

87-400 - 16143
4/88

GEOLOGICAL, SELF POTENTIAL AND
GEOCHEMICAL SURVEY OF
THE GOLD EXCHANGE GROUP

FILMED

NANIAMO MINING DIVISION

NTS: 92K/3E
[50° ~~10'~~ NORTH, 125° ~~13'~~ WEST]
09'12" 13'18"

(OWNER:
OPERATOR:
AUTHOR:

COLIN CAMPBELL
~~NATION RIVER RESOURCES LTD.~~
COLIN CAMPBELL

JUNE 25, 1987

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VANCOUVER, B.C.

~~GEOLOGICAL BRANCH~~
ASSESSMENT REPORT

16,143

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1.0 SUMMARY - GOLD EXCHANGE GROUP

The Gold Exchange Group is located on Northern Quadra Island in the Naniamo Mining District between Stramberg Lake and Open Bay; the claim group is underlain by Quatsino limestone with granitic rocks of the Coast Mountains Plutonic Complex to the east and Karmutsen volcanics to the west. Geochemical, Geological and Geophysical surveys resulted in the location of significant gold mineralization (up to 16.5 ppm gold across 1.2 metres) and the discovery of an epithermal zone containing mercury, antimony and arsenic near Open Bay.

2.0 INTRODUCTION - GOLD EXCHANGE GROUP

A staking and prospecting program carried out by Colin Campbell during the spring and summer of 1986 resulted in the acquisition of some 3,200 acres of ground on northern Quadra Island (Fig.3). On the Gold Exchange Group several old showings were located, including a silicified zone grading 0.5 ounces/ton gold across five feet and a quartz-arsenopyrite vein (Q45-R) one foot in width running 0.66 ounces/ton gold. Near Open Bay an epithermal zone containing arsenic, antimony and mercury was discovered suggesting the possibility of "Carlin" type gold mineralization.

This report covers the results of mapping a new epithermal zone near Open Bay including preliminary soil and rock geochemistry and preliminary self potential survey.

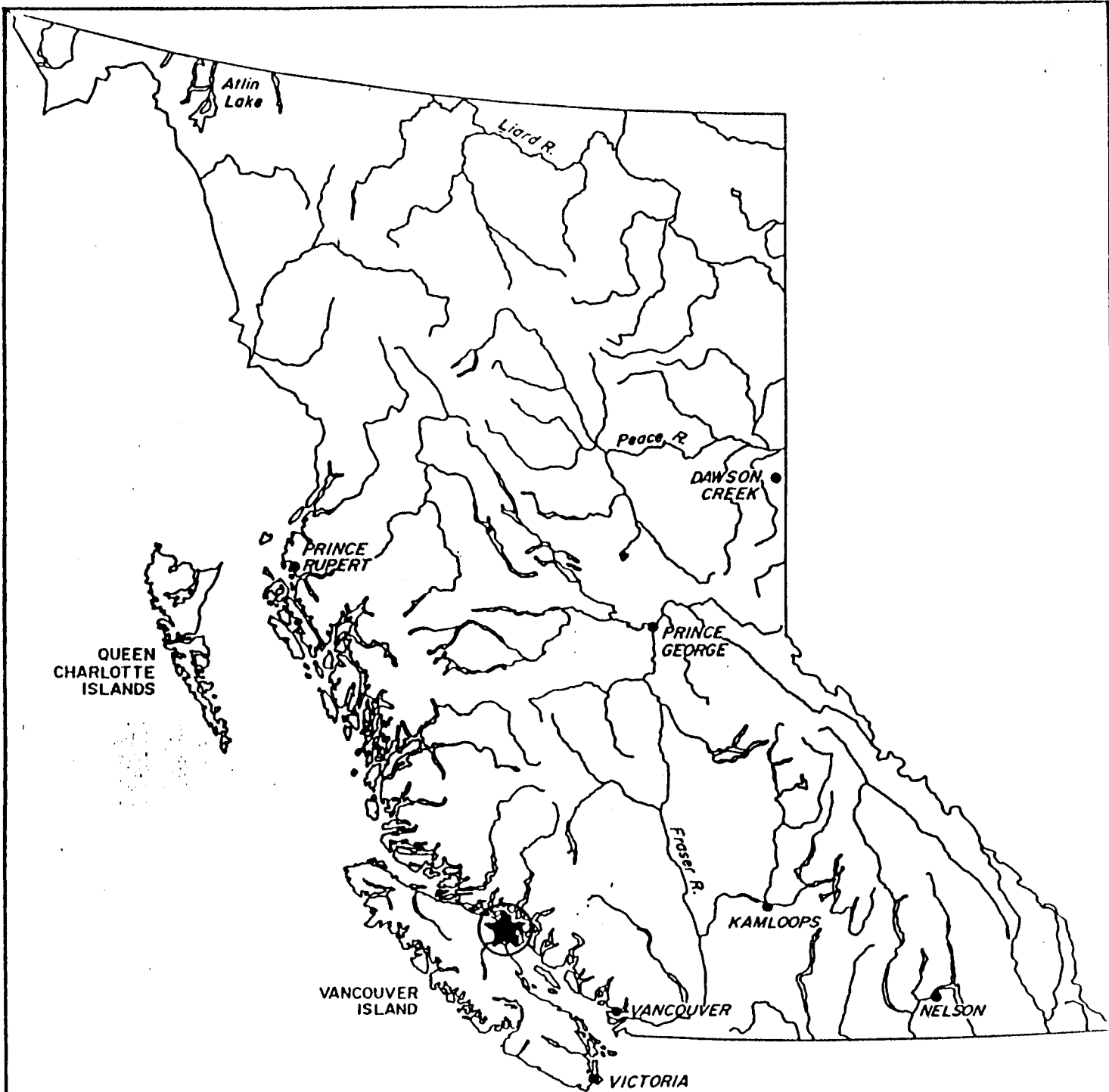
2.1 LOCATION, ACCESS, TOPOGRAPHY and VEGETATION

