

Technical Exploration and Development

Assessment Report

Freedom Claim Group

BC Geological Survey  
Assessment Report  
31569

Nanaimo Mining Division  
NTS Map 92F/11W

Located:

14 miles west of Courtenay, BC

49 38' 37 north – 125 20' 39 west

Owner/Operator: Gary M. Thorsen  
Author of the Report: Gary M. Thorsen

21 May 2010

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

31,569

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## ILLUSTRATIONS

- Fig. 1-Index Map and General Geology
- Fig. 2- Freedom Claim Group Location
- Fig. 3- Claim Group MTO Map
- Fig. 4- Topo Map 92F/W 11 1:50,000 scale
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## PHOTOS

1. Moss Mat Sampling and Gold panning
2. Author Moss Mat Sampling
3. North fork falls at headwaters of Eric Creek
4. Quartz Diorite contact with Chalcopyrite mineralized Magnetite
5. Close-up of mineralized outcrop
6. Dry creek bed and flagged Magnetite float with Cu and W minerals
7. Bornite and Magnetite on side-creek boulder

## INTRODUCTION

The claim block centres on a point lying some 12 airmiles west of Courtenay, BC., and over lies the Eric Creek valley and roughly 4 miles west of the confluence with the Cruickshank River, (Lat. 49Degrees 38' 37 north and Long. 125 degrees 20' 39 west). From the Island Highway at Courtenay, the property is reached via the public Lake Trail road to Comox Lake, thence by the private Timber West logging road, along the north shore of Comox Lake and up the east side of the Cruickshank River for a distance of about 25 miles.

The claims are owned and operated by Gary M. Thorsen of Union Bay, BC. There are several showings around the claim group. Mainly copper minerals, some zinc and a 680 ppm moss mat gold. Some areas have been logged several years ago and there are new roads being built, with a small amount of logging taking place, allowing better access to new areas to prospect.

There are several drainage basins flowing from both steep slopes that drain into Eric Creek from the north and south. The area has heavy underbrush and steep treed slopes which impedes on foot access, however this disadvantage is largely compensated for by the good primary access of the general network of local logging roads.

During the average field season, approximately early May to October, the property and showings can be reached with standard and four wheel drive motor vehicles.

Preliminary reconnaissance with conventional prospecting, soil and water geochemical testing, water course pH testing and field work were done on the Freedom Claim Group. The work was done between May 15th. and Oct. 4 th.

The field work described in this report has been principally directed towards several targets inside and around the perimeter of the quartz-diorite plutonic intrusion. Including the claim group Tenures 57076 and 580600. ( see illustration Fig. 3) A few new discoveries include two large basalt volcanic creek "float" boulders with chalcopyrite, bornite and malachite staining on magnetite. (see photo7). Secondly, a steep, narrow, dry creek bed (later in the season) has a fair amount of magnetite float mixed in with the other rock. A small rock sample assayed amounts of Cu and W. Follow-up moss mat sampling for the source of the gold in a side creek was favorable.

The units in the claim 603147 run in a north-south line and include one of the Carey Lakes to the east, while units in the claim 580600 covers most of the Eric Creek valley, in a east-west direction. (see Fig. 4)

-3-



06/04/2010

## Mineral Titles Online

### Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: THORSEN, GARY MARTIN (126855) Submitter: THORSEN, GARY MARTIN (126855)

Recorded: 2010/APR/06

Effective: 2010/APR/06

D/E Date: 2010/APR/06

#### Confirmation

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission. **Please attach a copy of this confirmation page to your report.** Contact Mineral Titles Branch for more information.

**Event Number:** 4555092

**Work Type:**

Technical Work

**Technical Items:**

Geochemical, Geological, PAC Withdrawal (up to 30% of technical work performed),  
Prospecting

**Work Start Date:** 2009/MAY/15

**Work Stop Date:** 2009/OCT/04

**Total Value of Work:** \$ 2722.33

**Mine Permit No:** n/a

#### Summary of the work value:

Tenure Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days Forward	Area in Ha	Applied Work Value	Submission Fee
580600	FREEDOM #2 AND #3	2008/apr/07	2010/apr/07	2011/apr/07	365	439.31	\$ 1757.24	\$ 175.72
603147	FREEDOM	2009/apr/21	2010/apr/21	2011/apr/07	351	251.09	\$ 965.82	\$ 96.58

#### Financial Summary:

**Total applied work value:** \$ 2723.06

**PAC name:** Gary M. Thorsen

**Debited PAC amount:** \$ 0.73

**Credited PAC amount:** \$ 0.0

**Total Submission Fees:** \$ 272.31

**Total Paid:** \$ 272.31

*Please print this page for your records.*



Ministry of Energy & Mines  
Energy & Minerals Division  
Geological Survey Branch

**ASSESSMENT REPORT  
TITLE PAGE AND SUMMARY**

TITLE OF REPORT [type of survey(s)] <i>Technical Exploration and Development</i>		TOTAL COST \$ <i>2722.33</i>
AUTHOR(S) <i>GARY M. THORSEN</i>	SIGNATURE(S) <i>Gary M. Thorsen</i>	

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S)                      YEAR OF WORK *2009*

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) *Submission Fee* # *272.31*

Event number *4555092*

PROPERTY NAME *Freedom #2 and #3*

CLAIM NAME(S) (on which work was done) *Freedom #2, Tenure 580600 - Freedom #3, 603147*

COMMODITIES SOUGHT *Copper and Gold*

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN                     

MINING DIVISION *Nanaimo, BC* NTS *92F/11E*

LATITUDE *49 ° 38 ' 37 "* LONGITUDE *125 ° 20 ' 39 "* (at centre of work)

OWNER(S)

1) *GARY M. THORSEN* 2)                     

MAILING ADDRESS

*P.O. Box 8 (5429 South Is. Hwy.)  
Union Bay BC, V0R 3B0*

OPERATOR(S) [who paid for the work]

1) *GARY M. THORSEN* 2)                     

MAILING ADDRESS

*Same as above*

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):  
*The area is primarily underlain by basalt flows of the upper Triassic, Vancouver Group Karmutsen formation of basalt flows, pillow lava, breccia, and some sedimentary layers. Unit intruded by granodiorite stock. Minerals found chalcopyrite, borate, zinc and magnetite.*

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS *No previous prospecting, showings, or staking in my claim area.*

## TECHNICAL EXPLORATION and DEVELOPMENT WORK

The types of work performed was detailed prospecting up each of the eight water courses on the south side of the Eric Creek valley. The water was tested for the pH and a Total Heavy Metals test was done with semi-quantitative contamination test strips to check for Heavy Metals in water. Traverses were run at approximately 100 metres parallel to the creek looking for outcrops until the terrain was too steep. A couple of the creeks got very steep and the boulders too large to climb over to make any distance further up stream.

The creek rocks and any outcrops were observed to determine the geology of the area, contacts between the host rock volcanics and the granitoid intrusion, any mineralized float or talus for signs of alteration minerals. The steep side creeks are almost dry after the snow melts from the shaded areas.

I had two prospecting assistants working with me, each at different times for the duration of season. One was my oldest son Leif Thorsen a university graduate now living in Seattle, Washington, the other Chris Nystrom, a prospecting partner of several years who now resides in Abbotsford, BC. We also waded the creek further up the headwaters and took moss samples from the rocks. The samples were labeled as to the sample location and numbered and later dried in my oven on a medium heat, then sifted, freeing the organic matter from the sand and gravel. This was put in kraft paper sample bags, labeled and sent buy DHL courier to the Chemex Laboratory in North Vancouver.

The rock and moss mat samples were assayed for a 32 element four acid ICP-AES analytical procedure and a fire assay for gold. (see page 9-10) The geological mapping of bedrock exposures included observations in regard to rock type, alteration, mineralization, and structural attitude. General and detailed features of the geology and mineralization mapped within the claims are contained in the 1:5,000 scale map of the claim area. (see p.8 a.& b.)

