

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

PROGRAM YEAR: 1999/2000

REPORT #: PAP 99-37

NAME: ARNE BIRKELAND

**BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)**

B. TECHNICAL REPORT

- One technical report to be completed for each project area.
- Refer to Program Requirements/Regulations 15 to 17, page 6.
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (see section 16) required with this TECHNICAL REPORT.

Name ARNE BIRKELAND Reference Number 99/2000 P92

LOCATION/COMMODITIES

Project Area (as listed in Part A) KAMBER NORTH RECONNAISSANCE MINFILE No. if applicable _____

Location of Project Area NTS 1035 Lat 54°40' Long 130°00'

Description of Location and Access KHUTSEY MATEEN INLET AREA
Boat access from Prince Rupert, 80 Km.

Main Commodities Searched For Zn, Cu, Pb, Au, Ag, Massive Sulphide

Known Mineral Occurrences in Project Area
NONE

WORK PERFORMED

1. Conventional Prospecting (area) 10 km x 30 km (300 sq km)
2. Geological Mapping (hectares/scale) _____
3. Geochemical (type and no. of samples) 45 stream sediment, 15 rock chip samples
4. Geophysical (type and line km) _____
5. Physical Work (type and amount) _____
6. Drilling (no. holes, size, depth in m, total m) _____
7. Other (specify) _____

SIGNIFICANT RESULTS

Commodities Zn Claim Name _____

Location (show on map) Lat 54°43' Long 130°07' Elevation 1000'

Best assay/sample type Stream Sediments, 11 samples between 202 ppm and 410 ppm, Best Rock Chip 1,360 ppm over 0.3 m T.W.

Description of mineralization, host rocks, anomalies _____

Host Rocks - vasty felsic gneiss and felsic schist
Mineralization - regional distribution of py ± 5%,
principally as pyritic "units" concordant with
foliation
Anomalies - more prospecting required in areas of
Zn anomalies. See accompanying REPORT dated Jan 12, 2000

Supporting data must be submitted with this TECHNICAL REPORT

Information on this form is confidential for one year from the date of receipt subject to the provisions of the Freedom of Information Act.

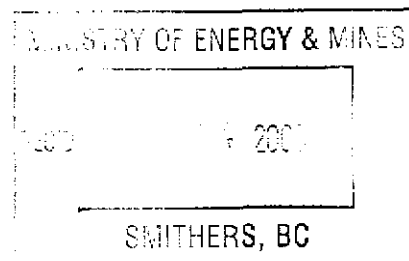
PROSPECTOR'S ASSISTANCE PROGRAM REPORT

**GAMBIER NORTH RECONNAISSANCE PROJECT
KHUTZEYMATEEN INLET AREA**

SKEENA MINING DIVISION

NTS: 103I, 103J

LAT: 54°40' LONG: 130°00'



Report by:

Arne Birkeland, P. Eng.

Report dated:

January 12, 2000

C:/mydocs/gnrdoc/gnrr9902

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- Appendix B. Statement of Expenditures
- Appendix C. Analytical Procedures and Certificates
- Appendix D. Geochemical Data Sheets

Prospectors Assistance Program Report Gambier North Reconnaissance Project

1. INTRODUCTION

1.1. General

A Prospector's Assistance Program ("PAP") Grant in the amount of \$10,000 was approved dated May 27, 1999 (Reference No. 99/2000 P92). The following Technical Report documents Prospecting and Geochemical Sampling conducted on the Gambier North Reconnaissance program.

A 58.5 man-day exploration program was carried out by Arne Birkeland (the "Grantee") assisted by Stan Seney, an experienced prospector-geotechnical assistant between August 2nd and September 16th, 1999.

As reported in Part A. Summary of Prospecting Activity, Prospecting Report Form, total project expenditures including wages and rentals are \$18,783.55. Field Expenses, paid items documented by receipt, total \$10,048.55.

Analytical costs for the 60 samples taken total \$1,012.02. As shown by the chart in Appendix B, Statement of Expenditures, analytical costs equal 10% of direct Field Expenses even though they are 5% of total Expenditures. Analytical costs also equal 10% of the \$10,000 grant that was awarded.

The number of samples taken was considerably less than the number anticipated due to the following logistical difficulties:

1. Very bad storm conditions were present on the North Coast during August and September, 1999. Access to the project area was by use of a 6m open boat to navigate approximately 80 km, much of which is open water exposed to Hecate Strait. Strong winds, tides and bad storms prevented access altogether on some days (as noted on the Summary of Prospecting activity) and only allowed partial workdays on others. There were no campsites with safe storm moorage anywhere near the project area. The participants were caught out in emergency fly-camp on three occasions during bad storms, with dangerously poor moorage.
2. The project area proved to be very rugged, with fjord walls rising steeply out of the ocean. Numerous traverses were very slow, and it often could take one man-day's time to get only 2 or 3 samples.
3. Additional prospecting and geochemical sampling was planned for Somerville Island but could not be carried out because of rough seas.

4. The project was stopped earlier than planned because long-term storm conditions would not have allowed for continuing with the program.

Because of the weather and topography, the only way to work productively in this area is to have a large boat with sufficient amenities to live-aboard. Daily work access could then be provided by open run-about.

1.2. Location and Access

The project area lies centered around Khutzeymateen Inlet, approximately 50 km northeast of Prince Rupert, BC. (See Figure 1A, 1b, Location Maps). The area is within the Skeena Mining Division, NTS 103I and 103J at approximately Latitude 54°40' and Longitude 130° 00'.

The project area includes the northwestern two thirds of Khutzeymateen Inlet outside of the park area at the head of the inlet, which has been protected as grizzly bear habitat (See Figure 5, Parks).

Access to the area is by boat to Khutzeymateen Inlet from Prince Rupert, a distance of approximately 80 km. A fixed-wing floatplane was also used to evacuate an emergency fly-camp that was set up at Kumeon Bay in Steamer Passage. Boat access was also used to access Quottoon Inlet from a truck/camper fly camp at the head of Work Channel.

2. HISTORY

There is no record of any previous exploration activity by industry in the area. An RGS program was conducted by the B.C.G.S.B during the early 1990's, which identified base metal anomalies (primarily Zn), associated with Mesozoic rocks. Geology, Geochemistry and other data for the area was accessed through WWW.EM.GOV.BC.CA/GEOLOGY, the Map Place and Exploration Assistant was used to identify and document the exploration targets present in the selected area (Figure 3, Geology, Figure 6, RGS Zinc Geochemistry).

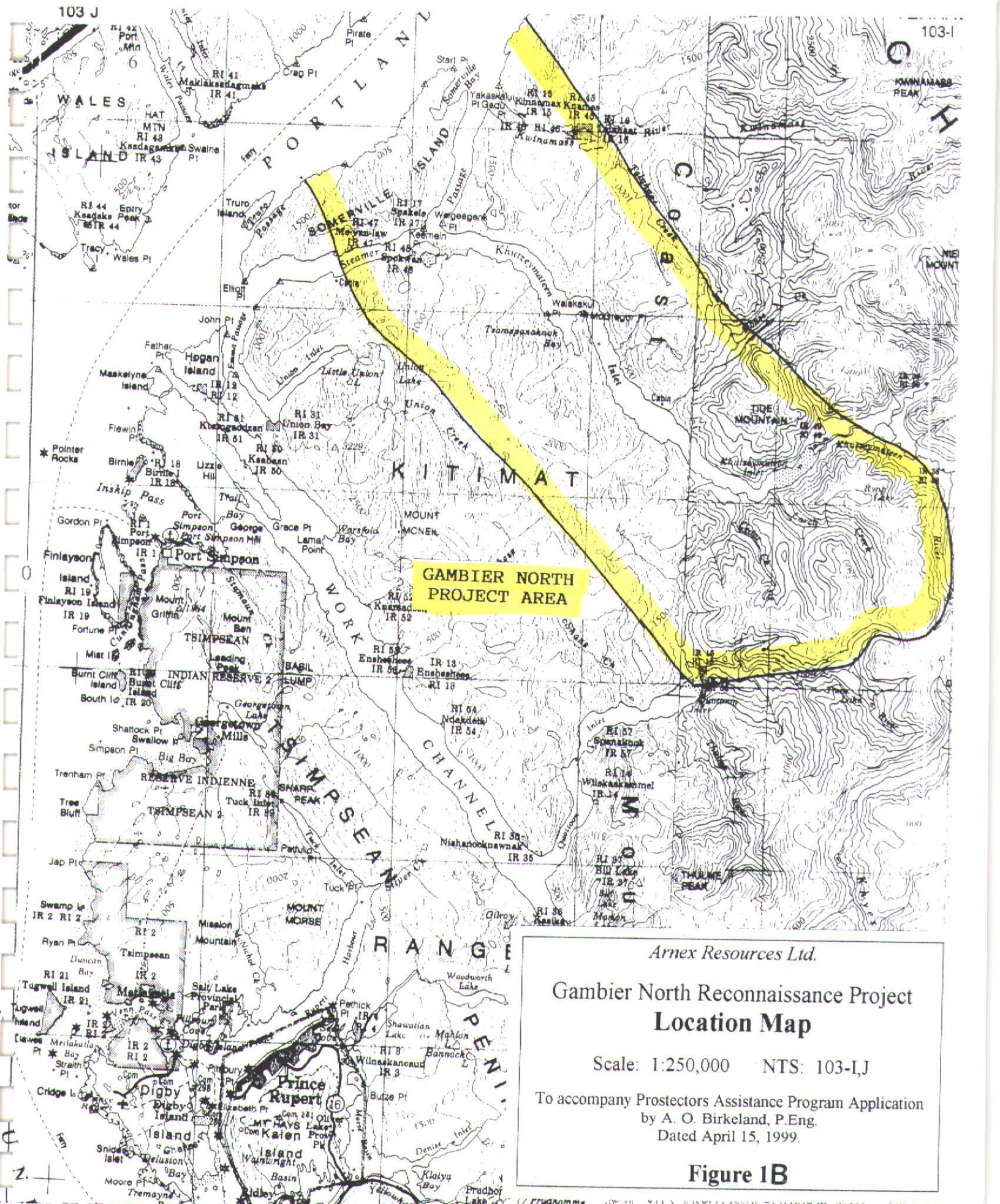
3. GEOLOGY

3.1. Regional Geology

The prospecting area lies within undifferentiated Metamorphic Terrane of the Coast Belt. The Coast Metamorphic Belt is adjacent to, and partially overlies Alexander Terrane directly to the west.



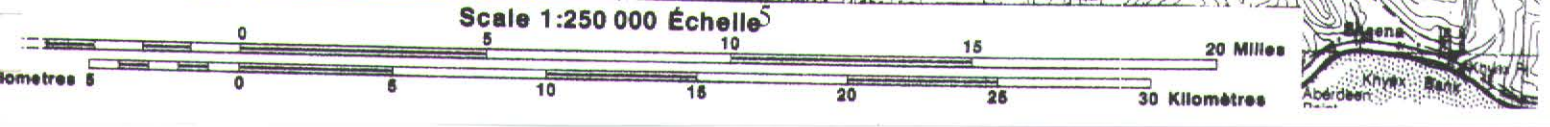
Gambier North Reconnaissance Project
Project Location Map
PAP Guidebook, 1998 January 2000
Figure 1A



**GAMBIER NORTH
PROJECT AREA**

Arnex Resources Ltd.
**Gambier North Reconnaissance Project
 Location Map**
 Scale: 1:250,000 NTS: 103-IJ
 To accompany Proectors Assistance Program Application
 by A. O. Birkeland, P.Eng.
 Dated April 15, 1999.

Figure 1B



The area is underlain by rocks mapped as unit 2b, feldspathic schist, impure quartzite and hornblende schist, Figure 2, Geology, Prince Rupert, Skeena. Rocks in this area are also mapped as unit JKG, lower Cretaceous Gambier group, as illustrated in Figure 4, Digital Geology Map, Mineral Potential Block CP21.