The Gold Exchange Group is located on northern Quadra Island between Stramberg Lake and Open Bay centered on 50°10'N and 125°15'W in the Naniamo Mining District.

Access to the Gold Exchange Group from Campbell River on Vancouver Island is by ferry to Quathiaski Cove, thence by good paved and gravel road some 15 kilometres to the central portion of the claims. Several old logging roads and a new road from September Lake to Open Bay provide ready access to all areas of the claim group.

Most of the claim group covers a gently rolling plateau-like area with elevations ranging from sea level to 150 metres A.S.L.; however elevations increase to 350 metres A.S.L. near the south-west corner of NAT #1.

Vegetation consists of generally open growth Douglas Fir, hemlock and alder; locally and at higher elevations brush can be dense.



QUEEN CHARLOTTE ISLANDS

PRINCE RUPERT

DAWSON CREEK

PRINCE GEORGE

KAMLOOPS

VANCOUVER ISLAND

VANCOUVER

NELSON

VICTORIA

NATION RIVER RESOURCES LTD.

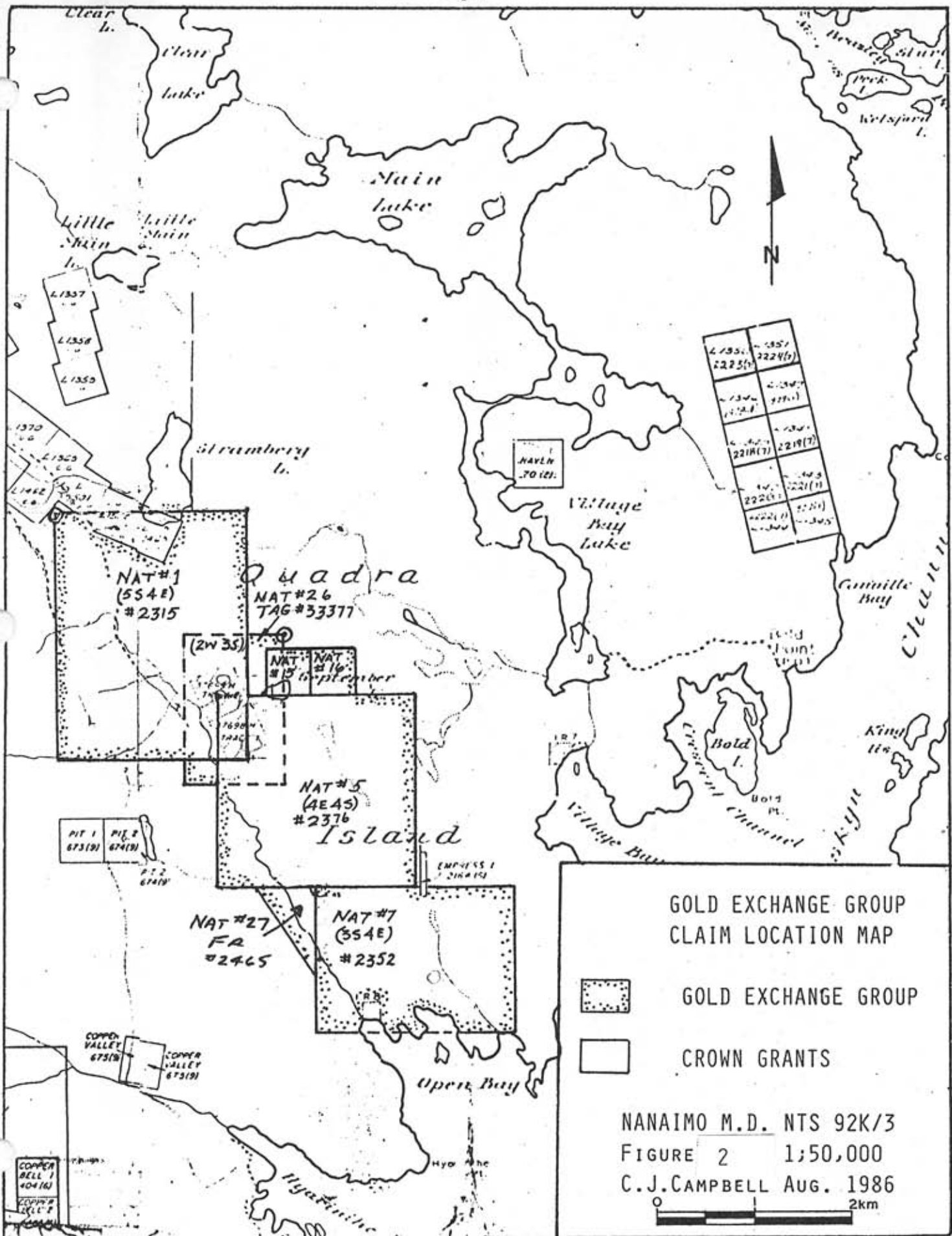
GOLD EXCHANGE GROUP

LOCATION ON MAP OF B.C.

FIGURE 1

COLIN CAMPBELL JUNE 1987





4135	2225(1)	2224(5)
2225(1)	2224(5)	2224(5)
2218(7)	2219(7)	2219(7)
2220(1)	2221(1)	2221(1)
2221(1)	2221(1)	2221(1)
2221(1)	2221(1)	2221(1)

HAYLN
70 121

NAT#1
(554E)
#2315

NAT#26
TAG#3337

NAT#16
#15 September

NAT#5
(4E4S)
#2376

NAT#27
FR
#2465

NAT#7
(554E)
#2352

PIT 1
673191

PIT 2
674191

PIT 3
674191

COPPER VALLEY
673191

COPPER VALLEY
673191

COPPER BELL
404161

COPPER BELL
404161

2.2 CLAIM STATUS

The Gold Exchange Group consists of 4 modified grid claims (54 units), two 2-post claims and one fractional claim as follows:

