims and are identified in item 6.0 References. Both reports provided useful information about the area around the adit. The Weymark report also includes geochemical and geophysical surveys on parts (primarily at the lower elevations) of Chopaka 13. Although there is evidence of previous staking throughout the claim group there are no known records available of work undertaken except for those stated above.

The Nighthawk area of Washington State has been the scene of mining activity since the 1880's. Intermittent production has taken place at the Four Metals Mine, Kaaba Texas, Little Chopaka Six Eagles, Ruby Mines, etc. The main values were in silver and lead with lesser values in zinc, copper and gold. Deposits were found in quartz veins. Exploration continues in the area.

Geology and Mineral Deposits, Loomis Quadrangle, Okanogan County, by Rinehart and Fox, page 120, suggests that, although previous mining has depleted known reserves, several areas offer the most potential for exploration, one of which is the altered area within the Similkameen pluton north of Nighthawk.

To the north and adjacent to the Chopaka Claim Group the Horn Silver deposit, currently operated by Dankoe Mines, has been intermittently in production from 1920 to 1984. A Mill facility is located on site and has recently operated for short periods of time on a custom-milling basis. Over ten thousand ounces of gold and four million ounces of silver have been recorded from this deposit. Production has also been recorded from the Mak-Sikkar north of Dankoe Mines. A recent assessment report for the Mak-

Sikkar reported one assay of 6.957 o.p.t gold. The Fairview mining area, 15 km to the northeast, was one of the earliest mining camps in British Columbia dating back to the 1890's.

Approximately 13 kms to the east of the Chopaka Claim Group, the Dividend-Lakeview deposit has a reported production of 16,000 ounces of gold.

To the west and across the Similkameen River limited exploration has taken place because of its inaccessibility, however, several areas of mineralization have been recorded.

Exploration continues in the area on known occurrences and generally throughout. A large block of claims (Rich claims), on Richter and Kobau Mountains, was staked in 1988 by Minova Corp. A recent assessment report on the Rich claims identified two areas of interest where analysis of rock samples revealed values of 6800 ppb and 2200 ppb gold taken from highly silicified and quartz veined gossans.

2 . 0 EXPLORATION PROCEDURE

2.1 GENERAL

A 5 km grid was established which covered the higher elevations on Barber Mountain. A total of 209 soil samples and 23 rock samples were taken for analysis. All samples were tested for Au and a 30 element ICP.

Prospecting took place along the claim lines and the grid as well during traverses throughout the claims. Rocks showing signs of mineralization or alteration were collected. Sites were revisited upon receiving favourable laboratory analysis.

2.2 LOCATIONS AND PROCEDURES

A 5 km grid was established. Commencing at the south boundary of the claims a baseline was placed in a northerly direction along the claim line for Chopaka 14 and 15 for a length of 1000 meters. Two lines were placed to the east of the baseline at 100 meter intervals. Line E100 was extended for 1300 meters and line E200 for 1275 meters to the north. To the west of the baseline two lines were placed at 100 meter intervals. Line W100 was run northerly for 1000 meters with the exception of 100 meters at the site of a large cliff. Line W200 was extended for 500 meters less 100 meters at the cliff area. Sample stations were placed every 25 meters along the lines. Six soil samples were taken from a large gully which drains to the east below the grid.

Soil samples were taken at every station from the brown "b" horizon using a standard long handled shovel with a galvanized scoop at depths of 5 to 15 cm and placed in kraft soil sample bags.

Gold, silver, and anomalous arsenic, zinc and manganese are plotted on Figure 4 at a scale of 1:2500.

2.2 GEOCHEMICAL ANALYTICAL METHODS

Soil and rock samples were taken for laboratory analysis to either International Plasma Laboratory Ltd., 2036 Columbia St., Vancouver or Acme Analytical Laboratories Ltd., 852 East Hastings St., Vancouver, B.C. Laboratory techniques for geochemical analysis consists of preparing samples by drying at 95 C, and sieving or grinding to minus 80 mesh. An 30 element ICP and Au (fire assay, aqua-regia digestion, atomic absorption finish) were then carried out on the samples.

3 . 0 GEOLOGY AND MINERALIZATION

3.1 REGIONAL AND CLAIM GEOLOGY

The Chopaka claim group is underlain by the Similkameen composite pluton which is defined as a zoned pluton with quartz monzonite and granodiorite composition in the central part, a complex of alkalic rocks in the marginal part, and monzonite in the intervening part. The pluton is estimated to be 130 sq. miles in area. It is considered to be of Jurassic or Cretaceous age and generally believed to be part of the Nelson plutonic complex. The claims are specifically underlain by a grey granodiorite.

To the north, and possibly intersecting the northeast corner of the Chopaka Claim Group, contact is made with the syenite which forms a east-west trending band of between 2.0 km to 1.3 km. The Dankoe Mine is located within the western edge of this band, overlooking the Similkameen River.

The Kobau group, which has been intruded by the Similkameen pluton and the syenite, is located to the north. It is comprised of a great thickness of metamorphosed, stratified rocks mainly of sedimentary origin and considered to be of Carboniferous age. Quartzites, mica schists, and greenstones characterize this formation.

A number of mafic dykes intrude the granodiorite on the Chopaka claims and generally are in a northeast-southwest direction. Thin pink feldspar veinlets are also present in the granodiorite in several locations.

A magnetic outcrop of approximately 15 square meters was located during the 1989-1990 program. A sample was sent for petrographic analysis and was classified as a medium grained mafic rich diorite made up of 40% hornblende. Other samples of diorite, but of a smaller grain size, were located in the 1991 program as well as the previous work programs. It would appear that dioritic dykes or plugs have intruded the granodiorite pluton. Mineralization can occur at the contact of intrusives and, therefore, such areas are considered good exploration targets.

3.2 MINERALIZATION AND ALTERATION

In the previous report on the Chopaka claims (Assessment Report No. 20172) it was noted that mineralization was found in quartz veins, altered granodiorite, and float. Anomalous silver values were found in mafic dykes.

The following summary gives a brief description of these showings:

- 1) an adit in the south section of the claims intersects two mineralized quartz veins. Quartz, up to 50 cm wide, occurs within a wider shear zone. It contains galena, pyrite, sphalerite, chlorite, malachite and sericite. Silver values, and to a lesser degree gold values, are revealed in laboratory analysis.
- 2) a 10 cm quartz vein was located at L600 E210. Contact with the granodiorite is sharp with very little alteration. Pyrite, sphalerite, chlorite, hematite and chalcopyrite are observed. The quartz is layered and carbonization is evidenced by reaction to acid. Analysis resulted in values up to 460 ppb gold, 8.0 ppm silver, 303 ppm zinc and 281 ppm copper.
- 3) altered granodiorite containing thin quartz veinlets was located along Lines 500, 600 and 700 at points that infer a possible northwest-southeast zone of alteration. Hydrothermal alteration in the granodiorite is mainly in the form of iron staining, with some pyrite, sericite, mica, and chlorite. Values in outcrops up to 220 ppb gold and 1.7 ppm silver were revealed in analysis with no significant values in other minerals. A float sample of quartz pegmatite found at the above location returned values of 455 ppb gold and 3.5 ppm silver.
- 4) Float samples of a vuggy quartz containing hematite were located at L500 E035. Analysis resulted in values of 2750 ppb gold and 8.8 ppm silver. Surrounding altered granodiorite float returned values of 1100 ppb gold and 4.8 ppm silver. These samples were found downslope from a series of gold anomalies in soil up to 350 ppb gold.
- 5) Mafic dykes, ranging in width from several cms to 5 meters, were located at a number of locations throughout the grid area. These dykes are magnetic and show various amounts of carbonate precipitate and iron staining. Silver values of up to 4.5 ppm silver were recorded with some samples showing minor values in other minerals such as 291 ppb lead.

The 1990 program, covered by Assessment Report No. 20925, located a number of rock samples with similar characteristics. Most notable were those of altered diorite which resemble in appearance the altered granodiorite mentioned in item 3 above.

- 6) altered diorite was located at 600N 1570W which is in the western portion of the exploration area and at approximately the same elevation as the Dankoe Mine located about 2 km to the northwest. The area is covered in talus made up of granodiorite with minor iron stained quartz float. Rock samples, R109 and R136, were of altered diorite. Analysis was as follows: R109 - 8910

ppb gold and 33.9 ppm silver, and R136 - 22,338 ppb gold and 110.7 ppm silver; samples of quartz float at the same location, R134 - 5 ppb gold and .3 ppm silver, and R135 - 81 ppb gold and 1.3 ppm silver would indicate that the mineralization is associated primarily with the wallrock; sample R137 was located 150 meters uphill to the east which was of similar appearance as R109 and resulted in analysis of 2574 ppb gold and 16.0 ppm silver and no base metal values.

- 7) rock samples taken at 600N 1265W show similar characteristics to the adit vein mentioned in item 1 above. High lead values, such as in R141 - 26,711 ppm, were found in quartz float with adjacent shear material. This sample also contained 2490 ppb gold, 16.8 ppm silver, 323 ppm zinc, and 113 ppm arsenic. Other samples taken from this location, had anomalous values in gold, silver, lead and arsenic.
- 8) approximately 300 meters to the east and 100 meters to the north of site 7) a large angular boulder made up of quartz and shear rock was found at the bottom of the large gully which dominates the surrounding topography. The rock has elongated quartz crystals, chlorite, iron staining and a vuggy texture. Analysis of this sample, R102, indicated values of 685 ppb gold, 2.4 ppm silver, 158 ppm zinc and 166 ppm arsenic.
- 9) a quartz vein was located 70 meters south of Line 600N 1550W. The vein strikes east-west and is broken into three veinlets varying in width between 1cm and 5cm. The first sample taken, R133, contained anomalous gold - 64 ppb but was otherwise barren. A subsequent sample taken close by, R144, which was altered granodiorite float with pyrite, contained anomalous values in gold - 230 ppb and silver - 1.0 ppm and no base metal values. Prospecting downhill from the vein located samples R150 and R151 approximately 100 meters below. R150 was an iron stained vein about 5cm wide containing quartz, pyrite and mica. Analysis indicated 1130 ppb gold and 4.4 ppm silver. This sample was loose and buried and further digging would be necessary to determine if it is an outcrop. Located close by, sample R151 was a quartz float with adjacent wallrock containing 200 ppb gold and .9 ppm silver.
- 9) Two mafic dykes, similar in appearance to item 5 of the previous program, were found. The first on the steep slopes of Chopaka 12 and the second at location 400N 025W where soil samples #1 and #2 had anomalous gold values of 73 ppb and 62 ppb respectively. These rocks were not analyzed.

The 1991 work program covered by this report located alteration and minor mineralization at several sites. Results, however, failed to match the two previous programs and did not add significantly to previous data. Regardless, there are several findings worthy of note:

Rock samples (float) from the vicinity of W200 N350 and W100 N325 were of an altered granodiorite, very crumbly, with the characteristics of the upper portions of a shear zone. Minor anomalies in silver, lead, arsenic and gold were revealed in analysis of samples R-212, R-213, and R-217.

An east-west trending quartz vein up to 2 feet wide with an adjacent diorite dyke 8 feet in width was located at E200 N825. The quartz was fractured and stained. Analysis of rock samples R-218, R-219, R220 and R221 (diorite) indicated only minor anomalous gold and arsenic.

Descriptions of rock samples are contained in Appendix II. Certificates of analysis for rock samples are contained in Appendix I.

Locations of Rock samples are shown in Figure 4.

4 . 0 GEOCHEMISTRY

4.1 SOIL SAMPLING

A total of 209 soil samples were analyzed by recognized analytical laboratories. All samples tested for Au + an ICP.

Anomalous values were established using previous work program results from the Chopaka claims and other assessment reports from the surrounding area.

ELEMENT	ANOMALOUS
AU	≥ 15 ppb
AG	$\geq .7$ ppm
AS	≥ 17 ppm
CO	≥ 14 ppm
CU	≥ 80 ppm
PB	≥ 15 ppm
ZN	≥ 147 ppm
MN	≥ 1420 ppm

GOLD:

There were seven samples that returned values equal to or greater than 15 ppb:

SAMPLE NO.	LOCATION	Au ppb	Ag ppm	As ppm	Co ppm	Cu ppm	Pb ppm	Zn ppm	Mn ppm
6	125N 000BL	30	.1	10	12	28	3	70	673
53	350N 240E	24	.2	8	12	37	3	45	490
93	075N 100W	18	.1	13	15	44	3	72	611
120	375N 200W	15	.4	9	4	8	<2	54	427
137	850N 100W	20	.2	9	14	42	3	67	675
167	850N 100E	18	.3	14	9	19	2	98	478
207	G 4	20	.2	9	11	23	4	44	418

SILVER:

Only one sample was anomalous, ie., $\geq .7$ ppm.

SAMPLE NO.	LOCATION	Au ppb	Ag ppm	As ppm	Co ppm	Cu ppm	Pb ppm	Zn ppm	Mn ppm
121	350N 200W	<5	.7	13	9	19	11	54	1146

ARSENIC:

Eighteen samples returned anomalous values, ie. \geq 17 ppm.