Unit 2b schistose metasedimentary and metavolcanic rocks lie along a northwestern trending synclinorium best exposed along the eastern shore of Khutzeymateen Inlet. The foliation dips vertical in the core of the synclinorium, with dips flattening to the west and east of the synclinal structure. The Gambier group "pendant" is hosted within the Central Gneiss Complex of uncertain Paleozoic age. The Quottoon pluton, mainly quartz diorite and granodiorite in composition, flanks the Gambier group and Central Gneiss complex to the west. The Quottoon pluton is interpreted to be a less evolved equivalent of the Devonian? Ecstall pluton to the southwest.

Major northwest trending strike slip faults control the physiography of Work Channel, Khutzeymateen Inlet and many inlets on Somerville and Whales Islands. These trans-current faults are generally steeply dipping and show right lateral movement. Northeastern dipping high angle normal faults area also present as reflected by Portland Inlet, Steamer Passage, Ensheshese River-Mouse Creek, and upper Quottoon Inlet.

Hutchinson (1982) interprets northeast normal faults to be ancient features while northwest strike slip faults are younger structures related to current plate tectonics.

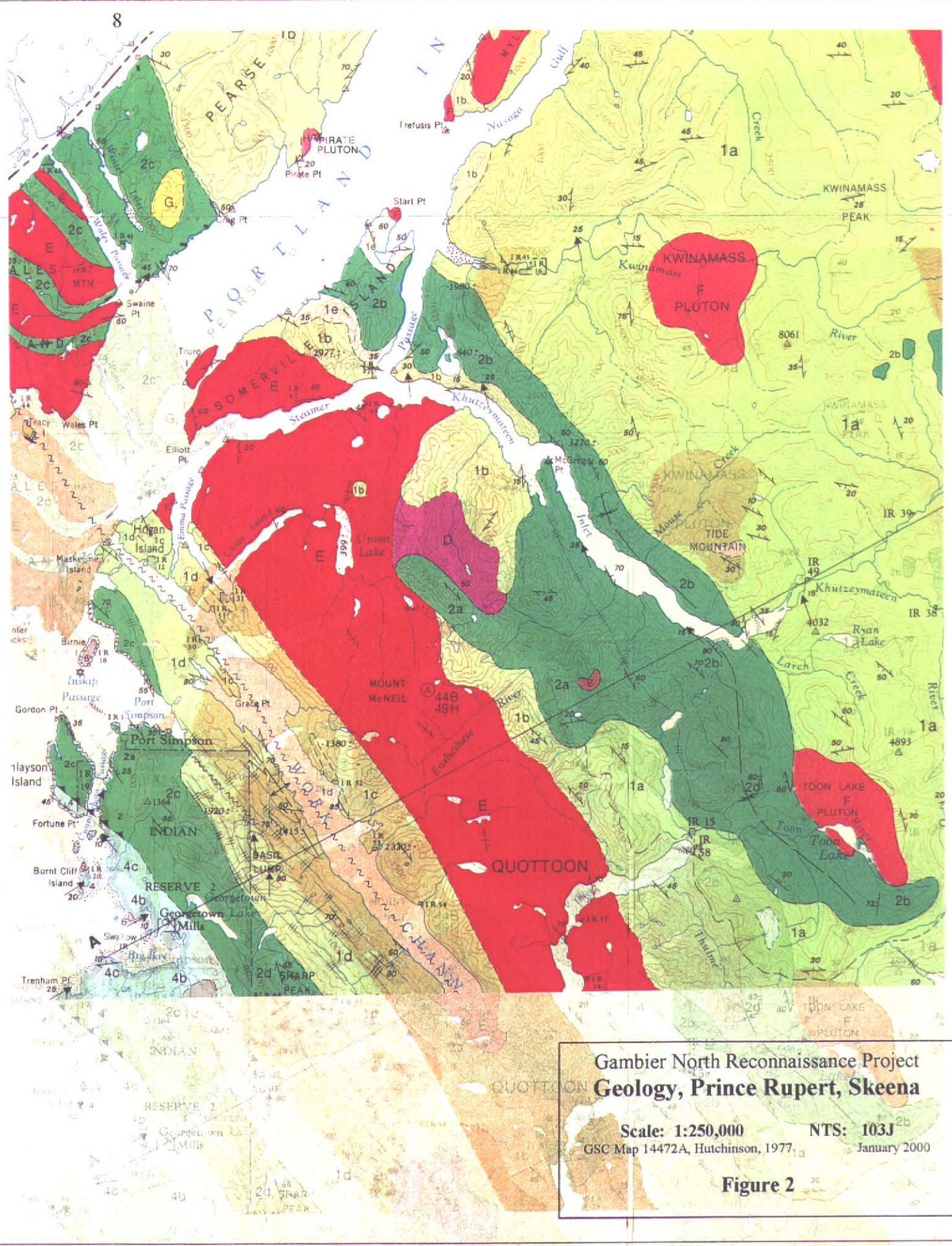
3.2. Local Geology

The prospecting area is centered on a belt of layered Mesozoic rocks in a northwest trending belt extending 50 km by 10 km wide. (See Figures 2, 3, 4).

Rocks in this area were originally mapped as the Middle Jurassic to Lower Cretaceous Gravina Assemblage. The rocks are described as being marine argillite and greywacke containing interbedded andesitic to basaltic volcanic and volcanoclastic rocks that have been metamorphosed to amphibolite grade. This rock assemblage depositionally overlies Alexander Terrane.

The rocks have more recently been re-classified by the tectonic assemblage mapping as belonging to the Lower Cretaceous Gambier Group. The Gambier group is characterized by thick-bedded andesite to rhyolite flows, tuff and breccia, with minor clastic sedimentary rocks. The Gambier Group is Hauterivian in age in southwestern BC (NTS 93E).

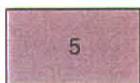
Rusty weathering, pyritic felsic schists and micaceous gneissic rocks trend in a belt from southwest of McGregor Point, passing through McGregor peninsula, and trending northwestwards along the eastern shore of Khutzeymateen Inlet. Numerous gossanous outcrops are associated with this unit. The rocks are interpreted as being metamorphosed altered pyritic felsic volcanics. Local distributions of large relict breccia fragments



Gambier North Reconnaissance Project
Geology, Prince Rupert, Skeena
 Scale: 1:250,000 NTS: 103J
 GSC Map 14472A, Hutchinson, 1977 January 2000
Figure 2

LATE JURASSIC

BOWSER LAKE GROUP (?)



5

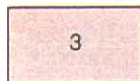
Greywacke and argillite

EARLY MESOZOIC (?) and/or PALEOZOIC (?)



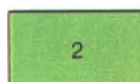
4

Metasedimentary rocks of greenschist facies: 4a, Black to dark grey graphite schist; 4b, Intercalated pale and dark schist; 4c, Intercalated chlorite and sericite schist



3

Weakly metamorphosed volcanic rocks: 3a, Tuff; 3b, Agglomerate and volcanic breccia; 3c, Rhyolite tuffs and flows; 3d, Schistose metavolcanic rocks; 3e, Mixed volcanic and plutonic rocks; 3f, Limestone, quartzite and sericite schist; minor graphite schist (These are mappable intercalations in the metavolcanic rocks)

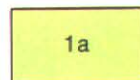


2

Metasedimentary rocks of amphibolite facies: 2a, Rusty weathering muscovite ± biotite ± garnet ± amphibole schist; minor amphibolite and micaceous quartzite; 2b, Feldspathic schist, impure quartzite and hornblende schist; 2c, Dark greenish grey hornblende ± biotite ± garnet schist and impure quartzite with rare intercalated marble; 2d, Black to dark grey graphite schist with local interbedded conglomerate, greywacke and marble; 2e, Mt. Morse felsic rocks of uncertain origin; 2f, Marble

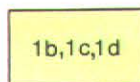
PALEOZOIC (?)

CENTRAL GNEISS COMPLEX



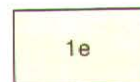
1a

Dominantly buff grey leucogneiss and migmatite



1b,1c,1d

1b, Dominantly grey biotite ± hornblende gneiss, amphibolite, minor sillimanite ± garnet gneiss; 1c, Work Channel amphibolite; 1d, Dominantly biotite hornblende gneiss, amphibolite and minor migmatite, rare biotite ± muscovite ± garnet ± kyanite schist and gneiss



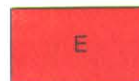
1e

Migmatitic plutonic rock



F

Granodiorite, minor quartz diorite, quartz monzonite



E

Quartz diorite, minor diorite, granodiorite



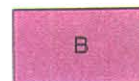
D

Diorite, minor quartz diorite



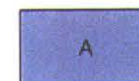
C

Gabbro and diorite



B

Ultrabasic rock



A

Older plutonic rocks

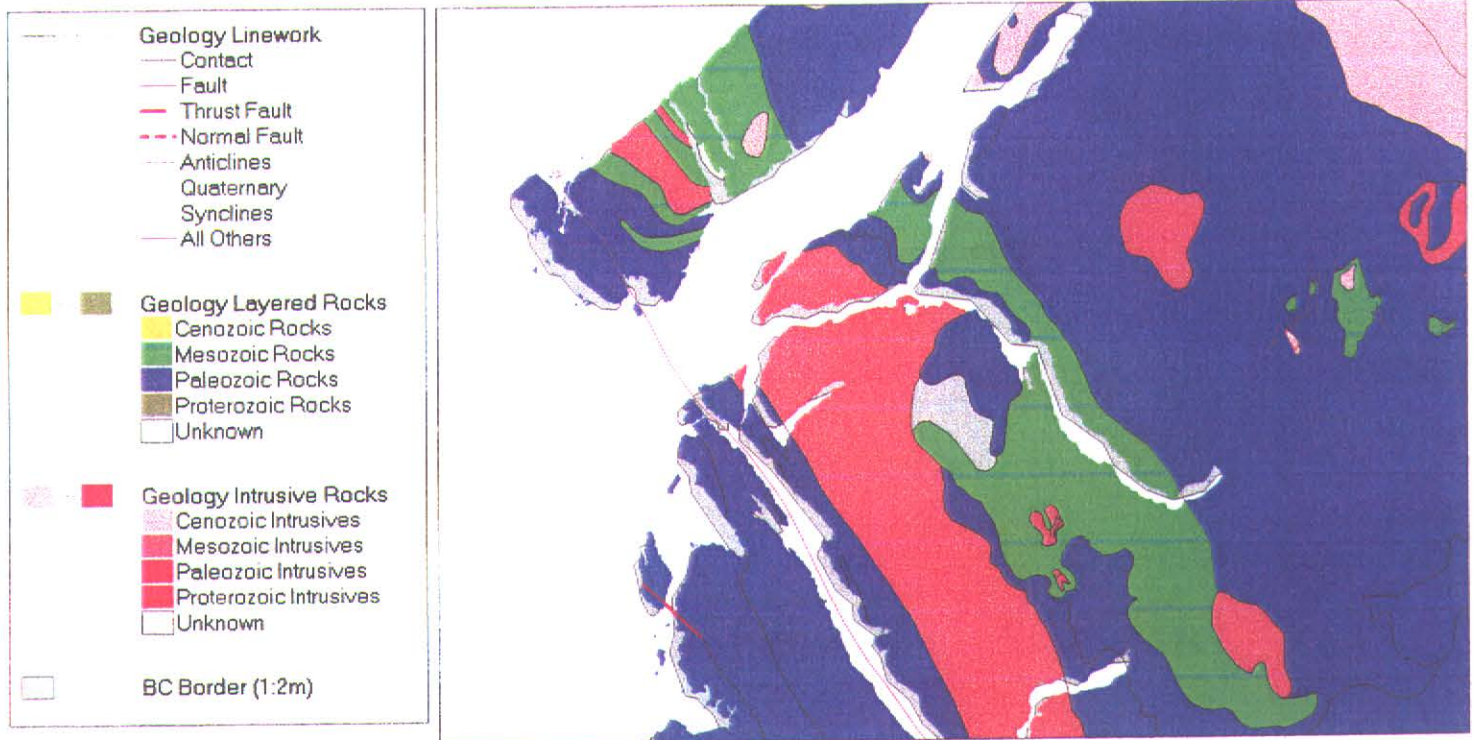
Gambier North Reconnaissance Project
Geology, Prince Rupert, Skeena