NAME OF CLAIM	NO.OF UNITS	RECORD NO.	EXPIRY DATE
NAT #1	20	2315	April 4, 1988
NAT #5	16	2376	May 23, 1988
NAT #7	12	2382	May 23, 1988
NAT #15	1	----	May 23, 1988
NAT #16	1	----	May 23, 1988
NAT #26	6	2464	Aug 27, 1989
NAT #27 FR	1	2465	Aug 27, 1988

The Gold Exchange Group claims are presently registered in the name of Colin Campbell.

2.3 PREVIOUS WORK

The southern end of the "Lime Belt" received considerable prospecting in the early 1900's as witnessed by numerous old trenches and pits; however no production is recorded from the area of the Gold Exchange Group. During the period 1962 to 1970 the area was prospected for copper with little success. In 1971, Prince Stewart Mines Ltd. acquired the Contact Group of claims; they prospected and conducted geological, geochemical and geophysical surveys (A.R. 3100) and drilled several short diamond drill holes with one intersecting five feet of 0.1 ounce/ton gold. In 1975, Great Bear Mining worked in the area (A.R. 5680). In 1981, Greenwich Resources Inc. conducted a major soil sampling, rock sampling of old trenches, geological and geophysical survey (magnetometer, and E.M.16) of the central area (Hand, 1982) recommending a further \$232,000.00 of work which was not undertaken.

3.1 REGIONAL GEOLOGY

The north-eastern half of Quadra Island is underlain by granitic rocks of the Coast Mountains Plutonic Complex (Roddick and Woodsworth, 1976 and Figure 3). These are in intrusive or faulted contact with Triassic volcanic (Karmutsen) and sedimentary (Quatsino) formations along a north-westerly striking zone from Open Bay to Granite Bay.