### General and Local Geology

The Cruickshank River section of the Comox Map area is principally underlain by basaltic lavas of the Karmutsen Formation; distinct units of these include pillow lavas, breccias, and massive vesicular and porphyritic types. Covering the claim block to the north and south is medium-size intrusive stock of, generally, biotite granodiorite – related to the Jura-Cretaceous system of Island Intrusives. The Cruickshank River bed follows a large fault and consists of light coloured granitic rock of probable quartz-monzonite in composition. This appears to relate to a younger (Tertiary) body which rims the general granodiorite stock within the locality. Within a few areas at least, volcanic rocks adjacent to the stock have been thermally altered producing a hornfelsic and/or 'dioritic' selvage.

## COST STATEMENT

Labour Cost:

Wages:

<u>Name</u>	<u>Address</u>	<u>Job</u>	<u>Days</u>	<u>Rate</u>	<u>Total</u>
Leif Thorsen	Seattle, Wa.	Field Technician	5	\$ 100/day	\$ 500.00
Chris Nystrom	Abbotsford, BC	Field Technician	5	\$ 100/day	\$ 500.00
Gary Thorsen	Union Bay, BC	Economic Geologist	25	-----	<u>\$ 800.00</u>
				Total-	\$1800.00
Food:					\$ 237.05
Transportation:					\$ 231.33
Supplies: (Map Source Topo GPS Program)					\$ 179.52
Rock and Moss Mat sample assays:					<u>\$ 274.33</u>
				Applied work value-	Total- \$2722.23

Amount claimed for assessment credit on claims- \$2723.06

## TYPE OF WORK STATEMENT

Freedom #1 Claim-Tenure # 580600

Geochemical THM and pH sampling: 15 water courses.(Results on 1:5,000 map. Pages 8-10)

Gold panning moss mats and creek gravel: 24 samples of 12 water courses

Geological mapping: 1:5,000 scale with approximately 225 hectares surveyed

Conventional prospecting: New and old logging roads approximately 17.5 km.  
On foot, approximately 8.2 km.

Freedom #3 Claim Tenure # 603147:

Geochemical THM and pH sampling: 5 water courses. (Results on 1:5,000 map. Pages 8-10)

Gold panning moss mats and creek gravel: 5 water courses.

Geological mapping: 1: 5,000 scale with approximately 75 hectares surveyed.

Conventional prospecting: Approximately 1800 metres. (Very steep terrane).

Authors qualifications and experience:

The author has 38 years experience prospecting, areas include Fort St. James, Barkerville, Spanish Mountain and Hixon Creek to the north. On Vancouver Island, the headwaters of the Ursus River, Warn Bay, Tranquil Inlet, Taylor and Kennedy Rivers with the late Sam Craig and Walter Guppy. Formal courses include the Ministry of Mines and Petroleum Resources Advanced Prospecting and Mineral Identification courses along with several years of home study.

Employed by Tyber Resources of Nanaimo BC to manage a Phase I exploration project on the Independent property on the headwaters of the Englishman River. Lay-out and survey a 700 metre base line, with 500 metre east-west lines every 100 metres. Take magnetometer readings every 10 metres and soil sample "B" horizon every 20 metres. Make a full scale map with the property features, magnetometer readings, soil sample results and grid on it.



## FIELD AND LABORATORY WORK

The author made his first visit of the season on May 15, 2009 visually prospecting all of the logging roads, new freshly blasted and the grown over ones in and around the claim area to the north. I drove my newer 2001 Dodge Dakota Sport 4x4 and in the narrow over grown areas, I rode my full suspension Cannondale Mountain Bike with 21 gears that handled the rocky rough sections.

I employed two field technicians to assist me in prospecting, panning, sampling and testing. One was my oldest son Leif Thorsen 32 years of age, that now resides with his wife in Seattle, Washington. Leif has taken University Geology and has accompanied me on several prospecting trips over the years from north-western BC, Barkerville, and several times on Vancouver Island. Vancouver Island trips include the rugged west coast on the north end of the Island from Raft Cove (south of Cape Scott) to Lippy Point near Winter Harbour with a Prospector's Assistance Grant. The second field technician was Chris Nystrom, who has prospected with me and with his father, Svend Nystrom on several occasions over the past 20+ years.

Field work included detailed geological mapping of exposed outcrops, veins, and showings with reconnaissance prospecting, water course sampling for pH and Heavy Metals with test strips and Cold Extractable "Total Heavy Metals" in soils and water. (Holman Bloom Test). Eric Creek was moss mat sampled at 300 metre intervals to the fork at the headwaters, below Faith Lake. (see photos #2 and #3). We also did random gold panning of the side creeks flowing into Eric Creek from the north and south along with moss mat samples in the creek if the rocks had any moss on them.

The rocks and creek boulders were observed for types, alteration minerals and changes in the geology. The team also did further detailed geological mapping and sampling within the area of the claims by follow-up sampling from last season, above the 680 ppm Au sample at the west fork. We were anxious to see our assay results to determine which fork the Au values were coming from. As it turned out, both forks had good indications for Au, Zn and pathfinder elements, Cu, V, Cr, and As.

This season we plan to prospect higher up slope from the 10,000ppm Cu assay (5.7% ore grade) and the narrow steep creek bed to the west, with small to large sized magnetite float that assayed Cu-204 ppm, Fe->50%, V-68 ppm, Zn-46 ppm and W-340 ppm. ( see assay report Pages 8-10 ).

All rock and moss mat samples were sent to ALS Chenex Lab. In North Vancouver. The moss mats were dried and sieved at home and tested as sediment samples. All samples were analysed for a 33 element four acid ICP-AES and 30g Au FA-AA finish. The rock samples were crushed split and pulverized.

Geological mapping of bedrock exposures included observations in regard to rock-type, alteration, mineralization, and structural attitudes. General and detailed features of the geology and mineralization mapped within the claims are contained in the appendix, page 12.

## CONCLUSION

The present geological and geochemical evidence that the local mineralization preferentially occurs within the volcanic rocks and more specifically, within shear and fracture zones cutting them. This apparent tendency, however, does not rule out the possibility that zones of disseminated copper and gold mineralization may occur in (altered) volcanic rocks and quartz veins flanking the local intrusive stock.

From my observations of the mineralization in outcrop showings, float boulders, and lower water course ph's, along with elevated arsenic, mercury, and manganese samples as "pathfinder" elements, the 279 ppm 3,000 ppm, and over 10,000 ppm Cu results in my assays, would be good indicators that a possible deposit may be in the area.

Geochemical patterns within the areas provide substantive evidence of their presence and tracing some patterns to their source would prove to be a challenge. The terrane itself is a challenge for all but a mountain goat.

I have located four main target areas that I plan to follow-up and explore further with the forthcoming season, as soon as the snow melts in the high country. One target is to trace a 680 ppm Au and with Cu and a high arsenic result in Eric Creek, with more prospecting and moss mat sampling. The second target would be tracing the source of the two bornite, chalcopyrite, on magnetite creek float boulders.