SAMPLE NO.	LOCATION	Au ppb	Ag ppm	As ppm	Co ppm	Cu ppm	Pb ppm	Zn ppm	Mn ppm
43	200N 200E	<5	.1	20	13	30	2	98	907
46	250N 175E	<5	.3	17	12	21	4	130	1262
47	250N 150E	<5	.2	17	12	22	2	94	974
48	250N 125E	<5	.2	19	13	29	2	115	1194
54	275N 100E	<5	.1	17	13	23	3	95	947
157	650N 000BL	<5	.2	17	7	15	5	97	1200
158	625N 000BL	<5	.3	17	7	25	<2	71	669
160	575N 000BL	<5	.2	17	11	30	2	66	647
162	525N 000BL	<5	.2	20	10	22	<2	79	746
163	500N 000BL	<5	.2	26	8	19	<2	96	836
165	800N 100E	<5	.2	19	12	26	3	111	1097
166	825N 100E	<5	.3	19	11	29	2	84	840
169	900N 100E	<5	.2	21	11	34	<2	134	1325
170	925N 100E	<5	.3	20	10	22	<2	124	1316
171	950N 100E	7	.4	25	6	12	<2	81	542
172	975N 100E	<5	.3	17	10	18	2	120	1418
198	1125N 200E	<5	.3	17	12	31	2	61	680
201	1200N 200E	<5	.1	18	11	20	<2	69	778

COBALT:

Eighteen samples returned anomalous values, ie. \geq 14 ppm.

SAMPLE NO	LOCATION	Au ppb	Ag ppm	As ppm	Co ppm	Cu ppm	Pb ppm	Zn ppm	Mn ppm
56	325N 100E	5	.3	11	14	42	5	69	712
70	675N 100E	<5	.3	13	14	38	3	75	783
72	725N 100E	<5	.3	10	14	29	3	73	881
74	375N 200E	<5	.3	7	14	32	4	69	745
75	400N 200E	<5	.3	11	14	32	2	68	741
76	425N 200E	<5	.3	10	14	35	2	70	703
77	450N 200E	<5	.3	9	14	35	4	61	642
87	700N 200E	<5	.2	11	14	40	<2	71	673
93	075N 100W	18	.1	13	15	44	3	72	611
94	100N 100W	<5	.2	12	14	33	<2	79	872
100	050N 200W	7	.2	13	14	29	<2	84	909
106	500N 100W	<5	.3	9	14	39	4	69	673
128	625N 100W	<5	.2	12	14	37	4	71	761
130	675N 100W	<5	.2	11	15	37	5	75	768
136	825N 100W	7	.2	10	14	40	2	64	702
137	850N 100W	20	.2	9	14	42	3	67	675
161	550N 000BL	<5	.3	13	14	36	<2	76	688
192	975N 200E	<5	.3	10	14	42	3	68	672

COPPER:

None of the samples returned anomalous values, ie, ≥ 80 ppm.

LEAD:

None of the samples returned anomalous values, ie., ≥ 15 ppm.

ZINC:

One sample returned an anomalous value, ie. ≥ 147 ppm.

SAMPLE NO.	LOCATION	Au ppb	Ag ppm	As ppm	Co ppm	Cu ppm	Pb ppm	Zn ppm	Mn ppm
40	125N 200E	<5	.2	6	11	11	<2	158	860

MANGANESE:

Two samples returned anomalous values, ie. ≥ 1420 ppm.

SAMPLE NO.	LOCATION	Au ppm	Ag ppm	As ppm	Co ppm	Cu ppm	Pb ppm	Zn ppm	Mn ppm
153	775N 000BL	<5	.2	8	9	17	3	134	1817
173	1000N 100E	<5	.2	15	9	17	3	135	1779

DISCUSSION:

The soil survey did not result in identifying significant anomalies. Arsenic appears to be the only element with any notable frequency or clustering of anomalies. Also, there is very little correlation with other pathfinder elements. Very low backgrounds were encountered for silver, lead and copper.

4.2 ROCK SAMPLING:

A total of 23 rock samples were taken for analysis, and analyzed for Au and a 30 element ICP.

Minor anomalous values were encountered in some of the samples:

Sample R-201 contained 1000 ppm nickel and 14.97% magnesium, however, it was found as float at lower elevations and its source is unknown.

Samples R-212, R-213, and R-217 are from a shear zone and contain elevated values in silver, lead, arsenic and very weak gold.

DISCUSSION:

Analysis of rock samples did not reveal any significant anomalies with the exception of R-201.

Comments regarding rock samples have been discussed in section 3.0, Geology and Mineralization, of this report.

Certificates of laboratory analysis for both rock and soil are contained in Appendix I.

Locations and descriptions of rock samples are shown in Appendix II.

Figure 4 shows the locations of rock samples. Also, Au and Ag values in soils are shown on Figure 4 along with anomalous values in arsenic, zinc and manganese.

5 . 0 CONCLUSIONS AND RECOMMENDATIONS

The Chopaka Claim Group is located in an area that has the potential for discoveries of economically viable ore deposits. The close proximity of past producing deposits such as the Dankoe Mine and the Nighthawk-Chopaka camp are favourable indications of this potential. Although the Chopaka claims have likely been prospected on several occasions in the past, the presence of extensive overburden would have hampered basic prospecting. Modern geochemical and geophysical methods provide a greater opportunity for discoveries in this environment.

The 1991 work program on the Chopaka claims (Chopaka 13, 14, and 15) did not result in locating significant indications of mineralization:

- 1) there appears to be a east-west shear zone in the southern portion of the claims which contains minor anomalous silver, lead, arsenic and gold,
- 2) the 2 foot-wide quartz vein that was located yielded insignificant results,
- 3) the soil survey undertaken on the higher elevations of claims did not result in identifying significant anomalies or clustering of anomalies.

Recommendations are as follows:

- magnetometer and VLF-EM surveys should be conducted over the higher elevations particularly over the shear zone and quartz vein mentioned above in order to obtain data that may extend these zones. The geophysical surveys conducted by Weymark in 1985 did not include these higher elevations.

- a soil sampling survey should take place at the location of R-201 with analysis to include nickel and magnesium. The soil survey undertaken in the Weymark program tested for copper, silver and molybdenum only.

- further prospecting should take place on areas not covered by this program

6 . 0 REFERENCES

- Cann, R.M. and Crowe, G.G., (1990): Geological, Geochemical, Geophysical Report on the Mak Siccar Property, Osoyoos Mining Division, for Mount Kobau Mining Ltd.
- Crooker, G.F., (1986): Geochemical Report on the MO 1 to MO 6 Claims, Osoyoos Mining Division, B.C. for Ascent Res. Ltd.
- Culbert, D., (1989): Geochemical and Prospecting Report on the Krug 1 to Krug 3 Claims, Osoyoos Mining Division, B.C. for Equinox Resources Ltd.
- Gibson, N.W., (1989): Report on the Geological Exploration of the Rich 1 - 13 Mineral Claims, Osoyoos Mining Division, for Minova Inc.
- Harris, M.J., (1990): Prospecting, Geochemical and Geophysical Report on the Chopaka Claim Group
- Harris, M.J., (1991): Prospecting and Geochemical Report on the Chopaka Claim Group (Chopaka 4-12)
- Larabie, E.N., (1987): Horn Silver and Utica Claims Assessment Report, Osoyoos Mining Division, B.C. for Dankoe Mines Ltd.
- Larabie, E.N., (1989): Horn Silver and Utica Claims Assessment Report, Geochemical Survey, Osoyoos Mining Division, B.C. for Dankoe Mines Ltd.
- Lewis, P., Mader, U. and Russell, J.K. (1989): Geology of the Kobau Group between Oliver and Cawston, British Columbia, B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1989-2.
- Meyers, R.E. and Taylor, W.A., (1989): Metallogenic Studies of Lode Gold-silver Occurrences in South-central British Columbia, a Progress Report, B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1989-2
- Okulitch, A.V., (1969): Geology of Mount Kobau, Unpublished Ph.D. Thesis, The University of British Columbia, 141 pages.
- Rinehart, C.D. and Fox Jr., K.F., (1972): Geology and Mineral Deposits of the Loomis Quadrangle, Okanogan County, Washington, State of Washington, Department of Natural Resources, Bulletin No. 64.
- Weymark, W.J., (1985): Geophysical - Geochemical Surveys, Border Mineral Claims Group, Osoyoos Mining Division, for Ascent Resources Ltd.



Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

THIS IS TO CERTIFY THAT

MIKE HARRIS

HAS SUCCESSFULLY COMPLETED

ADVANCED PROSPECTING COURSE - 1989

AND IS HEREBY GRANTED
THIS CERTIFICATE OF ACHIEVEMENT

V.A. Potts
DIRECTOR OF
PROSPECTORS' ASSISTANCE

J.W.P.
COURSE INSTRUCTOR
MAY 11, 1989

DATE



Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources

THIS IS TO CERTIFY THAT

MIKE HARRIS

HAS SUCCESSFULLY COMPLETED
PETROLOGY FOR PROSPECTORS COURSE

AND IS HEREBY GRANTED
THIS CERTIFICATE OF ACHIEVEMENT

V.A. Peto
DIRECTOR OF
PROSPECTORS' ASSISTANCE

J.A. Richards
COURSE INSTRUCTOR

April 5-12, 1992, Nelson, B.C.

DATE

APPENDIX I

CERTIFICATES OF ANALYSIS



GEOCHEMICAL ANALYSIS CERTIFICATE



Michael J. Harris File # 91-1550
2710 Cactus Court, North Vancouver BC V7H 1R8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
R-200	3	239	12	52	.3	8	5	974	2.16	26	5	ND	6	83	.2	2	2	31	2.36	.091	16	15	.58	38	.07	5	.91	.04	.26	1	3
R-201	1	30	4	18	.1	1000	48	853	3.58	31	5	ND	1	73	.2	11	2	4	.68	.004	2	288	14.97	20	.01	2	.09	.01	.01	1	3
R-202	2	105	10	46	.5	33	6	361	4.30	4	5	ND	1	62	.2	2	2	71	1.14	.202	2	21	1.18	141	.26	7	1.36	.08	.26	1	4
R-203	3	29	15	58	.2	12	5	190	1.77	5	5	ND	4	558	.2	2	2	34	.43	.037	9	3	.34	547	.02	2	1.16	.03	.47	1	2
R-204	2	27	17	77	.1	8	10	797	3.54	2	5	ND	15	552	.2	2	2	50	1.96	.164	135	13	.81	196	.18	2	1.15	.07	.12	1	3
R-205	4	123	7	28	.2	74	11	217	1.72	2	5	ND	1	278	.3	2	2	22	2.45	.036	4	35	.20	199	.05	2	2.73	.08	.11	1	1
R-206	1	111	2	81	.4	45	38	752	5.03	5	5	ND	1	36	.2	7	2	83	2.43	.047	2	82	2.37	52	.38	7	2.56	.01	.11	1	4
R-207	1	34	7	11	.1	6	2	103	1.86	3	5	ND	13	29	.2	2	2	10	.09	.029	137	4	.07	38	.02	2	.17	.06	.07	1	1
R-208	2	32	19	107	.4	49	16	603	4.18	2	5	ND	12	94	.2	6	2	85	1.23	.156	66	56	1.42	89	.34	2	1.58	.04	.11	1	3
R-209	1	38	4	80	.4	57	21	1324	5.88	9	5	ND	1	179	.2	10	2	122	4.32	.090	6	100	2.79	178	.23	2	2.28	.03	1.53	1	5
R-210	1	21	11	40	.1	6	3	385	.64	2	5	ND	1	134	.2	2	3	20	1.16	.064	23	15	.17	41	.01	5	.39	.05	.07	1	1
R-211	1	20	9	52	.3	4	5	824	2.11	5	5	ND	6	59	.2	2	3	21	2.28	.064	12	10	.37	20	.01	3	.80	.02	.21	1	1
R-212	3	13	19	29	1.0	7	6	971	2.12	37	5	ND	4	123	.2	2	2	3	2.52	.051	9	11	.09	21	.01	3	.43	.01	.25	1	7
R-213	1	4	8	24	1.0	4	4	650	1.62	34	5	ND	4	218	.2	2	2	13	2.81	.047	15	5	.17	15	.01	3	1.89	.01	.21	1	3
R-214	1	8	4	31	.3	2	4	642	1.05	2	5	ND	5	77	.2	2	2	6	2.76	.071	11	3	.12	47	.01	6	.48	.02	.20	1	2
R-129-89	3	5	5	35	1.6	2	6	875	1.59	2	5	ND	11	40	.3	2	2	6	1.77	.075	14	6	.25	59	.01	2	.56	.02	.22	1	310
STANDARD C/AU-R	18	58	39	134	6.8	69	32	1049	3.88	38	21	6	39	52	18.4	15	18	55	.46	.089	39	57	.87	172	.09	34	1.84	.06	.15	13	460

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUN 3 1991

DATE REPORT MAILED: June 5/91.

SIGNED BY: *Chung* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Sample Name	Type	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	W ppm	Ba ppm
R - 215	Rock	15	0.2	22	<2	124	20	<5	<3	3	<10	<2	<0.1	40	33	<5	34
R - 216	Rock	20	0.1	26	3	21	10	<5	<3	5	<10	<2	0.1	4	19	<5	132
R - 217	Rock	25	2.3	25	37	119	20	<5	<3	1	<10	<2	7.2	3	3	<5	25
R - 218	Rock	20	0.3	71	5	21	7	<5	<3	2	<10	3	0.1	5	7	<5	103
R - 219	Rock	10	0.2	34	4	6	16	<5	<3	3	<10	5	0.1	5	4	<5	42
R - 220	Rock	5	0.1	41	<2	27	10	<5	<3	4	<10	<2	0.2	8	5	7	109
R - 221	Rock	5	<0.1	11	<2	69	5	<5	<3	3	<10	<2	0.1	7	5	<5	137
R - 222	Rock	5	0.2	41	<2	82	<5	<5	<3	3	<10	<2	0.1	38	39	<5	67

Minimum Detection	5	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	5	2
Maximum Detection	10000	100.0	20000	20000	20000	10000	1000	10000	1000	10000	10000	10000.0	10000	10000	1000	10000
Method	FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed ReC = ReCheck in progress ins = Insufficient Sample



2036 Columbia Street
 Vancouver, B.C.
 Canada V5Y 3E1
 Phone: (604) 879-7878
 Fax: (604) 879-7898

Report: 9100464 R Harris, Michael J.