Scale: 1:250,000
GSC Map 14472A, Hutchinson, 1977

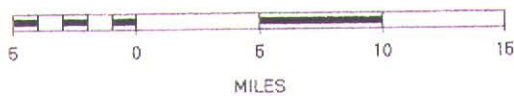
NTS: 103J
January 2000

Legend

Geology - Gambier North Project



SCALE 1 : 500,000



Gambier North Reconnaissance Project
Geology

Scale: 1:500,000 NTS: 103J/9
Compiled by Arne Birkeland, P.Eng. January 2000

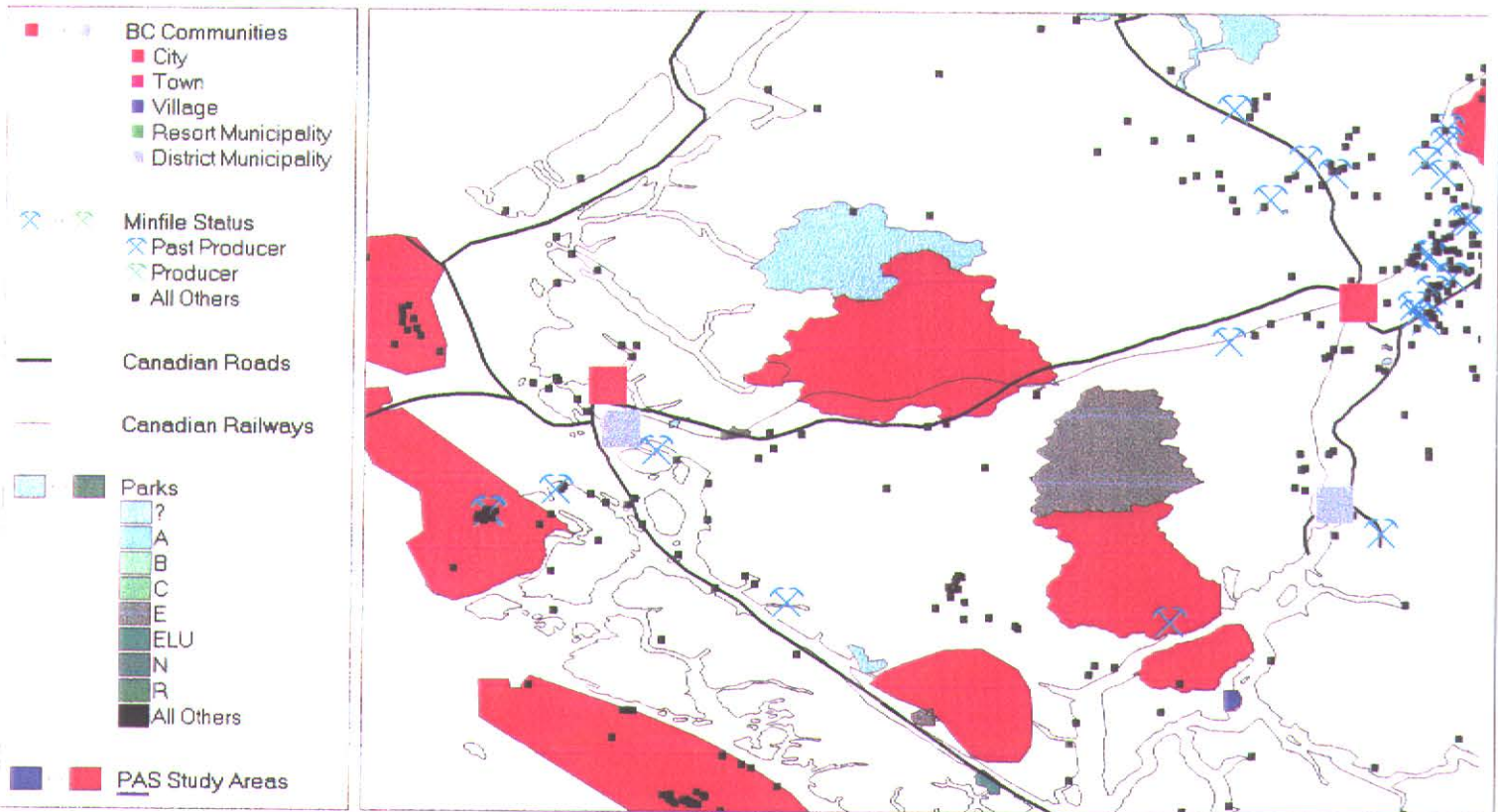
Figure 3



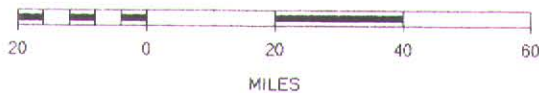
Gambier North Reconnaissance Project
Digital Geology Map
Mineral Potential Block CP21
 Scale: 1:250,000 NTS: 103J
 Compiled by BCDM, GSB February 1995

Figure 4

Khutzemateen - Scotia - Parks



SCALE 1 : 1,909,954



Gambier North Reconnaissance Project
Khutzemateen, Parks

NTS: 103J/9

Compiled by Arne Birkeland, P.Eng

January 2000

Figure 5

indicate some of the rocks may be vent proximal pyroclastic (rhyolite) breccias hosted in felsic tuffs and domes.

The Gambier group constitutes an economically important Island Arc Belt and related distal basinal rocks that occur as discontinuous belts and pendants marginal to the Coast Plutonic Complex extending from southwestern BC and trending northwestward into southeast Alaska. The Gambier Group equivalent rocks host the Britania Mine where 50 million tons of historical base metal production came from several associated and stacked polymetallic VMS deposits. Important VMS occurrences have been discovered in the Alaska *Panhandle* in correlative rocks.

3.3. Geochemistry

As can be seen on the accompanying Figure 6, RGS Geochemistry, the Gambier group in this belt is highly anomalous in Zinc on a regional basis. Numerous values >95th percentile are present and range between 200 and 350 ppm. Threshold values of 100 ppm zinc (or less) are usually associated with Greenstone Island Arc belts in the Cordillera. There are also isolated copper and lead anomalies coincident with some zinc anomalies. There are no RGS gold values analyzed for in this area.

4. 1999 RECONNAISSANCE PROGRAM

4.1. Introduction

The objective of the 1999 program was to follow-up the RGS program and to establish and evaluate geochemical anomalies and related base metal mineralization. Specifically, prospecting and examination of float in anomalous drainages was conducted in an attempt to determine the host rocks and classification of mineralization reflected by the RGS geochemical anomalies.

Prospecting and an extensive stream sediment survey were carried out in drainages that are underlain by the favourable felsic meta-volcanic unit. Fifteen rock chip and forty five stream sediment samples were taken over the 40 km by 10 km belt. Prospecting and sampling was concentrated around the McGregor Point area where numerous gossans in the cliff faces can be seen from the water.

Selected Stream Sediment Geochemical Values are tabulated in Table 1, and Rock Chip values are contained in Table 2. All samples and base metal values are plotted on either Figure 7, Regional Sample Location Map, or Figure 8, Detailed Sample Location Map. Analytical Procedures and Certificates are contained in Appendix C. All samples taken are described in Appendix D, Geochemical Data Sheets.

Table 1
GNR Reconnaissance Program
Khutzeymateen Inlet Project Area

Selected Stream Sediment Geochemical Values

A9928268 - CERTIFIED
 CLIENT : "ARNEX RESOURCES LIMITED"
 # of SAMPLES : 45
 DATE RECEIVED : 08-SEP-1999
 PROJECT : "GNR"
 CERTIFICATE COMMENTS : "ATTN: ARNE BIRKELAND"

Sample No	Au ppb	Ag ppm	As ppm	Ba ppm	Cd ppm	Cu ppm	Fe %	Hg ppm	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
99601	<5	<0.2	<2	90	<0.5	23	2.64	<1	235	5	17	2	90
99602	<5	<0.2	<2	150	0.5	33	2.69	<1	325	5	28	<2	126
99603	<5	<0.2	<2	70	1	20	3.57	<1	325	3	15	<2	112
99604	<5	<0.2	2	90	1.5	31	3.02	<1	405	7	25	6	224
99605	<5	<0.2	2	110	<0.5	31	2.33	<1	240	4	21	6	98
99606	<5	<0.2	<2	140	0.5	36	2.77	<1	300	4	26	<2	136
99607	<5	<0.2	<2	90	<0.5	20	4.24	<1	400	1	16	2	68
99608	<5	<0.2	<2	80	<0.5	22	4.37	<1	400	4	14	<2	54
99609	<5	<0.2	<2	180	<0.5	29	3.81	<1	410	3	17	<2	58
99610	<5	<0.2	<2	200	<0.5	16	2.91	<1	350	2	15	<2	76
99611	<5	<0.2	<2	200	<0.5	21	3.17	<1	365	4	14	<2	76
99612	<5	<0.2	<2	210	<0.5	19	3.15	<1	380	4	16	2	74
99613	<5	<0.2	<2	220	<0.5	15	2.79	<1	340	4	15	<2	74
99614	<5	0.2	<2	250	3	63	4.23	<1	455	10	40	<2	318
99615	<5	<0.2	<2	230	3.5	26	2.69	<1	465	6	36	<2	238
99616	<5	0.2	<2	250	2.5	48	3.75	<1	460	6	39	<2	288
99617	<5	0.2	<2	240	3	60	4.13	<1	505	8	44	<2	314
99618	<5	<0.2	<2	270	4	31	3.26	<1	835	5	34	<2	304
99619	<5	0.2	<2	270	3	70	4.6	<1	565	7	51	<2	338
99620	<5	0.4	<2	330	3.5	74	4.77	<1	735	8	62	4	410
99621	<5	<0.2	<2	120	<0.5	13	2.73	<1	380	3	26	6	62
99622	<5	<0.2	<2	190	0.5	19	3.2	<1	1130	2	41	6	82

Table 1 (con't)
GNR Reconnaissance Program
Khutzeymateen Inlet Project Area

Selected Stream Sediment Geochemical Values

A9928268 - CERTIFIED
 CLIENT : "ARNEX RESOURCES LIMITED"
 # of SAMPLES : 45
 DATE RECEIVED : 08-SEP-1999
 PROJECT : "GNR"
 CERTIFICATE COMMENTS : "ATTN: ARNE BIRKELAND"

