

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
MINISTRY OF ENERGY AND MINES
GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR: 1997/1998

REPORT #: PAP 97-11

NAME: RALPH KEEFE

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM

B. TECHNICAL REPORT

Name: Ralph R. Keefe Ref #: P-28

LOCATION/COMMODITIES-

Project Area: Bine Minfile #: n/a

Location of Area NTS: 93m8/w Lat: 55 25' Long: 125 15'

Description of location & access: frypan hills plus new road construction & log blocks North & West of Morrison Lk

Main Commodities Searched for: Cu. & Au & potential VMS

Known Mineral Occurrences in Project Area: Twin peak to S.E. & Morrison (Noranda) deposit to immediate South

.....
WORK PERFORMED-

1. Conventional prosp. road construction & logging to-date
2. Geological Mapping as per sketch map
3. Geochemical 5 rock samples - rd const. 3300 main
4. Geophysical nil
5. Physical Work nil
6. Drilling nil
7. Other _____

.....
SIGNIFICANT RESULTS- no significant mineralization found this past summer.

Commodities _____ Claim Name: _____
Location/Lat: _____ Long: _____ Elevation: _____

Best assay/sample type: _____

Description of mineralization, host rocks, anomalies:

Several porphyry o/c noted along new road const. on 3300 main. Roads 2200, 2300 & 2400 were all volcanic & sedimentary. Fine grain BFP dike in argillites sampled for minor sulphides present at 3-8 km on 3300 main. follow-up 98/99.

#

EXPENSE SHEETS

BINE PROJECT

AREA: Frypan Hills, plus other areas both West and North of Morrison Lake. (Updating new road construction and log blocks).

MAP: 93 M 8/W

LAT: 55 25'

LONG: 125 15'

COMM: Porphyry, Cu. & Au.

SCALE
1:50000

608T024

02451-53 incl
021497-021500

608T025

020

608G







Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: HUDSON BAY EXPLORATION & DEVELOPMENT CO. LTD.

405 - 470 GRANVILLE ST.
 VANCOUVER, BC
 V6C 1V5

Project: BINE PROJECT
 Comments: ATTN: GERRY BIDWELL

Page Number : 1-A
 Total Pages : 1
 Certificate Date: 22-OCT-97
 Invoice No. : 19746805
 P.O. Number :
 Account : T

CERTIFICATE OF ANALYSIS

A9746805

SAMPLE	PREP		Aa g/t	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
	CODE		FA+AA	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
021451	205	226	< 0.005	1.0	0.72	114	190	< 0.5	< 2	6.09	< 0.5	23	21	89	5.93	< 10	< 1	0.07	20	2.29	1705
021452	205	226	< 0.005	< 0.2	0.83	18	500	0.5	< 2	3.10	< 0.5	13	25	147	3.39	< 10	< 1	0.30	40	0.38	865
021453	205	226	< 0.005	4.0	0.90	156	70	< 0.5	< 2	5.46	< 0.5	24	17	33	6.01	< 10	< 1	0.12	30	2.15	2350
021499	205	226	0.500	74.8	0.17	>10000	10	< 0.5	< 2	0.35	67.0	14	36	574	>15.00	< 10	< 1	0.08	< 10	0.50	6620
021500	205	226	0.030	4.6	0.56	2350	50	< 0.5	< 2	3.28	1.5	9	29	39	3.82	< 10	< 1	0.21	< 10	0.87	1790
021501	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
021502	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
021503	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd

CERTIFICATION: _____



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 V6C 1V5

Page Number : 1-B
 Total Pages : 1
 Certificate Date: 22-OCT-97
 Invoice No. : 19746805
 P.O. Number :
 Account : T

Project : BINE PROJECT
 Comments: ATTN: GERRY BIDWELL

CERTIFICATE OF ANALYSIS A9746805

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
021451	205 226	1 < 0.01		22	1560	18	8	15	275	< 0.01	< 10	< 10	90	< 10	172
021452	205 226	3 < 0.01		9	1230	30	2	6	99	< 0.01	< 10	10	34	< 10	114
021453	205 226	1 < 0.01		22	1760	24	20	17	205	< 0.01	< 10	10	85	< 10	494
021499	205 226	< 1 < 0.01		6	180	26	128	3	25	< 0.01	< 10	< 10	9	< 10	>10000
021500	205 226	1 < 0.01		11	550	122	24	7	124	< 0.01	< 10	10	19	< 10	478
021501	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
021502	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
021503	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd

CERTIFICATION: _____



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VANCOUVER, BC
V6C 1V5

Project : BINE PROJECT
Comments: ATTN: GERRY BIDWELL

Page Number :1
Total Pages :1
Certificate Date: 22-OCT-97
Invoice No. : 19747458
P.O. Number :
Account : T

CERTIFICATE OF ANALYSIS	A9747458
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SAMPLE	PREP CODE	Zn %										
021499	244 --	1.38										

CERTIFICATION: _____

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM

B. TECHNICAL REPORT

Name: Ralph R. Keefe Ref #: P-28

LOCATION/COMMODITIES-

Project Area: M.R. Minfile #: n/a
Location of Area NTS: 93m2/E Lat: 55 11' Long: 126 41'

Description of location & access: 60 km N. of Smithers.
Access is 38 km on Smithers Landing Rd, thence 27 1/2 km on
the Nilkitwa road, thence 6 km to property on old logging
road.

Main Commodities Searched for: Cu. Au. Ag. VMS

Known Mineral Occurrences in Project Area: none

.....
WORK PERFORMED-

- 1. Conventional prosp. nil
- 2. Geological Mapping nil
- 3. Geochemical nil
- 4. Geophysical nil
- 5. Physical Work laid out grid for 5 short lines of EM
- 6. Drilling nil
- 7. Other

.....
SIGNIFICANT RESULTS- none at this time.

Commodities Claim Name:

Location/Lat: Long: Elevation:

Best assay/sample type:

Description of mineralization, host rocks, anomalies:

An additional 4 man days put in by crew of Hudson Bay Mining
to complete (5) short lines of EM over strike zone of past
drilling programs. Notice of work was applied for. Filing
of assessment and report to follow by H.B.M. Hopefull of
option in spring of 98.

#

EXPENSE SHEET

MR PROJECT

AREA: 60 km. North of Smithers on Smithers Landing Road. Thence
Northerly 27 1/2 km, on the Nilkitwa Road. Thence
Westerly 6 km. to property on old logging road.

MAP: 93 M 2/E

LAT: 55 11'

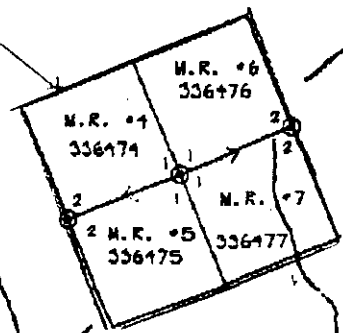
LONG: 126 41'

COMM: Epithermal, porphry Cu. & Ag.

93M/2E



- M.R. #4 - TAG # 701580M
- " #5 - " 665993M
- " #6 - " 665994M
- " #7 - " 665995M



BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM

B. TECHNICAL REPORT

Name: Ralph R. Keefe Ref #: P-28

LOCATION/COMMODITIES-

Project Area: Sib Minfile #: n/a
Location of Area NTS: 93E11/E Lat: 53 42' Long: 127 04'

Description of location & access: Thatsa reach (6km NE. of Huckleberry Mine). Approx 100 km S of Houston by H.F.P. main haul road.

Main Commodities Searched for: Cu. & Au & Ag.

Known Mineral Occurrences in Project Area: nil
Huckleberry mines close by.

.....
WORK PERFORMED-

1. Conventional prosp. new rd const. & winter log blocks
2. Geological Mapping nil
3. Geochemical nil
4. Geophysical nil
5. Physical Work nil
6. Drilling nil
7. Other

.....
SIGNIFICANT RESULTS- nil

Commodities Claim Name:
Location/Lat: Long: Elevation:

Best assay/sample type:

Description of mineralization, host rocks, anomalies:

All new roads & previous winter log blocks checked. Rock outcrops were all identifiable (sedimentary & volcanic). No assaying required because of no sulphides present. Further follow up of new roads & logging will be required in the 98 season.

#

EXPENSE SHEET

SIB PROJECT

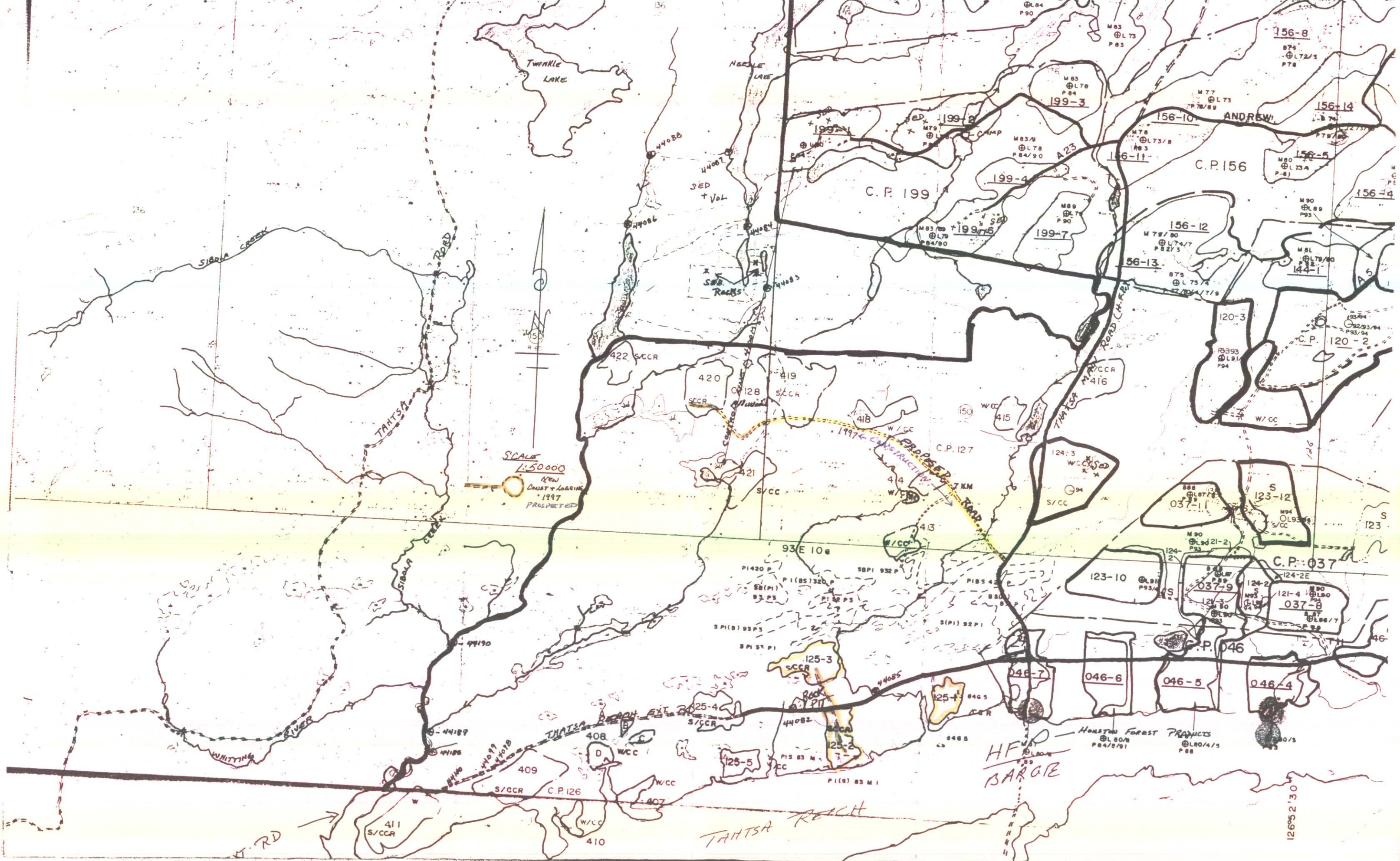
AREA: Thatsa Reach - 6 Km N.W. of Huckleberry Mine, Approx 100 Km
- Houston Forest Products main haul road.