3.2 PROPERTY GEOLOGY

The property is underlain by a north-west south-east trending belt of limestone (Quatsino Group) and intercalated andesitic volcanic rocks which, to the west, overlie Karmutsen volcanics. To the east the belt is in contact (partly intrusive, partly faulted) with quartz diorite of the Coast Batholith (Figure 3).

A. MINERALIZATION - Quartz vein - Arsenopyrite - Silicified Zones

1. T14-05 Trench This trench, some 25 feet long and 5 to 10 feet wide contains a silicified zone near the contact of andesitic rocks and overlying limestone. It appears to dip at a low angle to the east.

2. Q45-R This is a narrow (one foot) quartz vein with greater than 10% arsenopyrite and 0.66 ounces/ton gold.

B. EPITHERMAL ZONE - Near Open Bay an epithermal zone was discovered in strongly brecciated limestone. This zone contains cinnibar, stibnite and several percent sulphides (pyrite, marcasite and pyrrhotite). Some areas are massive, fine grained and black with disseminated stibnite and cinnibar on fractures. Other areas are light coloured and very porous (decalcified?) with disseminated cinnibar. Seven 10 foot samples across the zone averaged 1.21% arsenic, 0.13% antimony and 16 ppm mercury. Some of the arsenic could be contained in the yellow to greenish-yellow goethite (?) occurring on some outcrops. Near the north end of this zone, acid (dacitic?) dikes with quartz and sulphides (Pyrite and Pyrrhotite) outcrop in the road cut.

4.0 GEOCHEMICAL SURVEY

Twenty-three soil samples and two silt samples were taken, all were analyzed for gold and multi-element ICP. Eighty-six rock samples were taken, thirty were analyzed for gold and multi-element ICP and fifty-six for gold alone.

4.1 FIELD METHODS

A. SOIL SURVEY - A mattock was used to sample the first available mineral soil horizon, usually at a depth of less than six inches. These samples, typically a mixture of B and C horizons, were stored in 4"x 6" Kraft paper bags. Notes were kept on standard soil sheets to aid in interpretation of results. Sample location was controlled by pace and compass grid lines.

B. ROCK CHIP SURVEY - Rock hammers were used to obtain approximately five pounds of rock chips over one square metre. Samples were stored in plastic bags.

4.2 ANALYTICAL METHODS

Soil and rock samples were analyzed for gold and/or multi-element I.C.P. by Acme Analytical Laboratories Ltd. and by Vangeochem Labs Ltd.. Methods are included with the assay certificates in Appendix C.

4.3 RESULTS & INTERPRETATION of GEOCHEMICAL SURVEY

The rock sampling program successfully identified numerous anomalies (up to 21 ppm gold) with background areas containing non-detectable amounts of gold. Sampling of the epithermal zone returned 16 ppm mercury, 0.13% antimony and 1.2% arsenic across seventy feet (21.34 metres) with 2 ppm gold.

Soil sampling of Line 20-S revealed one highly anomalous sample at 1+75-E of 1050 ppb gold (Figure 4) near an outcrop of skarnified volcanics suggesting soil sampling with analyses for gold to be a viable means of prospecting in this area.

5.0 SELF POTENTIAL SURVEY

A self potential survey was carried out on the central portion of the Gold Exchange Group during the fall of 1986 and winter of 1987. A total of 5.3 kilometres of a previously established chain and compass grid (Greenwich Resources) was resurveyed and flagged at 25 metre intervals. South of Stramberg Lake, near copper-gold skarn mineralization, a separate 1.4 kilometres was surveyed. The two survey areas were not connected; however values should be roughly equivalent.

Equipment used in the survey consisted of a Micronta 22-191 Digital multimeter, calibrated to read in millivolts, two unglazed ceramic pots containing a saturated solution of copper sulphate, and 250 metres of 18 gauge multi-strand copper wire with thermoplastic insulation on a winding spool with an armature. The spool was modified so that one person could both pull wire and take readings at the forward pot. The long wire method (Lajoie, 1981) was used to conduct the survey. Readings were taken at 25 metre intervals and were corrected to a base station at the baseline and on line 0+00.

5.1 RESULTS & INTERPRETATION of SELF POTENTIAL SURVEY

Results of the Self Potential survey are plotted of Figure 6. Anomalous self potentials were found in both survey areas.

Area A has values in the -300 millivolt range with maximum values coincident with Greenwich Resources EM-16 anomaly A (Figure 5B, Assessment Report 10,538) and reinforces their interpretation that the cause of their anomaly is, in fact, sulphides.

Area B, south of Stramberg Lake, near 4+50-E on Line 20-N is coincident with Greenwich's VLF anomaly C (strong to weak); however recent logging revealed black organic limestone and a relatively high (-600 m.v.) self potential suggests this anomaly could be caused by graphite.