Sample No	Au ppb	Ag ppm	As ppm	Ba ppm	Cd ppm	Cu ppm	Fe %	Hg ppm	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
99801	<5	<0.2	2	70	<0.5	23	1.76	<1	190	3	15	<2	38
99802	<5	<0.2	<2	130	<0.5	31	2.44	<1	260	3	22	<2	50
99803	<5	<0.2	<2	140	<0.5	19	3.49	<1	465	2	28	<2	70
99804	<5	<0.2	<2	50	<0.5	4	6.98	<1	200	1	7	<2	22
99805	<5	<0.2	<2	50	<0.5	5	2.15	<1	135	<1	6	<2	18
99806	<5	<0.2	<2	180	<0.5	11	2.98	<1	425	3	12	<2	62
99807	<5	<0.2	<2	210	<0.5	12	3.3	<1	435	2	13	<2	62
99808	<5	<0.2	<2	210	<0.5	24	3.44	<1	425	1	18	<2	92
99809	<5	<0.2	<2	320	<0.5	29	2.93	<1	380	4	25	<2	68
99810	<5	<0.2	<2	160	<0.5	18	3.44	<1	575	4	19	<2	84
99811	<5	<0.2	<2	150	<0.5	21	3.23	<1	570	3	24	<2	48
99812	<5	<0.2	<2	90	<0.5	19	3.98	<1	415	3	16	2	60
99813	<5	<0.2	<2	180	<0.5	39	3.93	<1	725	5	28	16	130
99814	<5	<0.2	<2	330	1	49	4.29	<1	760	7	47	<2	198
99815	<5	<0.2	<2	300	0.5	39	3.66	<1	615	5	39	2	146
99816	<5	<0.2	<2	330	1	53	4.46	<1	790	8	45	2	194
99817	<5	<0.2	<2	300	1.5	70	4.98	<1	980	7	52	2	206
99818	<5	<0.2	<2	280	1	43	3.94	<1	640	7	42	<2	162
99819	<5	<0.2	<2	320	1.5	61	4.99	<1	1130	8	48	<2	202
99820	<5	<0.2	<2	340	1	63	4.99	<1	1010	8	57	<2	208
99821	<5	<0.2	<2	370	0.5	49	3.34	<1	380	5	61	2	158
99822	<5	<0.2	<2	260	<0.5	19	4.78	<1	1095	2	41	2	68
99823	<5	<0.2	<2	270	<0.5	14	3.41	<1	650	2	47	2	60

Table 2
GNR Reconnaissance Program
Khutzeymateen Inlet Project Area

Selected Rock Chip Geochemical Values

A9928273 - CERTIFIED
 CLIENT : "ARNEX RESOURCES LIMITED"
 # of SAMPLES : 16
 DATE RECEIVED : 08-SEP-1999
 PROJECT : "SCOTIA NORTH"
 CERTIFICATE COMMENTS : "ATTN: ARNE BIRKELAND"

Sample No	Au ppb	Ag ppm	As ppm	Ba ppm	Cd ppm	Cu ppm	Fe %	Hg ppm	Mn ppm	Mo ppm	Ni ppm	Pb ppm	Zn ppm
301651	<5	1	<2	130	2	86	4.78	2	540	4	26	2	42
301652	<5	<0.2	<2	140	<0.5	25	1.59	<1	215	4	1	<2	32
301653	<5	<0.2	<2	180	<0.5	22	3.12	<1	335	3	13	<2	38
301654	<5	<0.2	<2	140	<0.5	41	3.5	<1	440	3	10	<2	38
301655	<5	4.2	18	50	4.5	27	3.33	1	185	3	68	20	1360
301656	<5	0.6	<2	80	<0.5	41	4.9	1	790	3	23	<2	76
301657	<5	0.8	<2	100	1	50	3.45	<1	890	17	49	<2	112
301658	<5	0.6	<2	100	<0.5	39	3.64	<1	550	4	25	<2	84
301659	<5	0.6	<2	60	2	45	2.35	<1	30	28	70	<2	82
301660	<5	<0.2	<2	140	<0.5	30	2.01	<1	265	3	42	<2	22
301661	<5	0.6	<2	10	4	42	2.87	<1	285	11	50	<2	200
301662	<5	2	24	30	2	128	7.97	<1	420	13	64	<2	166
301663	<5	0.6	<2	440	16	42	2.21	<1	470	23	34	<2	672
301664	<5	<0.2	<2	70	2.5	32	7.73	<1	1085	3	45	2	154
301665	<5	0.6	2	210	2	34	3.98	<1	460	11	24	<2	194
301666	<5	2.6	<2	120	21.5	84	4.58	<1	860	14	28	<2	834

Moss mat sampling was employed whenever possible. Moss mat sampling has been conducted by the author taking hundreds of moss mat and active stream sediment samples in West Coast mountainous terrane over the past ten years. Moss mat sampling generally returns the same values as active stream sediments for the hydromorphically transported elements such as Zn, Cu and Ag. Moss mats give higher values and better anomaly contrasts for mechanically transported metals such as Au, Pb and W. In many steep West Coast drainage's, there is no active stream sediment to sample while moss mats are generally always abundant within the freshet level of the drainage. Within the mat roots is trapped sediment that provides an ideal sampling median.

Threshold values for determining anomalies for various elements are presented in Table 3. Threshold values were determined utilizing RGS statistical data combined with personal experience from West Coast sampling with similar underlying geology. The 95% anomalies are highlighted on Figure 8.

Table 3
Stream Sediment Threshold Values

Percentile	Threshold Values (ppm)				
	Ag	Ba	Cu	Pb	Zn
95%ile	.04	330	45	6	200
98%ile			60		300

4.2. Results

4.2.1. Regional Results

No anomalous stream sediment values were present for samples taken in the southeastern region of the project area (See Regional Map, Figure 8). Two samples had elevated Ag, but this is considered due to the geologic setting as opposed to reflecting a mineralized source.

In the northern end of the project area, rock sample 301659 returned an elevated value for Cu. This may be significant in that those anomalies from the Detailed Sample area to the southeast trend in this direction. The sample is described as being a meta-argillite containing pyrite laminations.

4.2.2. McGregor Point – “Wal” Point (“Walskakul” Point) Area

Twelve stream sediment samples and four rock chip samples are anomalous in base metals over a distance of 6 kms in the Wal Point area (See Figure 8).

Two drainages directly east of McGregor point contain Zn anomalies (99614-99616). A quartz pyrite “stockwork feeder” type vein 1 km to the south contained visible chalcopyrite and sample 301662 returned a value of 128 ppm Cu over a 0.6 m true width.

Numerous gossans are present in the two creeks flanking Wal Point. Both drainages are anomalous in Zn with elevated Cu values. Pb values are also present in samples 99605 and more importantly, 16 ppm from sample 99813 indicating these samples may be proximal to the mineralizing source.

It was difficult to prospect in this area because of steep terrane. The most significant rock chip result was from sample 301655, which ran 1360 ppm Zn, 20 ppm Pb and 4.2 ppm Ag over a 0.3 m true width. The rock is described as being a silicified pyritic felsic gneiss containing pyrite laminations concordant with foliation. Mariposite was thought to have been identified. This rock unit is thought to be a metamorphosed exhalite unit consisting predominantly of chert and pyrite.

On trend 800 m to the south, sample 301663 contained 672 ppm Zn and 440 ppm Ba within a 1.4 m thick meta-rhyolite containing stratiform sulphides and barite. Elevated Ba values in the 300 ppm range and Cd values in the 3 ppm range are present in many of the anomalous samples from the Wal Point area.

Three hundred and fifty m to the east on the east face of Wal Point ridge, sample 301666 returned values of 834 ppm Zn, 84 ppm Cu and 2.6 ppm Ag. The sample was taken across a 1.4 m wide rusty felsic meta-volcanic unit containing stratiform massive sulphide laminae. Disseminated sphalerite was noted associated with pyrite laminae. Sediment sample 99604 reflects the downslope dispersion from 301666.

Three drainages contain five Zn – Cu anomalies over a strike length of 1500 m approximately 3 km north of Wal Point. High values of 410 ppm Zn are reported from site 99620, with the down-stream sample at 99619 returning 338 ppm Zn. A very limited amount of prospecting was done in this area.

Substantial gossanous outcrops occur on the western flank of McGregor Peninsula at rock chip sites 302658 and 301664. Rocks are described as being a pyritic meta-rhyolite unit containing up to 10% pyrite locally. Sample 301664 contained 8% Fe, indicating high pyrite content but base metal values were not anomalous.

Stream sediment sampling in the southeastern part of the project area in the vicinity of Mouse Creek did not return any anomalous values. Samples taken from the Central Gneiss Unit south of Khutzeymateen Inlet were likewise not anomalous.

4.3. Conclusions and Recommendations

A predominately felsic pyritic meta-volcanic unit is present from at least McGregor Peninsula extending in a northerly direction for at least 8 km to 99620 creek. Numerous stream sediment and "country rock" samples are anomalous in principally Zn.

Creek float and outcrop indicates that geochemical anomalies are associated with VMS style mineralization as evidenced by the following:

- Mineralization occurs as disseminated stratabound pyritic volcanic units and as pyrite laminae stratiform to foliation and hosting volcanic stratigraphy.
- Although all the rocks are intensely metamorphosed, a mineralized felsic volcanic geological environment appears to be present along the 8 km belt.
- The presence of elevated Ba (note, Ba values are "partials" due to incomplete digestion) and Cd and associated exhalite layers indicates white smokers are present in the Wal Point area. Black smoker pipes are considered responsible for the regional distribution of pyrite along the belt.
- Physiography indicates that major reactivated structures are present in the two creeks flanking Wal Point and extending to the south forming the boundaries of McGregor Peninsula. It is considered that these structures and coarse pyroclastic rhyolite breccias observed in outcrop are vent proximal.

Twenty claim units were located in the field in the Wal Point Area. Although a mineralized VMS belt appears to be present, no massive sulphide float or showings were found during a limited amount of prospecting. As such, the claims were not recorded because no specific mineralized target has yet been found.

Much more detailed prospecting, sampling and geologic mapping is recommended for the Wal Point area. It is recommended that stream sediment sample spacing done at approximately 100 m intervals. Gossanous areas should be prospected and soil or talus-fine sampling should be applied where possible to isolate base metal centers within the sulphide belt.


Airborne magnetic data available through www.em.gov.bc.ca/Geology shows the Gambier group rocks at Khutzeymateen Inlet occur in a north trending magnetic low. Additional reconnaissance prospecting and geochemical sampling are recommended to the north of the Wal Point trend along Steamer Passage and on Somerville Island.

Because of the logistical difficulties of operating in the area, it is highly recommended that a live-abroad boat be positioned in Tsamspanaknok Bay, or ideally in Croix Lagoon if tide conditions permit. Exploration activities could then be conducted relatively safely utilizing small boat access. It is recommended that mountaineering equipment be appropriately employed when prospecting in steep areas.

Because of the digestion technique used, Ba values for the samples taken are only partial values. It is recommended that all pulps be analyzed for total Ba as Ba is expected to be associated with exhalites in this area.

Report dated at North Vancouver, British Columbia,

This 12th day of January, 2000


Arne O. Birkeland, P. Eng.

5. BIBLIOGRAPHY, SELECTED REFERENCES

BC RGS 42, Regional Geochemical Survey, NTS 103I/J – Prince Rupert/Terrace, Matysek and Jackaman, May, 1995

GSC Memoir 394, Geology of the Prince Rupert – Skeena Map Area, Hutchison, 1982

Skeena – Nass Mineral Potential Workshop, March 1995

WWW.EM.GOV.BC.CA/GEOLOGY

APPENDIX A

Certificate of Qualification

Certificate of Qualification

I, Arne O. Birkeland, do hereby certify that:

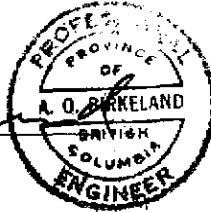
1. I am a Geological Engineer in the employ of Arnex Resources Ltd. with offices at 2069 Westview Drive, North Vancouver, British Columbia.
2. I am a 1972 graduate of the Colorado School of Mines with a Bachelor of Science Degree in Geological Engineering.
3. I have been a registered Professional Engineer with the Association of Professional Engineers Association of British Columbia since 1975, Registration Number 9870.
4. My primary employment since 1966 has been in the field of mineral exploration and development, namely as a Geological Engineer.
5. My experience has encompassed a wide range of geological environments including extensive experience in classification of deposit types as well as considerable familiarization with geochemical and geophysical survey techniques and diamond drilling procedures.

Dated at North Vancouver, British Columbia,

This 12th day of January, 2000

A. O. Birkeland

Arne O. Birkeland, P. Eng.