MAP: 93 E

LAT: 53 42'

LONG: 127 04'

COMM: Epithermal & Porphyry Cu. Ag. Au.



SCALE
1:50 000
New
Contour & Logging
1997
PROSPECTED

HFB
BARGE
HONSTON FOREST PRODUCTS
BL 80/8
P84/E/91
BL 80/4/5
P88

126°52'30"

156-8

156-14

C.P. 156

C.P. 199

199-3

199-4

199-7

199-2

199-5

156-12

156-11

ANDREW

156-14

156-5

144-1

120-3

C.P. 120-2

422 SCCR

420 SCCR

419 SCCR

418

421

413

124-3

037-11

123-12

123

93E 10e

123-10

037-9

124-2E

46

C.P. 046

046-5

046-6

046-4

046-7

125-3

125-4

125-5

409

408

410

C.P. 126

411 S/CCR

S/CCR

W/CC

W/CC

W/CC

W/CC

W/CC

W/CC

W/CC

W/CC

W/CC

W/CC

W/CC

SIBIRA CREEK

SIBIRA ROAD

TANTSA

SIBIRA CREEK

WHITTING RIVER

TANTSA RIVER

TANTSA RIVER

PROPOSED ROAD

HFB

BARGE

H. RD

TANTSA RIVER

HONSTON FOREST PRODUCTS
BL 80/8
P84/E/91
BL 80/4/5
P88



BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM

B. TECHNICAL REPORT

Name: Ralph R. Keefe Ref #: P-28

LOCATION/COMMODITIES-

Project Area: Thautil Minfile #: n/a
Location of Area NTS: 93L6/w Lat: 54 19' Long: 127 24'

Description of location & access: Gabriel Creek - upper
Thautil River watershed (N of Morice River) 86 km.

Main Commodities Searched for: epithermal & porphyry deposits

Known Mineral Occurrences in Project Area: nil

WORK PERFORMED-

1. Conventional prosp. followup of previous sampling & mapping
2. Geological Mapping as per sketch map
3. Geochemical nil
4. Geophysical nil
5. Physical Work nil
6. Drilling nil
7. Other rock sampling of new found outcrop & extending of
known veins.

SIGNIFICANT RESULTS-

Commodities _____ Claim Name: _____
Location/Lat: _____ Long: _____ Elevation: _____

Best assay/sample type: _____

Description of mineralization, host rocks, anomalies:

A new outcrop with scattered Cu. mineralization through-
out found in andsitic volcanics along South side of main
creek. Ore grades can be taken across 42 metres, however,
much lower grade would be obtained if taking a chip
sample. Appears to be a typical low grade Cu. showing in
an intruded volcanic of questionable continuity. All
mineralization found appears to be controlled by the
creek which is an apparent fault zone.

#

EXPENSE SHEET

THAUTIL PROJECT

AREA: Gabriel Creek - Upper Thautil River watershed (North of
Morice River).

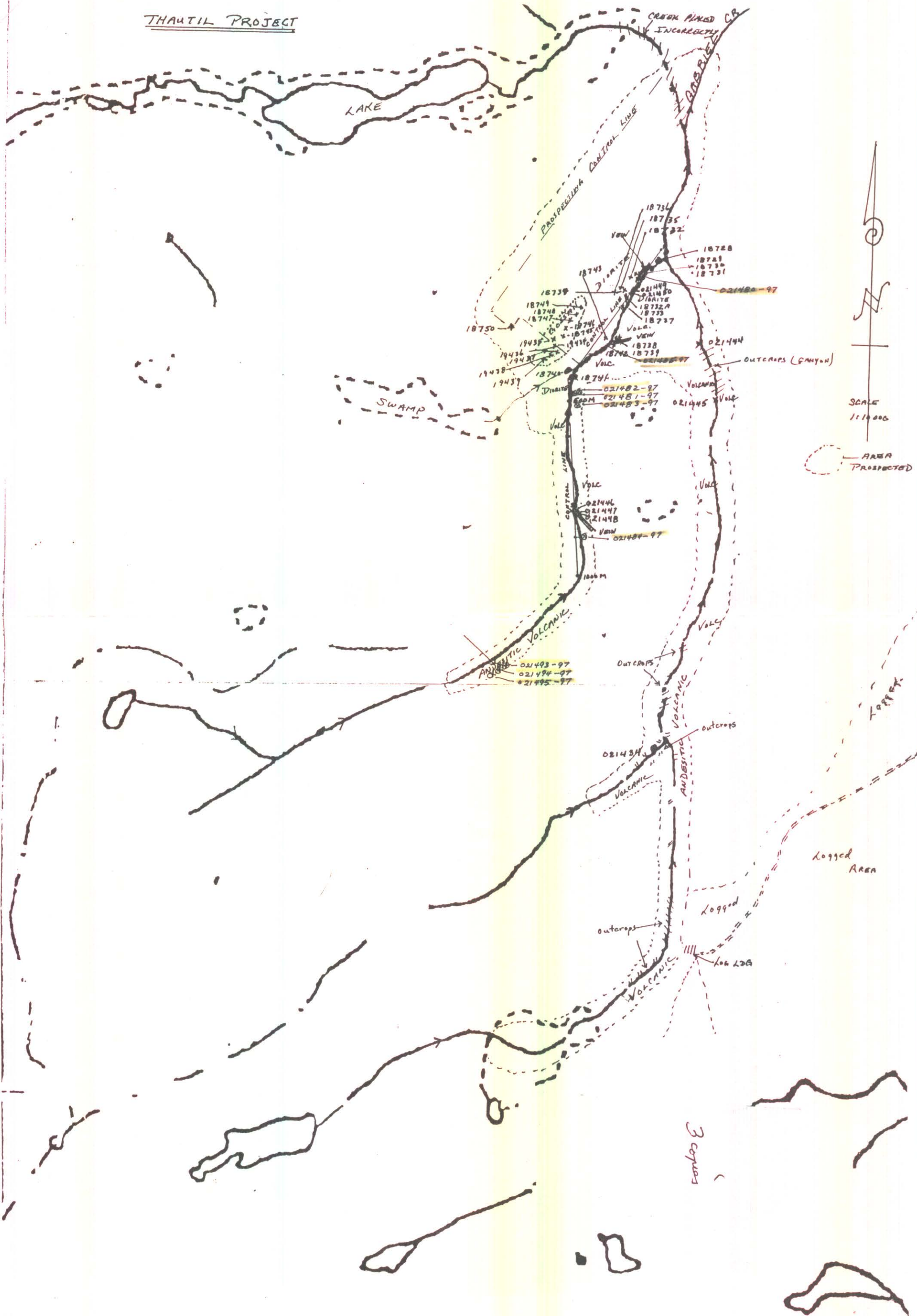
MAP: 93L 6/W

LAT: 54 19'

LONG: 127 24'

COMM: Epithermal Cu. & Au.

THAUTIL PROJECT





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VANCOUVER, BC
V6C 1V5

Page Number : 1-A
Total Pages : 1
Certificate Date: 29-SEP-97
Invoice No. : 19743384
P.O. Number :
Account : T

Project : THAUTIL
Comments: ATTN: G. BIDWELL CC: R.R. KEEFE ✓

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9743384

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
021480	205 226	45	12.4	1.55	400	10	< 0.5	24	0.77	5.5	100	45	2100	11.10	< 10	< 1	0.25	< 10	0.48	645
021481	205 226	< 5	1.6	1.62	28	60	< 0.5	< 2	1.44	0.5	11	77	11	2.89	< 10	< 1	0.29	< 10	0.70	635
021482	205 226	< 5	0.4	2.06	80	80	< 0.5	< 2	0.13	< 0.5	87	76	14	7.42	< 10	< 1	0.17	< 10	0.98	1595
021483	205 226	45	2.6	5.49	124	50	< 0.5	< 2	0.07	< 0.5	431	15	54	>15.00	10	1	0.30	< 10	1.91	3290
021484	205 226	< 5	< 0.2	1.58	12	50	< 0.5	< 2	3.49	0.5	10	60	2	2.53	< 10	< 1	0.20	< 10	0.82	1195
021485	205 226	40	2.4	1.45	362	50	< 0.5	2	0.10	0.5	46	92	427	8.08	< 10	< 1	0.32	< 10	0.36	1180
021493	205 226	55	5.0	0.72	22	40	< 0.5	Intf*	0.71	2.0	6	53	>10000	2.67	< 10	< 1	0.15	10	0.25	605
021494	205 226	20	1.0	0.61	2	50	< 0.5	< 2	0.91	2.0	6	54	8750	2.78	< 10	< 1	0.14	10	0.17	980
021495	205 226	15	3.0	2.53	8	80	0.5	< 2	0.37	0.5	27	58	8070	7.40	10	< 1	0.33	< 10	1.05	1820