6.0 CONCLUSIONS & RECOMENDATIONS - GOLD EXCHANGE GROUP

Nation River resources exploration programme on the Gold Exchange Group has resulted in the location and relocation of numerous significant gold showings including 16.3 ppm gold across 1.2 metres and 21 ppm gold across 0.61 metres. The limited soil sampling (L-20-S) located one significant gold anomaly of 1050 ppb and suggests analyses for gold in soil, at least in areas of shallow over-burden, is a good exploration tool. The discovery of epithermal mineralization with cinnibar, antimony and arsenic suggests the possibility of epithermal gold mineralization previously unknown in the Lime Belt.

I recommend that the Greenwich Resources grid lines be rerun with cross-lines established at 200 metre intervals with stations at 50 metres. The entire grid should be soil sampled and these soils analyzed for gold, multi-element ICP and mercury.

Further; any gold soil anomalies that correlate with either VLF - EM or magnetic anomalies should be checked either by trenching with an excavator or by short diamond drill holes. Further prospecting, including soil sampling, should be done to the east and south-east of the epithermal zone.



BIBLIOGRAPHY

GOLD EXCHANGE GROUP

1. Hand, 1982, Geological, Geochemical, Geophysical Quad Claims Assessment Report, No. 10,538
2. Lajoie, 1981, Geophysical Class Notes, David Thompson, University Center, Nelson B.C., May 1981

APPENDIX A

STATEMENT OF QUALIFICATION

I, Colin Campbell, of the Town of Courtenay, in the Province of British Columbia, do here by state that:

1. I am a geologist.
2. I graduated from the University of British Columbia in 1966 with a B.SC. Degree in Honours Geology.
3. I have worked steadily in mining exploration in British Columbia and Yukon territory from 1966 to 1973; intermittently from 1974 to 1983 and steadily from January 1984 to the present.
4. I personally carried out, or supervised, the geological, self potential and geochemical survey on the Gold Exchange Group.
5. Title to the Gold Exchange Group is presently registered in my name.



Colin J. Campbell

APPENDIX B

STATEMENT OF EXPENDITURES - GOLD EXCHANGE GROUP

1. FIELD WAGES

Colin Campbell

May 5,6(1/2),7,15,26,28;

June 3,4,23,24,26;

December 8,10,11; 1986

February 21; 1987

15.5 days @ \$200 = 3100.00

T.Tacker

May 5,6(1/2)

1.5 days @ \$100 = 150.00

3250.00

REPORT PREPERATION

5 days @ \$200 = 1000.00

4250.00

4250.00

2. FIELD SUPPLIES

100.00

3. TRANSPORTATION

1/2 ton P.U. all found

4.5 days @ \$40 = 580.00

4X4 P.U. 1.0 days @ \$83 = 83.00

663.00

663.00

4. GEOPHYSICAL RENTAL

S.P. unit 7.0 days @ \$10 = 70.00

70.00

5. GEOCHEMICAL ANALYSES

Soil & Silt 25 @ \$10.25 = 255.75

Rock (Au & ICP) 30 @ \$13.25 = 397.50

Au 41 @ \$ 7.00 = 287.00

Au 15 @ \$ 9.75 = 146.25

1087.00

1087.00

6. TYPING, PRINTING & COPIES

150.00

TOTAL

\$6320.00



Colin Campbell



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

GEOCHEMICAL ANALYTICAL REPORT

CLIENT: NATION RIVER RESOURCES LTD.
ADDRESS: Site 480 R.R.#4
: Courtenay B.C.
: V9N 7J3

DATE: May 14 1986

REPORT#: 860121GA
JOB#: 860121

PROJECT#: QI
SAMPLES ARRIVED: May 9 1986
REPORT COMPLETED: May 14 1986
ANALYSED FOR: Au (FA/AAS) Hg

INVOICE#: 860121NA
TOTAL SAMPLES: 18
SAMPLE TYPE: 18 Rocks
REJECTS: SAVED

SAMPLES FROM: NATION RIVER RESOURCES LTD.
COPY SENT TO: NATION RIVER RESOURCES LTD.

PREPARED FOR: MR. COLIN CAMPBELL

ANALYSED BY: VGC Staff

SIGNED:

[Handwritten signature]

GENERAL REMARK: Au analyses done by FA/AAS finish



VANGEOCHEM LAB LIMITED

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REPORT NUMBER: 860121GA

JOB NUMBER: 860121

NATION RIVER RESOURCES LTD.