APPENDIX C

Analytical Procedures and Certificates



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: ARNEX RESOURCES LIMITED

2089 WESTVIEW DR.
 NORTH VANCOUVER, BC
 V7M 3B1

A9928268

Comments: ATTN: ARNE BIRKELAND

CERTIFICATE

A9928268

(AN) - ARNEX RESOURCES LIMITED

Project: SCOTIA NORTH
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 17-SEP-1999.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	45	Dry, sieve to -80 mesh
202	45	save reject
229	45	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	45	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	45	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	45	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	45	As ppm: 32 element, soil & rock	ICP-AES	2	10000
557	45	B ppm: 32 element, rock & soil	ICP-AES	10	10000
2121	45	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	45	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	45	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	45	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	45	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	45	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	45	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	45	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	45	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	45	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	45	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	45	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	45	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	45	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	45	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	45	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	45	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	45	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	45	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	45	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
551	45	S %: 32 element, rock & soil	ICP-AES	0.01	5.00
2141	45	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	45	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	45	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	45	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	45	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	45	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	45	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	45	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	45	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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To: ARNEX RESOURCES LIMITED

2069 WESTVIEW DR.
 NORTH VANCOUVER, BC
 V7M 3B1

Project: SCOTIA NORTH
 Comments: ATTN: ARNE BIRKELAND

Page Number : 1-A
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 P.O. Number :
 Account : AN

CERTIFICATE OF ANALYSIS A9928268

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	B 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 %
	99601	201	202	< 5	< 0.2	1.23	< 2	< 10	90	< 0.5	< 2	0.74	< 0.5	9	30	23	2.64	< 10	< 1	0.15	< 10
99602	201	202	< 5	< 0.2	1.69	< 2	< 10	150	< 0.5	< 2	0.81	< 0.5	13	41	33	2.69	< 10	< 1	0.23	< 10	0.96
99603	201	202	< 5	< 0.2	1.07	< 2	< 10	70	< 0.5	< 2	0.85	1.0	8	22	20	3.57	< 10	< 1	0.15	< 10	0.44
99604	201	202	< 5	< 0.2	2.15	2	< 10	90	< 0.5	< 2	1.12	1.5	11	29	31	3.02	< 10	< 1	0.14	< 10	0.76
99605	201	202	< 5	< 0.2	1.38	2	< 10	110	< 0.5	< 2	0.84	< 0.5	10	31	31	2.33	< 10	< 1	0.17	< 10	0.68
99606	201	202	< 5	< 0.2	1.71	< 2	< 10	140	< 0.5	< 2	0.80	0.5	13	39	36	2.77	< 10	< 1	0.22	< 10	0.93
99607	201	202	< 5	< 0.2	1.25	< 2	< 10	90	< 0.5	< 2	0.54	< 0.5	13	40	20	4.24	< 10	< 1	0.17	< 10	0.93
99608	201	202	< 5	< 0.2	1.08	< 2	< 10	80	< 0.5	< 2	0.58	< 0.5	13	37	22	4.37	< 10	< 1	0.15	< 10	0.78
99609	201	202	< 5	< 0.2	1.50	< 2	< 10	180	< 0.5	< 2	0.46	< 0.5	15	57	29	3.81	< 10	< 1	0.27	< 10	1.31
99610	201	202	< 5	< 0.2	1.54	< 2	< 10	200	< 0.5	< 2	0.46	< 0.5	10	38	16	2.91	< 10	< 1	0.49	< 10	0.73
99611	201	202	< 5	< 0.2	1.69	< 2	< 10	200	< 0.5	< 2	0.56	< 0.5	9	36	21	3.17	< 10	< 1	0.48	< 10	0.78
99612	201	202	< 5	< 0.2	1.56	< 2	< 10	210	< 0.5	< 2	0.53	< 0.5	11	37	19	3.15	< 10	< 1	0.51	< 10	0.72
99613	201	202	< 5	< 0.2	1.53	< 2	< 10	220	< 0.5	< 2	0.44	< 0.5	9	34	15	2.79	< 10	< 1	0.52	< 10	0.75
99614	201	202	< 5	< 0.2	2.02	< 2	< 10	250	< 0.5	< 2	0.84	3.0	11	77	63	4.23	< 10	< 1	0.58	< 10	1.15
99615	201	202	< 5	< 0.2	1.67	< 2	< 10	230	< 0.5	< 2	0.79	3.5	10	57	26	2.69	< 10	< 1	0.49	< 10	0.91
99616	201	202	< 5	0.2	1.92	< 2	< 10	250	< 0.5	< 2	0.79	2.5	12	74	48	3.75	< 10	< 1	0.57	< 10	1.13
99617	201	202	< 5	0.2	1.91	< 2	< 10	240	< 0.5	< 2	0.84	3.0	14	72	60	4.13	< 10	< 1	0.53	< 10	1.09
99618	201	202	< 5	< 0.2	1.89	< 2	< 10	270	< 0.5	< 2	0.67	4.0	18	52	31	3.26	< 10	< 1	0.55	< 10	0.87
99619	201	202	< 5	0.2	2.29	< 2	< 10	270	< 0.5	< 2	0.90	3.0	15	67	70	4.60	< 10	< 1	0.56	< 10	1.28
99620	201	202	< 5	0.4	2.62	< 2	< 10	330	< 0.5	< 2	0.79	3.5	24	95	74	4.77	< 10	< 1	0.69	< 10	1.43
99621	201	202	< 5	< 0.2	1.49	< 2	< 10	120	< 0.5	< 2	0.35	< 0.5	13	74	13	2.73	< 10	< 1	0.18	< 10	0.83
99622	201	202	< 5	< 0.2	1.79	< 2	< 10	190	< 0.5	< 2	0.60	0.5	27	59	19	3.20	< 10	< 1	0.13	< 10	0.69
99801	201	202	< 5	< 0.2	0.93	2	< 10	70	< 0.5	< 2	0.33	< 0.5	9	33	23	1.76	< 10	< 1	0.17	< 10	0.73
99802	201	202	< 5	< 0.2	1.27	< 2	< 10	130	< 0.5	< 2	0.48	< 0.5	12	46	31	2.44	< 10	< 1	0.22	< 10	0.98
99803	201	202	< 5	< 0.2	1.91	< 2	< 10	140	< 0.5	< 2	0.40	< 0.5	15	49	19	3.49	< 10	< 1	0.28	< 10	1.09
99804	201	202	< 5	< 0.2	0.29	< 2	< 10	50	< 0.5	< 2	0.43	< 0.5	6	32	4	6.98	< 10	< 1	0.05	< 10	0.17
99805	201	202	< 5	< 0.2	0.36	< 2	< 10	50	< 0.5	< 2	0.36	< 0.5	4	13	5	2.15	< 10	< 1	0.08	< 10	0.21
99806	201	202	< 5	< 0.2	1.29	< 2	< 10	180	< 0.5	< 2	0.33	< 0.5	13	24	11	2.98	< 10	< 1	0.27	< 10	0.73
99807	201	202	< 5	< 0.2	1.41	< 2	< 10	210	< 0.5	< 2	0.35	< 0.5	14	23	12	3.30	< 10	< 1	0.29	< 10	0.77
99808	201	202	< 5	< 0.2	1.80	< 2	< 10	210	< 0.5	< 2	0.58	< 0.5	15	37	24	3.44	< 10	< 1	0.45	< 10	1.18
99809	201	202	< 5	< 0.2	1.91	< 2	< 10	320	< 0.5	< 2	0.33	< 0.5	15	81	29	2.93	< 10	< 1	0.63	< 10	1.60
99810	201	202	< 5	< 0.2	1.82	< 2	< 10	160	< 0.5	< 2	0.51	< 0.5	16	48	18	3.44	< 10	< 1	0.30	< 10	1.35
99811	201	202	< 5	< 0.2	1.26	< 2	< 10	150	< 0.5	< 2	0.42	< 0.5	16	50	21	3.23	< 10	< 1	0.21	< 10	0.83
99812	201	202	< 5	< 0.2	1.37	< 2	< 10	90	< 0.5	< 2	0.51	< 0.5	13	39	19	3.98	< 10	< 1	0.17	< 10	0.99
99813	201	202	< 5	< 0.2	1.71	< 2	< 10	180	< 0.5	< 2	0.84	< 0.5	17	33	39	3.93	< 10	< 1	0.24	10	0.78
99814	201	202	< 5	< 0.2	2.68	< 2	< 10	330	< 0.5	< 2	1.10	1.0	17	52	49	4.29	< 10	< 1	0.86	< 10	1.09
99815	201	202	< 5	< 0.2	2.31	< 2	< 10	300	< 0.5	< 2	0.83	0.5	14	46	39	3.66	< 10	< 1	0.77	< 10	0.93
99816	201	202	< 5	< 0.2	2.78	< 2	< 10	330	< 0.5	< 2	1.09	1.0	18	50	53	4.46	< 10	< 1	0.87	< 10	1.08
99817	201	202	< 5	< 0.2	2.74	< 2	< 10	300	< 0.5	< 2	1.05	1.5	23	51	70	4.98	< 10	< 1	0.76	< 10	1.02
99818	201	202	< 5	< 0.2	2.28	< 2	< 10	280	< 0.5	< 2	0.91	1.0	15	45	43	3.94	< 10	< 1	0.73	< 10	0.88