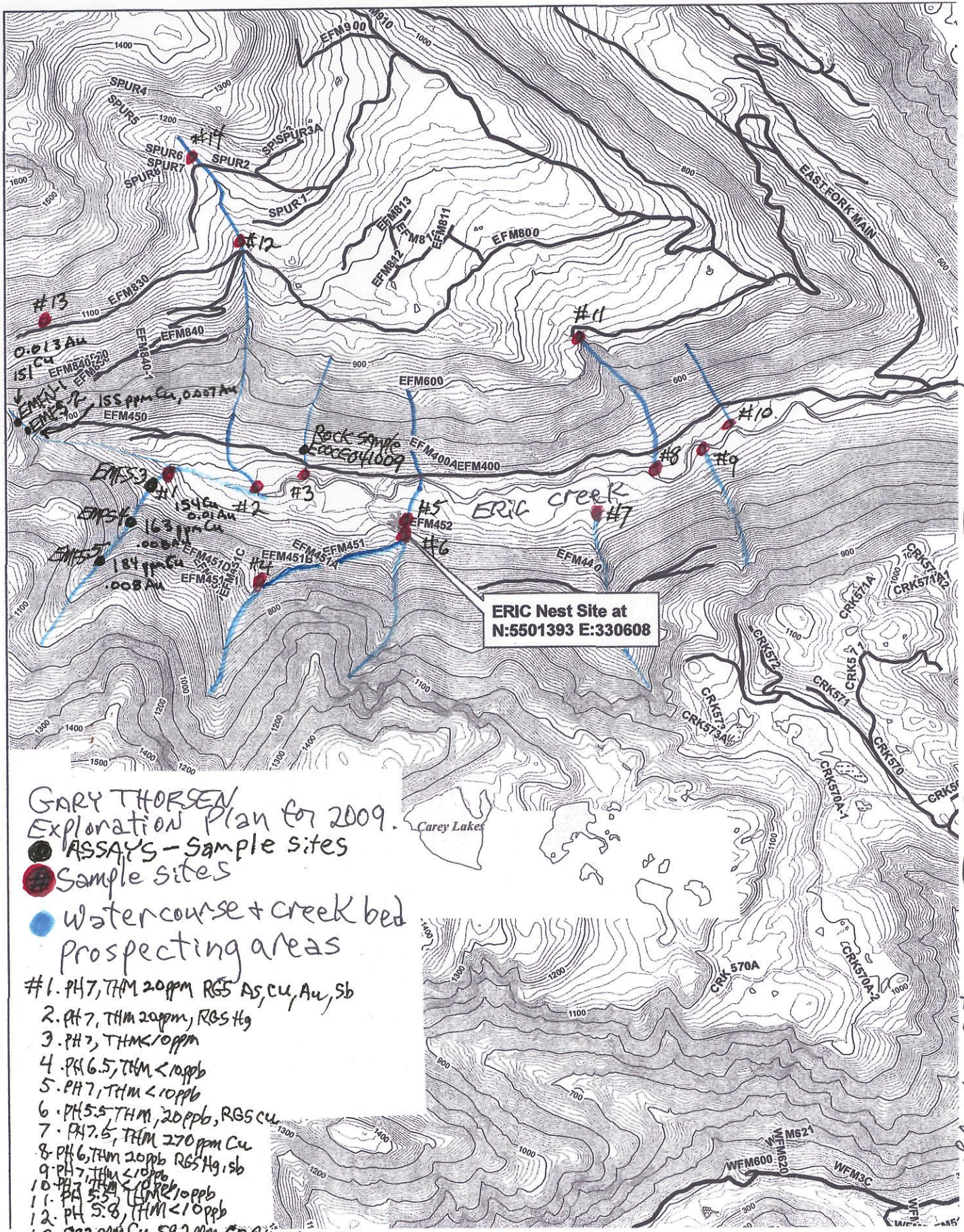
The final two targets would be to expand on the high Cu ppm's of creeks to the east, of the valley with elevated mercury, arsenic, and Cu Regional Geochemical results.

Respectfully Submitted,

  
Gary M. Thorsen

## APPENDICES

- APPENDIX A - Sample sites for Assays, Geo-chem/pH's
- APPENDIX B - Freedom 580600 (east) Geology and Sample Sites
- APPENDIX C - Freedom 580600 (west) Geology and Sample Sites
- APPENDIX D - ALS Chemex Billing Information (rock sample)
- APPENDIX E - Certificate of Analysis Page 1 (rock sample)
- APPENDIX F -       “    “    “    Page 2 (rock sample)
- APPENDIX G -       “    “    “    Page 3 (rock sample)
- APPENDIX H - ALS Billing Information (sediment samples)
- APPENDIX I - Certificate of Analysis Page 1 (sediment samples)
- APPENDIX J -       “    “    “    Page 2 (sediment samples)
- APPENDIX K -       “    “    “    Page 3 (sediment samples)



ERIC Nest Site at  
N:5501393 E:330608

GARY THORSEN  
Exploration Plan for 2009.

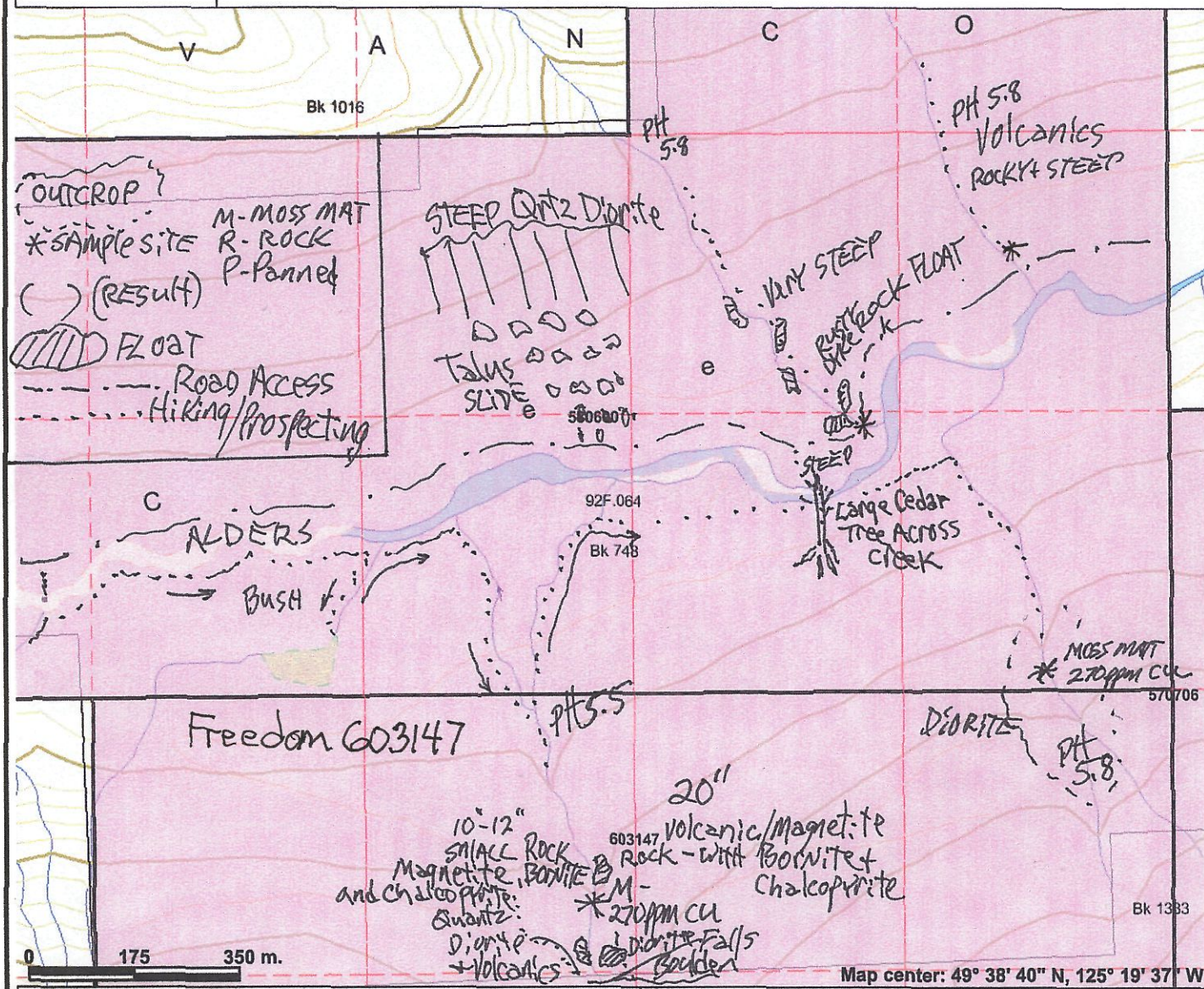
- ASSAYS - sample sites
- Sample sites
- Watercourse + creek bed
- Prospecting areas

