

MINERAL TITLES BRANCH  
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GOVERNMENT AGENT  
KAMLOOPS

Per.....

**Physical, Prospecting and Geochemical Report  
Little Fort Gold Copper Property  
Bill Group  
Eakin Creek Area**

**Latitude 51° 28' North, Longitude 120° 16' West  
Kamloops Mining Division  
NTS SHEET 92-P-8**

by  
**W. T. Hall, Prospector**  
for  
**W. T. Hall, D. Duguay & G. Wolanski  
Barriere, B.C.  
March 1st, 1996**

MINERAL TITLES BRANCH  
KAMLOOPS

24896

DMC Electronic Publishing  
Kamloops, B.C.

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## 1.0 Introduction

The Bill group of claims were staked between December 20th, 1995 and November, 27 1996 to cover open ground in an area of known mineralization along a major fault and surrounding favorable geology.

## 2.0 Location and Access

The Bill group of claims consists of 65 claims located on the north east portion of N.T.S mapsheet 92 P8 and the south east portion of map 92 P9. The claim group is centered approximately 6 km northwest of Little Fort B.C at 120° 16' west and longitude 51° 28' north latitude.

Access to the northern portion of the claims is via Highway 24 or logging roads along Nehalliston Creek. Access to the southern portion of the group (area of work) is along old Highway 24. (Eakin Creek Road)

### 3.0 Physiography

The Bill group of claims is situated within the terrain of the Thompson Plateau, west of the North Thompson River. Slopes are gentle to moderate except along the valleys of Eakin and Nehalliston Creeks where the terrain is locally precipitous.

Nehalliston and Eakin Creeks both flow easterly towards the North Thompson River.

The total topographic relief of the property is approximately 400 metres.

Virtually all of the claims are moderately to heavily forested with young to mature stands of fir, spruce pine and balsam with light to moderate undergrowth.

## 4.0 History

Mining activity in the area began in the 1920's with the discovery of placer gold in Lemieux and Eakin Creeks. Exploration for porphyry copper deposits took place during the 1960's and 70's.

In 1983/84 Craven Resources staked the area for its gold potential. In 1984 a program of grid soil sampling, geological mapping and prospecting was carried out on the Cedar I to VI mineral claims under the direction of R. Yorkston geologist. (Assessment report 13,519)

In 1985 the grid was expanded to the north for more soils and preliminary geophysics.

In 1988 Explorex Development Corporation conducted a magnetometer, VLF-EM Survey on the Ruth Mary II Claim. This program was carried out by James R. Harrington C.E.T. (Assessment report 18,404)

## 5.0 General Geology

The Eakin Creek, Latroumouille Lake and Nehalliston Creek area is intersected by a major northwest ( $320^{\circ}$ ) trending fault. The area west of the fault was mapped by Tipper and Campbell (GSC Memoir 363 map 1278A, see figure 3) as Triassic age Nicola group andesites. (map unit 2)

To the East of the fault zone, Pennsylvanian and Permian age volcanics and sediments occur. (map unit 3)

Northeast of the fault zone, Jurassic age andesite breccias and volcanic rock occur. (map unit 16)

## 5.1 Property Geology

The property is split by a major fault zone striking  $320^{\circ}$  and dipping  $75^{\circ}$  to the south west and is about 20 meters wide. This fault zone separates the Cache Creek group (unit 3) to the east from the Nicola group (unit 2) rocks to the west of the fault.

The area from the fault zone an old Highway 24 to the north and east was mapped geologically by Yorston and Ikona in their 1984 report for Craver Resources. In their report they show numerous diorite intrusives in the rocks (unit 3) to the east of the fault zone.

Numerous quartz veins to 10 cm occur along the cliffs above old Highway 24, on the east side of the fault in altered andesitic rock. Values to 4520 ppb gold occur. (see figure 4 sample location map) The majority of veins are near vertical and strike parallel to the main fault ( $320^{\circ}$ ).

On the southeast claims, Nests 1 - 4 and Cliffs 1 - 2, the majority of outcrop is a mafic diorite with rarely outcropping underlying silicious



limestone and shales. Two porphyry dikes were found on the Cliff 1 claim. 1 is 3 cm wide striking  $100^{\circ}$  and dipping  $80^{\circ}$  to the north, the other is 10 cm wide also striking  $100^{\circ}$  and dipping  $80^{\circ}$  to the north. (see figure 5 prospecting)

In the talus slopes along the base of the cliffs of the Nest 4 and Cliff 1, claims malachite staining was found in fractures of rock with andesitic to dioritic texture.

On the Pipe claim to the west of the fault, an area of warm air vents covering approximately  $3000 \text{ m}^2$  in a talus slopes at the base of diorite outcrop. More than 100 vents from  $20 \text{ cm}^2$  to  $10 \text{ m}^2$  had melted up through 1 meter of snow. (see figure 5)

## 6.0 Work Completed

On April 18, 19, and 20 of 1996, W. T. Hall and D. Duguay prospected and mapped along old Highway 24 and above and below old Highway 24 on the Ho 1 and 2, Zag 1 and 2, mineral claims. The only areas of interest were (1) along the road on the east side of the fault and 3 rock samples were collected and (2) the area directly west of the Ho 1 and north of old Highway 24.

On April 22 W. T. Hall located the Pipe Claim to cover an area of warm air vents. (see figure 5)

On May 1, 2, and 3 of 1996, W. T. Hall and D. Duguay prospected and mapped the Nest 1 - 4 and the Cliff 1 - 2 claims, a silicified limestone unit underlying the diorites was discovered on the Nest 4 claim and 2 porphyry copper dikes were discovered on the cliffs of the Cliff 1 claims. Another outcropping of silicified limestone was found on the Cliff 2 claim. Both silicified limestone outcrops and the largest porphyry dike (10 cm) were sampled and assayed. (see figure 4)

On May 14 and 15, 1996, D. Duguay and W. T. Hall prospected and mapped on the Home 2 Bill 2 and Bill 4 claims numerous small (>5 cm) veins were found and a line of soil samples was taken in nine draws between the major fault and the Box 1 Final post. (see figure 4)

On August 28, and 29, 1996, W. T. Hall and G. Wolanski sampled quartz veins along the cliffs on the Bill 2, 3 and 4 claims. Some highly anomalous gold assays resulted. (see figure 4 for sample sites)

From December 4th to 8thm 1996, W. T. Hall and D. Duguay percussion drill sample 38 rock chip samples along Eakin Creek Road. Each sample consisted of between 16' to 20' of drilling, depending on recovery of rock chips. Samples were drilled with a 40 mm crossbit, 650 feet in total. All sample sites are marked with flourescent paint.

## **6.1 Method of Control**

Eakin Creek, Eakin Creek Road and topography were used for control.

## 7.0 Samples (all samples on sample map figure 4)

A total of 60 rock and 9 soil samples were collected in the 1996 work program.

The soil samples are a combination of B and C horizons because of poor soil differentiation. Samples were taken from 10 to 30 cm deep and packaged in brown kraft bags and shipped to Vancouver for analysis. Each sample was assayed for 30 elements, I.C.P. and Gold.

51 of the rock samples were bagged and tagged and sent to Vancouver for analysis. (30 element, I.C.P. and Gold)

The rock chip samples EC96-S1 to EC96-S38 came from the following rock types:

EC-96-S1 to EC96S5 - Brown Cherty Schist.

EC-96-S6 - Cherty andesite with 2 mm quartz stringers.

EC-96-S8 - Brown Sharn 24" across pyritic.

EC-96-S10 to S16 - Grey Limestone with some chert banding.

EC-96-S17 - Dark green andesite.

EC-96-S18 - Green andesite pyritic with 3 cm quartz vein.

EC-96- S19 to S22 - Limestone dark grey

EC-96-S23 - Hard cherty silicious limestone.