Project: None Given

Page 1 of 1

Section 2 of 2

Sample Name	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
R - 215	65	99	539	10	29	20	3	0.86	1.91	2.44	>5.00	1.23	0.03	0.07	0.11
R - 216	227	11	104	4	4	1	1	0.03	0.47	0.03	1.10	0.34	0.23	0.02	0.01
R - 217	126	12	714	19	34	<1	1	<0.01	0.87	2.19	1.44	0.23	0.39	0.01	0.08
R - 218	154	17	299	4	10	2	1	0.02	0.73	0.16	2.06	0.28	0.32	0.04	0.06
R - 219	228	14	147	2	6	1	<1	<0.01	0.29	0.06	1.69	0.08	0.14	0.02	0.02
R - 220	120	25	474	5	19	3	1	0.04	1.00	0.38	3.07	0.43	0.46	0.04	0.07
R - 221	100	44	682	7	50	5	1	0.12	1.48	0.74	2.38	0.80	0.72	0.08	0.08
R - 222	111	156	1286	<2	101	1	23	0.01	2.53	5.56	>5.00	2.92	0.08	0.03	0.05

Minimum Detection	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	10000	1.00	5.00	10.00	5.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed ReC = ReCheck in progress ins = Insufficient Sample



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 Vancouver, B.C.
 Canada V5Y 3E1
 Phone (604) 879-7878
 Fax (604) 879-7898

Sample Name	Type	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	W ppm	Ba ppm	
S- 1 0000N 0000BL Soil		14	0.2	27	3	61	8	<5	<3	1	<10	<2	0.1	13	20	<5	104
S- 2 0025N 0000BL Soil		<5	0.1	27	4	74	12	<5	<3	1	<10	<2	0.2	13	19	<5	143
S- 3 0050N 0000BL Soil		5	<0.1	30	3	70	8	<5	<3	1	<10	<2	0.2	12	17	<5	111
S- 4 0075N 0000BL Soil		<5	<0.1	24	2	84	8	<5	<3	1	<10	<2	0.1	12	15	<5	143
S- 5 0100N 0000BL Soil		<5	0.1	32	2	73	10	<5	<3	1	<10	<2	0.2	13	18	<5	117
S- 6 0125N 0000BL Soil		30	0.1	28	3	70	10	<5	<3	2	<10	2	0.3	12	17	<5	126
S- 7 0150N 0000BL Soil		11	<0.1	25	2	74	11	<5	<3	1	<10	<2	0.1	12	18	<5	110
S- 8 0175N 0000BL Soil		<5	<0.1	26	<2	70	9	<5	<3	1	<10	<2	0.2	12	18	<5	132
S- 9 0200N 0000BL Soil		<5	0.2	21	2	89	12	<5	<3	1	<10	<2	0.2	11	15	<5	94
S- 10 0225N 0000BL Soil		<5	0.2	22	4	74	11	<5	<3	1	<10	<2	0.3	10	13	<5	95
S- 11 0250N 0000BL Soil		<5	0.3	26	4	77	11	<5	<3	1	<10	<2	0.2	12	16	<5	111
S- 12 0275N 0000BL Soil		<5	0.2	24	2	72	11	<5	<3	2	<10	<2	0.3	12	17	<5	103
S- 13 0300N 0000BL Soil		<5	0.3	24	13	89	10	<5	<3	1	<10	<2	0.2	11	15	<5	132
S- 14 0325N 0000BL Soil		<5	0.2	29	7	67	11	<5	<3	1	<10	<2	0.2	12	17	<5	105
S- 15 0350N 0000BL Soil		<5	0.2	29	<2	70	9	<5	<3	2	<10	<2	0.2	12	17	<5	103
S- 16 0375N 0000BL Soil		<5	<0.1	26	2	76	10	<5	<3	1	<10	<2	0.3	12	17	<5	119
S- 17 0400N 0000BL Soil		<5	<0.1	32	2	68	10	<5	<3	1	<10	<2	0.2	12	18	<5	110
S- 18 0425N 0000BL Soil		<5	0.2	41	3	61	11	<5	<3	2	<10	<2	0.4	13	22	<5	85
S- 19 0460N 0000BL Soil		<5	<0.1	24	<2	85	9	<5	<3	2	<10	<2	0.2	12	17	<5	138
S- 20 0475N 0000BL Soil		<5	<0.1	19	5	105	10	<5	<3	2	<10	<2	0.4	11	15	<5	149
S- 21 0250N 0025E Soil		<5	0.1	25	6	101	15	<5	<3	2	<10	<2	0.4	13	16	<5	141
S- 22 0250N 0050E Soil		<5	0.1	29	4	67	9	<5	<3	1	<10	<2	0.3	13	18	<5	148
S- 23 0250N 0075E Soil		<5	0.2	25	5	81	11	<5	<3	1	<10	<2	0.3	12	17	<5	151
S- 24 0250N 0100E Soil		<5	0.1	25	3	71	6	<5	<3	2	<10	<2	0.2	12	16	<5	136
S- 25 0225N 0100E Soil		<5	<0.1	32	<2	107	11	<5	<3	2	<10	<2	0.1	12	16	<5	165
S- 26 0200N 0100E Soil		<5	<0.1	34	5	75	8	<5	<3	1	<10	<2	0.4	13	20	<5	142
S- 27 0175N 0100E Soil		<5	<0.1	15	5	109	10	<5	<3	2	<10	<2	0.1	11	13	<5	149
S- 28 0150N 0100E Soil		<5	<0.1	10	<2	105	7	<5	<3	1	<10	2	0.1	9	7	<5	62
S- 29 0125N 0100E Soil		<5	0.1	11	<2	109	8	<5	<3	1	<10	<2	<0.1	9	7	<5	50
S- 30 0100N 0100E Soil		<5	0.1	17	4	109	9	<5	<3	1	<10	<2	0.2	11	11	<5	64
S- 31 0075N 0100E Soil		<5	0.1	13	4	102	6	<5	<3	1	<10	<2	0.2	10	12	<5	162
S- 32 0050N 0100E Soil		<5	0.1	14	4	113	6	<5	<3	2	<10	<2	0.1	11	12	<5	103
S- 33 0025N 0100E Soil		5	<0.1	29	4	67	7	<5	<3	2	<10	<2	0.2	13	18	<5	120
S- 34 0000N 0100E Soil		<5	0.1	26	3	65	10	<5	<3	2	<10	<2	0.2	13	18	<5	105
S- 35 0000N 0200E Soil		<5	0.1	15	4	109	8	<5	<3	1	<10	<2	0.2	10	11	<5	162
S- 36 0025N 0200E Soil		<5	<0.1	23	4	64	7	<5	<3	2	<10	<2	0.3	12	18	<5	89
S- 37 0050N 0200E Soil		11	0.1	26	<2	77	9	<5	<3	1	<10	<2	0.4	13	19	<5	90
S- 38 0075N 0200E Soil		<5	0.2	13	<2	126	9	<5	<3	1	<10	<2	0.2	10	8	<5	64
S- 39 0100N 0200E Soil		<5	0.2	12	3	134	9	<5	<3	1	<10	<2	0.1	10	9	<5	93
Minimum Detection		5	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	5	2
Maximum Detection		10000	100.0	20000	20000	20000	10000	1000	10000	1000	10000	10000.0	10000	10000	1000	10000	10000
Method		GeoSp	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
-- = Not Analysed																	
ReC = ReCheck in progress																	
ins = Insufficient Sample																	



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 Vancouver, B.C.
 Canada V5Y 3E1
 Phone (604) 879-7878
 Fax (604) 879-7898

Sample Name	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
S- 1 0000N 0000BL	27	75	648	13	55	4	4	0.09	1.63	0.56	3.10	0.57	0.30	0.02	0.09
S- 2 0025N 0000BL	27	69	724	12	62	5	4	0.09	1.89	0.57	3.02	0.59	0.29	0.02	0.07
S- 3 0050N 0000BL	25	71	629	12	56	4	4	0.08	1.48	0.62	3.02	0.53	0.34	0.02	0.09
S- 4 0075N 0000BL	22	61	768	11	72	6	4	0.09	2.04	0.63	2.83	0.58	0.35	0.02	0.08
S- 5 0100N 0000BL	27	77	680	13	81	4	4	0.10	1.91	0.75	3.19	0.65	0.30	0.02	0.10
S- 6 0125N 0000BL	24	69	673	11	78	3	4	0.08	1.68	0.73	2.91	0.59	0.30	0.02	0.10
S- 7 0150N 0000BL	24	70	736	14	92	3	3	0.09	2.03	0.81	2.94	0.60	0.31	0.03	0.10
S- 8 0175N 0000BL	24	67	684	11	97	5	4	0.10	2.14	0.81	2.92	0.62	0.30	0.03	0.08
S- 9 0200N 0000BL	20	69	818	14	130	3	3	0.09	2.47	1.01	3.07	0.69	0.40	0.02	0.12
S- 10 0225N 0000BL	18	61	724	12	139	3	3	0.07	2.24	1.05	2.73	0.62	0.36	0.02	0.10
S- 11 0250N 0000BL	22	66	753	14	130	4	3	0.09	2.34	1.05	2.95	0.65	0.37	0.02	0.09
S- 12 0275N 0000BL	23	69	742	14	116	4	4	0.09	2.31	0.92	3.04	0.67	0.37	0.02	0.07
S- 13 0300N 0000BL	20	62	882	14	118	4	3	0.09	2.43	0.91	2.83	0.64	0.40	0.02	0.10
S- 14 0325N 0000BL	24	71	655	14	104	5	4	0.09	2.01	0.86	2.99	0.63	0.33	0.02	0.09
S- 15 0350N 0000BL	22	71	657	13	129	3	3	0.09	2.12	1.07	2.98	0.64	0.36	0.03	0.12
S- 16 0375N 0000BL	22	69	771	13	114	5	4	0.10	2.17	0.93	3.01	0.65	0.36	0.03	0.09
S- 17 0400N 0000BL	26	73	620	12	89	5	4	0.10	2.01	0.79	3.09	0.61	0.30	0.03	0.08
S- 18 0425N 0000BL	28	86	556	15	65	3	4	0.09	1.40	0.77	3.36	0.60	0.31	0.03	0.12
S- 19 0460N 0000BL	24	64	881	12	64	4	4	0.09	1.78	0.62	2.92	0.57	0.39	0.03	0.07
S- 20 0475N 0000BL	22	60	1051	12	60	6	3	0.09	1.77	0.56	2.76	0.52	0.35	0.03	0.06
S- 21 0250N 0025E	25	73	935	13	106	5	4	0.10	2.50	0.84	3.26	0.69	0.45	0.03	0.11
S- 22 0250N 0050E	26	67	705	13	64	6	4	0.09	1.82	0.61	2.94	0.55	0.31	0.03	0.08
S- 23 0250N 0075E	23	67	799	13	74	6	4	0.09	2.02	0.67	2.93	0.61	0.35	0.03	0.08
S- 24 0250N 0100E	24	67	755	12	71	4	4	0.09	1.91	0.62	2.92	0.60	0.29	0.03	0.07
S- 25 0225N 0100E	21	63	895	13	96	6	4	0.11	2.60	0.76	2.94	0.68	0.38	0.03	0.08
S- 26 0200N 0100E	28	71	706	13	65	6	4	0.10	1.78	0.66	3.15	0.64	0.34	0.03	0.08
S- 27 0175N 0100E	16	60	1121	14	82	8	3	0.12	2.58	0.66	2.94	0.76	0.49	0.02	0.07
S- 28 0150N 0100E	9	54	1011	15	162	3	2	0.07	2.57	1.17	2.73	0.74	0.44	0.02	0.11
S- 29 0125N 0100E	9	59	875	15	149	3	2	0.10	2.61	1.15	3.09	0.79	0.46	0.02	0.12
S- 30 0100N 0100E	16	71	879	15	100	4	3	0.10	2.17	0.86	3.40	0.86	0.51	0.02	0.13
S- 31 0075N 0100E	15	49	1124	11	63	5	3	0.09	2.05	0.53	2.52	0.57	0.33	0.02	0.05
S- 32 0050N 0100E	16	60	1002	12	88	2	3	0.10	2.21	0.75	2.88	0.73	0.36	0.02	0.09
S- 33 0025N 0100E	27	71	674	12	48	5	4	0.09	1.59	0.52	3.07	0.53	0.31	0.02	0.08
S- 34 0000N 0100E	29	75	635	13	48	5	4	0.10	1.71	0.46	3.11	0.56	0.27	0.02	0.07
S- 35 0000N 0200E	15	50	1001	12	59	10	3	0.10	2.08	0.52	2.54	0.57	0.41	0.03	0.06
S- 36 0025N 0200E	27	76	624	14	48	7	3	0.09	1.40	0.48	3.16	0.55	0.35	0.02	0.07
S- 37 0050N 0200E	28	88	720	16	56	6	3	0.10	1.76	0.59	3.73	0.68	0.41	0.02	0.10
S- 38 0075N 0200E	10	59	966	15	122	1	2	0.09	2.15	1.09	3.08	0.89	0.32	0.02	0.23
S- 39 0100N 0200E	12	59	1163	11	100	1	2	0.09	2.05	0.92	3.02	0.82	0.35	0.02	0.15