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: ARNEX RESOURCES LIMITED

2069 WESTVIEW DR.
 NORTH VANCOUVER, BC
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SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
99601	201	202	235	5	0.05	17	990	2	0.04	< 2	4	34	0.11	< 10	< 10	59	< 10	90
99602	201	202	325	5	0.06	28	840	< 2	0.04	2	5	41	0.13	< 10	< 10	67	< 10	126
99603	201	202	325	3	0.04	15	1180	< 2	0.04	< 2	3	35	0.10	< 10	< 10	64	< 10	112
99604	201	202	405	7	0.05	25	800	6	0.07	2	5	81	0.11	< 10	< 10	60	< 10	224
99605	201	202	240	4	0.06	21	1320	6	0.07	< 2	4	41	0.10	< 10	< 10	54	< 10	98
99606	201	202	300	4	0.07	26	910	< 2	0.07	< 2	5	42	0.13	< 10	< 10	68	< 10	136
99607	201	202	400	1	0.02	16	990	2	0.09	2	5	15	0.18	< 10	< 10	93	< 10	68
99608	201	202	400	4	0.02	14	1060	< 2	0.10	< 2	4	14	0.14	< 10	< 10	89	< 10	54
99609	201	202	410	3	0.05	17	890	< 2	0.10	< 2	4	15	0.21	< 10	< 10	85	< 10	58
99610	201	202	350	2	0.05	15	880	< 2	0.15	2	6	30	0.16	< 10	< 10	82	< 10	76
99611	201	202	365	4	0.06	14	1020	< 2	0.13	2	7	37	0.17	< 10	< 10	84	< 10	76
99612	201	202	380	4	0.05	16	980	2	0.17	2	6	33	0.16	< 10	< 10	84	< 10	74
99613	201	202	340	4	0.05	15	770	< 2	0.14	2	6	29	0.16	< 10	< 10	76	< 10	74
99614	201	202	455	10	0.08	40	1490	< 2	0.27	< 2	10	58	0.18	< 10	< 10	116	< 10	318
99615	201	202	465	6	0.06	36	990	< 2	0.05	2	8	48	0.15	< 10	< 10	96	< 10	238
99616	201	202	460	6	0.07	39	1310	< 2	0.21	2	9	52	0.17	< 10	< 10	115	< 10	288
99617	201	202	505	8	0.07	44	1520	< 2	0.22	2	9	54	0.16	< 10	< 10	114	< 10	314
99618	201	202	835	5	0.04	34	930	< 2	0.07	2	9	33	0.18	< 10	< 10	88	< 10	304
99619	201	202	565	7	0.08	51	1370	< 2	0.20	2	11	67	0.19	< 10	< 10	129	< 10	338
99620	201	202	735	8	0.08	62	1120	4	0.20	2	12	61	0.21	< 10	< 10	132	< 10	410
99621	201	202	380	3	0.04	26	690	6	0.05	< 2	4	34	0.18	< 10	< 10	65	< 10	62
99622	201	202	1130	2	0.03	41	770	6	0.10	2	4	28	0.21	< 10	< 10	65	< 10	82
99801	201	202	190	3	0.07	15	620	< 2	0.03	< 2	2	12	0.12	< 10	< 10	45	< 10	38
99802	201	202	260	3	0.03	22	880	< 2	0.06	< 2	3	11	0.15	< 10	< 10	63	< 10	50
99803	201	202	465	2	0.05	28	760	< 2	0.01	< 2	5	21	0.25	< 10	< 10	84	< 10	70
99804	201	202	200	1	0.02	7	1110	< 2	0.01	< 2	1	8	0.08	< 10	< 10	112	< 10	22
99805	201	202	135	< 1	0.02	6	820	< 2	< 0.01	< 2	1	7	0.06	< 10	< 10	39	< 10	18
99806	201	202	425	3	0.03	12	680	< 2	0.01	< 2	3	11	0.23	< 10	< 10	79	< 10	62
99807	201	202	435	2	0.03	13	770	< 2	0.01	< 2	3	11	0.26	< 10	< 10	90	< 10	62
99808	201	202	425	1	0.04	18	910	< 2	0.02	< 2	5	17	0.27	< 10	< 10	106	< 10	92
99809	201	202	380	4	0.03	25	560	< 2	0.03	2	5	9	0.23	< 10	< 10	85	< 10	68
99810	201	202	575	4	0.04	19	780	< 2	0.04	2	5	14	0.26	< 10	< 10	97	< 10	84
99811	201	202	570	3	0.03	24	580	< 2	0.04	2	3	13	0.15	< 10	< 10	65	< 10	48
99812	201	202	415	3	0.02	16	860	2	0.08	< 2	5	15	0.19	< 10	< 10	88	< 10	60
99813	201	202	725	5	0.04	28	1820	16	0.08	< 2	8	27	0.12	< 10	< 10	75	< 10	130
99814	201	202	760	7	0.08	47	920	< 2	0.60	2	11	76	0.20	< 10	< 10	95	< 10	198
99815	201	202	615	5	0.07	39	870	2	0.49	< 2	9	57	0.19	< 10	< 10	80	< 10	146
99816	201	202	790	8	0.08	45	940	2	0.66	4	11	77	0.20	< 10	< 10	95	< 10	194
99817	201	202	980	7	0.08	52	1300	2	0.52	< 2	11	76	0.20	< 10	< 10	91	< 10	206
99818	201	202	640	7	0.07	42	870	< 2	0.62	< 2	9	61	0.18	< 10	< 10	76	< 10	162

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PHONE: 604-984-0221 FAX: 604-984-0218

To: ARNEX RESOURCES LIMITED

2089 WESTVIEW DR.
NORTH VANCOUVER, BC
V7M 3B1

Project: SCOTIA NORTH
Comments: ATTN: ARNE BIRKELAND

Page Number : 2-A
Total Pages : 2
Certificate Date: 17-SEP-1999
Invoice No. : 19928268
P.O. Number :
Account : AN

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A9928268

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	B 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 %
	FA+AA																				
99819	201	202	< 5	< 0.2	2.78	< 2	< 10	320	< 0.5	< 2	1.07	1.5	19	53	61	4.99	< 10	< 1	0.81	< 10	1.08
99820	201	202	< 5	< 0.2	2.88	< 2	< 10	340	< 0.5	< 2	1.02	1.0	26	55	63	4.99	< 10	< 1	0.85	< 10	1.10
99821	201	202	< 5	< 0.2	2.12	< 2	< 10	370	< 0.5	< 2	0.60	0.5	15	110	49	3.34	< 10	< 1	0.57	10	1.32
99822	201	202	< 5	< 0.2	1.96	< 2	< 10	260	< 0.5	< 2	0.92	< 0.5	19	30	19	4.78	< 10	< 1	0.19	< 10	1.02
99823	201	202	< 5	< 0.2	1.81	< 2	< 10	270	< 0.5	< 2	0.96	< 0.5	17	31	14	3.41	< 10	< 1	0.24	10	1.32

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 British Columbia, Canada V7J 2C1
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2069 WESTVIEW DR.
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Project: SCOTIA NORTH
 Comments: ATTN: ARNE BIRKELAND

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CERTIFICATE OF ANALYSIS	A9928268
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SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
99819	201	202	1130	8	0.08	48	1160	< 2	0.57	2	11	76	0.20	< 10	< 10	95	< 10	202
99820	201	202	1010	8	0.08	57	1070	< 2	0.43	< 2	12	73	0.21	< 10	< 10	99	< 10	208
99821	201	202	380	5	0.05	61	1810	2	0.14	2	7	108	0.18	< 10	< 10	92	< 10	158
99822	201	202	1095	2	0.07	41	1510	2	0.05	2	4	75	0.21	< 10	< 10	75	< 10	68
99823	201	202	650	2	0.08	47	1970	2	0.02	< 2	3	67	0.22	< 10	< 10	78	< 10	60

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(AN) - ARNEX RESOURCES LIMITED

Project SCOTIA NORTH
 P.O.#:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 16-SEP-1999.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	16	Geochem ring to approx 150 mesh
226	16	0-3 Kg crush and split
3202	16	Rock - save entire reject
229	16	ICP - AQ Digestion charge

* NOTE 1:
 The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	16	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	16	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	16	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	16	As ppm: 32 element, soil & rock	ICP-AES	2	10000
557	16	B ppm: 32 element, rock & soil	ICP-AES	10	10000
2121	16	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	16	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	16	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	16	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	16	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	16	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	16	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	16	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	16	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	16	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	16	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	16	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	16	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	16	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	16	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	16	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	16	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	16	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	16	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	16	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
551	16	S %: 32 element, rock & soil	ICP-AES	0.01	5.00
2141	16	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	16	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	16	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	16	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	16	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	16	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	16	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	16	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	16	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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 British Columbia, Canada V7J 2C1
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Project: SCOTIA NORTH
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 Total Pages : 1
 Certificate Date: 16-SEP-1999
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SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	B 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 %
301651	205 226	< 5	1.0	1.09	< 2	< 10	130	< 0.5	< 2	13.25	2.0	27	20	86	4.78	< 10	2	0.48	< 10	0.62
301652	205 226	< 5	< 0.2	0.69	< 2	< 10	140	< 0.5	< 2	0.20	< 0.5	3	109	25	1.59	< 10	< 1	0.39	< 10	0.31
301653	205 226	< 5	< 0.2	2.10	< 2	< 10	180	< 0.5	< 2	0.89	< 0.5	11	228	22	3.12	< 10	< 1	0.65	< 10	1.70
301654	205 226	< 5	< 0.2	1.92	< 2	< 10	140	< 0.5	< 2	0.95	< 0.5	14	74	41	3.50	10	< 1	0.58	< 10	1.59
301655	205 226	< 5	4.2	2.31	18	< 10	50	< 0.5	< 2	1.30	4.5	36	156	27	3.33	< 10	1	0.15	< 10	0.01
301656	205 226	< 5	0.6	1.72	< 2	< 10	80	< 0.5	< 2	0.08	< 0.5	18	97	41	4.90	< 10	1	0.72	< 10	1.07
301657	205 226	< 5	0.8	0.97	< 2	< 10	100	< 0.5	< 2	0.22	1.0	24	99	50	3.45	< 10	< 1	0.60	< 10	0.86
301658	205 226	< 5	0.6	1.71	< 2	< 10	100	< 0.5	< 2	0.35	< 0.5	14	97	39	3.64	< 10	< 1	0.27	< 10	0.58
301659	205 226	< 5	0.6	1.51	< 2	< 10	60	< 0.5	< 2	1.08	2.0	11	90	45	2.35	< 10	< 1	0.08	< 10	0.04
301660	205 226	< 5	< 0.2	1.39	< 2	< 10	140	< 0.5	< 2	0.87	< 0.5	15	87	30	2.01	< 10	< 1	0.49	< 10	1.38
301661	205 226	< 5	0.6	3.06	< 2	< 10	10	< 0.5	< 2	7.22	4.0	7	87	42	2.87	< 10	< 1	0.06	< 10	0.07
301662	205 226	< 5	2.0	4.23	24	< 10	30	< 0.5	< 2	6.05	2.0	15	62	128	7.97	10	< 1	0.07	< 10	0.13
301663	205 226	< 5	0.6	1.49	< 2	< 10	440	< 0.5	< 2	0.17	16.0	5	231	42	2.21	< 10	< 1	0.89	< 10	1.25
301664	205 226	< 5	< 0.2	2.62	< 2	< 10	70	< 0.5	< 2	2.07	2.5	38	49	32	7.73	10	< 1	0.25	10	1.96
301665	205 226	< 5	0.6	1.74	2	< 10	210	< 0.5	< 2	0.43	2.0	14	194	34	3.98	< 10	< 1	0.98	< 10	1.25
301666	205 226	< 5	2.6	1.20	< 2	< 10	120	< 0.5	< 2	0.23	21.5	10	204	84	4.58	< 10	< 1	0.74	< 10	0.80

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 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: ARNEX RESOURCES LIMITED