EC-96-S245 - Altered limestone with quartz veins to 2 cm and epidote.

EC-96-S25 - Grey limestone.

EC-96-S26 - Green andesite pyritic rusty with quartz veins to 3 mm.

EC-96-S27 - Silicious cherty andesite pyritic with 10 cm felspar  
porphyry dike.

EC-96-S28 - Silicious andesite pyritic quartz veins to 3 cm.

EC-96-S29 - Grey green schisty shale with rust.

EC-96-S30 - Grey green schist.

EC-96-S31 - Black shale.

EC-96-S32 - Cherty shale.

EC-96-S33 - Black shale

EC-96-S34 - Silicious limestone/shale.

EC-96-S35 - Grey silicious limestone.

EC-96-S36 - Silicious limestone with 18" andesite dike.

EC-96-S37 - Sharn 18" highly fractured striking 335° dipping 80° to the  
east andesite strain.

EC-96-S38 - Grey limestone.

One other anomalous rock sample P.C. #1 came from a 15 cm wide quartz vein in silicified limestone with pyrite and chalcopyrite. Sample assayed 7366 ppb Cu. and 165 ppb Au.

## 8.0 Conclusions

During the course of exploration in 1996, 3 new target areas were established for further exploration.

1. The area of quartz veins on the Bill 2, Bill 3, and Bill 4 claims returned several highly anomalous gold assays of 277 ppb, 415 ppb, 1360 ppb, 2220 ppb, and 4520 ppb Au respectively. Values appear to be related to fine grained galena blebs in the anomalous samples. The increasing slope in the area of veining will call for cliff sampling off ropes tied to trees at the top of the cliffs. Dozens of veins remain unsampled on rear vertical rock faces.
2. The two porphyry copper dikes on the Cliff 1 claim, (see figure 4) the larger of which assayed 4364 ppb copper and associated malachite staining in fractures of dioritic to andesitic rock. Lack of soil on the talus slopes to the east of the Nest 4 and Cliff 1 claims may necessitate biological sampling to ascertain if a larger porphyry system underlies the claims. Tree bark sampling has been suggested.

3. Syenitic Feldspar Porphyry discovery 20 metres to the east sample EC-96-S27.

Sample EC-96-S27 was anomalous in Au. (326 ppb) Returning to the sample site after the return of assays the author discovered a 10 cm syenitic porphyry dike with disseminated fine grained pyrite, which had been drilled through. As samples on either side of S27 did not return anomalous values (S26-5 ppb Au, S28 - 17 ppb Au) it was concluded that the porphyry dike was responsible for the anomalous gold values. Twenty metres east of S27 an outcrop of feldspar porphyry (previously considered float but now considered in place) was sampled but at the time of this report assay has not been received. If the porphyry returns anomalous gold assays, a grid will be established over the area and a soil sample survey will be conducted. If the soil survey returns anomalous gold and/or copper values Geophysics (Mag and ULF) will be run over the soil grid to try to determine the size of the porphyry.



## 9.0 Statement of Costs

W. T. Hall	10 days prospecting @ \$200/day	2,000.00
	5 days drilling @ \$200/day	1,000.00
D. Duguay	8 days prospecting @ \$200/day	1,600.00
	5 days drilling @ \$200/day	1,000.00
G. Wolanski	2 days prospecting @ \$200/day	400.00
4 x 4	15 days @ \$50/day	750.00
Compressor rental		280.00
3 air drills, 1 jackleg drill steel		
	5 days @\$60/day	300.00
Drill bits 3-40 mm crossbits		
	@\$45 each	135.00
Gas & oil for compressor		125.00
Assays		970.00
Meals @ Little Fort Cafe		200.00
Report writing		500.00
		<hr/>
		\$9,260.00

## 10.0 Statement of Qualifications

I, W. T. Hall of 237 Haggard Road, Barriere, B.C. (Box 1088) do hereby certify:

1. That I am a graduate of the Malaspina College Advanced Prospecting course, 1988,
2. That I have been a practicing prospector for 12 years,
3. That I have personally prospected, sampled and mapped the southern portion of the Bill Group of Claims at various times between April 18, 1996 and December 8, 1996,

March 1, 1996

\_\_\_\_\_  
William T. Hall, prospector



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

THIS IS TO CERTIFY THAT

William J. Wall

HAS SUCCESSFULLY COMPLETED

Advanced Prospecting Course

AND IS HEREBY GRANTED

THIS CERTIFICATE OF ACHIEVEMENT

V.A. [Signature]

DIRECTOR OF  
PROSPECTORS' ASSISTANCE

A.P. [Signature]

COURSE INSTRUCTOR

7 May 1988

DATE

# MALASPINA COLLEGE

In recognition of having completed the requirements  
of the

A D V A N C E D P R O S P E C T I N G C O U R S E

The Malaspina College Board, on the recommendation  
of the Faculty, grants a

## CERTIFICATE

to

W I L L I A M H A L L

MAY 6, 1988

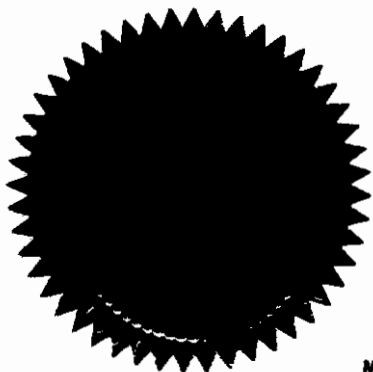
Dated at Nanaimo,  
British Columbia, Canada