PAGE 1 OF 1

SAMPLE #	Au	Hg
	ppb	ppb
Q -1	70	--
Q -2	nd	--
Q -3	nd	--
Q -4	nd	--
Q -5	nd	--
Q -6	30	--
Q -7	nd	--
Q -8	90	--
Q -9	20	--
Q -10	nd	--
Q -11	nd	--
Q -12	8880	--
Q -13	5550	--
Q -14	40	--
Q -15	nd	16000
Q -16	nd	--
Q -17	nd	--
Q -18	nd	--

DETECTION LIMIT

5 5

nd = none detected

-- = not analysed

is = insufficient sample

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: (604)253-3158 COMPUTER LINE:251-1011

DATE RECEIVED MAY 30 1986

DATE REPORTS MAILED

June 4/86

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE TYPE : ROCK - CRUSHED AND PULVERIZED TO -100 MESH. P3-001/s -80 mesh
Au* - 10 GR. IGNITED, HOT AQUA REGIA LEACHED, MIBK EXTRACTION. AA ANALYSIS.

ASSAYER *D. Toye* DEAN TOYE . CERTIFIED B.C. ASSAYER

PROJECT Q1 FILE# 86-0829

PAGE# 1

SAMPLE	Au* ppb
Q19-R	53
Q20-R	1230
Q21-R	630
Q22-R	2290
Q23-R	175
Q24-R	255
Q25-R	85
Q26-R	610
Q27-R	275
Q28-R	5
Q29-R	125
Q30-R	6
Q31-R	7
Q32-R	2
Q33-R	3
Q34-R	4
Q35-R	1190
Q36-R	6250
Q37-R	36
Q38-R	48
Q39-R	53
Q42-R	19
Q43-R	9
Q44-R	2
Q45-R	21000
Q46-R	305
Q47-R	1390
Q48-R	9
Q49-R	2
Q50-R	16300

GEOCHEMICAL ICP ANALYSIS

.500 GFAM SAMPLE IS DIGESTED WITH 1ML 3-1-2 HCL-HNO3-H2O2 AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN,FE,CA,P,CU,MO,BI,LI,SR,AL,NA,K,W,Sr,CE,SN,C,N,S AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK CHIPS AU ANALYSIS BY AA FROM 10 GFAM SAMPLE. HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: JUNE 6 1986 DATE REPORT MAILED: *June 12/86* ASSAYER: *D. J. J. DEAN TOYE, CERTIFIED B.C. ASSAYER.*

PROJECT - Q1 FILE # 86-0900

PAGE 1

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	B	Al	Na	K	W	Au	Hg
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Ge1-F	1	2212	6	71	2.6	240	210	259	16.67	49	5	ND	2	154	2	2	8	16	5.06	.04	8	4	.13	18	.08	26	.93	.20	.02	1	170	5
Ge2-F	2	64	27	246	.1	32	19	134	5.48	17576	5	ND	1	69	3	1797	2	98	.29	.07	3	10	.10	14	.01	2	.86	.01	.01	1	3	7000
Ge3-F	9	46	42	171	.1	27	21	160	5.12	12982	7	ND	1	121	1	2228	2	97	.82	.06	2	8	.11	23	.01	5	.69	.01	.01	1	1	15000
Ge4-F	6	46	16	94	.4	54	17	332	6.18	15127	5	ND	1	227	1	1689	2	158	3.13	.11	2	17	.13	44	.01	7	.73	.02	.01	1	1	14000
Ge5-F	10	51	16	171	.2	51	19	520	5.52	10655	5	ND	1	316	2	896	2	153	3.81	.13	3	26	.23	37	.01	4	.73	.01	.01	1	1	19500
Ge6-F	4	21	19	125	.1	30	11	308	3.91	17842	5	ND	4	292	1	1152	2	109	10.37	.15	2	22	.18	18	.01	3	.83	.01	.01	1	2	36000
Ge7-F	28	42	4	146	.4	73	13	359	4.40	6333	9	ND	3	426	3	1210	2	185	8.16	.15	2	18	.15	46	.01	2	.66	.01	.01	1	3	10000
Ge8-F	5	26	14	46	.1	29	12	237	2.11	4252	5	ND	4	544	1	237	3	66	20.87	.04	2	16	.10	9	.01	4	.31	.01	.01	3	1	10800
Ge9-R	6	134	11	20	.2	5	13	161	4.66	118	5	ND	1	139	1	12	2	48	2.48	.07	2	3	.27	25	.17	3	2.58	.40	.08	1	3	110
STD C/AU 0.5	21	61	42	136	7.0	72	29	1184	3.95	41	17	8	33	48	18	15	18	61	.48	.11	38	60	.87	181	.08	36	1.71	.06	.11	14	500	1700

1.2

.13%

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 MCL-HNO₃-H₂O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN, FE, CA, P, CR, MG, BA, TI, B, AL, NA, K, W, SI, ZR, CE, SM, Y, NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK CHIPS AU ANALYSIS BY AA FROM 10 GRAM SAMPLE. HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: JUNE 26 1986

DATE REPORT MAILED: *July 1/86*ASSAYER: *D. Toy*... DEAN TOYE, CERTIFIED B.C. ASSAYER.