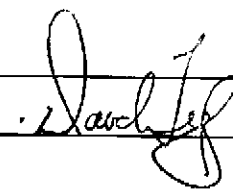
2069 WESTVIEW DR.
 NORTH VANCOUVER, BC
 V7M 3B1

Project : SCOTIA NORTH
 Comments: ATTN: ARNE BIRKELAND

Page Number : 1-B
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 Certificate Date: 16-SEP-1999
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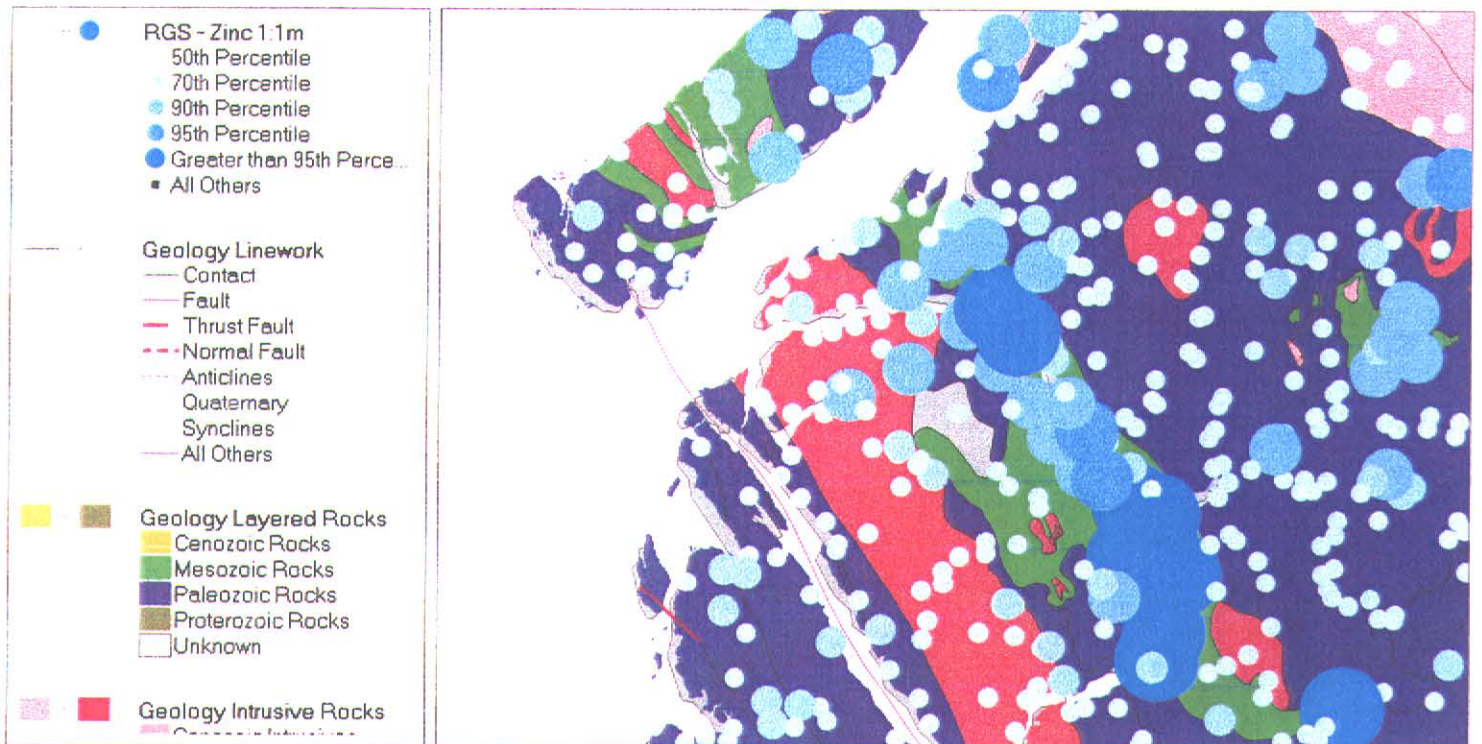
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			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
301651	205	226	540	4	0.06	26	470	2	2.33	< 2	< 1	289	0.12	< 10	10	41	< 10	42
301652	205	226	215	4	0.08	1	480	< 2	0.16	< 2	2	17	0.12	< 10	< 10	19	< 10	32
301653	205	226	335	3	0.21	13	390	< 2	0.37	< 2	9	41	0.20	< 10	< 10	84	< 10	38
301654	205	226	440	3	0.38	10	1270	< 2	0.01	< 2	16	12	0.21	< 10	< 10	162	< 10	38
301655	205	226	185	3	0.06	68	120	20	2.33	< 2	3	13	0.10	< 10	< 10	41	< 10	1360
301656	205	226	790	3	0.05	23	100	< 2	2.89	< 2	8	12	0.04	< 10	< 10	37	< 10	76
301657	205	226	890	17	0.09	49	410	< 2	1.95	< 2	14	8	0.18	< 10	< 10	126	< 10	112
301658	205	226	550	4	0.07	25	170	< 2	2.33	< 2	3	23	0.01	< 10	< 10	21	< 10	84
301659	205	226	30	28	0.18	70	460	< 2	2.01	< 2	< 1	84	0.08	< 10	< 10	21	< 10	82
301660	205	226	265	3	0.22	42	730	< 2	0.11	< 2	6	11	0.14	< 10	< 10	72	< 10	22
301661	205	226	285	11	0.46	50	870	< 2	1.87	< 2	< 1	206	0.09	< 10	10	34	< 10	200
301662	205	226	420	13	0.66	64	740	< 2	>5.00	< 2	< 1	275	0.10	< 10	10	45	< 10	166
301663	205	226	470	23	0.09	34	460	< 2	0.66	< 2	15	6	0.22	< 10	< 10	185	< 10	672
301664	205	226	1085	3	0.31	45	2150	2	0.14	< 2	4	179	0.66	< 10	< 10	189	< 10	154
301665	205	226	460	11	0.11	24	1140	< 2	1.05	< 2	10	22	0.30	< 10	< 10	122	< 10	194
301666	205	226	860	14	0.08	28	980	< 2	2.67	< 2	16	9	0.16	< 10	< 10	289	< 10	834

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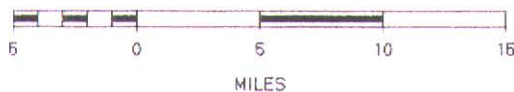
APPENDIX D

Geochemical Data Sheets

Zinc Geochemistry - Gambier North Project



SCALE 1 : 500,000



Gambier North Reconnaissance Project
RGS Geochemistry

NTS: 103J/9

Compiled by Arne Birkeland, P.Eng.

January 2000

Figure 6

APPENDIX D

GEOCHEMICAL DATA SHEET - STREAM SEDIMENT GEOCHEMISTRY

Khutzeymateen Inlet Project Area

PROJECT: GNR

NTS: 103J/9

Sample Number	Volume (m) Width Depth	Drainage Gradient	Type of Sample	Colour	Texture	% Organic	Petrography Bedrock/Float	Observations Remarks
99601	3.0	1.0 Steep	MM	Br	Silt	Low	JKG	"Gambier" Gp - Meta-voic, seds
99602	2.0	1.0 Steep	MM	Br	Silt	Low	JKG	"Gambier" Gp - Meta-voic, seds
99603	1.0	0.3 Steep	MM	Gr-br	Silt	Low	JKG	"Gambier" Gp - Meta-voic, seds
99604	1.0	0.3 Steep	MM	Br	Silt	Low	JKG	"Gambier" Gp - Meta-voic, seds
99605	2.0	0.3 Steep	MM	Br	Silt	Low	JKG	"Gambier" Gp - Meta-voic, seds
99606	2.0	0.3 Steep	MM	Br	Silt	Low	JKG	"Gambier" Gp - Meta-voic, seds
99607	10.0	3.0 Fl-Mod	MM	Gr-br	Silt	Low	JKG	"Gambier" Gp - Meta-voic, seds
99608	2.0	2.0 Steep	MM	Br	Silt	Low	JKG	"Gambier" Gp - Meta-voic, seds
99609	6.0	2.0 Fl-Mod	MM	Br	Silt	Low	JKG	"Gambier" Gp - Meta-voic, seds
99610	4.0	1.0 Mod	MM	Br	Silt	Low	JKG	"Gambier" Gp - Meta-voic, seds
99611	2.0	1.0 Steep	MM	Br	Silt	Low	JKG	"Gambier" Gp - Meta-voic, seds
99612	10.0	3.0 Fl-Mod	MM	Br	Sand	Low	Unit 1b	"Central Gneiss Complex"
99613	10.0	2.0 Fl-Mod	MM	Br	Sand	Low	Unit 1b	"Central Gneiss Complex"
99614	1.0	0.3 Steep	MM	Lt br	Silt	Low	JKG	"Gambier" Gp - Meta-voic, seds
99615	0.6	0.3 Steep	MM	Dk br	Silt	Low	JKG	"Gambier" Gp - Meta-voic, seds
99616	1.0	0.3 Steep	MM	Br	Silt	Low	JKG	"Gambier" Gp - Meta-voic, seds
99617	1.0	0.3 Steep	MM	Br	Silt	Low	JKG	"Gambier" Gp - Meta-voic, seds
99618	0.3	3.0 Steep	MM	Br	Silt	Low	JKG	"Gambier" Gp - Meta-voic, seds
99619	0.3	0.5 Steep	MM	Br	Silt	Low	JKG	"Gambier" Gp - Meta-voic, seds
99620	2.0	0.3 Steep	MM	Br	Silt	Low	JKG	"Gambier" Gp - Meta-voic, seds
99621	2.0	1.0 Mod-st	MM	Br	Silt	Low	Unit 1b	"Central Gneiss Complex"
99622	3.0	1.0 Mod-st	MM	Br	Silt	Low	Unit 1b	"Central Gneiss Complex"

APPENDIX D

GEOCHEMICAL DATA SHEET - STREAM SEDIMENT GEOCHEMISTRY

Khutzymateen Inlet Project Area

PROJECT: GNR

NTS: 103J/9

Sample Number	Volume (m) Width Depth	Drainage Gradient	Type of Sample	Colour	Texture	% Organic	Petrography Bedrock/Float	Observations Remarks
99801	3.0	1.0 Steep	ASS	Dk gr	Sand - mud	V low	JKG	Rusty py gn
99802	2.0	1.0 Steep	MM	M gr	Silt	Low	JKG	Rusty py gn in meta-seds
99803	2.0	0.3 Fl	ASS	Gr-br, rusty	Silt	Low	JKG	Rusty py meta-vo/c
99804	1.0	0.3 Steep	MM	Lt gr	Silt	Low	JKG	Rusty py meta-vo/c with amph, meta-seds
99805	2.0	0.5 Steep	ASS	Lt gr	Sandy silt	Low	JKG	"Gambier" Gp - Meta-vo/c,seds
99806	1.5	0.3 Steep	MM	Br	Silt	Mod	JKG	Meta sed, amph
99807	1.0	0.3 Steep	MM	Gr-br	Silt	Low	JKG	Rusty py meta-vo/c
99808	2.0	1.0 Steep	MM	Dk br	Sandy silt	Low-mod	JKG	Thin bed arg-siltstone
99809	1.0	0.3 Steep	MM	Dk br	Silt	Low	JKG	"Gambier" Gp - Meta-vo/c,seds
99810	3.0	1.0 Mod	MM	Dk gr br	Sandy silt	Low	JKG	Mafic gn
99811	2.0	1.0 Steep	MM	Br	Silt	Low	JKG	"Gambier" Gp - Meta-vo/c,seds
99812	4.0	1.0 Steep	MM	lt gr	Sand	Low	JKG	Rusty py meta-vo/c
99813	2.0	0.3 Steep	MM	Br	Silt	Low	JKG	>75% creek fl rusty fel, gn, sch
99814	1.0	0.3 Steep	MM	Br	Silt	Mod	JKG	"Gambier" Gp - Meta-vo/c,seds
99815	0.6	0.3 Steep	ASS	Gr br	Sandy silt	Low	JKG	Meta sed, amph
99816	1.0	0.1 Steep	MM + ASS	Gr	Sand, mus	Low	JKG	Rusty py hfts
99817	2.0	0.1 Steep	MM	Br	Silt	Low	JKG	Rusty py meta-vo/c
99818	1.5	0.3 Steep	MM	Br	Silt	Low	JKG	>85% creek fl rusty fel, gn, sch
99819	1.0	0.3 Steep	MM	Br	Silt	Low	JKG	>85% creek fl rusty fel, gn, sch
99820	4.0	1.0 Mod	ASS	Gr br	Sandy silt	Low	Unit 1b	"Central Gneiss Complex"
99821	1.0	0.1 Steep	MM	Br	Silt	Low	JKG	Rusty py hfts
99822	8.0	1.5 Fl Mod	MM	Br	Silt	Low	Unit 1b	"Central Gneiss Complex"
99823	5.0	1.0 Fl Mod	ASS	Gr	Sand	Low	Unit 1b	"Central Gneiss Complex"

APPENDIX D

GEOCHEMICAL DATA SHEET - STREAM SEDIMENT GEOCHEMISTRY

Khutzeymateen Inlet Project Area

PROJECT: GNR

NTS: 103J/9

Sample Number	Location	Rock Type	Sample Type	App/True Width	Alteration	Weathering Leaching	Mineralization	Observations, Remarks
301659	99610	Meta-arg	Grab, Creek float	.2 m AW	Bio	Weathered	Py lams to mm's, to 10% py	Dark grey-black py meta-arg
301660		Meta-arg, amp	Chip	5 m TW	Bio, sil	Fresh	None noted	"Country Rock"
301661	500 m SW from 301660	Meta-arg, amp	Chip	4 m TW	Bio, sil	Fresh	Minor des py, minor sph lams?	Check for Sedex Zn
301662	Steep hillside, cliff	Qtz-py vein in Felsic meta-volc	Chip	.6 m TW	Sil	Mod	Pyrite vein and stockwork?, py locally to 15% over 10 cm, tr cpy	Stockwork "feeder" zone?
301663	Steep hillside, cliff	Py felsic meta-volc, rhyolite?	Chip	1.4 m TW	Sil, mus, py	Mod	Py, minor sph, trace cpy, Ba?	Mineralized rusty felsic meta-volc unit, sulphides concordant with foliation
301664	McGreggor Point, 800 m S of 301658	Gossaneous Meta-volc Rhyolite oc	Rep chip	3.5 m AW	Sil, py, mus	Weathered	Py locally to 10%	Rusty bluff, scarp face, thick py meta-rhyolite
301665	Headwaters, 99604 Creek	Py felsic meta-volc, rhyolite?	Chip	1 m TW	Sil, mus, py	Mod - Weathered	Py < 3% trace Ba?	Mineralized rusty felsic meta-volc unit, sulphides concordant with foliation
301666	Ridge Traverse	Py felsic meta-volc, sulphide layer	Chip	1.1 m TW	Sil, mus, py	Mod - Weathered	Py = 15% total, mass py lam to .2 m, des sph	Mineralized rusty felsic meta-volc unit, sulphide layer concordant with foliation