Minimum Detection:	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection:	10000	10000	10000	10000	10000	10000	10000	1.00	5.00	10.00	5.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analyzed ReC = ReCheck in progress ins = Insufficient Sample



2036 Columbia Street
 Vancouver, B.C.
 Canada V5Y 3E1
 Phone (604) 879-7878
 Fax (604) 879-7898

Sample Name	Type	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mn ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	W ppm	Ba ppm
S- 40 0125N 0200E Soil	<5	0.2	11	<2	158	6	<5	<3	1	<10	<2	0.1	11	10	<5	104	
S- 41 0150N 0200E Soil	<5	0.2	17	3	129	10	<5	<3	1	<10	<2	0.2	10	12	<5	120	
S- 42 0175N 0200E Soil	<5	0.1	25	2	71	10	<5	<3	1	<10	<2	0.2	11	16	<5	120	
S- 43 0200N 0200E Soil	<5	0.1	30	2	98	20	7	3	1	<10	<2	0.6	13	20	<5	159	
S- 44 0225N 0200E Soil	<5	<0.1	30	3	81	14	<5	<3	1	<10	<2	0.5	13	19	<5	160	
S- 45 0250N 0200E Soil	<5	0.1	32	<2	90	16	6	<3	2	<10	<2	0.5	13	20	<5	181	
S- 46 0250N 0175E Soil	<5	0.3	21	4	130	17	<5	<3	1	<10	<2	0.3	12	15	<5	155	
S- 47 0250N 0150E Soil	<5	0.2	22	2	94	17	5	<3	1	<10	<2	0.3	12	16	<5	145	
S- 48 0250N 0125E Soil	<5	0.2	29	2	115	19	6	<3	1	<10	<2	0.5	13	17	<5	187	
S- 49 0275N 0200E Soil	<5	0.1	31	2	83	13	<5	<3	2	<10	<2	0.5	13	18	<5	126	
S- 50 0300N 0200E Soil	<5	0.1	36	2	44	9	<5	<3	1	<10	<2	0.4	12	18	<5	81	
S- 51 0325N 0200E Soil	<5	0.2	27	<2	70	14	5	<3	2	<10	<2	0.3	12	19	<5	129	
S- 52 0350N 0200E Soil	<5	0.2	35	3	63	13	<5	<3	1	<10	<2	0.2	13	20	<5	147	
S- 53 0350N 0240E Soil	24	0.2	37	3	45	8	<5	<3	1	<10	<2	0.3	12	19	<5	77	
S- 54 0275N 0100E Soil	<5	0.1	23	3	95	17	<5	<3	2	<10	<2	0.3	13	17	<5	157	
S- 55 0300N 0100E Soil	<5	0.1	23	3	95	13	<5	<3	2	<10	<2	0.1	12	16	<5	161	
S- 56 0325N 0100E Soil	5	0.3	42	5	69	11	<5	<3	2	<10	<2	0.5	14	22	<5	141	
S- 57 0350N 0100E Soil	<5	0.1	25	4	79	10	<5	<3	2	<10	<2	0.3	12	17	<5	177	
S- 58 0375N 0100E Soil	<5	0.1	34	3	67	9	<5	<3	1	<10	<2	0.2	13	19	<5	123	
S- 59 0400N 0100E Soil	<5	0.1	31	2	75	15	<5	<3	1	<10	<2	0.3	13	20	<5	130	
S- 60 0425N 0100E Soil	5	0.4	29	3	65	10	<5	<3	2	<10	<2	0.4	13	18	<5	122	
S- 61 0450N 0100E Soil	<5	0.3	25	2	80	9	<5	<3	1	<10	<2	0.3	13	18	<5	152	
S- 62 0475N 0100E Soil	5	0.2	31	3	65	10	<5	<3	1	<10	<2	0.3	13	19	<5	139	
S- 63 0500N 0100E Soil	<5	0.2	36	3	56	7	<5	<3	2	<10	<2	0.3	13	21	<5	132	
S- 64 0525N 0100E Soil	<5	0.2	30	3	61	9	<5	<3	1	<10	<2	0.3	13	19	<5	152	
S- 65 0550N 0100E Soil	<5	0.3	29	2	64	10	<5	<3	1	<10	<2	0.4	12	18	<5	167	
S- 66 0575N 0100E Soil	<5	0.2	24	4	92	9	<5	<3	2	<10	<2	0.4	12	17	<5	136	
S- 67 0600N 0100E Soil	6	0.2	21	<2	119	9	<5	<3	1	<10	<2	0.4	12	12	<5	114	
S- 68 0625N 0100E Soil	<5	0.2	24	<2	92	8	<5	<3	1	<10	<2	0.1	9	10	<5	70	
S- 69 0650N 0100E Soil	<5	0.3	24	<2	86	11	<5	<3	2	<10	<2	0.3	12	17	<5	124	
S- 70 0675N 0100E Soil	<5	0.3	38	3	75	13	<5	<3	1	<10	<2	0.4	14	21	<5	153	
S- 71 0700N 0100E Soil	<5	0.2	29	3	62	8	<5	<3	1	<10	<2	0.3	13	18	<5	160	
S- 72 0725N 0100E Soil	<5	0.3	29	3	73	10	<5	<3	2	<10	<2	0.4	14	18	<5	152	
S- 73 0750N 0100E Soil	<5	0.2	26	3	95	7	<5	<3	1	<10	<2	0.3	13	17	<5	195	
S- 74 0375N 0200E Soil	<5	0.3	32	4	69	11	<5	<3	2	<10	<2	0.5	14	19	<5	170	
S- 75 0400N 0200E Soil	<5	0.3	32	2	68	11	<5	<3	1	<10	<2	0.4	14	20	<5	172	
S- 76 0425N 0200E Soil	<5	0.3	35	2	70	10	<5	<3	1	<10	<2	0.5	14	20	<5	136	
S- 77 0450N 0200E Soil	<5	0.3	35	4	61	9	<5	<3	2	<10	<2	0.4	14	21	<5	153	
S- 78 0475N 0200E Soil	<5	0.3	31	2	53	10	<5	<3	1	<10	<2	0.5	13	20	<5	114	

Minimum Detection: 5 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 5 2
 Maximum Detection: 10000 100.0 20000 20000 20000 10000 1000 10000 1000 1000 10000 10000.0 10000 10000 1000 10000
 Method: GeoSp ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP
 -- = Not Analysed ReC = ReCheck in progress Ins = Insufficient Sample



INTERNATIONAL PLASMA LABORATORY LTD

2036 Columbia Street
 Vancouver, B.C.
 Canada V5Y 3E1
 Phone (604) 879-7878
 Fax (604) 879-7898

Sample Name	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
S- 40 0125N 0200E	13	60	860	14	92	2	2	0.11	2.34	0.73	3.18	0.91	0.38	0.02	0.26
S- 41 0150N 0200E	17	61	803	13	52	5	3	0.11	2.05	0.50	3.07	0.74	0.48	0.02	0.06
S- 42 0175N 0200E	23	64	724	13	55	6	4	0.09	1.62	0.53	2.93	0.59	0.36	0.02	0.06
S- 43 0200N 0200E	27	76	907	15	69	11	4	0.12	2.42	0.69	3.46	0.64	0.41	0.03	0.09
S- 44 0225N 0200E	27	72	874	14	72	8	4	0.11	2.25	0.66	3.30	0.67	0.42	0.03	0.08
S- 45 0250N 0200E	27	68	948	13	71	9	5	0.11	2.25	0.65	3.26	0.66	0.39	0.03	0.09
S- 46 0250N 0175E	19	63	1262	17	118	7	3	0.11	2.85	0.90	3.06	0.74	0.45	0.03	0.10
S- 47 0250N 0150E	22	66	974	15	128	10	4	0.11	2.72	0.94	3.02	0.66	0.41	0.03	0.08
S- 48 0250N 0125E	23	68	1194	15	136	7	4	0.10	2.86	1.09	3.18	0.73	0.43	0.03	0.12
S- 49 0275N 0200E	24	72	823	14	98	5	4	0.10	2.18	0.84	3.23	0.70	0.40	0.03	0.11
S- 50 0300N 0200E	25	82	524	15	46	4	3	0.08	1.13	0.59	3.30	0.47	0.30	0.03	0.11
S- 51 0325N 0200E	26	78	677	16	98	6	4	0.10	2.37	0.78	3.30	0.62	0.36	0.03	0.10
S- 52 0350N 0200E	27	71	676	12	63	7	4	0.09	1.87	0.62	3.07	0.67	0.30	0.03	0.08
S- 53 0350N 0240E	25	78	490	14	54	4	3	0.08	1.12	0.62	3.08	0.52	0.29	0.03	0.12
S- 54 0275N 0100E	24	69	947	14	95	9	4	0.11	2.50	0.76	3.16	0.67	0.41	0.02	0.10
S- 55 0300N 0100E	19	61	797	14	111	12	4	0.12	2.81	0.85	2.96	0.71	0.42	0.03	0.10
S- 56 0325N 0100E	29	76	712	13	72	6	4	0.09	1.94	0.73	3.25	0.74	0.33	0.03	0.11
S- 57 0350N 0100E	23	61	882	12	85	8	4	0.10	2.20	0.71	2.81	0.60	0.37	0.03	0.07
S- 58 0375N 0100E	27	69	644	12	63	4	4	0.07	1.49	0.70	3.01	0.60	0.35	0.02	0.11
S- 59 0400N 0100E	29	76	718	14	83	5	4	0.09	1.95	0.74	3.21	0.58	0.35	0.03	0.10
S- 60 0425N 0100E	27	78	734	14	58	5	3	0.08	1.51	0.61	3.23	0.54	0.35	0.02	0.10
S- 61 0450N 0100E	24	69	814	14	79	8	4	0.10	1.99	0.71	3.01	0.57	0.35	0.03	0.08
S- 62 0475N 0100E	25	67	687	12	60	6	4	0.09	1.69	0.63	2.92	0.56	0.33	0.03	0.09
S- 63 0500N 0100E	26	70	618	13	56	5	4	0.09	1.55	0.66	2.98	0.63	0.27	0.03	0.09
S- 64 0525N 0100E	25	67	663	12	54	10	4	0.10	1.73	0.56	2.93	0.56	0.31	0.03	0.08
S- 65 0550N 0100E	23	63	690	12	59	13	4	0.11	2.03	0.56	2.86	0.54	0.28	0.03	0.07
S- 66 0575N 0100E	25	67	813	14	60	11	4	0.11	2.11	0.58	2.99	0.59	0.38	0.02	0.06
S- 67 0600N 0100E	18	76	1045	17	92	7	3	0.13	2.58	0.82	3.60	0.88	0.60	0.02	0.12
S- 68 0625N 0100E	13	57	833	14	164	4	2	0.08	2.65	1.24	2.79	0.75	0.60	0.02	0.13
S- 69 0650N 0100E	23	70	838	15	89	7	4	0.11	2.53	0.73	3.18	0.68	0.45	0.02	0.11
S- 70 0675N 0100E	29	79	783	13	80	6	4	0.09	1.98	0.78	3.30	0.71	0.34	0.03	0.11
S- 71 0700N 0100E	25	64	727	11	60	8	4	0.09	1.84	0.57	2.90	0.58	0.32	0.03	0.08
S- 72 0725N 0100E	26	72	881	14	84	5	4	0.09	2.02	0.80	3.16	0.68	0.32	0.03	0.10
S- 73 0750N 0100E	25	64	1044	11	73	6	4	0.08	1.85	0.76	2.96	0.59	0.36	0.02	0.09
S- 74 0375N 0200E	29	76	745	14	79	7	5	0.10	2.02	0.75	3.20	0.67	0.30	0.03	0.10
S- 75 0400N 0200E	30	78	741	13	63	7	5	0.10	1.85	0.63	3.25	0.63	0.27	0.03	0.10
S- 76 0425N 0200E	28	78	703	13	60	6	4	0.10	1.69	0.74	3.26	0.64	0.30	0.03	0.11
S- 77 0450N 0200E	28	77	642	13	56	8	4	0.09	1.66	0.58	3.19	0.61	0.29	0.03	0.10
S- 78 0475N 0200E	27	80	576	15	50	7	4	0.08	1.35	0.62	3.28	0.52	0.29	0.03	0.12

Minimum Detection	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	10000	1.00	5.00	10.00	5.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analyzed ReC = ReCheck in progress ins = Insufficient Sample