*Matson*  
Director of Admissions & Records

*Janet Crapo*  
Chairman of College Board

*Ray Johnston*  
President

*[Signature]*  
Dean



## Appendix

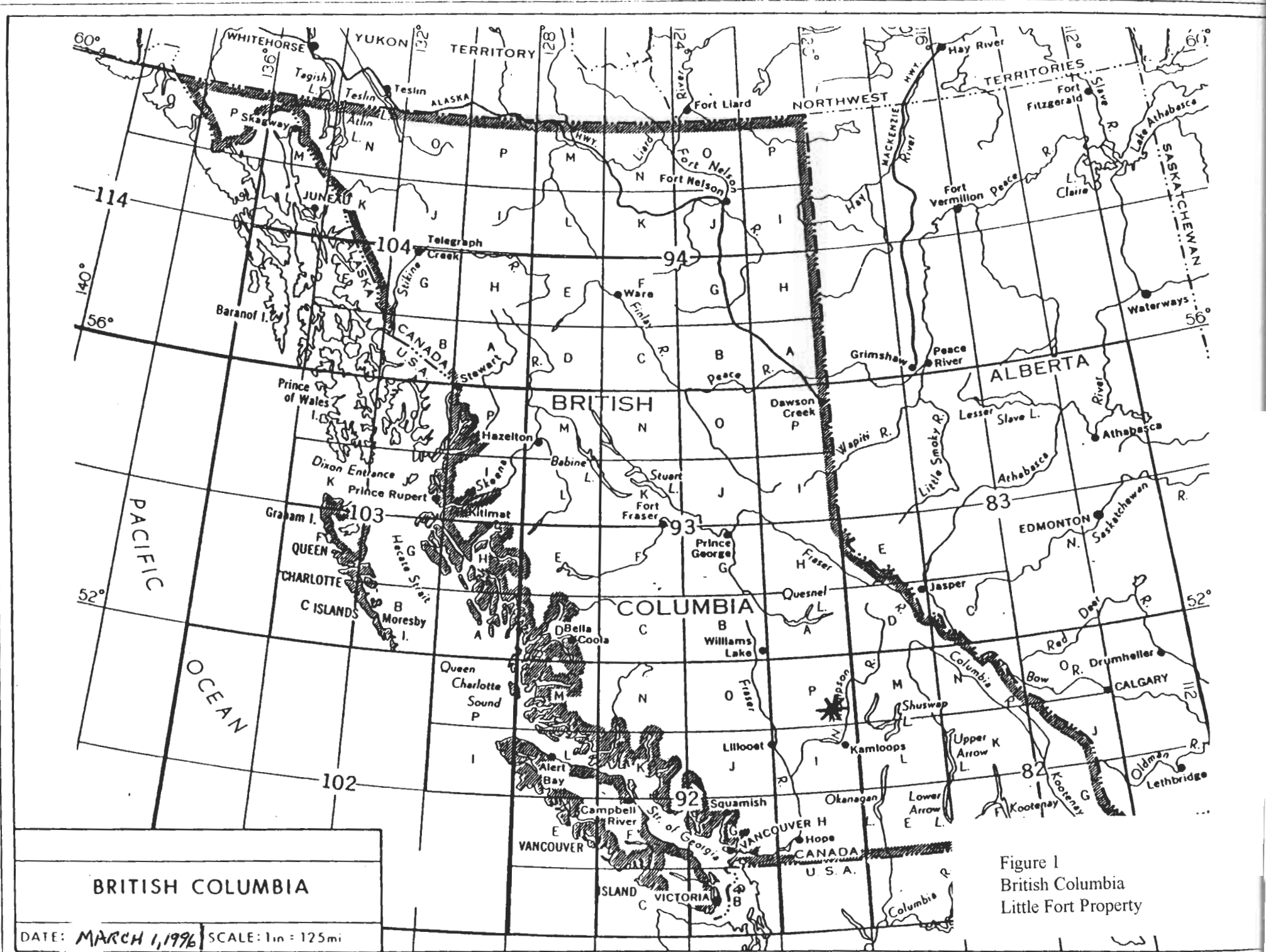
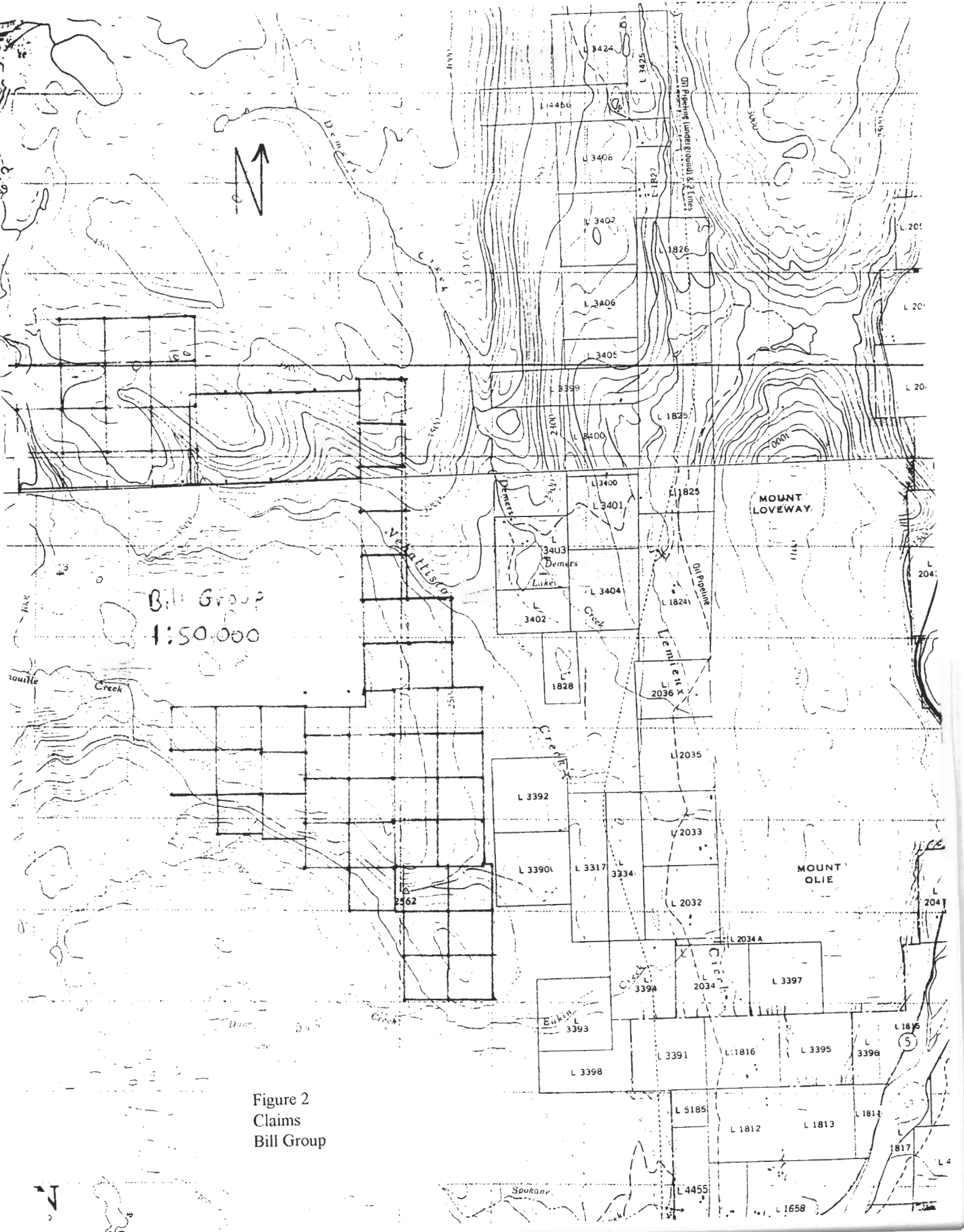


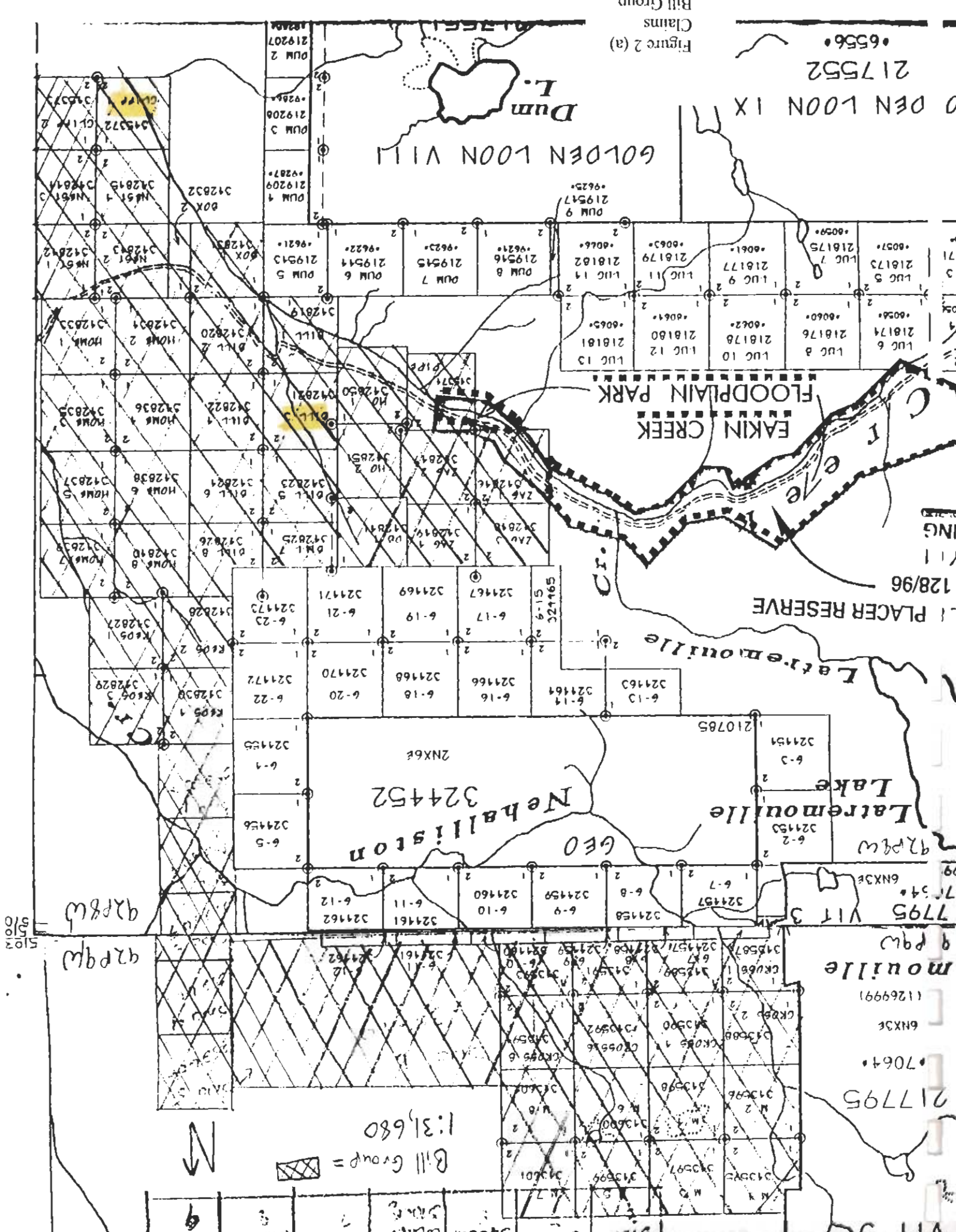
Figure 1  
 British Columbia  
 Little Fort Property