- #1. PH 7, THM 20 ppm RGS AS, Cu, Au, Sb
2. PH 7, THM 20 ppm, RGS Hg
3. PH 7, THM < 10 ppm
4. PH 6.5, THM < 10 ppb
5. PH 7, THM < 10 ppb
6. PH 5.5 THM, 20 ppb, RGS Cu
7. PH 7.5, THM 270 ppm Cu
8. PH 6, THM 20 ppb RGS Hg, Sb
9. PH 7, THM < 10 ppb
10. PH 5.5, THM < 10 ppb
11. PH 5.8, THM < 10 ppb
12. 993 ppm Cu, 592 ppm Cr, 347 ppm V, 84 ppm Z.N.
14. PH - 5.8, THM < 10 ppb

ppm Cu  
ppm Au

To Connors Lakes Main + Crutcher

# Freedom 580600 (east)



### Legend

- Indian Reserves
- National Parks
- Conservancy Areas
- Parks
- MTO Grid (MTO)
- Blocked by MEM
- Other
- Mineral Tenure (current)**
- Mineral Claim
- Mineral Lease
- Mineral Reserves (current)**
- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others
- Integrated Cadastral Fabric
- Survey Parcels
- BCGS Grid
- Contours (TRIM)**
- Contour - Index
- Contour - Index.Indefinite
- Contour - Index.Depression
- Contour - Index.Depression Indefinite
- Contour - Intermediate
- Contour - Intermediate.Indefinite
- Contour - Intermediate.Depression
- Contour - Intermediate.Depression Indefinite
- Area of Exclusion

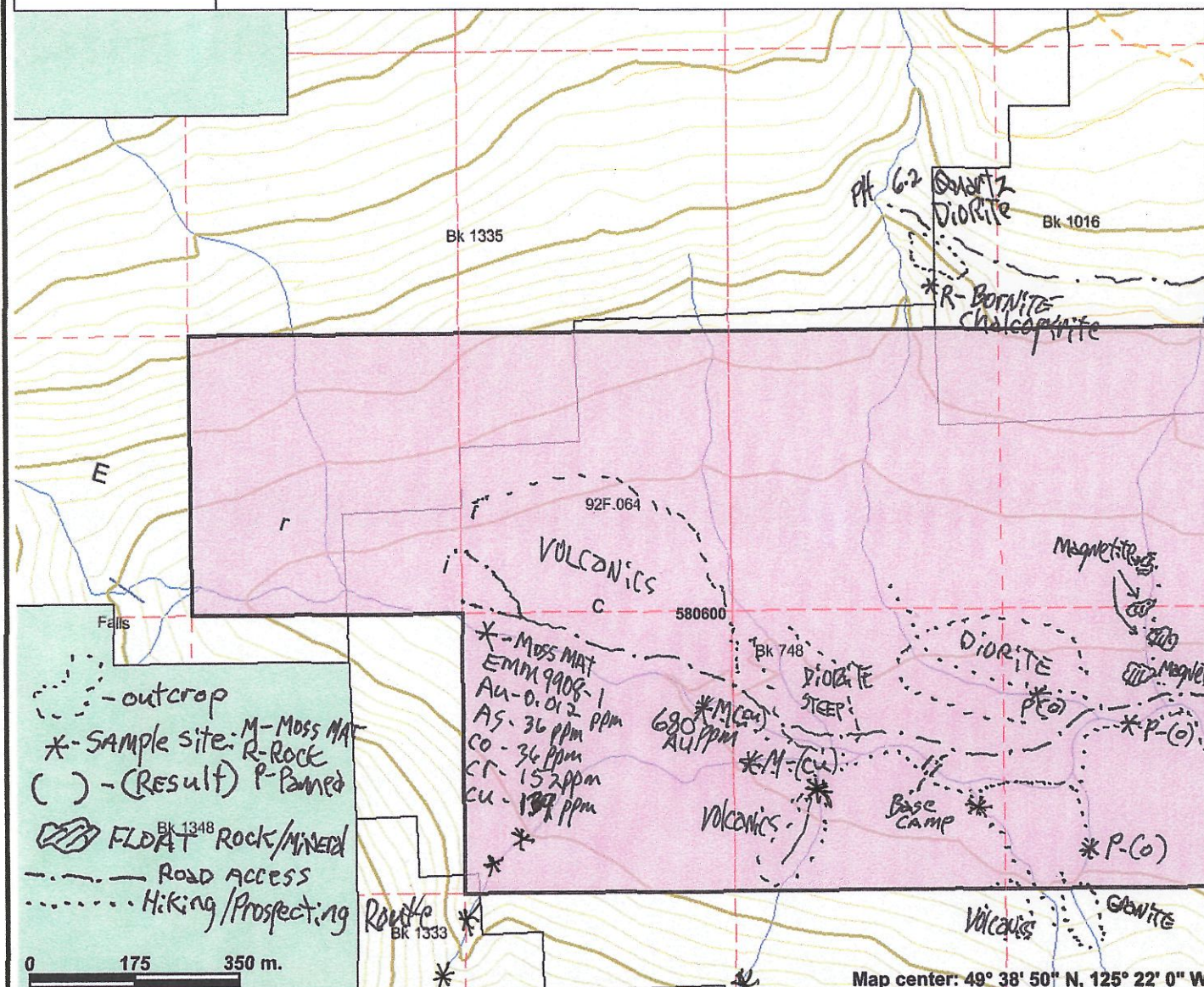
Scale: 1:10,000

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

\*Notes: Showing sample sites/results

Map center: 49° 38' 40" N, 125° 19' 37" W

# 580600 West



### Legend

- Indian Reserves
- National Parks
- Conservancy Areas
- Parks
- MTO Grid (MTO)**
- Blocked by MEM
- Other
- Mineral Tenure (current)**
- Mineral Claim
- Mineral Lease
- Mineral Reserves (current)**
- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others
- Integrated Cadastral Fabric
- Survey Parcels
- BCGS Grid
- Contours (TRIM)**
- Contour - Index
- Contour - Index.Indefinite
- Contour - Index.Depression
- Contour - Index.Depression Indefinite
- Contour - Intermediate
- Contour - Intermediate.Indefinite
- Contour - Intermediate.Depression
- Contour - Intermediate.Depression Indefinite
- Area of Exclusion

Scale: 1:10,000



Map center: 49° 38' 50" N, 125° 22' 0" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Notes: Sample sites/results

- outcrop  
 \* - Sample site: M - Moss Mat  
                   R - Rock  
 ( ) - (Result) P - Panned  
 FLOAT ROCK/MINED  
 --- ROAD ACCESS  
 ..... Hiking/Prospecting  
 Route  
 BK 1333

\* - Moss Mat  
 EMM 9908-1  
 Au - 0.012 ppm  
 AS - 36 ppm  
 CO - 36 ppm  
 CT - 152 ppm  
 CU - 137 ppm

680 \*M(Cu)  
 Au ppm

\*M-(Cu)

\*P-(o)

\*P-(o)

GLOWITE



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd

2103 Dollarton Hwy  
North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

TO: THORSEN, GARY  
PO BOX 8  
UNION BAY BC V0R 3B0

INVOICE NUMBER 2019891

### BILLING INFORMATION

Certificate: **VA10007343**  
 Sample Type: **Rock**  
 Account: **THORGA**  
 Date: **24-JAN-2010**  
 Project: **Freedom #2**  
 P.O. No.:  
 Quote:  
 Terms: **Due on Receipt** **C3**  
 Comments:

ANALYSED FOR			UNIT	TOTAL
QUANTITY	CODE	DESCRIPTION	PRICE	
1	BAT-01	Administration Fee	30.00	30.00
1	PREP-31	Crush, Split, Pulverize	6.75	6.75
1.48	PREP-31	Weight Charge (kg) - Crush, Split, Pulverize	0.65	0.96
1	Au-AA23	Au 30g FA-AA finish	14.55	14.55
1	ME-ICP61	33 element four acid ICP-AES	7.90	7.90
1	GEO-4ACID	Four acid "near total" dig	5.60	5.60