2036 Columbia Street
 Vancouver, B.C.
 Canada V5Y 3E1
 Phone (604) 879-7878
 Fax (604) 879-7898

Sample Name	Type	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	W ppm	Ba ppm
S- 79 0500N 0200E	Soil	5	0.2	31	2	51	8	<5	<3	1	<10	<2	0.4	12	19	<5	102
S- 80 0525N 0200E	Soil	<5	0.1	36	3	59	8	<5	<3	2	<10	<2	0.4	12	19	<5	104
S- 81 0550N 0200E	Soil	<5	0.2	26	2	73	10	<5	<3	1	<10	<2	0.2	12	15	<5	123
S- 82 0575N 0200E	Soil	5	0.2	36	<2	59	8	<5	<3	2	<10	<2	0.3	13	20	<5	121
S- 83 0600N 0200E	Soil	<5	0.1	32	4	56	11	<5	<3	2	<10	<2	0.3	13	20	<5	160
S- 84 0625N 0200E	Soil	<5	<0.1	32	<2	57	8	<5	<3	1	<10	<2	0.4	13	19	<5	151
S- 85 0650N 0200E	Soil	<5	<0.1	34	4	64	7	<5	<3	1	<10	<2	0.4	13	18	<5	113
S- 86 0675N 0200E	Soil	<5	0.1	34	2	79	11	<5	<3	2	<10	<2	0.4	13	19	<5	145
S- 87 0700N 0200E	Soil	<5	0.2	40	<2	71	11	<5	<3	1	<10	<2	0.5	14	20	<5	157
S- 88 0725N 0200E	Soil	<5	0.1	32	7	62	10	<5	<3	1	<10	<2	0.5	13	18	<5	152
S- 89 0750N 0200E	Soil	<5	<0.1	30	<2	73	10	<5	<3	2	<10	<2	0.2	12	18	<5	178
S- 90 0000N 0100W	Soil	<5	0.1	23	<2	74	10	<5	<3	1	<10	<2	0.3	13	17	<5	124
S- 91 0025N 0100W	Soil	<5	0.1	27	3	81	8	<5	<3	1	<10	<2	0.2	13	17	<5	132
S- 92 0050N 0100W	Soil	<5	0.1	16	<2	71	8	<5	<3	2	<10	<2	0.1	12	13	<5	135
S- 93 0075N 0100W	Soil	16	0.1	44	3	72	13	5	<3	2	<10	<2	0.4	15	23	<5	105
S- 94 0100N 0100W	Soil	<5	0.2	33	<2	79	12	<5	<3	1	<10	<2	0.4	14	20	<5	132
S- 95 0125N 0100W	Soil	<5	0.2	17	<2	108	9	5	<3	1	<10	<2	0.3	12	13	<5	132
S- 96 0150N 0100W	Soil	<5	0.2	17	<2	84	11	<5	<3	1	<10	<2	0.2	11	11	<5	82
S- 97 0175N 0100W	Soil	6	0.4	24	<2	73	7	<5	<3	1	<10	<2	0.1	11	8	<5	42
S- 98 0000N 0200W	Soil	<5	0.2	28	<2	75	9	<5	<3	2	<10	<2	0.2	13	17	<5	138
S- 99 0025N 0200W	Soil	<5	0.2	17	<2	81	11	<5	<3	2	<10	<2	<0.1	9	12	<5	92
S- 100 0050N 0200W	Soil	7	0.2	29	<2	84	13	<5	<3	2	<10	<2	0.4	14	20	<5	137
S- 101 0075N 0200W	Soil	<5	0.2	14	<2	93	8	<5	<3	1	<10	<2	0.2	9	9	<5	95
S- 102 0100N 0200W	Soil	<5	0.2	12	2	99	9	<5	<3	1	<10	<2	<0.1	9	9	<5	81
S- 103 0125N 0200W	Soil	<5	0.2	28	<2	72	8	<5	<3	2	<10	<2	0.1	12	16	<5	98
S- 104 0150N 0200W	Soil	<5	0.1	11	<2	90	10	<5	<3	1	<10	<2	<0.1	8	6	<5	36
S- 105 0175N 0200W	Soil	<5	0.1	9	<2	72	10	<5	<3	1	<10	<2	<0.1	5	4	<5	33
S- 106 0500N 0100W	Soil	<5	0.3	39	4	69	9	<5	<3	2	<10	<2	0.5	14	20	<5	144
S- 107 0475N 0100W	Soil	<5	0.2	32	2	81	11	<5	<3	2	<10	<2	0.3	13	18	<5	169
S- 108 0450N 0100W	Soil	7	<0.1	19	<2	70	11	<5	<3	1	<10	<2	0.2	9	12	<5	107
S- 109 0425N 0100W	Soil	<5	0.1	14	<2	85	9	<5	<3	1	<10	<2	<0.1	8	9	<5	88
S- 110 0400N 0100W	Soil	<5	0.1	29	4	73	10	<5	<3	2	<10	<2	0.2	13	18	<5	142
S- 111 0375N 0100W	Soil	<5	0.2	31	2	80	10	5	<3	2	<10	<2	0.3	13	18	<5	128
S- 112 0350N 0100W	Soil	<5	0.6	17	3	76	10	<5	<3	1	<10	<2	0.1	8	9	<5	42
S- 113 0325N 0100W	Soil	11	0.1	23	2	64	5	<5	<3	1	<10	<2	0.2	11	14	<5	81
S- 114 0300N 0100W	Soil	<5	0.3	17	<2	83	12	<5	<3	1	<10	<2	<0.1	9	8	<5	57
S- 115 0500N 0200W	Soil	<5	0.2	12	<2	72	9	<5	<3	1	<10	<2	<0.1	6	7	<5	65
S- 116 0475N 0200W	Soil	<5	<0.1	17	<2	67	6	<5	<3	2	<10	<2	0.1	8	10	<5	96
S- 117 0450N 0200W	Soil	<5	0.1	12	2	94	6	<5	<3	1	<10	<2	<0.1	6	7	<5	111

Minimum Detection: Au 5, Ag 0.1, Cu 1, Pb 2, Zn 1, As 5, Sb 5, Hg 3, Mo 1, Tl 10, Bi 2, Cd 0.1, Co 1, Ni 1, W 5, Ba 2
 Maximum Detection: Au 10000, Ag 100.0, Cu 20000, Pb 20000, Zn 20000, As 10000, Sb 1000, Hg 10000, Mo 1000, Tl 1000, Bi 10000, Cd 10000.0, Co 10000, Ni 10000, W 1000, Ba 10000
 Method: GeoSp, ICP, ICP, ICP, ICP, ICP, ICP, ICP, ICP, ICP, ICP, ICP, ICP, ICP, ICP, ICP, ICP
 -- = Not Analyzed ReC = ReCheck in progress ins = Insufficient Sample



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 Vancouver, B.C.
 Canada V5Y 3E1
 Phone (604) 879-7878
 Fax (604) 879-7898

Sample Name	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
S- 79 0500N 0200E	26	75	517	13	41	6	3	0.08	1.30	0.51	3.10	0.47	0.25	0.02	0.09
S- 80 0525N 0200E	29	80	523	14	50	6	4	0.08	1.45	0.59	3.35	0.54	0.36	0.02	0.10
S- 81 0550N 0200E	23	69	653	13	69	6	4	0.10	1.87	0.64	3.02	0.59	0.37	0.03	0.09
S- 82 0575N 0200E	28	80	649	15	60	6	4	0.09	1.54	0.72	3.31	0.64	0.34	0.03	0.11
S- 83 0600N 0200E	27	70	618	12	50	10	4	0.10	1.85	0.53	3.05	0.58	0.26	0.03	0.09
S- 84 0625N 0200E	25	67	635	12	53	8	4	0.08	1.62	0.54	2.91	0.57	0.30	0.03	0.09
S- 85 0650N 0200E	26	75	607	13	61	6	4	0.08	1.50	0.66	3.13	0.59	0.34	0.02	0.11
S- 86 0675N 0200E	28	76	709	14	72	6	4	0.09	1.78	0.75	3.25	0.64	0.36	0.03	0.12
S- 87 0700N 0200E	27	78	673	13	84	6	4	0.09	1.98	0.84	3.32	0.75	0.33	0.03	0.12
S- 88 0725N 0200E	26	72	624	13	60	7	4	0.08	1.66	0.60	3.00	0.60	0.28	0.02	0.10
S- 89 0750N 0200E	24	66	712	13	81	8	4	0.10	2.29	0.72	2.96	0.57	0.35	0.03	0.10
S- 90 0000N 0100W	26	70	780	14	66	7	4	0.10	2.07	0.55	3.23	0.69	0.39	0.02	0.05
S- 91 0025N 0100W	23	68	812	10	76	6	4	0.10	1.91	0.74	3.08	0.73	0.37	0.02	0.07
S- 92 0050N 0100W	19	66	1122	15	156	6	4	0.12	3.29	1.05	3.15	0.80	0.50	0.02	0.09
S- 93 0075N 0100W	34	90	611	14	96	9	5	0.12	2.28	0.82	3.81	0.81	0.45	0.03	0.09
S- 94 0100N 0100W	29	77	872	13	79	8	5	0.11	2.21	0.73	3.45	0.77	0.43	0.03	0.08
S- 95 0125N 0100W	17	66	1048	15	148	6	3	0.12	3.16	1.05	3.17	0.82	0.51	0.02	0.09
S- 96 0150N 0100W	16	71	939	16	133	4	3	0.10	2.65	1.04	3.39	0.79	0.49	0.02	0.11
S- 97 0175N 0100W	12	76	780	22	153	2	3	0.08	2.62	1.71	3.41	0.89	0.31	0.02	0.10
S- 98 0000N 0200W	26	69	822	12	96	8	4	0.10	2.27	0.77	3.10	0.65	0.40	0.02	0.06
S- 99 0025N 0200W	15	48	666	10	144	5	3	0.07	2.68	0.94	2.42	0.62	0.42	0.02	0.07
S- 100 0050N 0200W	28	77	909	13	102	5	4	0.11	2.51	0.83	3.43	0.77	0.39	0.03	0.08
S- 101 0075N 0200W	11	44	990	11	193	2	2	0.06	2.76	1.31	2.25	0.61	0.47	0.02	0.10
S- 102 0100N 0200W	11	55	854	13	161	2	2	0.07	2.67	1.15	2.80	0.76	0.45	0.02	0.12
S- 103 0125N 0200W	23	71	746	13	145	5	4	0.10	2.63	1.07	3.15	0.72	0.45	0.02	0.09
S- 104 0150N 0200W	8	56	743	12	209	2	2	0.06	2.64	1.52	2.87	0.73	0.49	0.02	0.14
S- 105 0175N 0200W	4	32	580	8	302	1	1	0.04	3.34	1.97	1.74	0.54	0.51	0.02	0.08
S- 106 0500N 0100W	29	75	673	12	73	5	4	0.09	1.77	0.74	3.16	0.67	0.30	0.02	0.11
S- 107 0475N 0100W	26	71	770	12	89	6	4	0.09	2.12	0.77	3.10	0.63	0.35	0.03	0.10
S- 108 0450N 0100W	17	52	670	12	131	6	3	0.08	2.39	0.92	2.50	0.58	0.42	0.02	0.07
S- 109 0425N 0100W	11	43	728	10	167	4	2	0.06	2.55	1.07	2.20	0.58	0.48	0.02	0.07
S- 110 0400N 0100W	25	69	867	12	114	7	4	0.09	2.33	0.91	3.08	0.71	0.40	0.03	0.07
S- 111 0375N 0100W	26	72	757	13	126	8	4	0.11	2.54	0.98	3.22	0.74	0.41	0.03	0.08
S- 112 0350N 0100W	11	50	678	14	206	2	2	0.06	2.78	1.46	2.40	0.72	0.43	0.02	0.09
S- 113 0325N 0100W	21	66	621	12	135	6	4	0.09	2.49	0.97	2.90	0.72	0.37	0.02	0.06
S- 114 0300N 0100W	10	52	858	15	254	2	2	0.08	3.91	1.83	2.56	0.78	0.38	0.02	0.10
S- 115 0500N 0200W	7	31	544	8	316	3	2	0.04	3.39	2.07	1.73	0.56	0.59	0.02	0.09
S- 116 0475N 0200W	13	44	622	9	129	4	2	0.05	1.88	0.91	2.17	0.52	0.40	0.02	0.07
S- 117 0450N 0200W	8	32	1006	7	189	2	2	0.04	2.37	1.24	1.77	0.50	0.42	0.02	0.07

Minimum Detection	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	10000	1.00	5.00	10.00	5.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed ReC = ReCheck in progress ins = Insufficient Sample