DATE: MARCH 1, 1996 | SCALE: 1 in = 125 mi



Bill Group  
1:50,000

Figure 2  
Claims  
Bill Group



Bill Group  
Claims  
Figure 2 (a)

0 DEN LOON IX  
217552  
65566

GOLDEN LOON VILL  
Dum L.

FLOODPLAIN PARK  
EAKIN CREEK

CR. Latremouille  
PLACER RESERVE  
128/96

GEO Nehaliliston  
324452

Latremouille  
Lake  
321153

5102

9288W  
9289W

7795 VIT 3  
6NX3E

Latremouille  
9289W  
11269991

217795  
7064



1:31,680  
Bill Group = [hatched box]

VIT 3  
9289W  
9288W  
9287W  
9286W  
9285W  
9284W  
9283W  
9282W  
9281W  
9280W  
9279W  
9278W  
9277W  
9276W  
9275W  
9274W  
9273W  
9272W  
9271W  
9270W  
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9201W



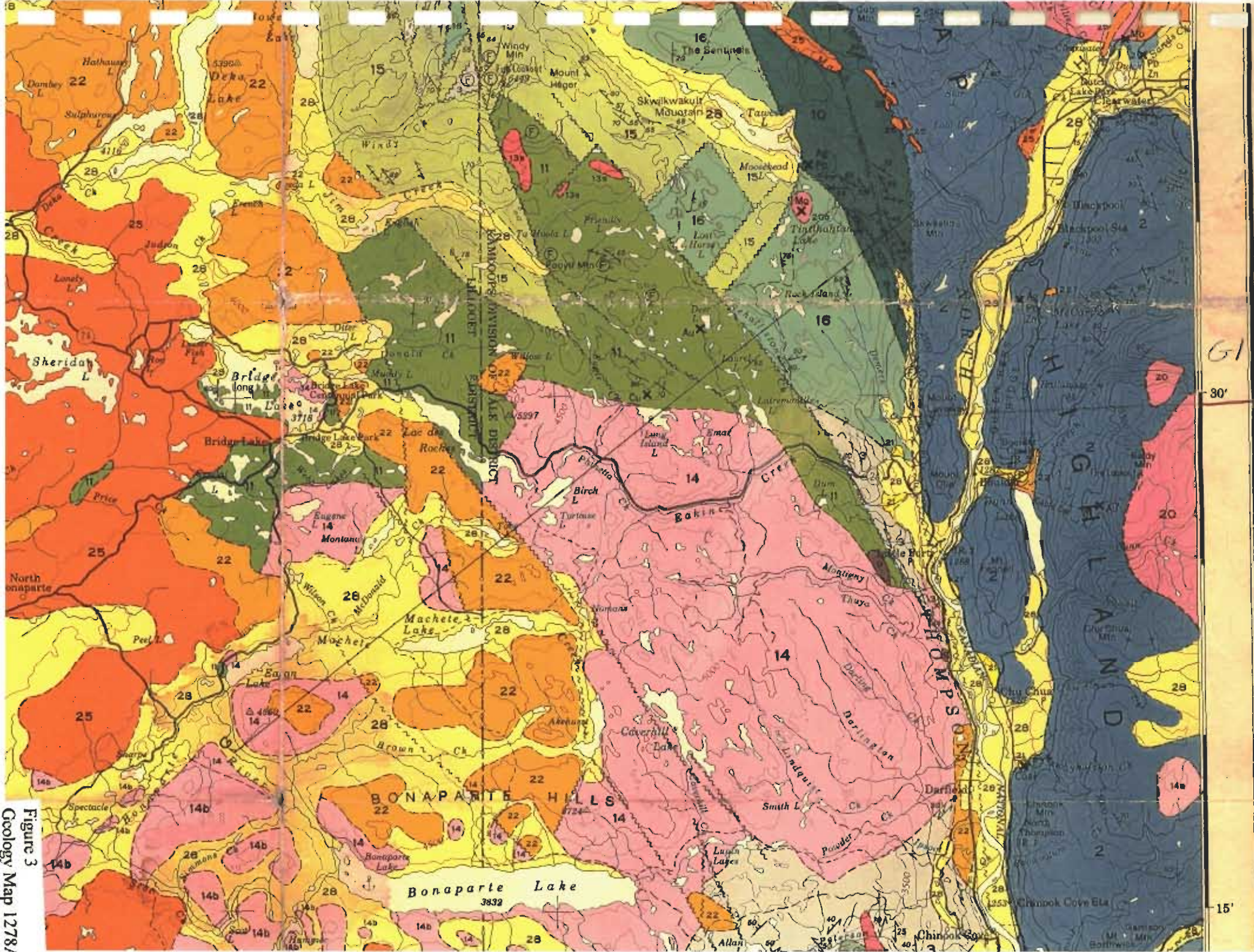


Figure 3  
Geology Map 1278A

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

24,896

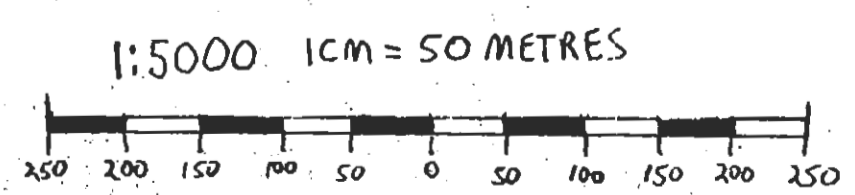


Figure 4  
Sample Location Map  
Bill Group - (south)



24,896

- 1 - Diorite
- 2 - Andesite
- 3 - Sharn
- 4 - Cherty Volcanics
- 5 - Limestone/Sa Silicified Limestone
- 6 - Schist
- 7 - Shales
- 8 - Monzonite
- 9 - Porphyry