CERTIFICATION: _____

* INTERFERENCES: Cu on Bi and P



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Page Number : 1-B
 Total Pages : 1
 Certificate Date: 29-SEP-97
 Invoice No. : 19743384
 P.O. Number :
 Account : T

Project : THAUTIL
 Comments: ATTN: G. BIDWELL CC:R.R. KEEFE

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9743384

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
021480	205 226	37	0.01	7	440	66	< 2	3	7	< 0.01	< 10	< 10	20	< 10	508
021481	205 226	5	0.01	5	440	140	< 2	2	9	< 0.01	< 10	< 10	24	< 10	180
021482	205 226	35	0.01	7	450	18	< 2	7	8	< 0.01	< 10	< 10	70	< 10	120
021483	205 226	< 1	< 0.01	17	570	36	2	6	4	< 0.01	< 10	< 10	68	< 10	292
021484	205 226	1	0.01	3	530	2	< 2	4	20	< 0.01	< 10	< 10	21	< 10	154
021485	205 226	9	< 0.01	4	470	32	4	2	2	0.01	< 10	< 10	19	< 10	132
021493	205 226	1	0.04	1	Intf*	516	< 2	4	7	0.02	< 10	< 10	13	< 10	202
021494	205 226	1	0.03	1	220	10	< 2	5	7	0.03	< 10	< 10	13	< 10	200
021495	205 226	< 1	< 0.01	9	280	34	2	9	7	< 0.01	< 10	< 10	62	< 10	954

CERTIFICATION: _____

* INTERFERENCES: Cu on Bi and P



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Page Number : 1
Total Pages : 1
Certificate Date: 01-OCT-97
Invoice No. : 19744621
P.O. Number :
Account : T

Project : THAUTIL ✓
Comments: ATTN: G. BIDWELL CC:R.R. KEEFE

CERTIFICATE OF ANALYSIS

A9744621

SAMPLE	PREP CODE	Cu %									
021493	244 --	1.14									

RECEIVED
OCT 02 1997
RESERVED

CERTIFICATION: _____

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM

B. TECHNICAL REPORT

Name: Ralph R. Keefe Ref #: P-28

LOCATION/COMMODITIES-

Project Area: Troit Minfile #: n/a
Location of Area NTS: 93E 11 Lat: 53 33' Long: 127 05'

Description of location & access: helicopter required.

Main Commodities Searched for: Epithermal Au.

Known Mineral Occurrences in Project Area: adjacent claims
Cummins South M.C.

.....
WORK PERFORMED-

1. Conventional prosp. Project had to be abandoned.
2. Geological Mapping nil
3. Geochemical nil
4. Geophysical nil
5. Physical Work nil
6. Drilling nil
7. Other _____

.....
SIGNIFICANT RESULTS- no significant mineralization found
this past summer.

Commodities _____ Claim Name: _____
Location/Lat: _____ Long: _____ Elevation: _____

Best assay/sample type: _____

Description of mineralization, host rocks, anomalies:

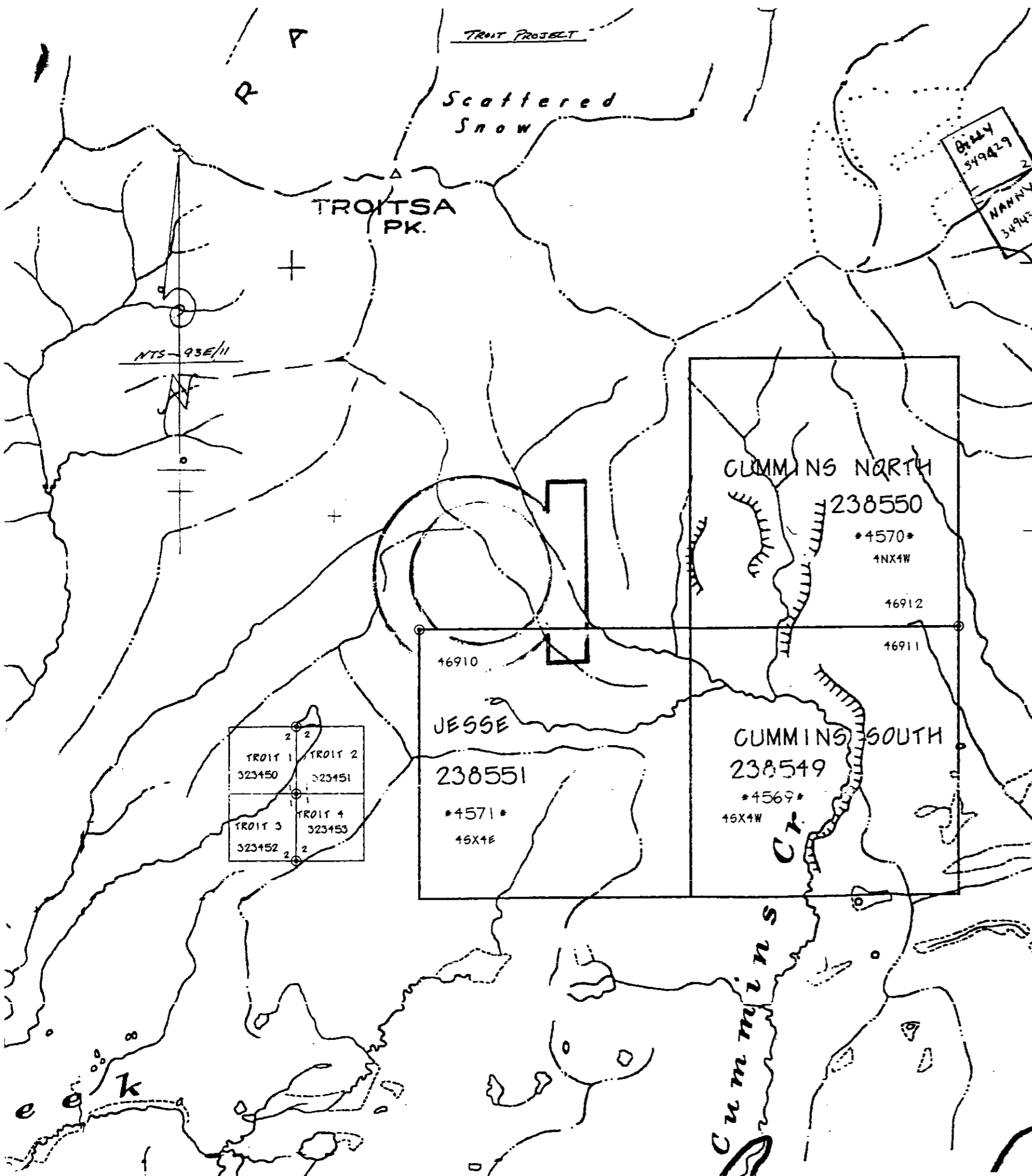
Unfortunately, the Troit project had to be abandoned for
cost reasons. Work was to have been done in conjunction
with a drilling program by Sand River Resources.
Aberdeen Helicopters kept post-poning flying until it was
too late in the season. To fly from Houston or Burns Lake
was not economically feasible. Hopefully the Hagen
project will be taken as an alternate.
* please refer to additional comments on expense sheet.

EXPENSE SHEET

TROIT PROJECT

Project had to be andoned due to excessive transportaion helicopter) cost. Project was originally scheduled with the proposed drilling project by Sand River Resources N.E. of Ear Lake. Aberdeen Helicopter in Prince George had been tenatively hired o do the work. I am on the understanding that Sand River Resources had to abort or post-pone their program due to lack of funding.

Through joint funding with Sand River Resources the flying necessary to complete the work on the Troit would have been 1.2 hours or \$900.00. To carry out the Troit project by itself from either Hcouston or Burns Lake by (Northern Mountain Helicopter or Westland Helicopters was in excess of \$3000.00.



MINERAL TENURE

MINERAL CLAIM	—————
MINERAL LEASE	—————
INDUSTRIAL MINERAL CLAIM	- - - - -
CLAIM NAME	EXAMPLE
TITLE NUMBER	345679
OLD TITLE NUMBER	*3456*
TAG NUMBER	100000
LEGAL POST	⊙
WITNESS POST	⊙
FORFEITED TENURE	C
VERIFIED	VER
SURVEYED	SUR
REVERTED C.G. MINERAL CLAIM	REV CG OR RCG
CROWN GRANTED	C G
OPEN FOR STAKING	O.F.S.

UNIT 1610.42 ft	2 POST CLAIM 1610.42 ft	OLD 2 POST CLAIM 1500 ft
25 ha 61.78 ac	25 ha 61.78 ac	20.90 ha 51.65 ac
500 m	500 m	457.2 m

THIS MAP IS PREPARED ONLY AS A GUIDE TO THE LOCATION OF MINERAL TENURE AS SHOWN ON THE LOCATOR'S SKETCHES. FOR CURRENT OR MORE SPECIFIC INFORMATION, APPLICATION SHOULD BE MADE TO THE MINING DIVISION CONCERNED.

093E14W	093E14E	093E15W
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BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM

B. TECHNICAL REPORT

Name: Ralph R. Keefe Ref #: P-28

LOCATION/COMMODITIES-

Project Area: Totem Minfile #: Totem # 199
Location of Area NTS: 93L9 & 93L16
Lat: 54 44' Long: 126 10'

Description of location & access: Approx 11 km S. of Topley Landing. Accessed by H.F.P. log dump road taking off on the East side of the road. Side road for approx 8 kms, thence by foot for another 2 1/2 hours.

Main Commodities Searched for: Cu. Au. & Mo.

Known Mineral Occurrences in Project Area: Known mineral occurrence totem #199 plus assessment report #2095.

WORK PERFORMED-

1. Conventional prosp. as per grid map attached to-date
2. Geological Mapping as per map attached
3. Geochemical 105 soil samples
4. Geophysical nil
5. Physical Work 2 rock samples
6. Drilling nil
7. Other nil

SIGNIFICANT RESULTS-

Commodities _____ Claim Name: _____
Location/Lat: _____ Long: _____ Elevation: _____

Best assay/sample type: _____

Description of mineralization, host rocks, anomalies:

Three significant anomalous Mo. zones confirmed. Additional fill in Geo-Chem lines were done to try and establish additional Cu. values. This however was quite disappointing. It is evident that 2 if not 3 of the Mo. anomalies warrant airborne geophysics if and when market warrants.