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Sample Name	Type	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Co ppm	Co ppm	Ni ppm	W ppm	Ba ppm
S- 118 0425N 0200W	Soil	<5	0.2	11	<2	68	10	<5	<3	1	<10	<2	0.1	6	7	<5	52
S- 119 0400N 0200W	Soil	<5	0.1	16	<2	75	12	6	<3	1	<10	<2	0.3	8	10	<5	76
S- 120 0375N 0200W	Soil	15	0.4	8	<2	54	9	<5	<3	1	<10	<2	<0.1	4	4	<5	20
S- 121 0350N 0200W	Soil	<5	0.7	19	11	99	13	<5	<3	2	<10	<2	0.2	9	9	<5	62
S- 122 0325N 0200W	Soil	<5	0.2	11	6	71	13	<5	<3	1	<10	<2	<0.1	5	3	<5	24
S- 123 0300N 0200W	Soil	<5	0.2	6	<2	57	8	<5	<3	1	<10	<2	<0.1	4	3	<5	30
S- 124 0525N 0100W	Soil	<5	0.2	21	<2	80	15	6	<3	1	<10	<2	0.4	10	12	<5	106
S- 125 0550N 0100W	Soil	5	0.2	31	<2	80	11	<5	<3	1	<10	<2	0.4	13	19	<5	154
S- 126 0575N 0100W	Soil	<5	0.2	24	3	117	9	<5	<3	2	<10	<2	0.4	12	17	<5	188
S- 127 0600N 0100W	Soil	5	0.2	22	2	91	10	<5	<3	2	<10	<2	0.3	11	15	<5	179
S- 128 0625N 0100W	Soil	<5	0.2	37	4	71	12	<5	<3	2	<10	<2	0.5	14	21	<5	152
S- 129 0650N 0100W	Soil	<5	0.1	31	3	71	8	<5	<3	2	<10	<2	0.4	13	18	<5	162
S- 130 0675N 0100W	Soil	<5	0.2	37	5	75	11	<5	<3	2	<10	2	0.5	15	21	<5	157
S- 131 0700N 0100W	Soil	<5	0.1	24	4	87	9	<5	<3	2	<10	<2	0.3	12	15	<5	151
S- 132 0725N 0100W	Soil	<5	0.1	30	<2	73	10	<5	<3	2	<10	<2	0.4	13	19	<5	153
S- 133 0750N 0100W	Soil	<5	0.1	28	3	83	9	<5	<3	2	<10	<2	0.3	13	17	<5	177
S- 134 0775N 0100W	Soil	<5	0.2	28	<2	91	11	<5	<3	2	<10	<2	0.2	11	15	<5	173
S- 135 0800N 0100W	Soil	<5	0.2	38	4	63	9	<5	<3	2	<10	<2	0.5	13	21	<5	139
S- 136 0825N 0100W	Soil	7	0.2	40	2	64	10	<5	<3	1	<10	<2	0.5	14	21	<5	140
S- 137 0850N 0100W	Soil	20	0.2	42	3	67	9	<5	<3	2	<10	<2	0.4	14	20	<5	146
S- 138 0875N 0100W	Soil	6	0.1	37	3	67	10	<5	<3	3	<10	<2	0.4	13	19	<5	144
S- 139 0900N 0100W	Soil	<5	0.1	25	8	67	7	<5	<3	1	<10	<2	0.3	11	15	<5	109
S- 140 0925N 0100W	Soil	<5	0.2	30	<2	76	6	<5	<3	2	<10	<2	0.3	12	17	<5	130
S- 141 0950N 0100W	Soil	<5	0.2	18	<2	106	5	<5	<3	1	<10	<2	0.3	10	11	<5	129
S- 142 0975N 0100W	Soil	<5	0.1	28	3	67	9	<5	<3	1	<10	<2	0.5	12	16	<5	134
S- 143 1000N 0100W	Soil	<5	0.2	33	5	68	8	<5	<3	1	<10	<2	0.5	12	18	<5	141
S- 144 1000N 0000BL	Soil	<5	0.1	28	4	78	8	<5	<3	1	<10	<2	0.4	11	15	<5	123
S- 145 0975N 0000BL	Soil	<5	0.2	22	<2	101	10	<5	<3	1	<10	<2	0.2	12	14	<5	141
S- 146 0950N 0000BL	Soil	<5	0.2	21	2	107	12	<5	<3	1	<10	<2	0.3	10	12	<5	138
S- 147 0925N 0000BL	Soil	<5	0.2	26	5	86	14	<5	<3	2	<10	<2	0.3	12	23	<5	142
S- 148 0900N 0000BL	Soil	<5	0.1	25	<2	107	9	<5	<3	1	<10	<2	0.1	9	9	<5	223
S- 149 0875N 0000BL	Soil	<5	0.2	24	<2	60	14	<5	<3	1	<10	<2	0.2	12	16	<5	159
S- 150 0850N 0000BL	Soil	6	0.1	29	3	67	14	5	<3	2	<10	<2	0.3	13	19	<5	143
S- 151 0825N 0000BL	Soil	<5	0.1	32	<2	70	14	5	<3	1	<10	<2	0.2	13	19	<5	141
S- 152 0800N 0000BL	Soil	<5	0.2	24	4	60	11	5	<3	1	<10	<2	0.3	11	16	<5	140
S- 153 0775N 0000BL	Soil	<5	0.2	17	3	134	8	<5	<3	1	<10	<2	0.3	9	10	>5	170
S- 154 0750N 0000BL	Soil	<5	0.2	25	2	74	12	<5	<3	1	<10	<2	0.2	10	15	>5	134
S- 155 0700N 0000BL	Soil	<5	0.2	18	4	88	9	<5	<3	1	<10	<2	0.2	10	14	>5	164
S- 156 0675N 0000BL	Soil	<5	0.2	20	3	83	10	<5	<3	1	<10	<2	0.2	10	14	>5	175

Minimum Detection 5 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 5 2
 Maximum Detection 10000 100.0 20000 20000 20000 10000 1000 10000 1000 1000 10000 10000.0 10000 10000 1000 10000
 Method GeoSp ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP
 -- = Not Analyzed ReC = ReCheck in progress Ins = Insufficient Sample



2036 Columbia Street
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 Canada V5Y 3E1
 Phone (604) 879-7878
 Fax (604) 879-7898

Sample Name	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
S- 118 0425N 0200W	7	35	658	9	244	3	2	0.03	2.79	1.64	1.85	0.56	0.44	0.02	0.10
S- 119 0400N 0200W	13	47	762	10	190	3	2	0.05	2.52	1.29	2.39	0.62	0.51	0.02	0.10
S- 120 0375N 0200W	3	21	427	8	354	1	1	0.02	3.28	2.37	1.19	0.45	0.41	0.02	0.06
S- 121 0350N 0200W	10	55	1146	16	315	1	2	0.06	3.35	2.55	2.76	0.90	0.54	0.02	0.17
S- 122 0325N 0200W	4	39	762	13	369	1	1	0.04	3.68	2.76	2.05	0.57	0.38	0.02	0.12
S- 123 0300N 0200W	1	23	587	8	397	<1	1	0.02	3.97	2.59	1.39	0.47	0.48	0.01	0.07
S- 124 0525N 0100W	17	57	765	12	161	4	3	0.07	2.52	1.13	2.65	0.55	0.42	0.02	0.10
S- 125 0550N 0100W	27	71	799	13	98	7	4	0.09	2.14	0.82	3.17	0.65	0.39	0.02	0.09
S- 126 0575N 0100W	22	63	920	11	97	3	3	0.08	2.17	0.85	2.93	0.64	0.57	0.02	0.14
S- 127 0600N 0100W	21	59	971	11	112	6	3	0.09	2.43	0.90	2.84	0.67	0.47	0.02	0.08
S- 128 0625N 0100W	31	76	761	11	67	7	5	0.09	1.81	0.66	3.26	0.72	0.34	0.02	0.09
S- 129 0650N 0100W	26	71	739	12	81	7	4	0.09	1.92	0.73	3.03	0.64	0.31	0.03	0.09
S- 130 0675N 0100W	30	78	768	12	83	6	5	0.10	1.89	0.82	3.28	0.77	0.33	0.03	0.10
S- 131 0700N 0100W	21	62	763	12	109	6	4	0.10	2.40	0.94	2.86	0.66	0.44	0.02	0.10
S- 132 0725N 0100W	26	71	788	11	86	6	4	0.10	2.04	0.75	3.12	0.71	0.37	0.03	0.08
S- 133 0750N 0100W	25	66	885	11	94	8	4	0.10	2.17	0.81	2.99	0.65	0.40	0.02	0.08
S- 134 0775N 0100W	20	60	1013	11	130	3	3	0.08	2.15	1.10	2.80	0.70	0.42	0.02	0.11
S- 135 0800N 0100W	28	76	692	11	66	6	4	0.09	1.66	0.67	3.23	0.72	0.31	0.03	0.10
S- 136 0825N 0100W	29	79	702	11	66	6	4	0.09	1.66	0.69	3.31	0.73	0.32	0.03	0.10
S- 137 0850N 0100W	27	76	675	11	66	4	4	0.08	1.60	0.76	3.15	0.74	0.26	0.03	0.11
S- 138 0875N 0100W	28	75	726	12	71	6	4	0.09	1.75	0.72	3.21	0.70	0.33	0.02	0.10
S- 139 0900N 0100W	23	66	708	12	68	7	4	0.09	1.73	0.66	2.95	0.57	0.42	0.02	0.08
S- 140 0925N 0100W	25	73	779	12	91	5	4	0.10	1.97	0.78	3.15	0.68	0.36	0.03	0.09
S- 141 0950N 0100W	13	56	1032	13	166	3	3	0.09	2.51	1.26	2.71	0.71	0.50	0.02	0.12
S- 142 0975N 0100W	22	65	678	13	86	6	4	0.09	2.04	0.74	2.92	0.64	0.37	0.03	0.09
S- 143 1000N 0100W	25	66	692	12	68	7	4	0.09	1.76	0.67	2.91	0.65	0.34	0.02	0.09
S- 144 1000N 0000BL	19	60	812	11	93	4	3	0.08	1.80	0.97	2.68	0.68	0.34	0.02	0.10
S- 145 0975N 0000BL	19	64	1133	15	126	4	3	0.09	2.65	1.03	2.93	0.65	0.46	0.02	0.12
S- 146 0950N 0000BL	15	55	1223	13	137	2	2	0.08	2.54	1.30	2.66	0.69	0.47	0.02	0.16
S- 147 0925N 0000BL	24	69	941	11	97	7	4	0.10	2.08	0.77	3.09	0.72	0.41	0.02	0.10
S- 148 0900N 0000BL	11	53	1298	12	179	2	2	0.07	2.01	1.90	2.58	0.68	0.49	0.02	0.21
S- 149 0875N 0000BL	24	66	726	10	59	10	4	0.10	1.86	0.53	2.88	0.56	0.31	0.02	0.06
S- 150 0850N 0000BL	28	71	792	11	56	9	5	0.11	1.78	0.56	3.09	0.52	0.33	0.03	0.06
S- 151 0825N 0000BL	26	70	713	11	73	8	4	0.11	1.99	0.67	3.08	0.68	0.36	0.03	0.07
S- 152 0800N 0000BL	24	63	632	11	62	9	4	0.10	1.91	0.56	2.80	0.55	0.32	0.02	0.05
S- 153 0775N 0000BL	12	49	1817	13	103	2	3	0.07	1.84	0.93	2.60	0.65	0.36	0.02	0.11
S- 154 0750N 0000BL	21	57	697	11	61	9	4	0.09	1.90	0.60	2.64	0.56	0.30	0.02	0.07
S- 155 0700N 0000BL	20	60	985	11	63	7	3	0.09	1.96	0.57	2.79	0.56	0.34	0.02	0.08
S- 156 0675N 0000BL	19	51	945	10	56	12	4	0.09	2.03	0.50	2.54	0.54	0.33	0.02	0.04

Minimum Detection	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	10000	1.00	5.00	10.00	5.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed ReC = ReCheck in progress ins = Insufficient Sample

Sample Name	Type	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mn ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	W ppm	Ba ppm
S- 157 0650N 0000BL	Soil	<5	0.2	15	5	97	17	6	<3	1	<10	<2	<0.1	7	8	<5	137
S- 158 0625N 0000BL	Soil	<5	0.3	25	<2	71	17	6	<3	1	<10	<2	0.1	7	9	<5	69
S- 159 0600N 0000BL	Soil	<5	0.2	19	<2	92	12	5	<3	2	<10	<2	<0.1	10	12	<5	106
S- 160 0575N 0000BL	Soil	<5	0.2	30	2	66	17	5	<3	1	<10	<2	0.3	11	16	<5	126
S- 161 0550N 0000BL	Soil	<5	0.3	36	<2	76	13	<5	<3	2	<10	<2	0.2	14	21	<5	143
S- 162 0525N 0000BL	Soil	<5	0.2	22	<2	79	20	7	<3	<1	<10	<2	0.2	10	13	<5	91
S- 163 0500N 0000BL	Soil	<5	0.3	19	<2	96	26	9	4	<1	<10	<2	0.2	8	9	<5	70
S- 164 0775N 0100E	Soil	<5	0.3	26	<2	81	16	<5	<3	1	<10	<2	0.3	13	19	<5	145
S- 165 0800N 0100E	Soil	<5	0.2	26	3	111	19	<5	<3	1	<10	<2	0.2	12	16	<5	153
S- 166 0825N 0100E	Soil	<5	0.3	29	2	84	19	<5	<3	1	<10	<2	0.2	11	15	<5	121
S- 167 0850N 0100E	Soil	18	0.3	19	2	98	14	6	<3	1	<10	<2	<0.1	9	13	<5	73
S- 168 0875N 0100E	Soil	<5	0.2	23	<2	135	16	<5	<3	<1	<10	<2	0.2	11	14	<5	184
S- 169 0900N 0100E	Soil	<5	0.2	34	<2	134	21	8	<3	1	<10	<2	0.1	11	14	<5	124
S- 170 0925N 0100E	Soil	<5	0.3	22	<2	124	20	8	<3	1	<10	<2	0.4	10	13	<5	159
S- 171 0950N 0100E	Soil	7	0.4	12	<2	81	25	5	<3	1	<10	<2	<0.1	6	6	<5	42
S- 172 0975N 0100E	Soil	<5	0.3	18	2	120	17	6	<3	<1	<10	<2	0.3	10	13	<5	141
S- 173 1000N 0100E	Soil	<5	0.2	17	3	135	15	7	<3	<1	<10	<2	0.3	9	9	<5	173
S- 174 1025N 0100E	Soil	<5	0.2	23	2	79	12	5	<3	1	<10	<2	0.2	12	17	<5	156
S- 175 1050N 0100E	Soil	<5	0.2	25	2	72	15	5	<3	<1	<10	<2	0.3	12	17	<5	138
S- 176 1075N 0100E	Soil	<5	0.2	30	3	64	12	<5	<3	1	<10	<2	0.2	12	18	<5	112
S- 177 1100N 0100E	Soil	<5	0.2	27	3	64	14	5	<3	1	<10	<2	0.2	12	18	<5	152
S- 178 1125N 0100E	Soil	<5	0.2	28	2	70	14	<5	<3	1	<10	<2	0.1	13	17	<5	151
S- 179 1150N 0100E	Soil	<5	0.2	28	<2	58	12	<5	<3	1	<10	<2	0.1	9	13	<5	79
S- 180 1175N 0100E	Soil	<5	0.1	25	2	67	10	<5	<3	1	<10	<2	0.2	11	16	<5	128
S- 181 1200N 0100E	Soil	<5	0.1	16	6	86	13	<5	<3	1	<10	<2	0.1	10	11	<5	80
S- 182 1225N 0100E	Soil	<5	0.1	29	<2	53	15	<5	<3	1	<10	<2	0.1	11	18	<5	110
S- 183 1250N 0100E	Soil	<5	0.2	28	<2	55	13	<5	<2	1	<10	<2	<0.1	11	15	<5	78
S- 184 0775N 0200E	Soil	6	0.2	28	3	69	13	<5	<3	1	<10	<2	0.2	13	18	<5	128
S- 185 0800N 0200E	Soil	<5	0.2	23	2	104	13	<5	<3	1	<10	<2	<0.1	11	13	<5	144
S- 186 0825N 0200E	Soil	<5	0.3	26	5	109	11	5	<3	1	<10	<2	0.3	10	12	<5	158
S- 187 0850N 0200E	Soil	<5	0.3	33	2	79	11	<5	<3	1	<10	<2	0.2	12	17	<5	160
S- 188 0875N 0200E	Soil	<5	0.3	33	4	73	12	<5	<3	1	<10	<2	0.2	13	18	<5	136
S- 189 0900N 0200E	Soil	14	0.2	33	3	61	11	<5	<3	1	<10	<2	0.3	13	19	<5	147
S- 190 0925N 0200E	Soil	<5	0.3	35	3	63	9	<5	<3	1	<10	<2	0.2	13	19	<5	126
S- 191 0950N 0200E	Soil	<5	0.4	38	3	54	10	<5	<3	1	<10	<2	0.3	13	19	>5	99
S- 192 0975N 0200E	Soil	<5	0.3	42	3	68	10	<5	<3	2	<10	<2	0.3	14	23	>5	138
S- 193 1000N 0200E	Soil	<5	0.4	32	2	73	12	<5	<3	1	<10	<2	0.3	13	20	>5	154
S- 194 1025N 0200E	Soil	<5	0.4	36	2	64	14	<5	<3	1	<10	<2	0.2	13	21	>5	116
S- 195 1050N 0200E	Soil	<5	0.2	20	3	73	15	<5	<3	1	<10	<2	0.2	12	17	>5	129