SUBTOTAL (CAD) \$ 65.76

R100938885 GST \$ 3.29

**TOTAL PAYABLE (CAD) \$ 69.05**

To: THORSEN, GARY  
PO BOX 8  
UNION BAY BC V0R 3B0

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name: ALS Canada Ltd.  
 Bank: Royal Bank of Canada  
 SWIFT: ROYCCAT2  
 Address: Vancouver, BC, CAN  
 Account: 003-00010-1001098

Please Remit Payments To :

## ALS Chemex

2103 Dollarton Hwy  
North Vancouver BC V7H 0A7



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Page: 2  
Total # Pages: 2 (A -  
Finalized Date: 24-JAN-20  
Account: THORC

Page 1

Project: Freedom #2

## CERTIFICATE OF ANALYSIS VA10007343

Sample Description	Method Analyte Units LOR	WEI-21	AU-AA23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
ECOCE 041009 Rock		1.48	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
		1.48	0.009	5.4	2.44	8	20	0.8	<2	0.30	<0.5	33	<1	204	>50	<10





# ALS Chemex

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2103 Dollarton Hwy

North Vancouver BC V7H 0A7

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To: THORSEN, GARY  
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Page: 2 -  
Total # Pages: 2 (A - 1)  
Finalized Date: 24-JAN-20  
Account: THORG

Project: Freedom #2

Page 2

**CERTIFICATE OF ANALYSIS VA10007343**

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
Units		%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
LOR		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
ECOCE 041009 <i>Rock</i>		0.04	<10	0.52	885	24	0.02	<1	120	9	0.01	<5	7	63	<20	0.10



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Page: 2 -  
Total # Pages: 2 (A - C)  
Finalized Date: 24-JAN-201  
Account: THORG

Project: Freedom #2

Page 3

## CERTIFICATE OF ANALYSIS VA10007343

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Tl	U	V	W	Zn
Units		ppm	ppm	ppm	ppm	ppm
LOR		10	10	1	10	2
ECOCE 041009 <i>ROCK</i>		<10	10	68	340	46



# ALS Chemex

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To: THORSEN, GARY  
PO BOX 8  
UNION BAY BC V0R 3B0

INVOICE NUMBER 2019887

### BILLING INFORMATION

Certificate: **VA10007344**  
 Sample Type: **Sediment**  
 Account: **THORGA**  
 Date: **24-JAN-2010**  
 Project: **Freedom #2**  
 P.O. No.:  
 Quote:  
 Terms: **Due on Receipt** **C3**  
 Comments:

ANALYSED FOR			UNIT	TOTAL
QUANTITY	CODE	DESCRIPTION	PRICE	
1	BAT-01	Administration Fee	30.00	30.00
5	LOG-22	Sample login - Rcd w/o BarCode	1.15	5.75
5	PUL-31	Pulverize split to 85% <75 um	3.90	19.50
5	Au-AA23	Au 30g FA-AA finish	14.55	72.75
5	ME-ICP61	33 element four acid ICP-AES	7.90	39.50
5	GEO-4ACID	Four acid "near total" dig	5.60	28.00

SUBTOTAL (CAD) \$ 195.50

R100938885 GST \$ 9.78

**TOTAL PAYABLE (CAD) \$ 205.28**

To: THORSEN, GARY  
PO BOX 8  
UNION BAY BC V0R 3B0

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name: ALS Canada Ltd.  
 Bank: Royal Bank of Canada  
 SWIFT: ROYCCAT2  
 Address: Vancouver, BC, CAN  
 Account: 003-00010-1001098

Please Remit Payments To :

## ALS Chemex

2103 Dollarton Hwy  
North Vancouver BC V7H 0A7





# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.

2103 Dollarton Hwy

North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: THORSEN, GARY  
PO BOX 8  
UNION BAY BC V0R 3B0

Page: 2 -  
Total # Pages: 2 (A - 1)  
Finalized Date: 24-JAN-2011  
Account: THOR

Project: Freedom #2

Page 2

## CERTIFICATE OF ANALYSIS VA10007344

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
		K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
		%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
EMFN-1		0.32	10	3.07	1565	2	1.52	70	750	8	0.06	5	31	213	<20	0.89
EMFS-2	MOSS MAT	0.24	10	3.57	1305	2	1.68	79	590	12	0.02	<5	36	193	<20	0.97
EMFS-3		0.25	10	3.61	1325	1	1.71	79	600	8	0.01	<5	36	195	<20	0.98
EMFS-4		0.26	10	3.57	1330	<1	1.66	85	620	8	0.02	<5	36	193	<20	0.97
EMFS-5		0.26	10	3.55	1365	1	1.65	81	670	11	0.03	6	36	192	<20	0.96



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To: THORSEN, GARY  
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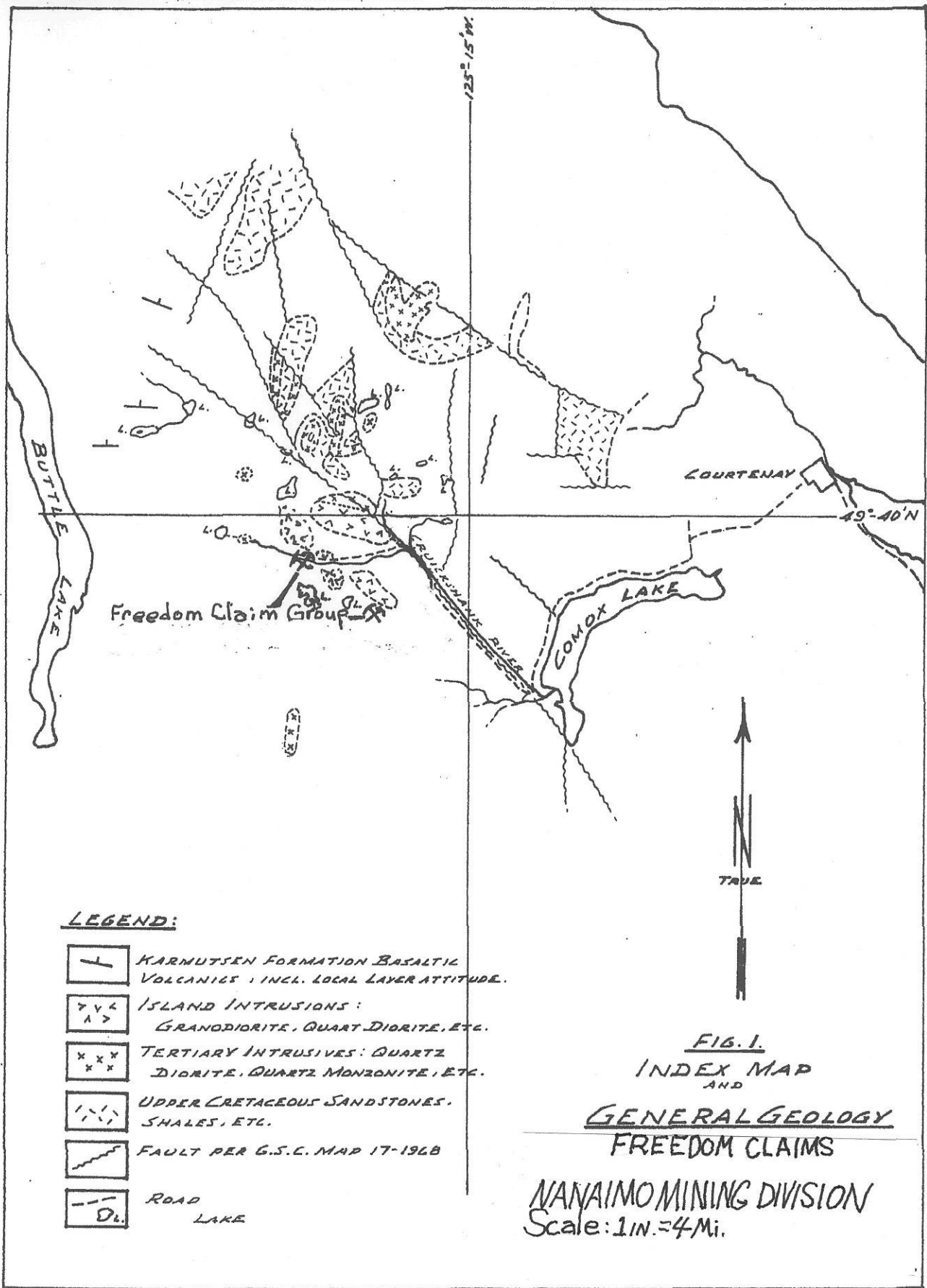
Page: 2 - C  
Total # Pages: 2 (A - C)  
Finalized Date: 24-JAN-2010  
Account: THORGA