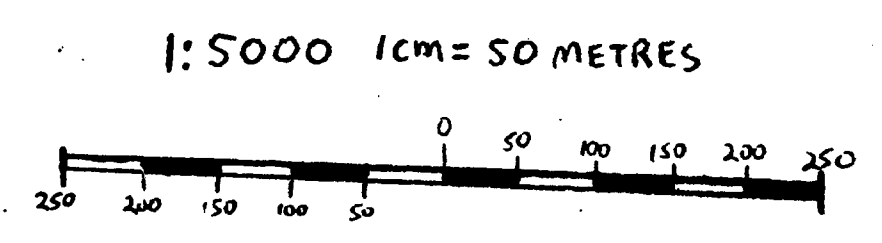
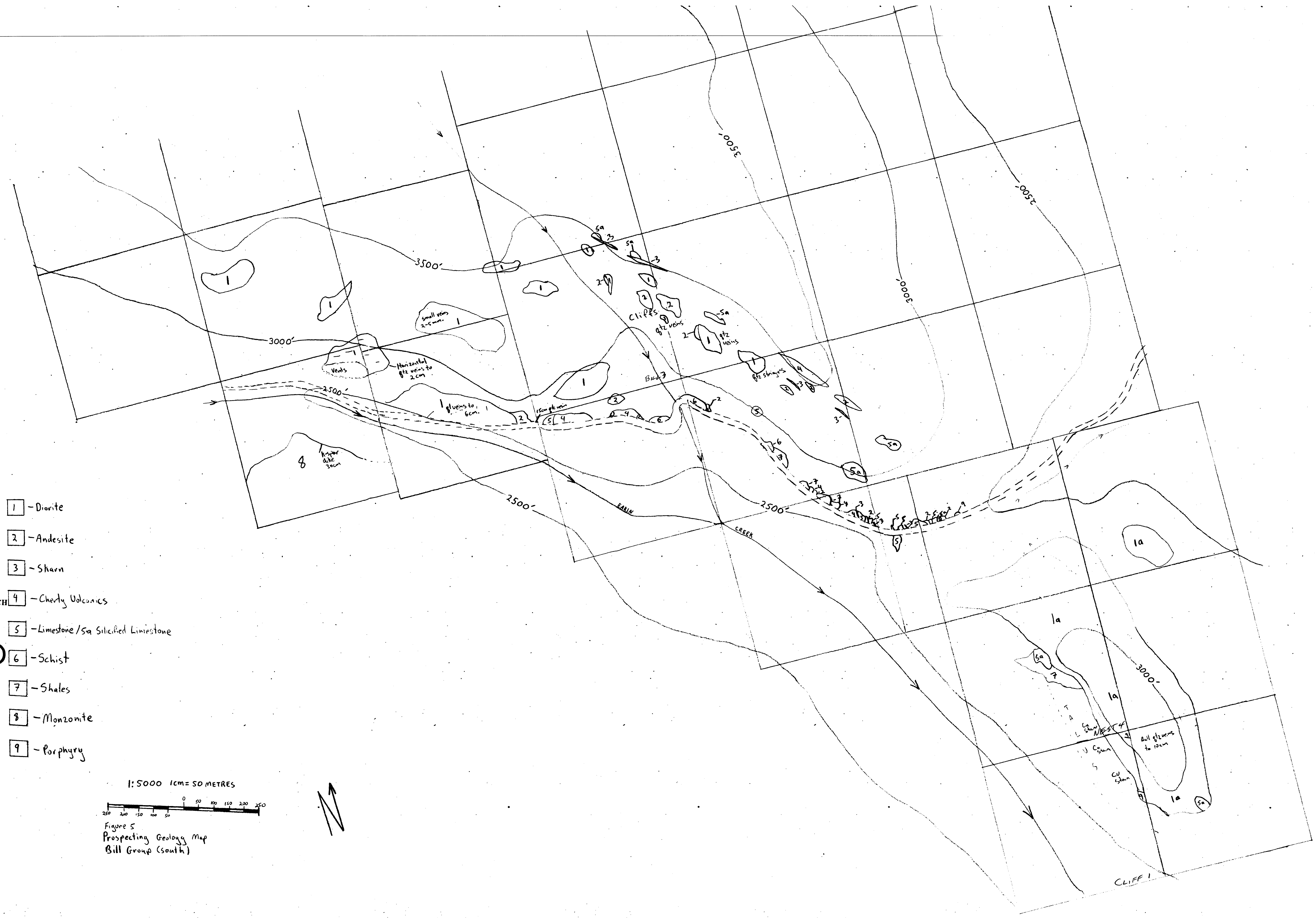


Figure 5  
Prospecting Geology Map  
Bill Group (south)





GEOCHEMICAL ANALYSIS CERTIFICATE



G. Wolanski File # 96-4283 Page 1

913 McQueen Drive, Kamloops BC V2B 7X8

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	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppb	
LF96 R-73	2	50	7	48	.8	19	7	258	2.60	2	<5	<2	3	26	.3	<2	<2	17	.32	.073	7	15	.28	84	<.01	<3	.67	.02	.27	3	3
LF96 R-76	2	39	<3	114	<.3	37	15	555	4.62	10	<5	<2	5	13	.7	2	<2	38	.37	.041	6	29	1.19	67	.18	<3	2.20	.01	.21	<2	3
LF96 R-77	2	77	<3	11	.4	8	12	83	1.70	14	8	<2	4	135	<.2	4	<2	34	1.60	.125	17	14	.06	24	.19	3	.88	.05	.05	3	2
LF96 R-81	7	216	13	424	.9	28	26	1138	5.24	73	<5	<2	3	71	3.9	<2	2	23	2.96	.059	10	8	.54	71	.03	<3	1.24	.02	.26	<2	28
LF96 R-85	3	1259	863	407	3.6	45	68	1480	7.47	84	<5	<2	2	21	3.6	2	<2	21	3.85	.048	4	22	.11	15	.05	34	.66	<.01	.01	3	91
LF96 R-101	1	78	63	326	1.2	3	22	1582	5.50	.74	<5	<2	<2	239	3.4	<2	<2	58	7.05	.160	7	3	1.61	68	<.01	<3	2.41	.02	.29	<2	17
H24-96 R-1	1	581	21	85	.9	26	24	499	3.08	5	<5	<2	2	118	2.4	<2	<2	95	4.69	.102	6	53	1.39	38	.21	<3	1.51	.03	.57	<2	2
H24-96 R-2	1	486	3	20	.8	18	53	1007	9.29	<2	<5	<2	2	33	.9	<2	<2	153	3.67	.043	3	12	.14	32	.10	<3	.53	<.01	.05	2	17
H24-96 R-3	3	97	<3	30	<.3	8	10	543	2.59	<2	<5	<2	4	121	.2	<2	<2	71	5.83	.111	14	13	1.25	58	.17	<3	1.58	.03	.23	<2	121
RE H24-96 R-3	3	100	<3	29	<.3	7	11	548	2.59	<2	<5	<2	4	122	.2	<2	<2	71	5.80	.111	14	10	1.25	59	.17	<3	1.59	.03	.24	<2	116
HB96 R-1 LARGE	2	176	23	10	1.3	7	7	389	1.79	<2	7	<2	7	72	<.2	<2	<2	15	1.44	.036	6	13	.14	113	<.01	<3	.20	.06	.08	4	69
HB96 R-1 SMALL	6	23	2864	7	24.2	6	3	233	1.35	<2	<5	<2	5	24	.6	<2	37	6	.49	.034	5	14	.03	47	<.01	<3	.09	.08	.02	5	415
HB96 R-2	14	35	64	17	3.4	10	14	796	3.03	<2	<5	<2	4	338	.5	<2	<2	11	6.27	.118	3	11	.67	36	<.01	<3	.11	.07	.03	3	277
HB96 R-3	9	111	81	15	7.3	7	6	456	1.63	<2	<5	<2	2	73	<.2	<2	<2	28	1.96	.062	5	17	.38	164	.01	<3	.27	.04	.09	5	1360
HB96 R-4	4	446	508	11	15.8	7	3	275	1.28	<2	6	<2	<2	46	.3	<2	3	15	1.11	.032	2	25	.29	101	<.01	<3	.14	.04	.05	6	2220
HB96 R-5	5	133	320	16	38.7	6	9	439	2.85	<2	<5	5	2	128	.4	<2	2	24	2.58	.064	5	15	.36	43	.01	<3	.30	.04	.13	4	4520

map sample #

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.  
 ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB  
 - SAMPLE TYPE: P1 ROCK P2 SOIL AU\* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.  
 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 4 1996 DATE REPORT MAILED: Sept 16/96 SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