#

EXPENSE SHEET

TOTEM PROJECT

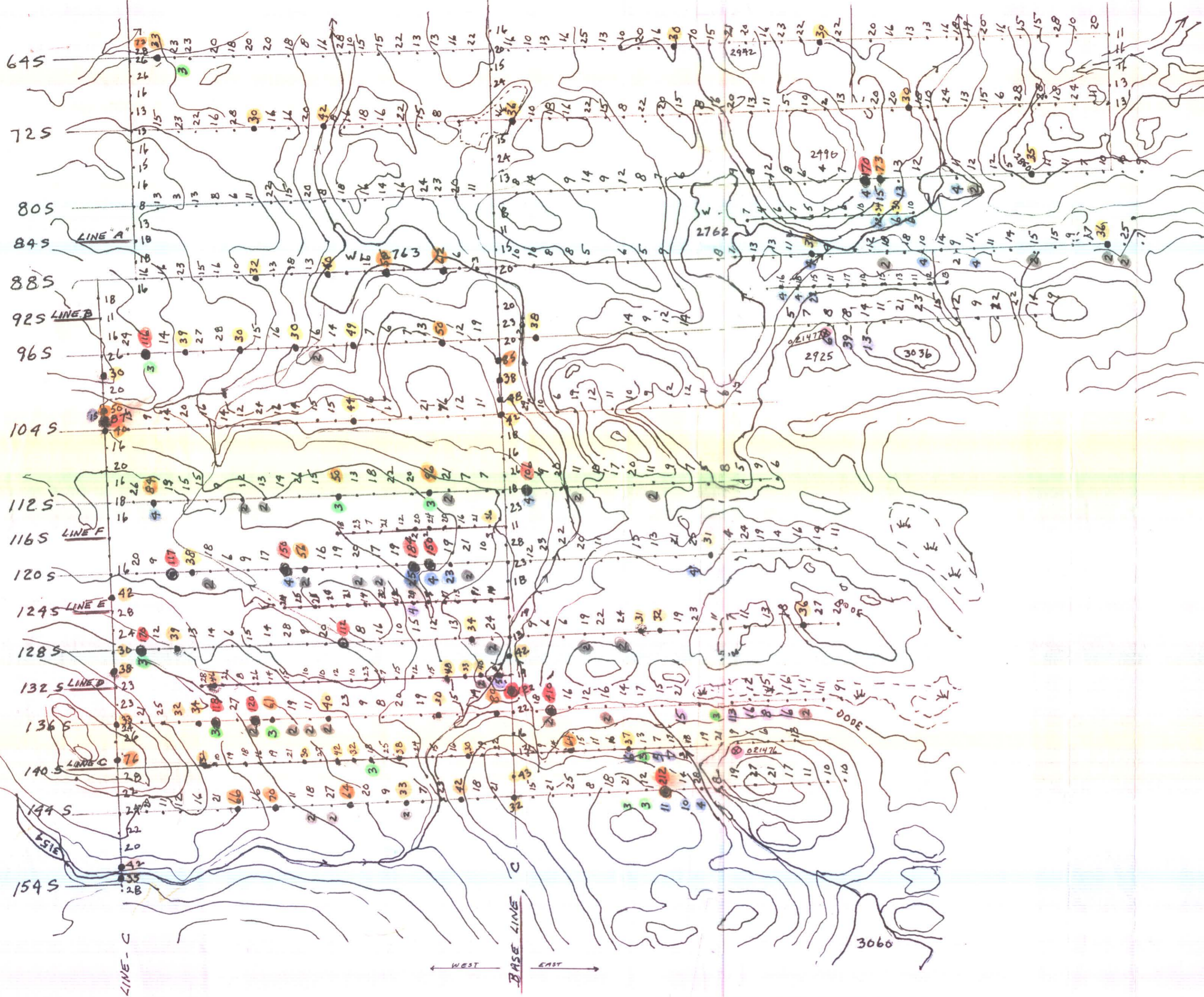
AREA: Aprox. 10km South of Topley Landing, West side of Babine Lake.

MAP: 93L9 & 93L16

LAT: 54 44'

LONG: 126 10'

COMM: Porphyry Cu. Mo. Au.



725



TOTEM PROJECT

SCALE 1:10000

GEOCHEM VALUES

<u>CU</u> 16 PPM	0
MO 0 PPM	PPM MO

COPPER 31-50 PPM ●
 50-100 ✓ ●
 >100 ✓ ●

MOLYBDENUM
 ZERO PPM UNLESS
 2 PPM ●
 3 ✓ ●
 4 ✓ +OVER ●+

● ROCK SAMPLE

REF-ASS RPTS 2094, 2095, 2727

ADDITIONAL GEOCHEM DONE ON
 LINES A-845, B-925, C-1445-E+W
 OF BASE LINE C, D-1325, E-1245, F-1165

R. KREEE Nov 25/92



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: HUDSON BAY EXPLORATION & DEVELOPMENT CO. LTD.
 405 - 470 GRANVILLE ST.
 VANCOUVER, BC
 V6C 1V5

Page Number :1-A
 Total Pages :1
 Certificate Date: 24-AUG-97
 Invoice No. :19738401
 P.O. Number :
 Account :T

Project : TOTEM
 Comments: ATTN: GERRY BIDWELL CC: RALPH R. KEEFE

Rock Samples

CERTIFICATE OF ANALYSIS A9738401

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
			FA+AA																		
021476	205	226	< 5	< 0.2	2.41	< 2	60	< 0.5	< 2	1.41	< 0.5	26	59	73	7.23	< 10	< 1	0.04	< 10	1.95	1020
021477	205	226	< 5	0.6	0.04	< 2	30	< 0.5	102	0.04	< 0.5	< 1	196	108	0.32	< 10	< 1	0.01	< 10	0.02	25

Chemex Survey Branch
 (MEL)

JAN 08 1999

CERTIFICATION: *[Signature]*



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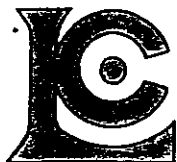
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CERTIFICATE OF ANALYSIS

A9738401

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
021476	205	226	< 1	< 0.01	17	1090	< 2	< 2	6	68	0.34	< 10	< 10	192	< 10	100
021477	205	226	902	< 0.01	4	20	88	< 2	< 1	3	< 0.01	< 10	< 10	3	< 10	2

CERTIFICATION: _____



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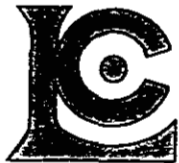
Project : TOTEM
 Comments: ATTN: GERRY BIDWELL CC: RALPH R. KEEFE