APPENDIX D

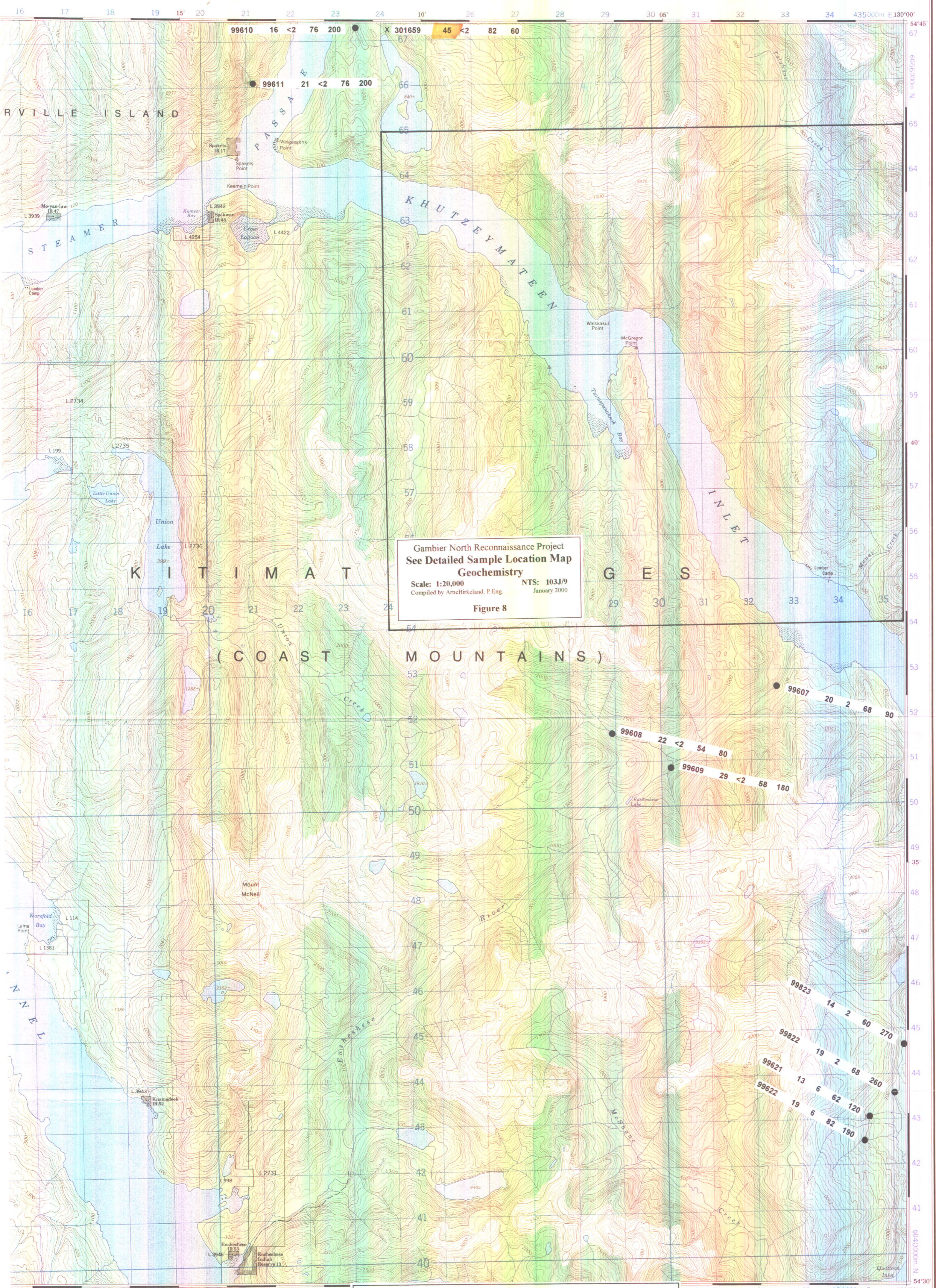
GEOCHEMICAL DATA SHEET - STREAM SEDIMENT GEOCHEMISTRY

Khutzymateen Inlet Project Area

PROJECT: GNR

NTS: 103J/9

Sample Number	Location	Rock Type	Sample Type	App/True Width	Alteration	Weathering Leaching	Mineralization	Observations, Remarks
301651	99801	Siltstone Meta-exhalite?	Grab Creek float	30 mm	Sil, calcite	V leached Boxworks	Py +/- wk des Sph	Calcite, qtz, barite? Layer in meta-siltstone or tuff, Recrystallized chert-calcite band?
301652	99808	Gneiss	Grab, Creek float, Angular	20 cm	Sil, mica, Hblid	V leached	Py	Py dess and as remnant fragments? Up to 25 mm
301653	98111	Phyllite, Felsic meta-tuff	Chip	.4 m TW	Sil, mica, Hblid	V leached Boxworks	Py<5%	Thin meta-felsic volcanic band
301654	Above 98111	Meta Sed, Siltstone	Chip	3m	Sil, py	Mod	Py locally to 5%	Thick pyritic meta-sed package, "Country Rock"
301655	99818	Pyritic Felsic Gneiss	Chip	.3 m TW	Sil	Weathered	Py lams to mm's, dess py, py to 5%	Rusty py felsite w/ minor specs of green malposite?, minor Cu stain?
301656	99819	Thinly lam qtz py fat	Grab, Creek float, Angular	.3 m AW	Sil, biotite	Mod	Py lams to mm's	"Country Rock"
301657	99817	Thin bed meta- siltstone	Grab, Creek float, Angular	.3 m AW	Sil, mus	Weathered	Py lams to mm's, dess py, py to 5%	Lg blocks of qtz bio gn as mega breccia blocks
301658	McGreggor Point	Gossaneous Meta-volc Rhyolite oc	Rep chip	10 m AW	Sil, py, mus	Weathered	Py locally to 10%	Rusty bluff, scarp face, thick py meta-rhyolite



Gambier North Reconnaissance Project
 See Detailed Sample Location Map
Geochemistry
 Scale: 1:20,000 NTS: 103J/9
 Compiled by Arne Birkeland, P.Eng. January 2000
Figure 8

PORT SIMPSON
 COAST LAND DISTRICT RANGE 5
 BRITISH COLUMBIA
 Scale 1:50 000 Échelle

Miles 0 1 2 3
 Metres 0 1000 2000 3000 4000
 Yards 0 1000 2000 3000 4000

Legend

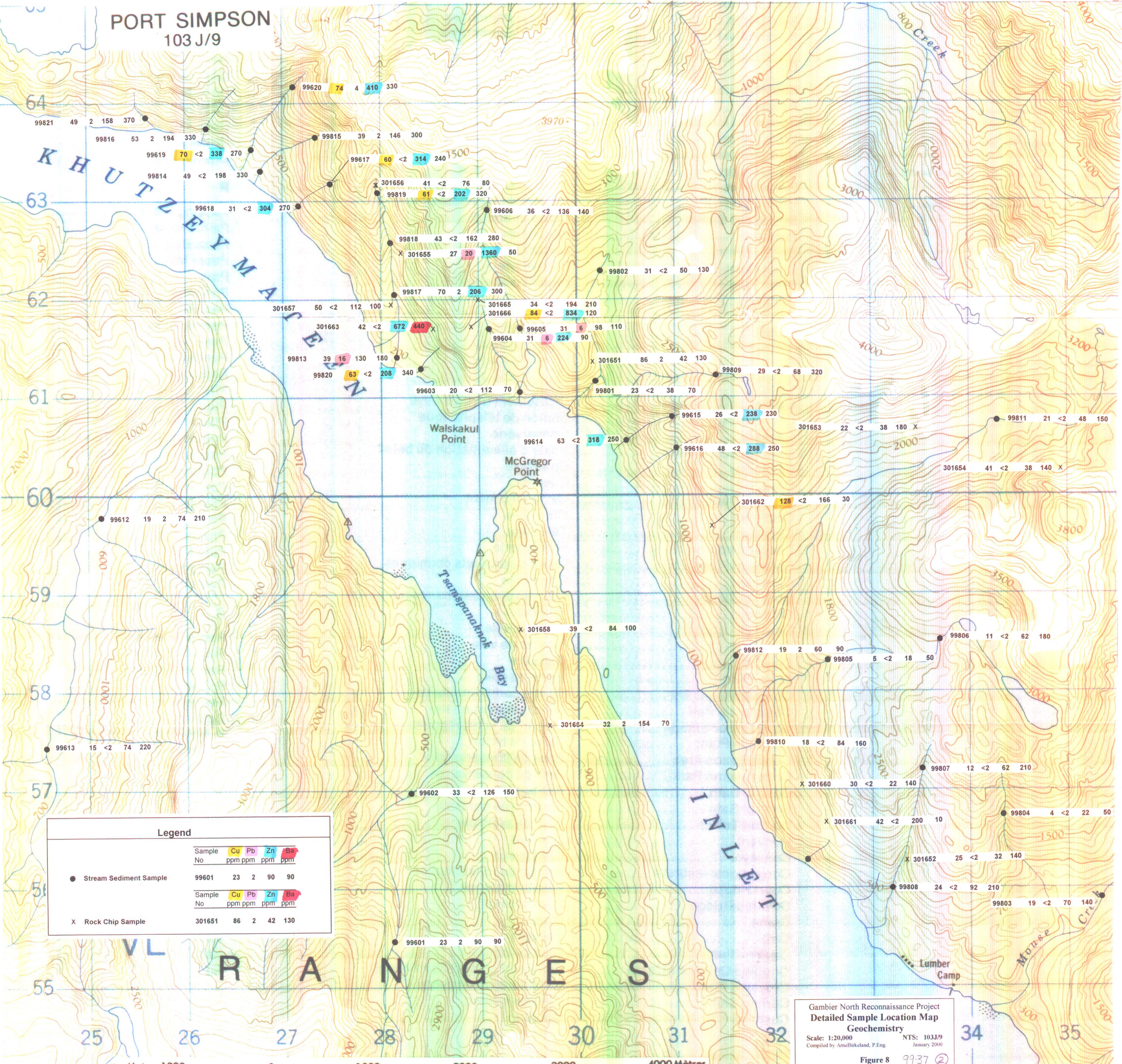
- Stream Sediment Sample
- X Rock Chip Sample

Sample No	Cu ppm	Pb ppm	Zn ppm	Ba ppm
99601	23	2	90	90
301651	86	2	42	130

Gambier North Reconnaissance Project
Regional Sample Location Map
Geochemistry
 Scale: 1:50,000 NTS: 103J/9
 Compiled by Arne Birkeland, P.Eng. January 2000
Figure 7

99-37
 ①

PORT SIMPSON
103 J/9



Legend

Sample No	Cu ppm	Pb ppm	Zn ppm	Ba ppm
● Stream Sediment Sample	99601 23	2	90	90
X Rock Chip Sample	301651 86	2	42	130

Gambier North Reconnaissance Project
Detailed Sample Location Map
Geochemistry
Scale: 1:20,000 NTS: 103J/9
Compiled by AneBirkeland, P.Eng. January 2000
Figure 8 99-37 (2)