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	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppb
Map Sample # LF96 S-80	2	217	79	255	5.4	36	11	1377	3.34	17	<5	<2	2	60	.9	<2	7	56	6.24	.068	20	41	.89	73	.07	573	1.65	.02	.11	<2	29
LF96 S-81	31	1355	30	14305	2.9	293	410	16899	17.28	10746	<5	<2	5	191	166.1	10	20	13	9.64	.059	761	4	.70	179	<.01	<3	2.23	<.01	.04	<2	634
LF96 S-82	52	1164	29	173	5.0	23	16	4203	14.35	159	<5	<2	3	37	2.3	3	9	56	3.93	.045	11	14	.75	84	.06	<3	1.36	.01	.10	32	611
LF96 S-83	30	1255	36	221	13.0	6	21	3976	19.38	145	6	<2	2	45	1.7	7	15	26	3.31	.032	15	12	.64	151	.03	<3	1.15	.01	.17	20	734
LF96 S-84	8	199	42	177	1.9	1	13	2034	5.75	16	6	<2	<2	52	2.7	<2	10	8	1.29	.052	11	23	1.25	111	<.01	28	2.39	.03	.09	<2	43
LF96 S-85	2	139	28	76	1.2	17	20	1460	7.15	94	5	<2	6	298	1.1	<2	5	147	8.92	.125	20	16	1.53	78	.13	4	1.64	.02	.48	<2	59
LF96 S-86	3	44	29	1135	.9	30	19	1109	4.52	72	<5	<2	2	43	3.2	2	2	73	1.09	.060	9	23	.77	132	.14	6	2.98	.02	.09	<2	15
LF96 S-101	2	221	45	307	1.7	45	24	1060	5.78	54	<5	<2	2	38	.9	<2	6	95	1.29	.050	20	47	1.32	84	.08	3	2.82	.01	.13	<2	25
LF96 S-102	1	72	40	608	.8	29	20	1716	7.34	34	<5	<2	<2	52	1.1	<2	10	76	1.19	.051	11	24	1.27	112	<.01	<3	2.36	.01	.09	<2	6
S-8 H24-96 S-2	7	184	42	113	3.5	287	58	1534	6.49	10	<5	<2	2	140	1.2	<2	7	230	6.83	.088	12	613	3.72	42	.08	<3	3.81	.01	.52	<2	481
S-9 H24-96 S-3	15	400	176	838	1.1	41	26	2470	11.24	243	<5	<2	2	54	4.7	4	10	78	4.37	.150	10	51	.31	66	.01	11	.85	.01	.09	<2	26
RE H24-96 S-3	15	392	185	840	1.3	41	24	2470	11.20	247	<5	<2	2	53	4.7	6	8	77	4.32	.151	10	51	.30	62	.01	13	.82	.01	.09	<2	23
S-1 HB96 S-1	1	44	11	229	<.3	28	13	1447	2.98	<2	<5	<2	<2	82	<.2	<2	<2	61	.86	.140	7	26	.52	264	.12	14	2.03	.01	.26	<2	9
S-2 HB96 S-2	1	174	23	100	<.3	32	22	1020	4.24	4	<5	<2	<2	80	.2	<2	2	73	1.40	.039	14	34	.87	134	.12	18	2.08	.02	.49	<2	17
S-3 HB96 S-3	<1	50	10	79	<.3	25	12	677	3.10	<2	<5	<2	<2	47	.4	<2	<2	45	.88	.022	6	26	.46	126	.13	24	2.34	.03	.37	<2	11
S-4 HB96 S-4	1	64	22	205	<.3	33	15	1083	3.32	6	<5	<2	<2	53	.8	<2	<2	62	.77	.136	7	31	.65	246	.12	17	2.78	.02	.33	<2	24
S-5 HB96 S-5	3	683	25	116	1.0	37	37	1597	6.85	<2	<5	<2	2	107	.8	<2	6	200	3.56	.192	17	59	2.40	446	.12	17	2.48	.02	1.11	<2	88
S-6 HB96 S-6	3	409	27	108	1.2	32	32	1348	6.33	3	<5	<2	2	94	.9	<2	9	187	4.23	.194	14	59	1.93	379	.13	16	2.17	.01	.85	<2	116
S-7 HB96 S-7	4	524	24	102	1.7	28	37	1683	7.20	7	<5	<2	4	226	1.8	<2	8	168	9.96	.217	14	44	1.65	481	.10	19	1.75	.02	.76	<2	115
STANDARD C2/AU-S	19	57	35	139	6.4	70	32	1115	3.78	33	26	8	33	52	20.1	18	19	70	.51	.104	41	63	.92	200	.09	26	2.05	.06	.15	12	42

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



## GEOCHEMICAL ANALYSIS CERTIFICATE



G. Wolanski File # 96-6598 Page 1

913 McQueen Drive, Kamloops BC V2B 7X8

SAMPLE#	Map 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	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb
EC DEC 96 Q-1-39	3	14	38	6	.3	7	1	153	.34	<2	9	<2	<2	48	<.2	2	<2	3	1.94	.002	<1	22	.02	13	<.01	3	.02	.01	.01	3	2
EC DEC 96 AL-2-40	2	42	7	28	<.3	4	5	267	1.99	11	<5	<2	<2	285	<.2	<2	<2	39	2.51	.219	19	9	.31	40	.17	<3	1.14	.03	.16	<2	6
EC DEC 96 LAL-1-41	1	53	9	30	<.3	4	8	932	2.77	<2	<5	<2	<2	483	<.2	<2	<2	25	4.61	.125	7	5	.71	84	.01	3	.46	.05	.29	<2	19
RE EC DEC 96 LAL-1	1	51	9	31	.3	4	10	932	2.77	<2	5	<2	<2	481	<.2	2	4	24	4.62	.128	7	5	.71	76	<.01	3	.47	.05	.29	<2	18

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.

ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB

- SAMPLE TYPE: P1 ROCK P2 TO P3 SOIL AU\* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: DEC 16 1996

DATE REPORT MAILED:

Dec 24/96

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



SAMPLE#	Map 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
EC96 S-1	1	<1	11	19	101	.5	5	12	1151	3.10	300	<5	<2	<2	88	<.2	2	<2	18	4.24	.085	18	4	.72	54	<.01	<3	1.48	.01	.11	<2	28
EC96 S-2	2	5	69	9	65	.6	28	12	884	3.28	78	<5	<2	9	60	<.2	<2	<2	21	2.09	.117	39	12	.59	69	<.01	<3	1.34	<.01	.10	<2	6
EC96 S-3	3	5	96	9	70	1.1	14	14	1328	5.00	139	<5	<2	4	140	<.2	<2	<2	34	5.09	.684	31	10	.58	45	<.01	3	1.83	.01	.08	2	251
EC96 S-4	4	2	54	13	65	1.5	16	11	654	3.96	223	<5	<2	2	81	<.2	<2	<2	28	2.93	.161	18	9	.52	64	<.01	3	1.27	.01	.08	<2	22
EC96 S-5	5	2	206	19	83	1.7	27	62	1437	6.81	169	<5	<2	2	69	.2	3	<2	84	2.71	.046	14	23	1.21	51	<.01	3	2.26	.01	.09	2	19
EC96 S-6	6	<1	33	13	99	<.3	176	33	985	3.65	19	<5	<2	<2	198	.4	<2	<2	79	5.56	.119	6	247	2.46	59	.26	5	2.34	.04	.33	<2	4
EC96 S-9	9	2	27	5	20	.3	5	4	294	.78	8	<5	<2	<2	322	.2	<2	<2	8	36.71	.026	3	6	.28	12	.01	<3	.23	<.01	.05	<2	2
EC96 S-10	10	18	104	7	56	.4	7	18	681	3.00	18	<5	<2	2	153	<.2	<2	2	43	7.02	.120	9	7	.56	20	.09	17	1.06	.03	.09	8	23
EC96 S-11	11	1	12	5	22	<.3	4	1	98	.31	6	<5	<2	<2	390	.3	<2	<2	4	38.41	.014	<1	4	.28	6	.01	3	.15	<.01	.08	2	2
EC96 S-12	12	2	64	5	68	<.3	6	10	684	2.60	16	<5	<2	2	189	<.2	<2	<2	43	13.55	.101	9	6	.71	12	.06	4	1.24	.02	.06	2	10
RE EC96 S-12		2	60	4	66	<.3	6	10	689	2.56	14	<5	<2	2	188	.3	<2	<2	44	13.28	.103	9	6	.73	13	.06	4	1.27	.02	.06	3	9
EC96 S-13	13	1	57	3	19	.3	7	6	144	.85	12	<5	<2	<2	441	.4	<2	<2	9	35.12	.038	3	5	.08	5	.04	49	.30	.01	.01	8	18
EC96 S-14	14	<1	13	<3	17	<.3	5	2	308	.34	4	<5	<2	<2	95	.2	<2	<2	16	28.95	.019	3	4	.10	3	.03	13	.28	.01	.02	7	1
EC96 S-15	15	2	67	14	36	<.3	9	5	143	.78	18	<5	<2	<2	433	.3	<2	<2	11	31.20	.027	3	8	.13	10	.03	79	.28	<.01	.03	2	2
EC96 S-16	16	27	326	4	21	<.3	7	13	560	1.75	5	<5	<2	<2	134	<.2	<2	<2	81	9.57	.129	2	18	.25	17	.13	3	.79	.01	.03	10	4
EC96 S-17	17	1	319	6	17	<.3	3	23	410	2.10	7	<5	<2	<2	248	<.2	<2	2	92	6.98	.339	4	6	.14	9	.17	<3	1.13	.01	.01	17	5
EC96 S-18	18	1	77	4	7	<.3	3	5	637	.81	5	<5	<2	<2	94	.3	<2	<2	29	16.98	.092	2	6	.25	22	.06	337	.40	<.01	.02	11	1
EC96 S-19	19	6	730	6	21	3.0	9	44	382	4.31	98	<5	<2	<2	150	.5	<2	<2	66	4.09	.216	7	4	.53	30	.13	6	1.27	.02	.06	24	6
EC96 S-20	20	1	297	8	36	.5	14	18	895	3.07	17	<5	<2	<2	139	.5	<2	<2	63	13.78	.100	4	12	.78	26	.07	10	.97	.01	.08	7	8
EC96 S-21	21	1	235	5	21	.4	7	22	643	2.39	8	<5	<2	<2	161	.3	<2	<2	88	8.98	.274	6	6	.35	23	.13	3	1.00	.01	.06	12	7
EC96 S-22	22	6	738	23	32	.6	9	35	572	4.80	27	<5	<2	<2	123	.2	<2	<2	75	5.28	.138	5	8	1.26	26	.10	3	1.49	.02	.12	10	8
EC96 S-23	23	6	125	13	24	<.3	12	11	423	1.62	6	<5	<2	<2	51	<.2	<2	<2	35	3.03	.033	3	24	.47	11	.03	<3	.42	.01	.10	24	4
EC96 S-24	24	11	747	4	16	.7	11	29	531	1.82	11	<5	<2	3	175	<.2	<2	<2	47	6.14	.121	5	9	.26	14	.13	<3	.57	<.01	.03	47	9
EC96 S-25	25	10	111	6	45	<.3	9	16	1316	2.06	4	<5	<2	7	195	.2	<2	<2	56	8.42	.089	6	11	.60	77	.12	<3	.70	.01	.23	10	4
EC96 S-26	26	2	99	13	57	.6	5	28	1342	4.93	7	<5	<2	3	506	.4	<2	<2	83	5.60	.150	18	4	.95	89	.01	3	1.39	.03	.27	2	5
EC96 S-27	27	1	127	20	24	1.5	6	17	1022	3.70	11	<5	<2	<2	569	.3	<2	<2	22	5.72	.091	5	3	.35	84	.01	3	.51	.03	.25	3	326
EC96 S-28	28	<1	155	7	68	.7	16	46	1290	5.93	8	<5	<2	<2	452	1.0	<2	<2	87	5.68	.143	2	19	2.03	98	.09	3	1.07	.03	.65	2	17
EC96 S-29	29	<1	103	<3	101	.8	16	23	1020	5.48	23	<5	<2	<2	84	.4	<2	<2	97	3.84	.053	11	18	1.98	31	<.01	<3	2.90	.01	.12	<2	15
EC96 S-30	30	1	148	10	126	3.0	19	24	1056	5.46	98	<5	<2	<2	95	.8	<2	<2	87	4.59	.050	10	17	1.64	34	<.01	<3	2.35	.01	.10	<2	56
EC96 S-31	31	<1	87	<3	108	1.0	14	19	1555	5.55	70	<5	<2	<2	103	.5	<2	<2	118	5.65	.104	14	15	1.47	27	.01	<3	2.25	.01	.07	<2	9
EC96 S-32	32	1	122	25	153	.8	23	24	848	5.20	31	<5	<2	<2	51	.2	<2	<2	120	3.15	.028	3	26	1.76	23	.28	<3	2.75	.02	.09	<2	6
EC96 S-33	33	<1	132	5	131	.7	21	33	1055	6.22	27	<5	<2	<2	34	<.2	<2	<2	113	.92	.090	5	20	1.98	36	.12	<3	3.27	.02	.13	<2	4
EC96 S-34	34	<1	22	5	32	<.3	5	4	712	.89	2	<5	<2	<2	168	.5	<2	<2	8	29.37	.036	1	3	.20	11	.02	<3	.24	.01	.04	4	2
EC96 S-35	35	1	13	8	32	<.3	4	2	490	.50	5	<5	<2	<2	137	.2	<2	<2	5	26.92	.031	4	4	.11	12	<.01	<3	.11	<.01	.01	5	1
EC96 S-36	36	2	129	4	26	<.3	10	11	403	1.40	77	<5	<2	<2	113	<.2	<2	<2	18	18.19	.052	1	7	.21	18	.05	4	.31	.01	.03	5	6
STANDARD C2/AU-S		20	61	41	139	6.9	72	36	1158	3.84	47	22	8	36	52	18.1	14	19	76	.55	.110	39	67	.94	201	.08	27	1.95	.06	.13	11	49

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



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
EC96 S-37-37	1	500	7	167	.3	10	14	468	2.12	20	<5	<2	<2	238	1.0	<2	<2	18	24.28	.056	1	4	.13	31	.04	61	.34	.01	.03	3	4
EC96 S-38-37	<1	97	6	34	.4	11	5	490	.63	6	6	<2	<2	232	.4	2	<2	8	23.88	.036	3	4	.12	106	.03	104	.22	.01	.03	2	1
RE EC96 S-38	<1	99	<3	36	.4	10	5	488	.63	4	<5	<2	<2	240	.3	2	<2	8	23.88	.036	3	3	.12	109	.03	101	.21	<.01	.01	3	1