SOIL SAMPLES

CERTIFICATE OF ANALYSIS A9738409

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
A+000E	201 202	< 5	< 0.2	1.58	6	140	< 0.5	< 2	0.22	< 0.5	7	18	7	3.25	< 10	< 1	0.05	< 10	0.32	505
A+050E	201 202	5	< 0.2	1.72	< 2	140	< 0.5	< 2	0.24	< 0.5	7	15	4	2.43	10	< 1	0.04	10	0.59	540
A+100E	201 202	< 5	< 0.2	1.63	2	120	< 0.5	< 2	0.27	< 0.5	6	16	6	2.28	< 10	< 1	0.04	< 10	0.39	295
A+150E	201 202	< 5	< 0.2	1.28	8	100	< 0.5	< 2	0.27	< 0.5	6	13	7	2.14	< 10	< 1	0.04	< 10	0.25	270
A+200E	201 202	< 5	< 0.2	1.37	2	160	< 0.5	< 2	0.41	< 0.5	5	14	5	2.08	< 10	< 1	0.05	< 10	0.38	380
A+250E	201 202	< 5	< 0.2	1.22	6	110	< 0.5	< 2	0.28	< 0.5	6	16	7	2.64	< 10	< 1	0.03	< 10	0.41	410
A+300E	201 202	< 5	< 0.2	0.94	2	140	< 0.5	< 2	0.27	< 0.5	5	12	6	2.17	< 10	< 1	0.05	< 10	0.21	405
A+350E	201 202	< 5	< 0.2	1.24	4	180	< 0.5	< 2	0.27	< 0.5	6	14	10	2.55	< 10	< 1	0.03	< 10	0.28	240
A+400E	201 202	< 5	< 0.2	1.83	8	230	0.5	< 2	0.44	< 0.5	6	16	34	3.43	< 10	< 1	0.07	< 10	0.28	310
A+450E	201 202	< 5	< 0.2	1.63	10	130	< 0.5	< 2	0.23	< 0.5	8	17	30	3.10	< 10	< 1	0.03	10	0.39	570
A+500E	201 202	< 5	< 0.2	1.35	6	360	< 0.5	< 2	0.23	0.5	10	16	10	3.45	< 10	< 1	0.04	< 10	0.24	1235
B+100E	201 202	< 5	< 0.2	1.50	8	170	< 0.5	< 2	0.25	< 0.5	9	21	16	3.27	< 10	< 1	0.04	< 10	0.54	700
B+150E	201 202	< 5	< 0.2	1.49	10	150	< 0.5	< 2	0.24	< 0.5	8	18	18	3.16	< 10	< 1	0.04	< 10	0.39	360
B+200E	201 202	5	< 0.2	0.74	6	180	< 0.5	< 2	0.39	< 0.5	5	12	15	2.37	< 10	< 1	0.06	< 10	0.15	965
B+250E	201 202	< 5	< 0.2	1.32	10	270	< 0.5	< 2	0.26	< 0.5	8	16	11	2.75	< 10	< 1	0.05	< 10	0.27	1100
B+300E	201 202	< 5	< 0.2	1.44	10	170	< 0.5	< 2	0.31	< 0.5	8	16	17	2.98	< 10	< 1	0.05	< 10	0.34	535
B+350E	201 202	< 5	< 0.2	1.61	6	290	< 0.5	< 2	0.27	< 0.5	7	16	10	3.04	< 10	< 1	0.04	< 10	0.28	735
B+400E	201 202	< 5	< 0.2	1.86	14	230	< 0.5	< 2	0.24	< 0.5	8	18	15	3.23	< 10	< 1	0.05	< 10	0.37	460
B+450E	201 202	< 5	< 0.2	1.31	10	90	< 0.5	< 2	0.27	< 0.5	6	16	13	3.19	< 10	< 1	0.03	< 10	0.32	245
B+500E	201 202	< 5	< 0.2	1.50	10	150	< 0.5	< 2	0.27	< 0.5	7	16	11	3.13	< 10	< 1	0.04	< 10	0.30	245
B+550E	201 202	< 5	< 0.2	0.78	4	90	< 0.5	< 2	0.27	< 0.5	4	11	12	2.30	< 10	< 1	0.04	< 10	0.23	230
B+600E	201 202	< 5	< 0.2	1.34	12	120	< 0.5	< 2	0.17	< 0.5	7	14	13	2.67	< 10	< 1	0.03	< 10	0.31	230
CA+050E	201 202	10	< 0.2	1.71	8	130	< 0.5	< 2	0.15	< 0.5	7	14	17	2.88	< 10	< 1	0.03	< 10	0.27	255
CA+100E	201 202	30	< 0.2	1.58	4	190	< 0.5	< 2	0.19	< 0.5	7	14	9	2.80	< 10	< 1	0.03	< 10	0.21	580
CA+150E	201 202	< 5	< 0.2	1.67	8	130	< 0.5	< 2	0.22	< 0.5	8	16	14	3.19	< 10	< 1	0.03	< 10	0.29	475
CA+200E	201 202	< 5	< 0.2	1.69	10	330	0.5	< 2	0.50	< 0.5	6	21	64	3.01	< 10	< 1	0.05	20	0.34	940
CA+250E	201 202	< 5	< 0.2	1.55	10	120	< 0.5	< 2	0.20	< 0.5	7	16	15	3.16	< 10	< 1	0.03	< 10	0.25	350
CA+300E	201 202	< 5	< 0.2	1.59	10	140	< 0.5	< 2	0.20	< 0.5	6	16	11	3.08	< 10	< 1	0.04	< 10	0.31	190
CA+350E	201 202	< 5	< 0.2	1.62	10	200	< 0.5	< 2	0.23	< 0.5	9	17	16	3.05	< 10	< 1	0.03	< 10	0.32	470
CA+400E	201 202	10	< 0.2	2.36	12	270	0.5	< 2	0.52	< 0.5	8	25	37	3.77	< 10	< 1	0.06	10	0.45	600
CA+450E	201 202	< 5	< 0.2	1.62	4	80	< 0.5	< 2	0.13	< 0.5	4	14	13	2.67	< 10	< 1	0.02	< 10	0.26	155
CA+500E	201 202	< 5	< 0.2	1.50	4	250	< 0.5	< 2	0.29	< 0.5	6	16	7	3.14	< 10	< 1	0.05	< 10	0.22	285
CA+550E	201 202	50	< 0.2	2.05	12	90	< 0.5	< 2	0.11	< 0.5	6	16	17	3.45	< 10	< 1	0.03	< 10	0.29	240
CA+600E	201 202	5	< 0.2	1.90	10	120	< 0.5	< 2	0.16	< 0.5	7	17	18	3.22	< 10	< 1	0.03	< 10	0.31	235
CA+650E	201 202	< 5	< 0.2	2.14	6	200	0.5	< 2	0.28	< 0.5	8	19	19	3.08	< 10	< 1	0.03	< 10	0.39	975
CA+700E	201 202	10	< 0.2	2.13	10	210	0.5	< 2	0.26	< 0.5	8	18	21	3.48	< 10	< 1	0.05	< 10	0.34	400
CA+750E	201 202	10	< 0.2	2.10	2	140	0.5	< 2	0.32	< 0.5	8	16	9	2.65	< 10	< 1	0.07	< 10	0.31	505
CA+800E	201 202	5	< 0.2	1.61	2	70	< 0.5	< 2	0.09	< 0.5	1	5	1	0.89	< 10	< 1	0.07	< 10	0.16	295
CA+850E	201 202	15	< 0.2	0.55	< 2	100	< 0.5	< 2	0.38	< 0.5	3	9	6	1.66	< 10	< 1	0.07	< 10	0.12	280
CA+950E	201 202	5	< 0.2	1.94	10	80	< 0.5	< 2	0.31	< 0.5	6	16	13	2.97	< 10	< 1	0.05	< 10	0.49	290

CERTIFICATION: *H. R. Pouchler*



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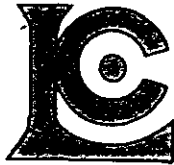
Project : TOTEM
 Comments : ATTN: GERRY BIDWELL CC: RALPH R. KEEFE

CERTIFICATE OF ANALYSIS A9738409

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
A+000E	201 202	< 1	< 0.01	11	350	8	< 2	3	39	0.08	< 10	< 10	68	< 10	76
A+050E	201 202	< 1	< 0.01	9	680	6	< 2	3	33	0.06	< 10	< 10	47	< 10	104
A+100E	201 202	< 1	< 0.01	8	1020	8	< 2	3	22	0.05	< 10	< 10	47	< 10	74
A+150E	201 202	< 1	< 0.01	9	840	6	< 2	3	22	0.05	< 10	< 10	45	< 10	78
A+200E	201 202	< 1	< 0.01	9	1360	6	< 2	3	34	0.05	< 10	< 10	40	< 10	128
A+250E	201 202	< 1	< 0.01	10	710	2	< 2	3	23	0.05	< 10	< 10	53	< 10	78
A+300E	201 202	< 1	< 0.01	7	690	6	< 2	2	19	0.04	< 10	< 10	40	< 10	66
A+350E	201 202	< 1	< 0.01	10	280	8	< 2	3	20	0.04	< 10	< 10	46	< 10	58
A+400E	201 202	12	< 0.01	11	3240	8	< 2	3	30	0.01	< 10	< 10	50	< 10	180
A+450E	201 202	6	< 0.01	15	900	6	< 2	4	20	0.03	< 10	< 10	51	< 10	92
A+500E	201 202	6	< 0.01	8	2320	12	< 2	3	21	0.03	< 10	< 10	59	< 10	242
B+100E	201 202	4	< 0.01	13	720	8	< 2	3	23	0.04	< 10	< 10	61	< 10	76
B+150E	201 202	4	< 0.01	12	380	8	< 2	4	27	0.05	< 10	< 10	61	< 10	56
B+200E	201 202	22	< 0.01	6	860	8	< 2	2	28	0.04	< 10	< 10	46	< 10	92
B+250E	201 202	1	< 0.01	11	1410	6	< 2	3	30	0.05	< 10	< 10	50	< 10	180
B+300E	201 202	< 1	< 0.01	11	1540	8	< 2	4	27	0.05	< 10	< 10	54	< 10	90
B+350E	201 202	< 1	< 0.01	9	2700	6	< 2	3	28	0.04	< 10	< 10	53	< 10	140
B+400E	201 202	< 1	< 0.01	18	1610	8	< 2	4	24	0.05	< 10	< 10	60	< 10	80
B+450E	201 202	1	< 0.01	11	610	6	< 2	3	24	0.05	< 10	< 10	57	< 10	58
B+500E	201 202	1	< 0.01	11	1740	10	< 2	3	27	0.04	< 10	< 10	56	< 10	82
B+550E	201 202	< 1	< 0.01	6	750	8	< 2	2	26	0.04	< 10	< 10	42	< 10	72
B+600E	201 202	< 1	< 0.01	12	820	6	< 2	3	18	0.04	< 10	< 10	46	< 10	66
CA+050E	201 202	1	< 0.01	10	770	6	< 2	3	15	0.04	< 10	< 10	52	< 10	64
CA+100E	201 202	< 1	< 0.01	9	1280	6	< 2	3	17	0.04	< 10	< 10	53	< 10	84
CA+150E	201 202	< 1	< 0.01	11	520	6	< 2	3	21	0.06	< 10	< 10	63	< 10	70
CA+200E	201 202	1	0.01	15	270	6	< 2	10	51	0.05	< 10	< 10	57	< 10	54
CA+250E	201 202	1	< 0.01	9	570	6	< 2	3	22	0.06	< 10	< 10	62	< 10	66
CA+300E	201 202	1	< 0.01	11	550	4	< 2	3	24	0.06	< 10	< 10	62	< 10	58
CA+350E	201 202	< 1	< 0.01	11	1000	8	< 2	4	24	0.05	< 10	< 10	57	< 10	84
CA+400E	201 202	6	0.01	15	590	6	< 2	13	63	0.05	< 10	< 10	63	< 10	120
CA+450E	201 202	3	< 0.01	6	1250	10	< 2	3	16	0.04	< 10	< 10	52	< 10	60
CA+500E	201 202	5	< 0.01	6	2270	8	< 2	3	30	0.04	< 10	< 10	57	< 10	108
CA+550E	201 202	7	< 0.01	9	1190	8	< 2	3	13	0.04	< 10	< 10	60	< 10	72
CA+600E	201 202	3	< 0.01	10	920	8	< 2	3	16	0.04	< 10	< 10	60	< 10	66
CA+650E	201 202	1	< 0.01	13	410	10	< 2	4	29	0.05	< 10	< 10	58	< 10	76
CA+700E	201 202	1	< 0.01	12	690	8	< 2	4	32	0.04	< 10	< 10	64	< 10	88
CA+750E	201 202	1	< 0.01	8	820	14	< 2	3	36	0.04	< 10	< 10	54	< 10	112
CA+800E	201 202	< 1	< 0.01	1	250	2	< 2	1	8	0.01	< 10	< 10	20	< 10	40
CA+850E	201 202	1	< 0.01	3	210	4	< 2	2	38	0.06	< 10	< 10	41	< 10	52
CA+950E	201 202	< 1	< 0.01	10	990	8	< 2	4	28	0.06	< 10	< 10	66	< 10	66

CERTIFICATION:

[Handwritten signature]



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CERTIFICATE OF ANALYSIS A9738409