LARAMIDE RESOURCES PROJECT - Q.I. FILE # 86-1183

PAGE 1

SAMPLE#	Na	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au	Hg
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Q78R	7	106	12	132	.7	61	18	70	3.03	7	5	ND	1	100	6	2	2	43	2.85	.07	5	26	.05	59	.18	5	1.16	.11	.02	1	2	5
Q79R	1	184	14	45	.1	35	26	346	10.25	16	5	ND	1	95	1	2	4	157	.63	.06	4	40	.43	19	.59	6	1.58	.10	.06	1	8	5
Q80R	2	52	7	75	.1	7	11	672	3.61	5	8	ND	3	295	1	2	2	77	6.38	.08	6	5	1.01	112	.15	5	4.31	.59	.35	1	2	10
Q81R	2	62	4	48	.2	15	14	359	3.45	10	5	ND	1	210	1	2	2	73	1.47	.08	6	15	1.00	48	.18	3	2.13	.29	.07	2	1	5
Q82R	1	217	11	46	.1	32	29	417	7.01	7	5	ND	1	148	1	2	3	94	1.93	.08	5	22	.76	9	.29	5	2.40	.19	.02	1	1	5
Q83R	2	48	2	346	.1	36	13	277	3.16	25	5	ND	2	531	3	2	2	49	3.55	.07	4	20	.58	27	.12	5	4.01	.42	.07	1	24	40
Q84R	1	27	6	31	.1	18	13	466	5.00	19	5	ND	2	631	1	3	2	86	4.30	.08	8	15	1.45	42	.06	3	4.55	.85	.19	2	1	330
Q85R	1	41	3	21	.1	33	22	418	6.31	47	5	ND	2	527	1	5	2	77	3.63	.08	7	20	1.45	35	.08	5	4.62	.76	.18	1	2	120
Q86R	2	25	3	15	.1	6	7	247	3.62	7	5	ND	1	783	1	2	2	61	3.80	.10	6	2	1.15	75	.13	5	5.11	1.08	.22	2	1	5
Q87R	1	33	2	14	.2	7	19	401	7.36	20	5	ND	1	549	1	2	2	70	2.86	.08	7	2	1.12	31	.11	2	4.56	.80	.09	1	1	20
Q88R	2	37	5	18	.1	23	18	340	6.33	3	11	ND	2	492	1	2	2	56	5.63	.08	6	7	1.01	54	.10	2	4.88	.58	.16	1	1	10
Q89R	4	28	3	11	.1	13	13	356	5.41	9	7	ND	3	567	1	2	4	49	7.62	.10	7	4	.76	66	.10	2	4.65	.79	.08	2	2	20
Q90R	11	81	3	35	.1	63	20	227	4.54	7	7	ND	2	901	1	2	4	43	5.63	.07	6	66	.66	46	.13	4	5.53	.73	.10	2	1	5
STD C/AU 0.5	21	59	37	133	7.0	68	29	1203	3.95	41	18	8	33	48	18	16	22	62	.48	.11	37	59	.88	181	.08	38	1.73	.08	.10	13	495	1300

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN, FE, CA, P, CR, MG, BA, TI, B, AL, NA, K, W, SI, ZR, CE, SM, Y, NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK CHIPS AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: AUG 15 1986

DATE REPORT MAILED:

*Aug 20/86*ASSAYER: *D. J. J.*

DEAN TOYE, CERTIFIED B.C. ASSAYER.

LARAMIDE RESOURCES PROJECT - DI FILE # 86-2079

PAGE 1

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	In	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	%	%	%	%	PPM	PPM
Q101R	3	533	8	52	.5	1	3	133	8.10	2528	5	ND	2	21	1	4	2	11	.37	.095	2	1	.28	50	.06	5	1.13	.09	.32	1	225
Q102R	2	658	5	29	.7	1	3	79	5.21	4112	5	ND	2	6	1	7	2	7	.19	.082	2	1	.17	56	.06	6	.59	.02	.38	1	595
Q103R	3	245	11	81	.3	2	3	307	4.50	1224	5	ND	2	51	1	2	2	25	1.35	.085	4	2	.39	65	.12	6	2.73	.33	.56	1	215
Q104R	4	367	10	68	1.1	2	5	430	9.45	888	5	ND	3	36	1	7	2	51	.43	.079	5	3	.63	62	.13	3	1.51	.12	.24	1	335
Q105R	1	1926	29	30	2.3	4	7	103	33.74	804	5	ND	3	18	1	2	13	12	.37	.053	42	1	.12	15	.02	24	.32	.06	.13	1	440

GOLD Exchange. - T 14-V trench.