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

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26-Apr-96

ECO-TECH LABORATORIES LTD.  
10041 East Trans Canada Highway  
KAMLOOPS, B.C.  
V2C 6T4

D. DUGUAY AK 96-247  
Box 138  
BARRIERE, BC  
V0E 10E

No. of samples received: 1  
Sample type: Rock  
PROJECT #: none given  
SHIPMENT #: none given  
Samples submitted by: Dave Duguay

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al%	As	Ba	Bi	Ca%	Cd	Co	Cr	Cu	Fe%	La	Mg%	Mn	Mo	Na%	Ni	P	Pb	Sb	Sn	Sr	Ti%	U	V	W	Y	Zn
45- 1	DQ-1	5	2.0	0.16	<5	20	20	0.05	<1	2	283	17	0.95	<10	0.09	42	4	0.02	7	40	10	<5	<20	10	<.01	<10	3	10	<1	<1

**QC DATA:**

**Resplit:**

R/S 1	DQ-1	5	1.0	0.12	<5	15	10	0.04	<1	2	273	15	0.80	<10	0.06	37	5	0.01	10	30	8	<5	<20	8	<.01	<10	2	10	<1	<1
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**Repeat:**

1	DQ-1	-	2.0	0.16	<5	20	15	0.05	<1	2	284	17	0.97	<10	0.09	48	4	0.02	9	40	10	<5	<20	9	<.01	<10	3	20	<1	<1
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**Standard:**

GEO'96	-	-	1.4	1.72	60	160	10	1.60	<1	18	60	78	3.82	<10	0.94	705	<1	0.01	25	620	18	<5	<20	56	0.11	<10	75	<10	5	68
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df/247  
XLS/96Kmisc.#2

  
ECO-TECH LABORATORIES LTD.  
Frank J. Pezzotti, A.Sc.T.  
B.C. Certified Assayer

29-Apr-96

ECO-TECH LABORATORIES LTD.  
10041 East Trans Canada Highway  
KAMLOOPS, B.C.  
V2C 6T4

Phone: 604-573-5700  
Fax : 604-573-4557

D. DUGUAY AK 96-260  
Box 138  
BARRERE, BC  
V0E 10E

No. of samples received: 3  
Sample type: Rock  
PROJECT #: None given  
SHIPMENT #: None given

Values in ppm unless otherwise reported

Map Sample #	Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
42	1	P.C. #1	165	6.2	0.23	10	30	<5	3.47	2	125	97	7366	10.6	<10	0.02	486	13	<0.01	23	520	4	<5	20	29	0.02	<10	22	<10	<1	23
43	2	P.C. #2	65	0.6	0.34	480	15	<5	2.01	<1	24	56	254	7.17	<10	0.04	173	7	0.02	10	1470	8	<5	20	95	0.08	<10	21	<10	<1	21
44	3	P.C. #3	10	0.2	0.49	<5	30	<5	8.19	<1	16	55	415	2.21	<10	0.38	535	4	0.01	4	2560	<2	<5	<20	164	0.05	<10	42	<10	2	13

QC DATA:

Resplit:

R/S 1	P.C. #1	165	5.8	0.23	<5	25	<5	3.49	1	117	103	6705	10.5	<10	0.02	472	18	<0.01	22	630	4	<5	20	28	0.02	<10	22	<10	<1	24
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Repeat:

1	P.C. #1	175	6.2	0.23	<5	25	<5	3.54	1	127	101	7290	10.9	<10	0.01	471	13	<0.01	22	560	2	<5	20	29	0.03	<10	22	<10	<1	24
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Standard:

GEO'96		150	1.2	1.64	75	165	<5	1.75	<1	17	54	76	3.82	<10	0.84	660	<1	<0.01	26	660	18	<5	<20	53	0.08	<10	70	<10	2	70
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9-May-96

ECO-TECH LABORATORIES LTD.  
10041 East Trans Canada Highway  
KAMLOOPS, B.C.  
V2C 6T4

D. DUGUAY AK 96-303  
Box 138  
BARRIERE, BC  
V0E 10E

No. of samples received: 3  
Sample type: Rock  
PROJECT #: none given  
SHIPMENT #: none given

Values in ppm unless otherwise reported

Sample #	Et #.	Tag #	Au(ppb)	Ag	Al%	As	Ba	Bi	Ca%	Cd	Co	Cr	Cu	Fe%	La	Mg%	Mn	Mo	Na%	Ni	P	Pb	Sb	Sn	Sr	Ti%	U	V	W	Y	Zn
46	1	RS02	55	2.4	1.12	45	30	<5	2.12	<1	48	75	4364	2.68	<10	0.78	261	1	0.02	42	1780	<2	10	<20	58	0.10	<10	30	<10	3	22
47	2	RS04	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	3	RS05	5	0.4	0.47	40	60	<5	0.96	<1	15	95	528	3.45	<10	0.15	120	2	0.04	7	1260	<2	<5	<20	87	0.22	<10	38	<10	4	10

**QC DATA:**

**Resplit:**

R/S 1	RS02	55	2.2	1.11	45	30	<5	2.07	<1	49	76	4196	2.65	<10	0.76	275	2	0.02	42	1760	<2	5	<20	59	0.10	<10	29	<10	3	21
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**Repeat:**

1	RS02	60	2.4	1.14	45	30	<5	2.14	<1	49	77	4412	2.70	<10	0.79	270	2	0.02	43	1780	<2	10	<20	59	0.10	<10	31	<10	3	22
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**Standard:**

GEO'96		150	1.2	1.60	60	175	<5	1.63	<1	20	64	80	3.85	<10	0.90	624	<1	0.01	22	710	18	5	<20	63	0.11	<10	80	<10	5	70
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df/286  
XLS/96Kmisc.

  
ECO-TECH LABORATORIES LTD.  
Frank J. Pezzotti, A.Sc.T.  
B.C. Certified Assayer

14-Jun-96

ECO-TECH LABORATORIES LTD.  
10041 East Trans Canada Highway  
KAMLOOPS, B.C.  
V2C 6T4

ICP CERTIFICATE OF ANALYSIS AK 96-453

D. DUGUAY  
BCX 138  
BARRIERE, B.C.  
V0E 10E

Phone: 604-573-5700  
Fax : 604-573-4557

No. of samples received: 2  
Sample type: Rock  
PROJECT #: None given  
Samples submitted by: D. Duguay

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn	
50 - 1	WT 022	120	0.4	0.45	20	215	<5	0.84	<1	20	157	50	5.84	<10	0.11	334	17	0.03	65	2430	12	<5	<20	137	<0.01	<10	13	<10	3	74	
50 - 2	WT024	130	0.6	0.29	<5	165	<5	4.23	<1	12	141	61	5.02	<10	1.00	950	12	0.02	39	1300	12	<5	<20	164	<0.01	<10	8	<10	<1	80	
<b>QC DATA:</b>																															
<b>Resplit:</b>																															
R/S 1	WT 022	130	<2	0.49	20	200	<5	0.78	<1	19	227	50	5.44	<10	0.07	302	20	0.03	68	2430	10	<5	<20	122	<0.01	<10	13	<10	4	69	
<b>Repeat:</b>																															
1	WT 022	115	0.2	0.45	20	220	<5	0.85	<1	20	168	49	5.85	<10	0.11	320	17	0.03	66	2450	12	<5	<20	130	<0.01	<10	13	<10	3	75	
<b>Standard:</b>																															
GEO'96		-	1.2	1.70	60	180	<5	1.88	<1	19	64	88	4.41	<10	1.04	758	<1	0.02	20	780	22	<5	<20	61	0.13	<10	84	<10	6	77	

df/451r  
XLS/96Kmisc.#3

per   
ECO-TECH LABORATORIES LTD.  
Frank J. Pezzotti, A.Sc.T.  
3.C. Certified Assayer