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
	FA+AA																				
CA-050W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-100W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-150W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-200W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-250W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-300W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-350W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-400W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-450W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-500W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-550W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-600W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-650W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-700W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-750W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-800W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-850W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-900W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-950W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-1000W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
D+0050W	201	202	< 5	0.2	1.99	18	320	0.5	< 2	0.75	< 0.5	9	24	81	4.40	< 10	< 1	0.08	10	0.49	2270
D+0100W	201	202	< 5	< 0.2	1.73	16	280	< 0.5	< 2	0.55	< 0.5	10	21	40	4.08	< 10	< 1	0.07	< 10	0.43	1710
D+0150W	201	202	10	< 0.2	1.75	14	290	< 0.5	< 2	0.83	< 0.5	10	21	33	4.06	< 10	< 1	0.06	10	0.48	1780
D+0200W	201	202	< 5	< 0.2	1.79	12	220	< 0.5	< 2	0.32	< 0.5	11	22	48	3.92	< 10	< 1	0.06	< 10	0.41	1135
D+0250W	201	202	< 5	< 0.2	1.69	10	170	< 0.5	< 2	0.22	< 0.5	10	25	15	4.33	< 10	< 1	0.05	< 10	0.43	1095
D+0300W	201	202	15	< 0.2	1.61	8	120	< 0.5	< 2	0.18	< 0.5	8	19	12	3.51	< 10	< 1	0.05	< 10	0.31	570
D+0350W	201	202	10	< 0.2	1.29	10	140	< 0.5	< 2	0.19	< 0.5	6	18	15	3.58	< 10	< 1	0.04	< 10	0.22	340
D+0400W	201	202	15	< 0.2	1.22	2	150	< 0.5	< 2	0.19	< 0.5	7	15	7	2.91	< 10	< 1	0.05	< 10	0.18	600
D+0450W	201	202	20	< 0.2	1.42	10	300	< 0.5	< 2	0.80	0.5	12	20	23	3.66	< 10	< 1	0.06	< 10	0.37	1715
D+0500W	201	202	< 5	< 0.2	1.05	6	130	< 0.5	< 2	0.21	< 0.5	6	13	10	2.61	< 10	< 1	0.03	< 10	0.16	250
D+0550W	201	202	< 5	< 0.2	1.46	12	200	< 0.5	< 2	0.24	< 0.5	8	15	12	3.22	< 10	< 1	0.04	< 10	0.26	770
D+0600W	201	202	< 5	< 0.2	1.07	6	160	< 0.5	< 2	0.24	< 0.5	4	12	10	2.47	< 10	< 1	0.03	< 10	0.17	195
D+0650W	201	202	20	< 0.2	1.17	6	130	< 0.5	< 2	0.25	< 0.5	5	15	10	2.72	< 10	< 1	0.03	< 10	0.26	175
D+0700W	201	202	< 5	< 0.2	1.26	10	140	< 0.5	< 2	0.28	< 0.5	6	16	15	2.55	< 10	< 1	0.03	< 10	0.37	255
D+0750W	201	202	< 5	< 0.2	1.18	6	110	< 0.5	< 2	0.30	< 0.5	5	15	14	2.24	< 10	< 1	0.03	< 10	0.37	195
D+0800W	201	202	< 5	< 0.2	1.50	6	220	< 0.5	< 2	0.45	< 0.5	6	19	26	3.07	< 10	< 1	0.04	10	0.39	375
D+0850W	201	202	< 5	< 0.2	1.00	8	120	< 0.5	< 2	0.27	< 0.5	5	15	8	2.30	< 10	< 1	0.03	< 10	0.35	295
D+0900W	201	202	< 5	< 0.2	1.55	20	130	< 0.5	< 2	0.29	< 0.5	10	20	22	4.26	< 10	< 1	0.04	< 10	0.42	450
D+0950W	201	202	< 5	< 0.2	2.12	14	290	< 0.5	< 2	0.60	< 0.5	8	23	46	3.62	< 10	< 1	0.05	10	0.45	490
D+1000W	201	202	< 5	< 0.2	1.53	14	180	< 0.5	< 2	0.47	< 0.5	7	20	28	3.11	< 10	< 1	0.05	< 10	0.46	410

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: HUDSON BAY EXPLORATION & DEVELOPMENT CO. LTD.

405 - 470 GRANVILLE ST.
 VANCOUVER, BC
 V6C 1V5

Project : TOTEM
 Comments: ATTN: GERRY BIDWELL CC: RALPH R. KEEFE

Page Number :2-B
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 Account :T

CERTIFICATE OF ANALYSIS

A9738409

SAMPLE	PREP		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
CA-050W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-100W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-150W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-200W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-250W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-300W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-350W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-400W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-450W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-500W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-550W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-600W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-650W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-700W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-750W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-800W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-850W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-900W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-950W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
CA-1000W	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
D+0050W	201	202	5	0.01	18	960	12	< 2	10	71	0.04	< 10	< 10	65	< 10	92
D+0100W	201	202	2	< 0.01	15	820	12	< 2	6	54	0.04	< 10	< 10	65	< 10	94
D+0150W	201	202	1	0.01	15	770	10	< 2	7	70	0.05	< 10	< 10	69	< 10	84
D+0200W	201	202	1	< 0.01	13	1340	14	< 2	5	25	0.06	< 10	< 10	76	< 10	222
D+0250W	201	202	< 1	< 0.01	12	850	10	< 2	4	20	0.08	< 10	< 10	95	< 10	138
D+0300W	201	202	< 1	< 0.01	9	1030	6	< 2	4	18	0.06	< 10	< 10	73	< 10	132
D+0350W	201	202	< 1	< 0.01	7	1100	12	< 2	3	18	0.05	< 10	< 10	71	< 10	84
D+0400W	201	202	< 1	< 0.01	6	1520	8	< 2	2	16	0.04	< 10	< 10	57	< 10	108
D+0450W	201	202	< 1	< 0.01	11	1070	10	< 2	4	60	0.04	< 10	< 10	63	< 10	190
D+0500W	201	202	< 1	< 0.01	6	460	6	< 2	2	19	0.04	< 10	< 10	51	< 10	54
D+0550W	201	202	< 1	< 0.01	8	2000	6	< 2	3	19	0.04	< 10	< 10	60	< 10	82
D+0600W	201	202	< 1	< 0.01	5	360	8	< 2	2	22	0.05	< 10	< 10	52	< 10	34
D+0650W	201	202	< 1	< 0.01	8	440	8	< 2	3	22	0.06	< 10	< 10	59	< 10	62
D+0700W	201	202	< 1	< 0.01	10	340	6	< 2	3	28	0.07	< 10	< 10	53	< 10	48
D+0750W	201	202	< 1	< 0.01	9	460	4	< 2	3	28	0.07	< 10	< 10	48	< 10	42
D+0800W	201	202	< 1	0.01	13	260	6	< 2	7	38	0.05	< 10	< 10	59	< 10	44
D+0850W	201	202	< 1	< 0.01	8	170	6	< 2	3	25	0.06	< 10	< 10	48	< 10	32
D+0900W	201	202	< 1	< 0.01	17	610	14	< 2	4	21	0.08	< 10	< 10	88	< 10	60
D+0950W	201	202	< 1	0.01	16	310	8	< 2	8	47	0.05	< 10	< 10	69	< 10	80
D+1000W	201	202	< 1	0.01	14	490	8	< 2	7	39	0.06	< 10	< 10	60	< 10	60

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: HUDSON BAY EXPLORATION & DEVELOPMENT CO. LTD.