Minimum Detection	5	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	5	2
Maximum Detection	10000	100.0	20000	20000	20000	10000	1000	10000	1000	10000	10000.0	10000	10000	1000	10000	
Method	GeoSp	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
-- = Not Analysed	ReC = ReCheck in progress	Ins = Insufficient Sample														

Sample Name	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
S- 157 0650N 0000BL	9	46	1200	11	213	1	2	0.06	2.38	1.54	2.28	0.56	0.36	0.02	0.15
S- 158 0625N 0000BL	11	50	669	11	147	2	2	0.06	2.31	1.14	2.32	0.52	0.39	0.02	0.11
S- 159 0600N 0000BL	18	61	767	11	142	5	3	0.10	2.77	1.06	2.83	0.64	0.38	0.02	0.11
S- 160 0575N 0000BL	22	61	647	10	78	4	3	0.07	1.62	0.88	2.65	0.58	0.32	0.02	0.10
S- 161 0550N 0000BL	30	77	688	13	71	5	4	0.09	1.92	0.70	3.31	0.63	0.37	0.02	0.10
S- 162 0525N 0000BL	19	67	746	12	128	4	3	0.08	2.21	0.99	2.82	0.53	0.37	0.02	0.11
S- 163 0500N 0000BL	11	50	836	10	171	2	2	0.08	2.56	1.25	2.40	0.62	0.50	0.02	0.12
S- 164 0775N 0100E	26	69	782	14	66	8	5	0.10	2.25	0.62	3.09	0.60	0.35	0.02	0.08
S- 165 0800N 0100E	23	65	1097	11	77	3	4	0.09	2.49	0.71	3.00	0.66	0.31	0.02	0.15
S- 166 0825N 0100E	22	67	840	11	102	4	4	0.09	2.21	0.91	2.94	0.62	0.49	0.02	0.13
S- 167 0850N 0100E	16	59	478	13	71	4	3	0.10	2.54	0.66	2.97	0.70	0.39	0.02	0.10
S- 168 0875N 0100E	19	58	1252	12	82	3	3	0.09	2.40	0.76	2.85	0.65	0.40	0.02	0.11
S- 169 0900N 0100E	18	68	1325	14	143	3	3	0.11	3.17	1.19	3.14	0.80	0.58	0.02	0.18
S- 170 0925N 0100E	17	60	1316	11	168	2	3	0.08	2.39	1.41	2.76	0.65	0.49	0.02	0.16
S- 171 0950N 0100E	7	32	542	9	407	1	1	0.04	4.98	2.75	1.62	0.50	0.40	0.02	0.23
S- 172 0975N 0100E	16	56	1418	13	138	3	3	0.08	2.49	1.09	2.74	0.74	0.37	0.02	0.25
S- 173 1000N 0100E	11	52	1779	15	185	1	2	0.07	2.35	1.59	2.58	0.75	0.50	0.02	0.19
S- 174 1025N 0100E	24	65	813	11	65	7	4	0.09	1.97	0.59	2.99	0.64	0.35	0.02	0.06
S- 175 1050N 0100E	24	70	854	11	89	4	3	0.08	1.87	0.79	2.97	0.63	0.34	0.03	0.10
S- 176 1075N 0100E	24	66	722	10	71	4	4	0.08	1.88	0.66	2.97	0.69	0.34	0.02	0.07
S- 177 1100N 0100E	24	64	746	11	74	6	4	0.08	1.83	0.69	2.88	0.62	0.35	0.02	0.08
S- 178 1125N 0100E	25	68	774	12	79	5	4	0.08	1.85	0.72	2.94	0.59	0.31	0.02	0.10
S- 179 1150N 0100E	16	52	587	10	139	3	3	0.05	2.07	1.06	2.45	0.60	0.31	0.02	0.09
S- 180 1175N 0100E	21	55	844	10	72	5	4	0.08	1.77	0.67	2.61	0.59	0.36	0.02	0.06
S- 181 1200N 0100E	15	53	942	15	120	7	3	0.08	2.47	0.90	2.71	0.64	0.42	0.02	0.10
S- 182 1225N 0100E	26	69	519	11	72	7	4	0.09	1.91	0.65	3.00	0.59	0.30	0.02	0.06
S- 183 1250N 0100E	21	64	531	14	112	4	3	0.09	2.16	0.87	2.86	0.63	0.33	0.02	0.10
S- 184 0775N 0200E	29	73	718	12	62	4	4	0.08	1.96	0.61	3.07	0.60	0.22	0.02	0.10
S- 185 0800N 0200E	19	60	898	12	100	4	3	0.08	2.02	0.88	2.81	0.65	0.46	0.02	0.12
S- 186 0825N 0200E	16	50	1042	11	114	3	3	0.07	1.93	0.99	2.43	0.57	0.39	0.02	0.11
S- 187 0850N 0200E	25	67	718	12	68	7	4	0.08	1.73	0.70	2.95	0.54	0.33	0.02	0.11
S- 188 0875N 0200E	26	72	697	12	69	6	4	0.09	1.73	0.70	3.06	0.60	0.34	0.02	0.10
S- 189 0900N 0200E	27	66	707	12	56	7	4	0.08	1.53	0.63	2.93	0.59	0.36	0.02	0.10
S- 190 0925N 0200E	27	72	638	12	51	3	4	0.07	1.31	0.65	3.01	0.56	0.32	0.02	0.12
S- 191 0950N 0200E	27	80	546	13	49	3	3	0.07	1.20	0.65	3.16	0.54	0.32	0.03	0.13
S- 192 0975N 0200E	29	75	672	12	64	3	4	0.08	1.53	0.78	3.17	0.71	0.33	0.03	0.13
S- 193 1000N 0200E	26	70	733	12	55	5	4	0.08	1.63	0.59	3.06	0.60	0.32	0.02	0.09
S- 194 1025N 0200E	27	76	676	13	59	3	3	0.08	1.40	0.70	3.12	0.60	0.34	0.03	0.12
S- 195 1050N 0200E	25	66	743	12	65	6	4	0.10	2.15	0.59	3.06	0.63	0.34	0.02	0.07

Minimum Detection	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	10000	1.00	5.00	10.00	5.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

-- = Not Analysed ReC = ReCheck in progress ins = Insufficient Sample



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 Fax (604) 879-7898

Sample Name	Type	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	W ppm	Ba ppm
S- 196 1075N 0200E	Soil	<5	0.3	42	4	57	14	<5	<3	1	<10	<2	0.2	13	20	<5	109
S- 197 1100N 0200E	Soil	<5	0.2	23	3	73	14	<5	<3	1	<10	<2	0.2	12	17	<5	141
S- 198 1125N 0200E	Soil	<5	0.3	31	2	61	17	6	<3	1	<10	<2	0.3	12	19	<5	150
S- 199 1150N 0200E	Soil	<5	0.2	20	2	98	16	5	<3	1	<10	<2	0.3	12	16	<5	214
S- 200 1175N 0200E	Soil	6	0.1	32	<2	70	14	<5	<3	1	<10	<2	<0.1	13	19	<5	147
S- 201 1200N 0200E	Soil	<5	0.1	20	<2	69	18	<5	<3	<1	<10	<2	0.2	11	16	<5	149
S- 202 1225N 0200E	Soil	<5	0.2	28	3	67	15	<5	<3	1	<10	<2	0.2	13	19	<5	169
S- 203 ROAD CUT	Soil	<5	0.3	23	2	66	13	<5	<3	1	<10	<2	0.1	10	16	<5	126
S- 204 G 1	Soil	<5	0.2	17	3	40	11	5	<3	1	<10	<2	0.2	9	14	<5	85
S- 205 G 2	Soil	<5	0.2	21	<2	45	12	<5	<3	1	<10	<2	0.2	10	15	<5	88
S- 206 G 3	Soil	<5	0.2	24	2	48	10	<5	<3	1	<10	<2	0.3	13	16	<5	97
S- 207 G 4	Soil	20	0.2	23	4	44	9	5	<3	1	<10	<2	0.3	11	16	<5	72
S- 208 G 5	Soil	<5	0.3	27	<2	44	10	5	<3	1	<10	<2	0.2	11	16	<5	84
S- 209 G 6	Soil	10	0.3	24	2	37	8	<5	<3	1	<10	<2	0.2	11	16	<5	63

Minimum Detection 5 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 5 2
 Maximum Detection 10000 100.0 20000 20000 20000 10000 1000 10000 1000 1000 10000 10000.0 10000 10000 1000 10000
 Method GeoSs ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP

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Sample Name	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
S- 196 1075N 0200E	26	74	584	12	53	5	4	0.08	1.44	0.66	3.02	0.62	0.26	0.03	0.10
S- 197 1100N 0200E	26	71	814	11	73	5	4	0.10	2.07	0.64	3.08	0.61	0.28	0.02	0.07
S- 198 1125N 0200E	26	68	680	10	58	6	4	0.09	1.58	0.62	2.88	0.60	0.32	0.03	0.09
S- 199 1150N 0200E	21	60	1056	10	61	8	4	0.10	1.90	0.59	2.80	0.59	0.32	0.02	0.07
S- 200 1175N 0200E	26	71	702	11	72	7	4	0.10	1.94	0.71	3.06	0.66	0.27	0.02	0.08
S- 201 1200N 0200E	22	63	778	11	94	9	4	0.11	2.36	0.74	2.76	0.59	0.30	0.03	0.06
S- 202 1225N 0200E	26	67	752	10	66	5	4	0.08	1.75	0.64	2.90	0.63	0.26	0.03	0.09
S- 203 ROAD CUT	21	56	661	11	83	8	4	0.09	2.10	0.69	2.64	0.59	0.36	0.02	0.07
S- 204 G 1	19	60	434	9	35	8	3	0.07	1.24	0.41	2.52	0.38	0.22	0.02	0.08
S- 205 G 2	22	71	467	10	44	4	3	0.07	1.20	0.50	2.84	0.39	0.21	0.02	0.09
S- 206 G 3	22	80	863	12	56	4	3	0.07	1.18	0.62	3.12	0.46	0.23	0.02	0.11
S- 207 G 4	23	84	418	13	51	3	3	0.07	1.10	0.63	3.23	0.46	0.25	0.02	0.11
S- 208 G 5	23	83	472	14	55	3	3	0.08	1.20	0.68	3.20	0.45	0.25	0.03	0.12
S- 209 G 6	23	85	429	13	50	4	3	0.08	0.95	0.73	3.13	0.47	0.23	0.03	0.14

Minimum Detection	1	2	1	2	1	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	10000	10000	1.00	5.00	10.00	5.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

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 Phone (604) 879-7878
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APPENDIX II

ROCK SAMPLE LOCATIONS

SAMPLE NO.	LOCATION	DESCRIPTION
R200	at identification post 3Nx3W of Chopaka 13	-float, 239 ppm Cu, .3 ppm Ag, 26 ppm As, 3 ppb Au.. silicified, mica, pyrite, hematite, reacts to acid.
R201	see Figure 4	-float, 1000 ppm Ni, 48 ppm Co 31 ppm As, 14.97% mg, 3 ppb Au. light brown with quartz veinlets, layered mafic material, reacts to acid
R202	see Figure 4	-float, 105 ppm Cu, .5 ppm Ag, 4 ppb Au. Altered hornblende diorite, hematite, reacts to acid.
R203	240E 350N	-float, 547 ppm Ba, .2 ppm Ag, 2 ppb Au. Light brown (argillite?) with chalcedony? inclusions.
R204	240E 350N	-float, 196 ppm Ba, 135 ppm La, 15 ppm Th, .1 ppm Ag, 3 ppb Au. Breccia, pinkish-grey with quartz inclusions, pyrite, reacts to acid.
R205	240E 350N	-float, 123 ppm Cu, 199 ppm Ba, .2 ppm Ag, 1 ppm Au. Altered diorite, silicified, rusty stain, reacts to acid.
R206	000BL 425N	-float, 111 ppm Cu, .4 ppm Ag. 38 ppm Co, 4 ppb Au. Layered, sheared, calcite?, reacts to acid.
R207	000BL 318N	-float, 137 ppm La, 13 ppm Th .1 ppm Ag, 1 ppb Au. Quartz, rusty stain.
R208	200E 035N	-float, 66 ppm La, 12 ppm Th, .4 ppm Ag, 3 ppb Au. Similar to R204.
R209	200E 035N	-float, 57 ppm Ni, .4 ppm Ag, 5 ppm Au. Similar to R204 but darker colour.