Project: Freedom #2

Page 3

## CERTIFICATE OF ANALYSIS VA10007344

Sample Description	Method Analyte Units LOR	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		Tl	U	V	W	Zn
		ppm	ppm	ppm	ppm	ppm
		10	10	1	10	2
EMFN-1		<10	<10	275	<10	129
EMFS-2		<10	<10	321	<10	116
EMFS-3	MOSS MATT	<10	10	326	<10	121
EMFS-4		<10	<10	323	<10	122
EMFS-5		<10	<10	320	<10	137



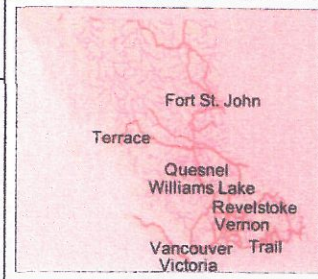
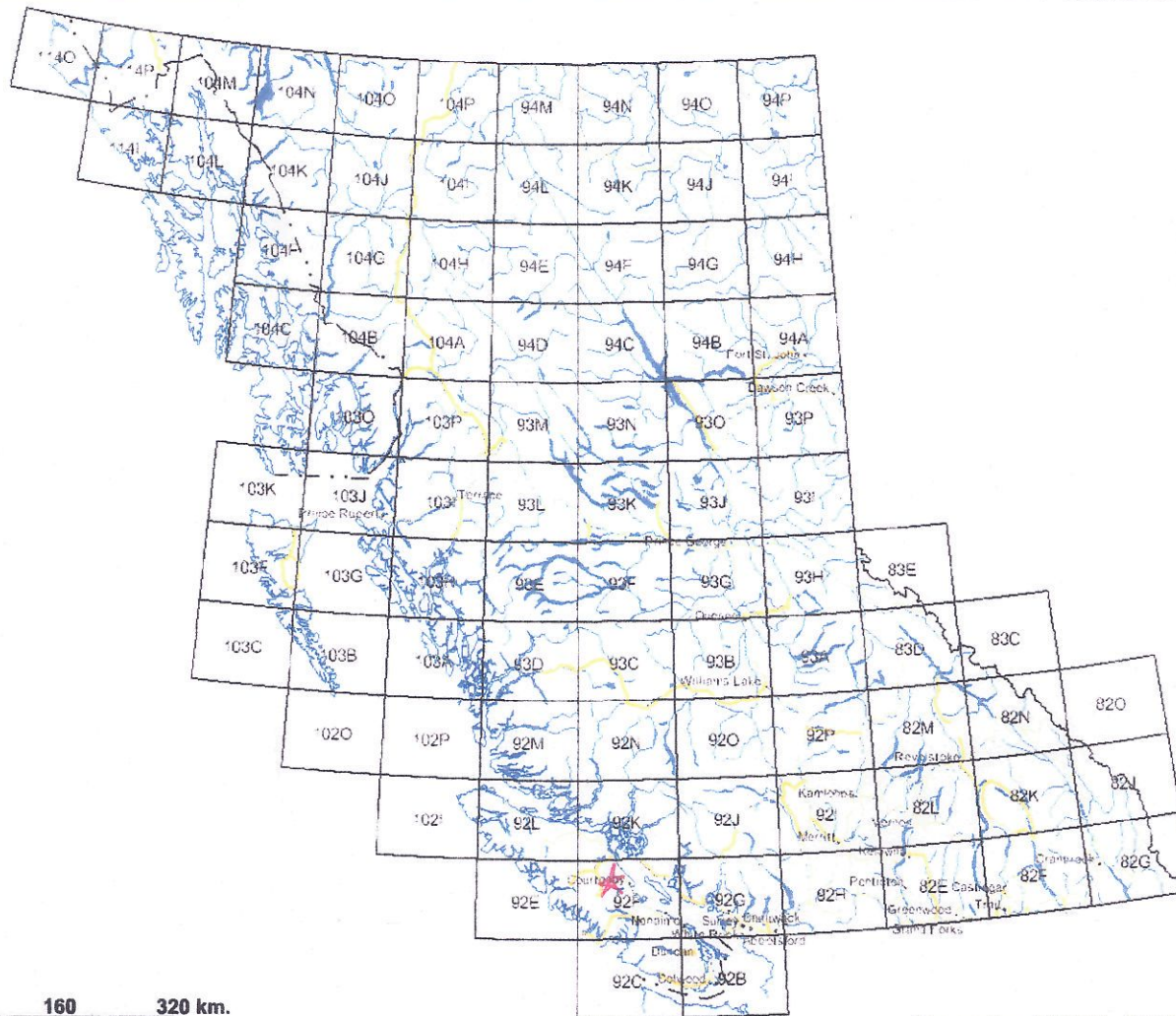
**LEGEND:**

- KARNUTSEN FORMATION BASALTIC VOLCANICS, INCL. LOCAL LAYER ATTITUDE.
- ISLAND INTRUSIONS: GRANODIORITE, QUARTZ DIORITE, ETC.
- TERTIARY INTRUSIVES: QUARTZ DIORITE, QUARTZ MONZONITE, ETC.
- UPPER CRETACEOUS SANDSTONES, SHALES, ETC.
- FAULT PER G.S.C. MAP 17-1968
- ROAD LAKE



**FIG. 1.**  
**INDEX MAP**  
 AND  
**GENERAL GEOLOGY**  
**FREEDOM CLAIMS**  
 NANAIMO MINING DIVISION  
 Scale: 1 in. = 4 mi.

# ★ Freedom Claim Location



## Legend

- Provincial Boundary (1:6M)
- Boundary (International)
- Boundary (Interprovincial)
- NTS Grid
- Transportation - Lines (1:6M)
  - Road - Trunk
  - Road - Main
  - Rail Line
- Water - Lines (1:6M)
  - River/Stream - Definite
  - Lake - Definite
  - Island - Definite
  - Coastline - Definite
- Water - Polygons (1:6M)
  - River/Stream - Definite
  - Lake - Definite
- Major Cities

Fig 2.

0 160 320 km.