405 - 470 GRANVILLE ST.
 VANCOUVER, BC
 V6C 1V5

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 Account : T

Project : TOTEM
 Comments : ATTN: GERRY BIDWELL CC: RALPH R. KEEFE

CERTIFICATE OF ANALYSIS A9738409

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
			FA+AA																		
E+050W	201	202	< 5	0.2	2.56	10	150	< 0.5	< 2	0.20	< 0.5	10	22	14	4.42	< 10	< 1	0.07	< 10	0.38	780
E+100W	201	202	< 5	< 0.2	1.67	14	160	< 0.5	< 2	0.23	< 0.5	9	22	11	3.93	< 10	< 1	0.05	< 10	0.38	560
E+150W	201	202	< 5	0.2	1.46	8	270	< 0.5	< 2	0.24	0.5	13	24	13	4.60	< 10	< 1	0.05	< 10	0.30	2410
E+200W	201	202	< 5	0.6	1.92	14	250	< 0.5	< 2	0.21	< 0.5	11	23	17	4.19	< 10	< 1	0.05	< 10	0.39	875
E+300W	201	202	< 5	< 0.2	0.92	2	110	< 0.5	< 2	0.18	< 0.5	5	18	7	3.63	< 10	< 1	0.04	< 10	0.17	250
E+350W	201	202	20	< 0.2	1.43	16	150	< 0.5	< 2	0.24	< 0.5	9	22	20	4.10	< 10	< 1	0.03	< 10	0.43	495
E+400W	201	202	10	< 0.2	1.90	12	190	< 0.5	< 2	0.22	< 0.5	9	20	12	4.08	< 10	< 1	0.04	< 10	0.35	420
E+450W	201	202	< 5	< 0.2	1.58	8	220	< 0.5	< 2	0.42	< 0.5	8	20	32	2.80	< 10	< 1	0.04	< 10	0.50	690
E+500W	201	202	< 5	< 0.2	1.37	8	140	< 0.5	< 2	0.23	< 0.5	7	17	14	3.13	< 10	< 1	0.04	< 10	0.35	280
E+550W	201	202	< 5	< 0.2	1.47	8	150	< 0.5	< 2	0.28	< 0.5	6	16	21	2.48	< 10	< 1	0.03	< 10	0.41	240
E+600W	201	202	< 5	< 0.2	1.46	8	140	< 0.5	< 2	0.26	< 0.5	7	16	24	2.82	< 10	< 1	0.04	< 10	0.33	350
E+650W	201	202	< 5	< 0.2	1.20	6	160	< 0.5	< 2	0.31	< 0.5	6	15	15	2.58	< 10	< 1	0.04	< 10	0.30	450
E+700W	201	202	< 5	< 0.2	1.54	8	150	< 0.5	< 2	0.29	< 0.5	7	17	21	2.88	< 10	< 1	0.05	< 10	0.40	310
E+750W	201	202	< 5	< 0.2	1.32	2	110	< 0.5	< 2	0.23	< 0.5	6	14	10	2.56	< 10	< 1	0.03	< 10	0.26	165
F+050W	201	202	10	< 0.2	1.99	14	200	< 0.5	< 2	0.28	< 0.5	10	22	36	4.08	< 10	< 1	0.06	< 10	0.49	580
F+100W	201	202	< 5	< 0.2	1.47	8	130	< 0.5	< 2	0.40	< 0.5	7	21	21	2.31	< 10	< 1	0.05	< 10	0.51	350
F+150W	201	202	< 5	< 0.2	1.04	10	120	< 0.5	< 2	0.24	< 0.5	4	13	16	2.06	< 10	< 1	0.03	< 10	0.28	165
F+200W	201	202	< 5	< 0.2	1.22	2	190	< 0.5	< 2	0.26	< 0.5	6	14	20	2.24	< 10	< 1	0.03	< 10	0.34	360
F+250W	201	202	< 5	< 0.2	1.30	4	130	< 0.5	< 2	0.22	< 0.5	6	16	24	2.97	< 10	< 1	0.03	< 10	0.33	315
F+300W	201	202	< 5	< 0.2	1.51	6	160	< 0.5	< 2	0.25	< 0.5	5	15	20	2.38	< 10	< 1	0.03	< 10	0.36	255
F+350W	201	202	< 5	< 0.2	1.47	6	120	< 0.5	< 2	0.20	< 0.5	5	14	12	2.11	< 10	< 1	0.03	< 10	0.33	170
F+400W	201	202	< 5	< 0.2	1.44	< 2	170	< 0.5	< 2	0.30	< 0.5	5	15	21	1.81	< 10	< 1	0.03	< 10	0.37	245
F+450W	201	202	< 5	< 0.2	0.93	< 2	90	< 0.5	< 2	0.20	< 0.5	3	12	7	1.89	< 10	< 1	0.03	< 10	0.17	120
F+500W	201	202	< 5	< 0.2	1.75	8	110	< 0.5	< 2	0.33	< 0.5	9	20	23	3.00	< 10	< 1	0.09	< 10	0.62	415
F+550W	201	202	< 5	< 0.2	1.45	10	140	< 0.5	< 2	0.27	< 0.5	7	16	18	2.82	< 10	< 1	0.03	< 10	0.32	325
3A+050W	201	202	< 5	< 0.2	1.49	6	230	< 0.5	< 2	0.42	< 0.5	8	16	22	2.77	< 10	< 1	0.05	< 10	0.30	1255
3A+100W	201	202	< 5	< 0.2	1.21	6	200	< 0.5	< 2	0.37	< 0.5	9	15	19	2.62	< 10	< 1	0.06	< 10	0.25	1135
3A+150W	201	202	< 5	< 0.2	1.96	6	130	< 0.5	< 2	0.35	< 0.5	9	21	30	3.07	< 10	< 1	0.05	< 10	0.48	375
3A+200W	201	202	< 5	< 0.2	1.19	2	340	< 0.5	< 2	0.26	< 0.5	12	19	16	3.61	< 10	< 1	0.05	< 10	0.25	1690
3A+250W	201	202	10	< 0.2	1.69	12	210	< 0.5	< 2	0.25	< 0.5	9	21	15	4.41	< 10	< 1	0.05	< 10	0.34	465
3A+300W	201	202	10	0.2	2.13	8	240	< 0.5	< 2	0.34	0.5	13	46	24	4.59	< 10	< 1	0.07	< 10	0.53	700
3A+350W	201	202	105	< 0.2	1.56	14	230	< 0.5	< 2	0.53	< 0.5	10	20	38	3.30	< 10	< 1	0.06	10	0.43	950
3A+400W	201	202	< 5	< 0.2	1.59	8	160	< 0.5	< 2	0.29	< 0.5	8	17	25	2.96	< 10	< 1	0.04	< 10	0.42	415
3A+450W	201	202	< 5	< 0.2	1.42	10	150	< 0.5	< 2	0.56	< 0.5	9	17	18	3.39	< 10	< 1	0.05	< 10	0.43	375
3A+500W	201	202	< 5	< 0.2	1.58	6	220	< 0.5	< 2	0.53	< 0.5	6	17	32	2.48	< 10	< 1	0.03	10	0.39	340
3A+550W	201	202	< 5	< 0.2	1.34	8	210	< 0.5	< 2	0.42	< 0.5	7	17	42	2.61	< 10	< 1	0.04	< 10	0.42	430
3A+600W	201	202	< 5	< 0.2	1.79	8	240	< 0.5	< 2	0.46	< 0.5	10	21	27	3.32	< 10	< 1	0.04	< 10	0.52	880
3A+650W	201	202	< 5	< 0.2	1.79	4	230	< 0.5	< 2	0.49	< 0.5	7	19	30	2.81	< 10	< 1	0.03	< 10	0.46	370
3A+700W	201	202	< 5	< 0.2	1.51	4	180	< 0.5	< 2	0.30	< 0.5	7	17	21	2.66	< 10	< 1	0.03	< 10	0.36	475
3A+750W	201	202	< 5	< 0.2	1.33	8	150	< 0.5	< 2	0.26	< 0.5	6	15	19	2.41	< 10	< 1	0.03	< 10	0.34	365

CERTIFICATION: Hart Bidwell



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CERTIFICATE OF ANALYSIS A9738409

SAMPLE	PREP		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	CODE		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
E+050W	201	202	< 1	< 0.01	10	2470	10	< 2	4	20	0.06	< 10	< 10	86	< 10	166
E+100W	201	202	< 1	< 0.01	13	1130	8	< 2	4	20	0.06	< 10	< 10	80	< 10	232
E+150W	201	202	< 1	< 0.01	10	1490	14	< 2	3	23	0.07	< 10	< 10	100	< 10	140
E+200W	201	202	< 1	< 0.01	12	1200	10	< 2	5	23	0.06	< 10	< 10	86	< 10	104
E+300W	201	202	4	0.01	5	250	8	< 2	1	19	0.06	< 10	< 10	88	< 10	60
E+350W	201	202	< 1	< 0.01	15	730	10	< 2	4	18	0.06	< 10	< 10	86	< 10	68
E+400W	201	202	< 1	< 0.01	11	1750	10	< 2	3	24	0.05	< 10	< 10	78	< 10	112
E+450W	201	202	1	< 0.01	12	490	6	< 2	4	34	0.06	< 10	< 10	57	< 10	52
E+500W	201	202	1	< 0.01	9	300	6	< 2	3	22	0.06	< 10	< 10	64	< 10	92
E+550W	201	202	1	< 0.01	11	280	4	< 2	3	26	0.07	< 10	< 10	51	< 10	50
E+600W	201	202	1	< 0.01	10	440	6	< 2	4	26	0.07	< 10	< 10	56	< 10	60
E+650W	201	202	1	< 0.01	9	420	8	< 2	3	31	0.07	< 10	< 10	53	< 10	56
E+700W	201	202	< 1	< 0.01	11	410	8	< 2	4	30	0.07	< 10	< 10	57	< 10	52
E+750W	201	202	< 1	< 0.01	8	370	6	< 2	3	23	0.06	< 10	< 10	53	< 10	50
F+050W	201	202	3	< 0.01	14	1250	12	< 2	5	29	0.07	< 10	< 10	79	< 10	116
F+100W	201	202	< 1	< 0.01	13	610	8	< 2	4	34	0.08	< 10	< 10	52	< 10	54
F+150W	201	202	1	< 0.01	7	270	6	< 2	3	23	0.05	< 10	< 10	44	< 10	44
F+200W	201	202	1	< 0.01	9	220	6	< 2	3	25	0.05	< 10	< 10	45	< 10	48
F+250W	201	202	2	< 0.01	10	580	8	< 2	3	19	0.05	< 10	< 10	57	< 10	56
F+300W	201	202	2	< 0.01	10	370	4	< 2	3	24	0.05	< 10	< 10	45	< 10	54
F+350W	201	202	1	< 0.01	10	250	2	< 2	3	21	0.06	< 10	< 10	44	< 10	44
F+400W	201	202	1	< 0.01	11	280	4	< 2	4	29	0.05	< 10	< 10	38	< 10	46
F+450W	201	202	1	< 0.01	5	210	6	< 2	2	21	0.06	< 10	< 10	43	< 10	42
F+500W	201	202	< 1	< 0.01	15	550	4	< 2	4	29	0.12	< 10	< 10	64	< 10	56
F+550W	201	202	1	< 0.01	10	470	8	< 2	3	24	0.06	< 10	< 10	56	< 10	64
3A+050W	201	202	< 1	< 0.01	10	810	6	< 2	4	43	0.05	< 10	< 10	52	< 10	102
3A+100W	201	202	1	0.01	9	710	8	< 2	3	39	0.06	< 10	< 10	52	< 10	102
3A+150W	201	202	< 1	< 0.01	14	910	8	< 2	4	51	0.06	< 10	< 10	59	< 10	78
3A+200W	201	202	< 1	< 0.01	8	1070	12	< 2	3	31	0.06	< 10	< 10	72	< 10	116
3A+250W	201	202	< 1	< 0.01	10	2360	12	< 2	4	25	0.05	< 10	< 10	82	< 10	156
3A+300W	201	202	< 1	< 0.01	21	2820	16	< 2	5	25	0.06	< 10	< 10	82	< 10	260
3A+350W	201	202	1	< 0.01	14	680	8	< 2	5	42	0.05	< 10	< 10	61	< 10	98
3A+400W	201	202	< 1	< 0.01	12	340	8	< 2	5	26	0.06	< 10	< 10	57	< 10	60
3A+450W	201	202	3	< 0.01	8	420	6	< 2	4	40	0.06	< 10	< 10	75	< 10	126
3A+500W	201	202	< 1	0.01	12	370	6	< 2	6	38	0.06	< 10	< 10	51	< 10	60
3A+550W	201	202	< 1	0.01	11	190	8	< 2	6	34	0.06	< 10	< 10	51	< 10	56
3A+600W	201	202	1	< 0.01	12	450	8	< 2	5	37	0.05	< 10	< 10	64	< 10	86
3A+650W	201	202	< 1	0.01	13	370	8	< 2	5	42	0.05	< 10	< 10	56	< 10	66
3A+700W	201	202	< 1	< 0.01	11	370	6	< 2	4	30	0.05	< 10	< 10	54	< 10	62
3A+750W	201	202	< 1	< 0.01	10	220	6	< 2	3	24	0.04	< 10	< 10	50	< 10	58

CERTIFICATION: *[Signature]*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: HUDSON BAY EXPLORATION & DEVELOPMENT CO. LTD.