R210	200E 035N	-float, .1 ppm Ag, 1 ppb Au. Bleached with grey stockworks.
R211	200W 325N	-float, .3 ppm Ag, 1 ppm Au. Altered Granodiorite, pinkish stain.
R212	200W 325N	-float, 37 ppm As, 1.0 ppm Ag, 7 ppb Au. Altered Granodiorite with quartz veinlets, pyrite, reacts to acid.
R213	200W 325N	-float, 34 ppm As, 1.0 ppm Ag, 3 ppb Au. Crumbly sheared granodiorite.
R214	050E 1000N	-float, .3 ppm Ag, 2 ppb Au. altered granodiorite with iron staining, pyrite.
R215	10 meters west of soil G 4	-large boulder, 20 ppm As, 40 ppm Co, 20 ppm Zr, .86% Ti, .2 ppm Ag, 15 ppb Au. Greenish, cherty pyrite, stockworks.
R216	10 meters west of soil G 6	-float, .1 ppm Ag, 20 ppb Au. Quartz with rusty stain.
R217	100W 275N	-float, 20 ppm As, 37 ppm Pb, 7.2 ppm Cd, 2.3 ppm Ag, 25 ppb Au. Similar to R213.
R218	200E 825N	-grab, .3 ppm Ag, 20 ppb Au. Quartz vein with adjacent wallrock.
R219	200E 825N	-grab, 16 ppm As, .2 ppm Ag, 10 ppb Au. Quartz vein, rusty stain, fractured.
R220	200E 825N	-grab, .1 ppm Ag, 5 ppb Au. Quartz vein with wallrock, mica.
R221	200E 825N	-grab, <.1 ppb Ag, 5 ppb Au. diorite dyke, unaltered, adjacent to quartz vein.
R222	see Figure 4	-float, 38 ppm Co, 1286 ppm Mn, .2 ppm Ag, 5 ppb Au. quartz with adjacent wallrock, pyrite, reacts to acid.

APPENDIX III

COST STATEMENT

COST STATEMENT

SALARIES

M. J. Harris, Prospector

May 11, 12, 26, 27, 28, 29, 30, 31, 1991

Oct 19, 20, 1991

10 days @ \$210.00 per day \$ 2,100.00

MEALS AND ACCOMMODATION

M. J. Harris Meals - 10 days @ \$50.00 per day 500.00
Accom. -10 nights @ \$50.00 per day 500.00

TRANSPORTATION

Vehicle Rental (Ford 1/2 ton 4 x 4)
10 days @ \$50.00 per day 500.00
Gasoline - 3 two way trips Vancouver - Keremeos 210.00

SUPPLIES

Sample bags, hipchain thread, flagging, etc. 100.00

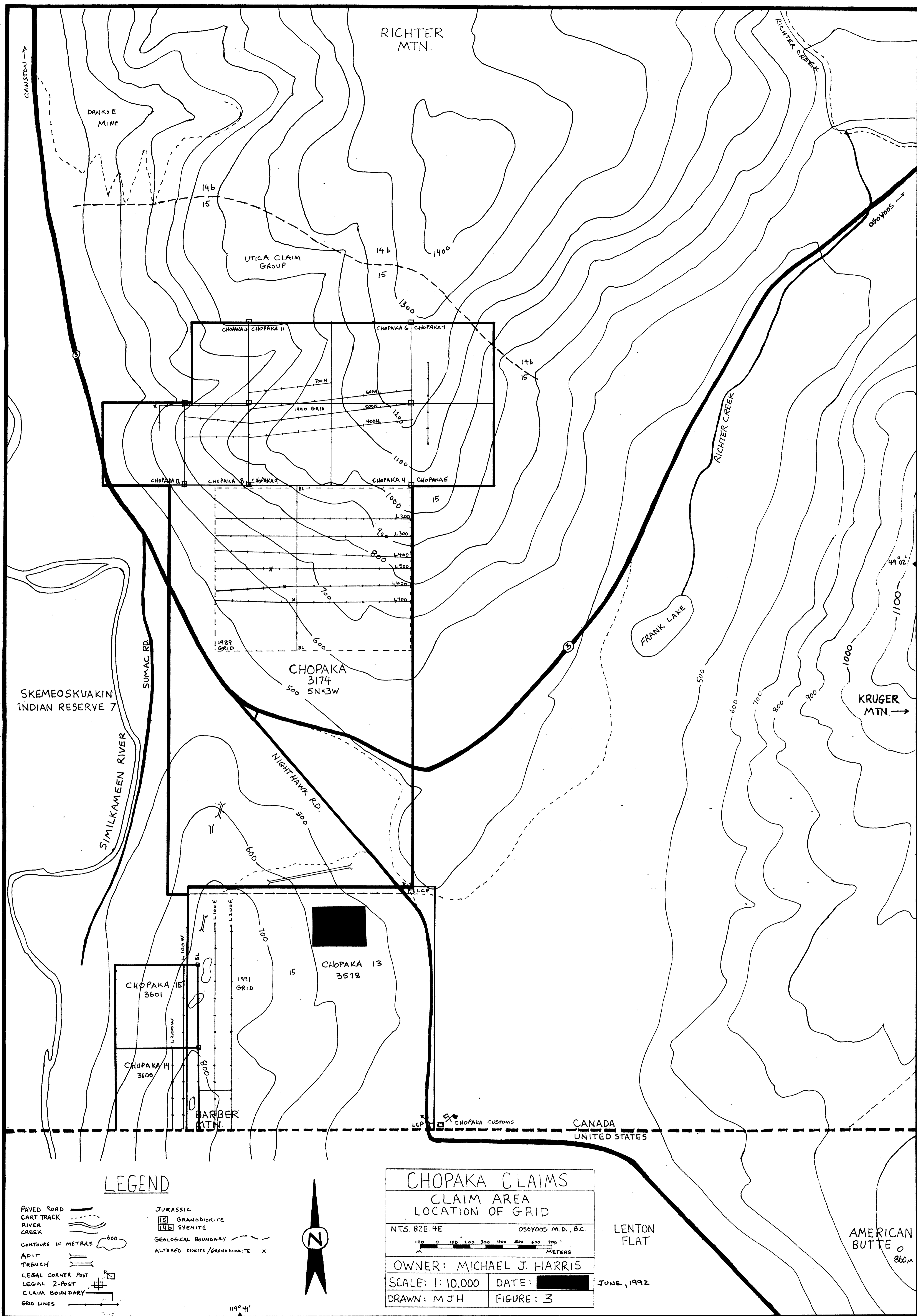
ANALYSIS

Laboratory analysis 2,615.35

REPORT PREPARATION

Drafting, office supplies, photocopying, etc. 800.00

TOTAL \$ 7,325.35



LEGEND

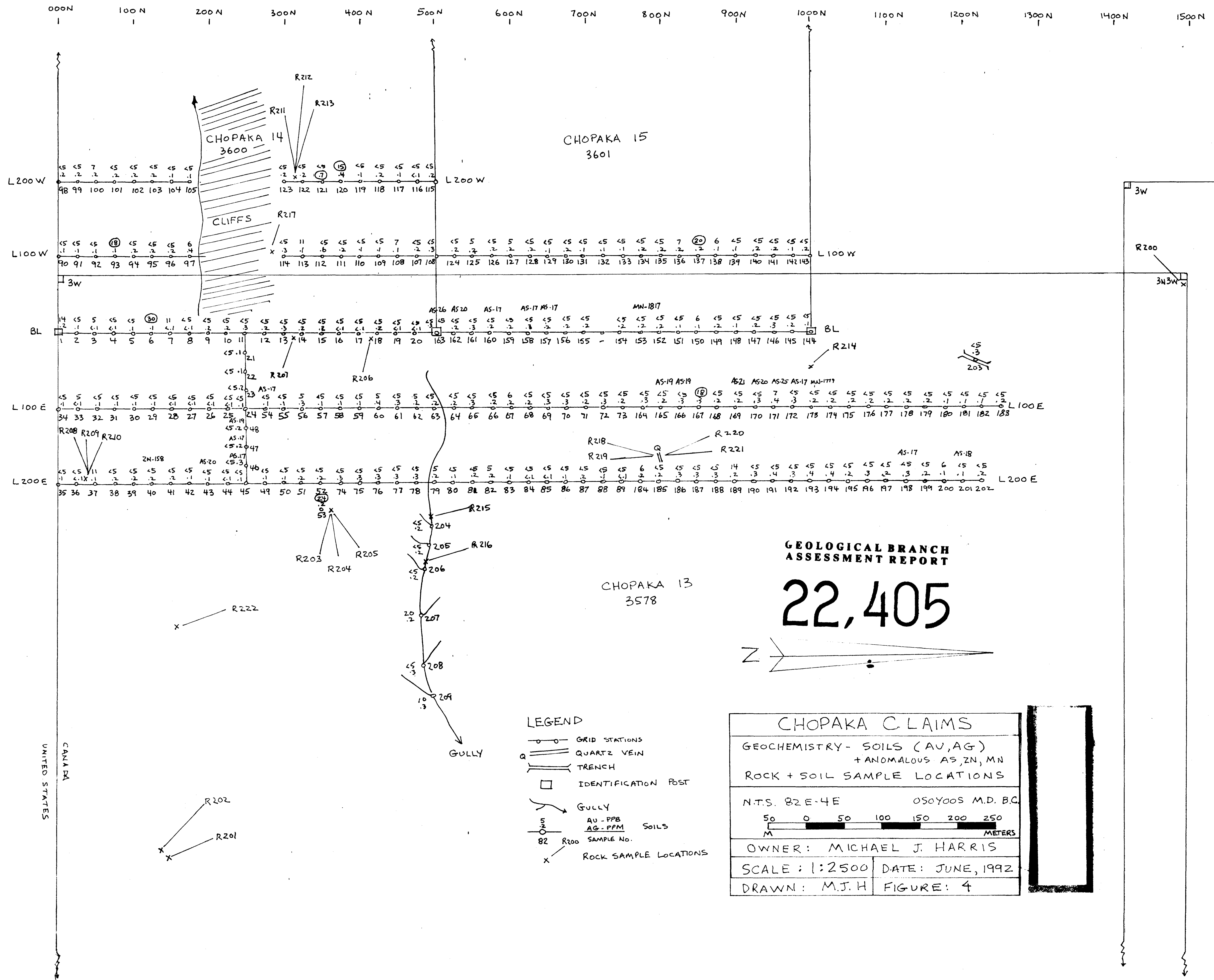
- PAVED ROAD ———
- CART TRACK ———
- RIVER ———
- CREEK ———
- CONTOURS IN METERS ——— 600
- ADIT ———
- TRENCH ———
- LEGAL CORNER POST ———
- LEGAL 2-POST ———
- CLAIM BOUNDARY ———
- GRID LINES ———
- JURASSIC ———
- GRANODIORITE ———
- SYENITE ———
- GEOLOGICAL BOUNDARY ———
- ALTERED DIORITE/GRANODIORITE X



CHOPAKA CLAIMS	
CLAIM AREA LOCATION OF GRID	
NTS. 82E.4E	050Y005 M.D., B.C.
OWNER: MICHAEL J. HARRIS	
SCALE: 1:10,000	DATE: [REDACTED] JUNE, 1992
DRAWN: MJH	FIGURE: 3

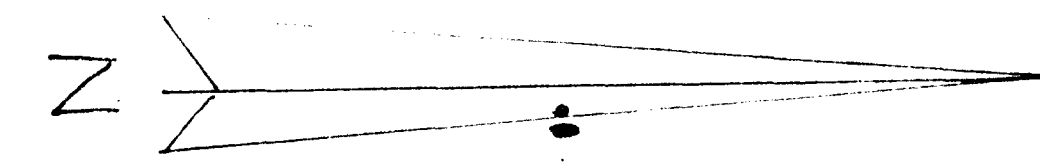
GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,405



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

22,405



- LEGEND**
- GRID STATIONS
 - QUARTZ VEIN
 - == TRENCH
 - IDENTIFICATION POST
 - ↘ GULLY
 - AU - PPB
○ AG - PPM SOILS
○ 82 R200 SAMPLE NO.
 - x ROCK SAMPLE LOCATIONS

CHOPAKA CLAIMS	
GEOCHEMISTRY - SOILS (AU, AG) + ANOMALOUS AS, ZN, MN	
ROCK + SOIL SAMPLE LOCATIONS	
N.T.S. 82 E-4E	050Y005 M.D. B.C.
OWNER: MICHAEL J. HARRIS	
SCALE: 1:2500	DATE: JUNE, 1992
DRAWN: M.J.H	FIGURE: 4

CHOPAKA
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