Map center: 54°20' N, 126°5' W



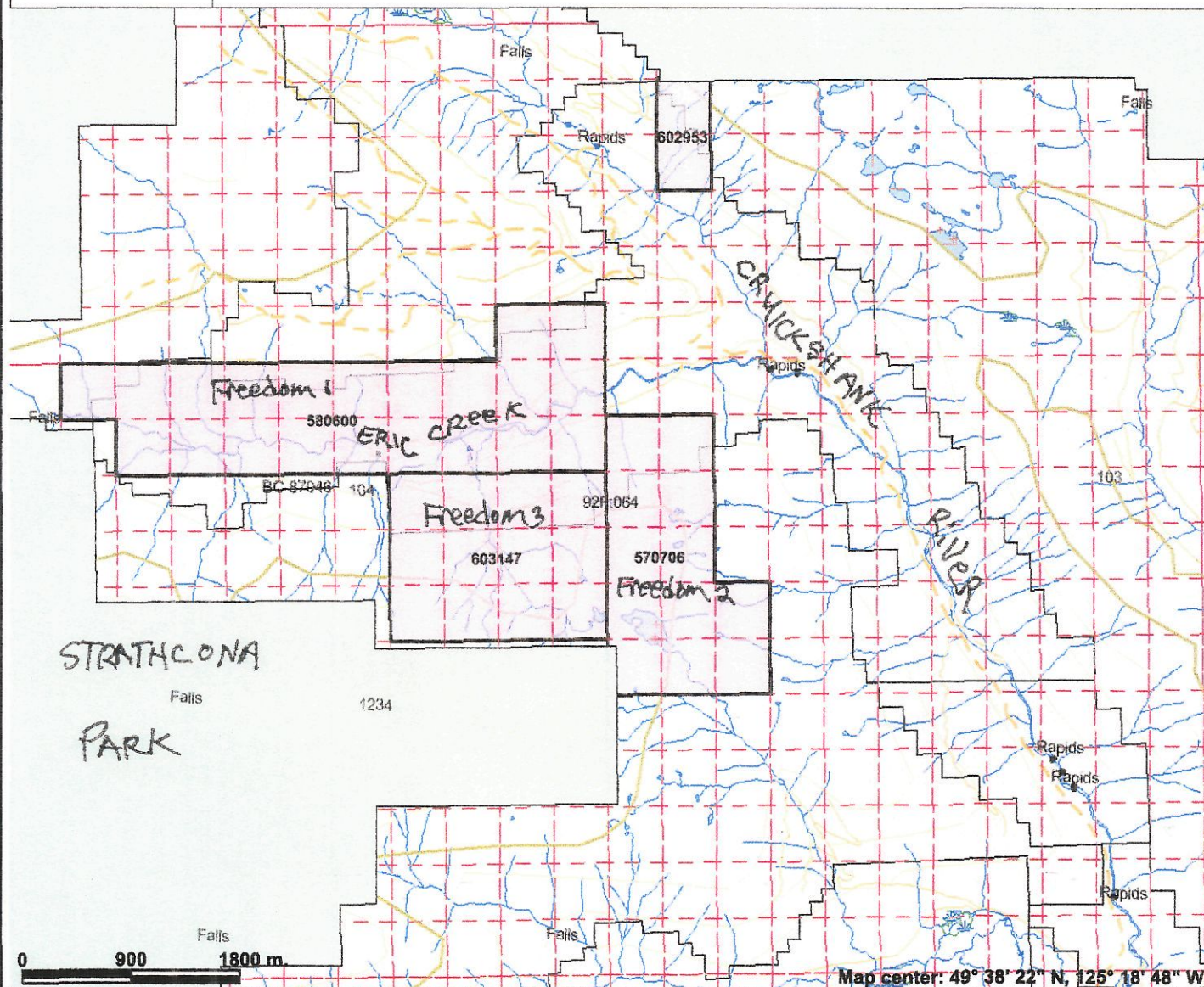
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This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Notes: Assessment Report



# Thorsen Freedom Claims



### Legend

- Indian Reserves
- National Parks
- Conservancy Areas
- Parks
- MTO Grid (MTO)
- Blocked by MEM
- Other
- Mineral Tenure (current)
- Mineral Claim
- Mineral Lease
- Mineral Reserves (current)
- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others
- Survey Parcels
- BCGS Grid
- Contours (1:250K)
- Contour - Index
- Contour - Intermediate
- Area of Exclusion
- Area of Indefinite Contours
- Transportation - Points (TRIM)
- Helipad
- Transportation - Lines (TRIM)
- Airfield
- Airport
- Airstrip

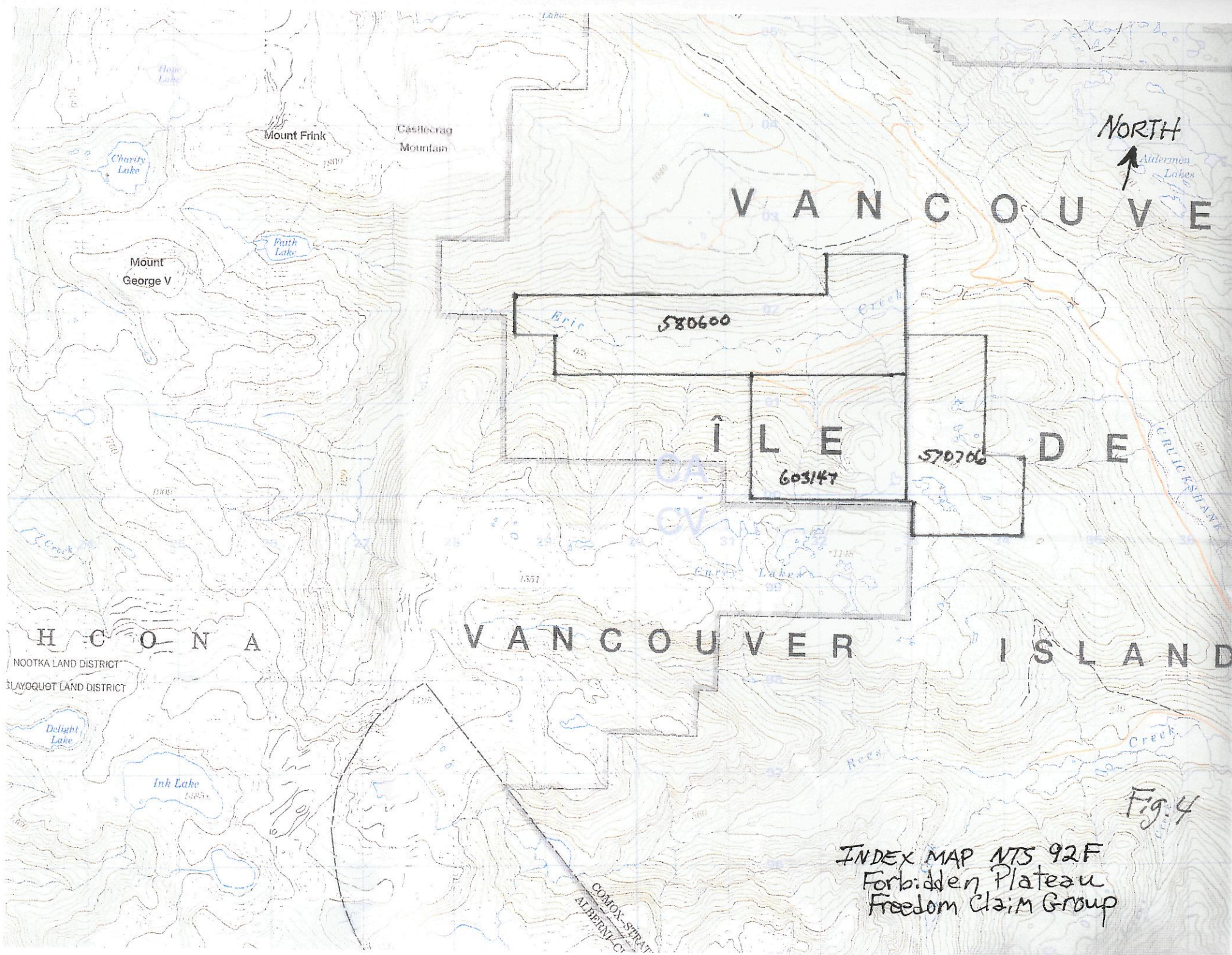
NTS 92F

Scale: 1:50,000

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Notes: Tenures: 570706, 580600, 603147