405 - 470 GRANVILLE ST.
 VANCOUVER, BC
 V6C 1V5

Page Number :4-A
 Total Pages :4
 Certificate Date: 24-AUG-97
 Invoice No. :19738409
 P.O. Number :
 Account :T

Project : TOTEM
 Comments: ATTN: GERRY BIDWELL CC: RALPH R. KEEFE

CERTIFICATE OF ANALYSIS A9738409

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
3A+800W	201 202	5 < 0.2	1.36	6	140 < 0.5	< 2	0.26 < 0.5	5	14	16	2.59 < 10	< 1	0.03 < 10	0.30	195					
3A+850W	201 202	< 5 < 0.2	1.43	10	90 < 0.5	< 2	0.25 < 0.5	7	17	18	3.09 < 10	< 1	0.04 < 10	0.32	225					
3A+900W	201 202	10 < 0.2	1.32	10	110 < 0.5	< 2	0.18 < 0.5	7	17	19	3.00 < 10	< 1	0.03 < 10	0.37	300					
3A+950W	201 202	< 5 < 0.2	1.13	8	110 < 0.5	< 2	0.22 < 0.5	5	14	10	2.84 < 10	< 1	0.03 < 10	0.23	165					
3A+1000W	201 202	< 5 < 0.2	1.56	8	260	0.5	< 2	0.40 < 0.5	10	19	52	3.16 < 10	< 1	0.06	10	0.37	1035			

CERTIFICATION: _____



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Comments: ATTN: GERRY BIDWELL CC: RALPH R. KEEFE

CERTIFICATE OF ANALYSIS

A9738409

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
3A+800W	201 202	< 1	< 0.01	8	280	6	< 2	3	26	0.06	< 10	< 10	54	< 10	52
3A+850W	201 202	< 1	< 0.01	10	840	6	< 2	4	22	0.06	< 10	< 10	59	< 10	58
3A+900W	201 202	< 1	< 0.01	12	550	6	< 2	4	17	0.06	< 10	< 10	55	< 10	60
3A+950W	201 202	< 1	< 0.01	8	790	6	< 2	2	20	0.04	< 10	< 10	56	< 10	56
3A+1000W	201 202	< 1	< 0.01	14	430	12	< 2	7	35	0.04	< 10	< 10	56	< 10	80

CERTIFICATION: _____

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM

B. TECHNICAL REPORT

Name: Ralph R. Keefe Ref #: P-28

LOCATION/COMMODITIES-

Project Area: Bar Minfile #: n/a
Location of Area NTS: 93L/8w & 93L/9w
Lat: 54 30' Long: 126 28'

Description of location & access: Approx 3 km S. of Perow.
(Hwy 16) Accessed by old logging roads (12 km S.W. of Topley

Main Commodities Searched for: Barite

Known Mineral Occurrences in Project Area: Cu. & Ag.
Barite within the volcanics.

.....
WORK PERFORMED-

1. Conventional prosp. gridding & prospecting of 15 sq.km area
2. Geological Mapping as grid is progressed
3. Geochemical nil
4. Geophysical nil
5. Physical Work nil
6. Drilling nil
7. Other

.....
SIGNIFICANT RESULTS- none at this time

Commodities Claim Name:
Location/Lat: Long: Elevation:

Best assay/sample type:

Description of mineralization, host rocks, anomalies:

Area being prospected is underlain by Hazelton group volcanics & pyroclastics which strike uniformly N.W. & dip steeply to the N.E. Considerable time has been spent in getting property oriented for running grid. Considerable widths of relatively pure Barite had been located by old timers, but remains unlocated in past 5 decades or more. Follow-up grid & prospecting in 1998 season contemplated.

EXPENSE SHEET

BAR PROJECT

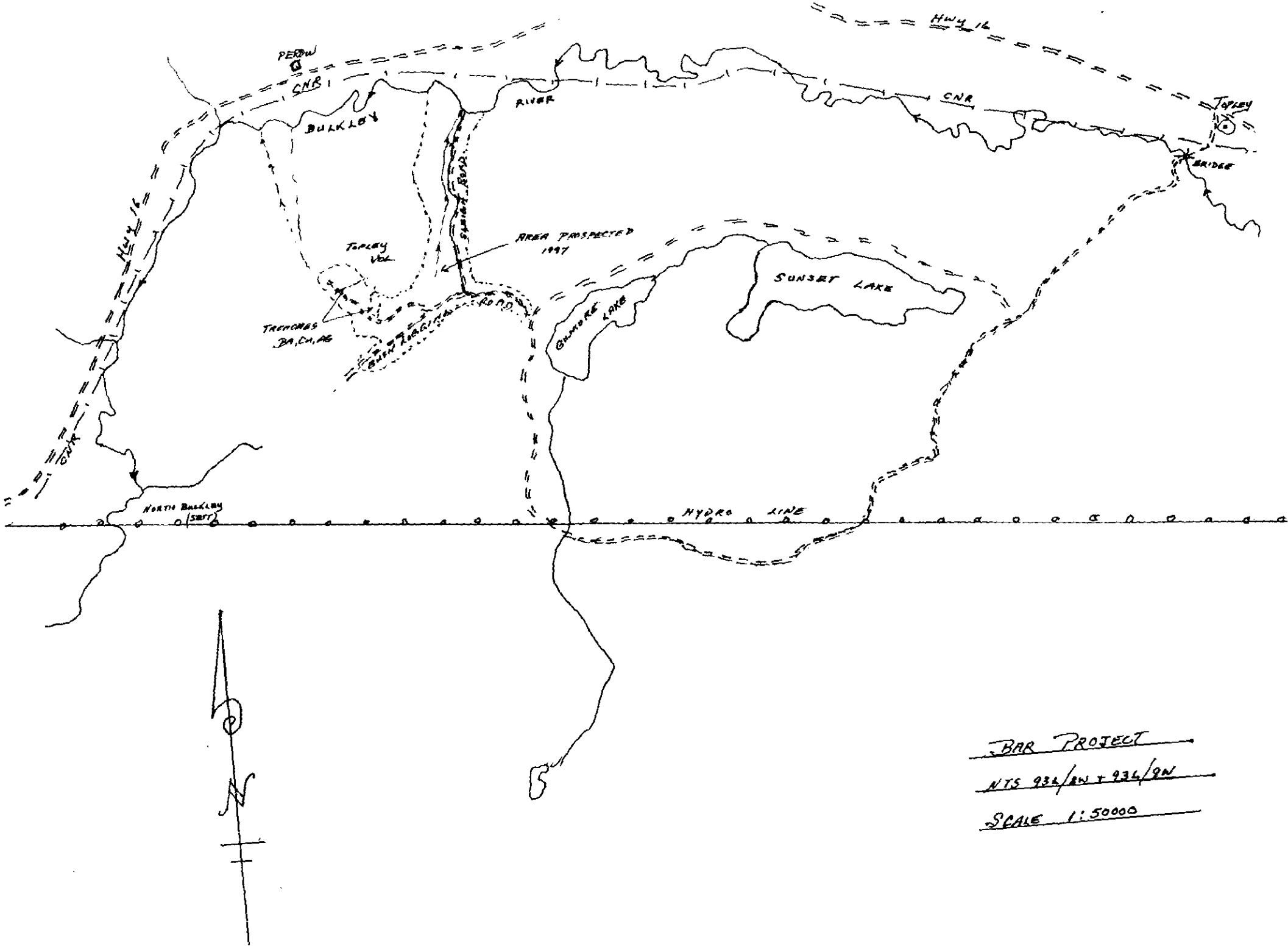
AREA: Approx 2 Km South of Perow

MAP: 93L/8W & 93L/9W

LAT: 54 30

LONG: 126 28

COMM: Barite (Commercial)



BAR PROJECT
NTS 934/RW + 936/RW
SCALE 1:50000

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM

B. TECHNICAL REPORT

Name: Ralph R. Keefe Ref #: P-28

LOCATION/COMMODITIES-

Project Area: O.G.D.P. Minfile #: n/a
Location of Area NTS: 93E,K,L,M Lat: 53 56' Long: 124 15'-128

Description of location & access: On going development plan requires the prospecting of all newly constructed road and log blocks in those areas where further mineralized body's are apt to be discovered.

Main Commodities Searched for: Cu, Ag, Au VMS

Known Mineral Occurrences in Project Area: Numerous mines & known mineral occurrences (which are mostly porphyry in nature (Ex, Granisle, Bell, Morrison)etc.

.....
WORK PERFORMED-

1. Conventional prosp. log blocks & traversing of new roads
2. Geological Mapping as per sketch map
3. Geochemical 1 silt
4. Geophysical nil
5. Physical Work nil
6. Drilling nil
7. Other

.....
SIGNIFICANT RESULTS- nil

Commodities _____ Claim Name: _____
Location/Lat: _____ Long: _____ Elevation: _____

Best assay/sample type: _____

Description of mineralization, host rocks, anomalies:

Follow-up prospecting of new roads and winter log blocks completed as of Oct 1/97. No rock samples sent in as outcrops were all identifiable and lacking in sulphides. One silt sample taken in new creek drainage S. of Natowite Lake.

#

EXPENSE SHEET

ON GOING DEVELOPMENT PLAN

AREA: East side of Babine Lake, Prospecting log blocks in area.

MAP: 93E, K, L, M.

LAT: Between 53 00' & 56 00'

LONG: Between 124 15' & 128 00'

COMM: Cu, Au, Ag.(Porphyry & Epithermal)



004

B006

B005
608G003

B007

B008

27T002

27G001

B012

B010

VOLCANIC ANDSITE

NEW
ROADS-LOG BIK'S
LOGGED-1997
PROPOSED





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Project : O.G.D.P.
Comments: ATTN: G. BIDWELL CC:RALPH R. KEEFE

Page Number :1-A
Total Pages :1
Certificate Date: 29-SEP-97
Invoice No. :19743381
P.O. Number :
Account :T

CERTIFICATE OF ANALYSIS

A9743381

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
	201	202	FA+AA																		
021479			< 5	< 0.2	1.34	78	130	< 0.5	< 2	0.59	< 0.5	9	26	22	2.78	< 10	< 1	0.03	< 10	0.60	865

CERTIFICATION: Han [Signature]



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Project : O.G.D.P.
Comments: ATTN: G. BIDWELL CC:RALPH R. KEEFE

CERTIFICATE OF ANALYSIS

A9743381

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
021479	201	202	1	< 0.01	16	590	2	2	5	45	0.04	< 10	< 10	55	< 10	68

CERTIFICATION: _____