Fig. 3



NORTH  
↑  
Aldermen  
Lakes

VANCOUVER

580600

603147

570706

CA  
CV

HCONA

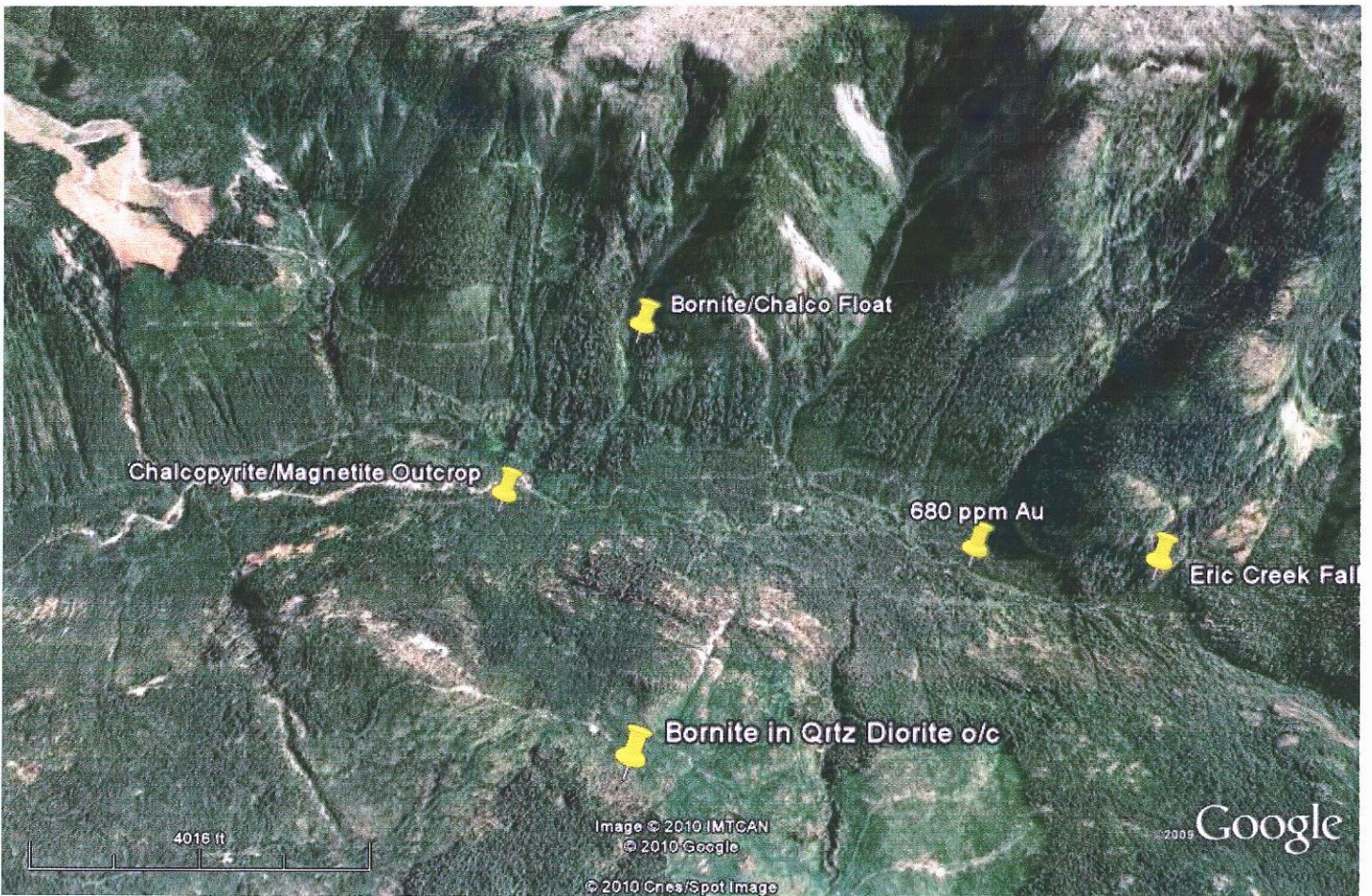
VANCOUVER ISLAND

NOOTKA LAND DISTRICT  
CLAYOQUOT LAND DISTRICT

Fig. 4

INDEX MAP NTS 92F  
Forbidden Plateau  
Freedom Claim Group

CONOX-SIRAT  
ALBERNI C



Freedom Claims - ERIC CREEK 92F-11W

Fig. 5

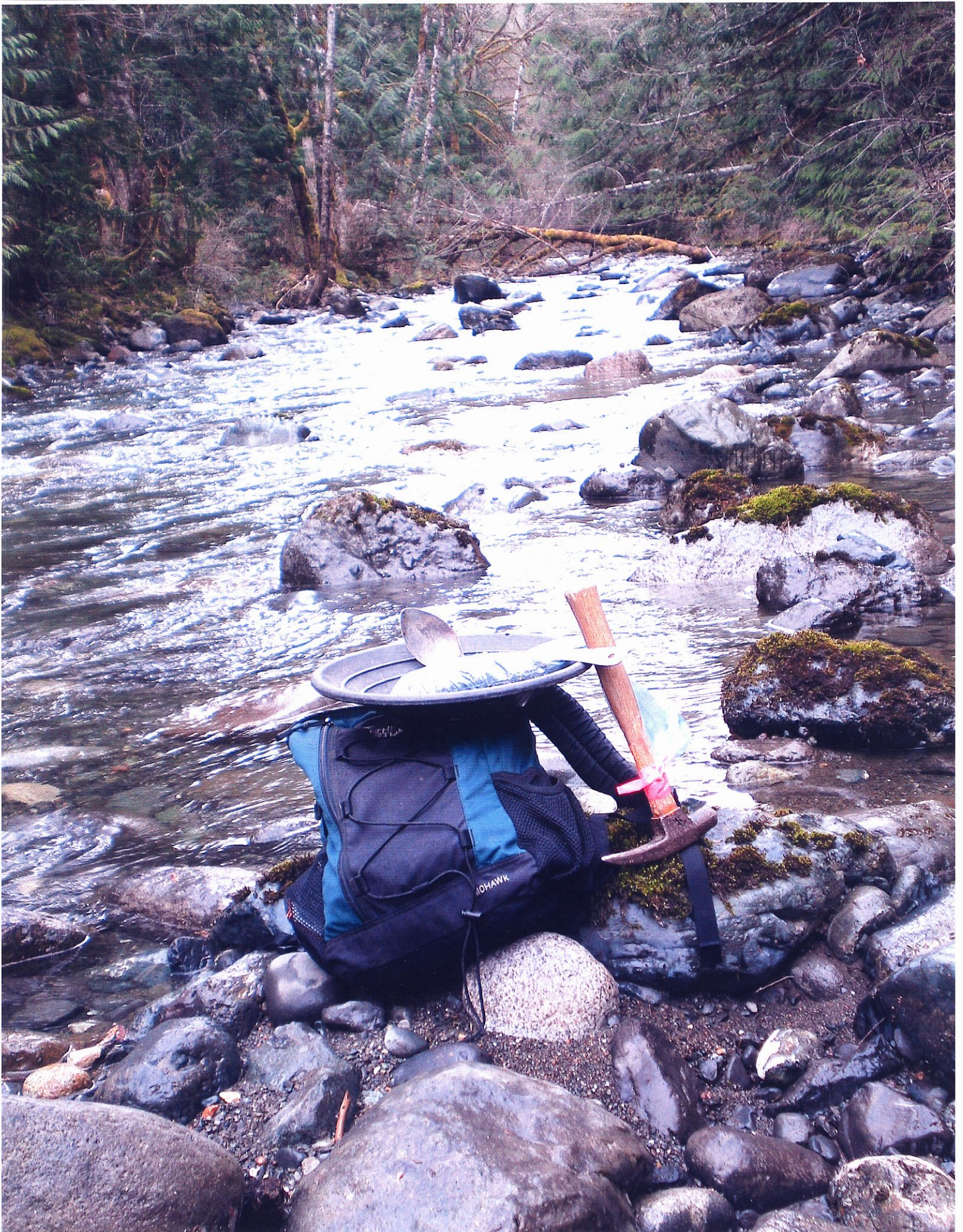


Page 1



Bornite in Qtz Diorite o/c





#1.



#2.



#3.



#4.



#5.





#6.



#7.