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PH: (604) 253-3158 COMPUTER LINE: 251-1011

DATE RECEIVED FEB 25 1987

DATE REPORTS MAILED Mar 4/87

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE TYPE : ROCK - CRUSHED AND PULVERIZED TO -100 MESH.
Au# - 10 GM. IGNITED, HOT AQUA REGIA LEACHED, NIBK EXTRACTION, AA ANALYSIS.

ASSAYER: D. Toye DEAN TOYE . CERTIFIED B.C. ASSAYER

NATION RIVER RESOURCES PROJECT Q1 FILE# 87-0515 PAGE# 1

SAMPLE Au#

Q 126-R	1
Q 127-R	1
Q 128-R	1
Q 129-R	4
Q 130-R	1
Q 131-R	1
Q 132-R	1
Q 133-R	3

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN, FE, CA, P, CR, NG, BA, TI, B, AL, NA, K, W, SI, ZR, CE, SM, Y, NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: P1-ROCKS P2-3 SOILS & SILTS -80 MESH AU ANALYSIS BY AA FROM 10 GRAM SAMPLE. HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: JUNE 27 1986 DATE REPORT MAILED: *July 2/86* ASSAYER: *D. J. ...* DEAN TOYE, CERTIFIED B.C. ASSAYER.

LARAMIDE RESOURCES PROJECT - Q.I. FILE # 86-1191

PAGE 1

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au	Hg	
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM		
Q201R																																	
Q202R																																	
Q203R																																	
Q204R																																	
Q205R																																	
Q206R																																	
Q207R																																	
Q208R																																	
Q209R																																	
Q210R																																	
Q211R																																	
Q212R																																	
Q213R																																	
<i>N.O.</i> Q214R	1	2375	5	449	3.1	8	16	787	5.36	16	5	ND	2	86	7	2	18	165	1.89	.08	10	14	1.13	205	25	2	3.25	44	52	51	140	5	
Q215R	1	360	6	120	.4	9	24	1034	4.96	36	5	ND	1	176	1	2	2	134	2.83	.11	9	5	1.05	202	.20	4	3.63	.53	.47	2	17	5	
Q216R	2	60	8	43	.1	10	9	562	3.66	8	5	ND	1	167	1	2	2	31	3.64	.08	7	4	.71	71	.12	2	2.07	.35	.14	2	9	5	
Q217R	1	106	15	25	.1	108	27	236	4.15	8	6	ND	1	407	1	2	2	30	4.27	.08	7	107	.81	31	.13	4	4.31	.69	.06	1	3	5	
Q218R	37	305	13	39	.2	51	33	491	6.56	22	17	ND	2	411	1	2	2	79	5.12	.10	13	22	.36	40	.22	5	5.32	.79	.07	1	12	5	
Q219R	2	70	10	33	.1	22	18	328	3.63	12	5	ND	2	160	1	2	2	70	4.56	.06	8	22	.94	73	.19	3	2.71	.41	.07	1	1	5	
Q220R	4	21	6	7	.1	15	1	98	.40	8	5	ND	1	865	1	2	9	12	28.77	.03	2	3	.11	207	.01	2	.20	.01	.01	1	2	10	
STD C/AU 0.5	19	61	37	135	7.1	69	30	1225	3.95	42	18	8	34	50	18	15	19	63	.48	.11	39	60	.88	187	.09	39	1.73	.08	.11	13	510	1300	

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N.B. check this location & sample

W OVER 100 ppm require regular assay

LARAMIDE RESOURCES PROJECT - Q.I. FILE # 86-1191

PAGE 3

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Hg	Ba	Ti	B	Al	Na	K	N	Au	Hg
	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH
QS-46 L205 0+25E	2	16	9	63	.2	7	10	945	4.23	11	7	ND	2	48	1	2	4	88	.58	.09	2	23	.36	58	.22	2	3.41	.04	.06	1	1	70
QS-47 " B.L.	4	52	14	140	.3	18	14	2346	4.59	18	6	ND	1	53	1	2	3	76	.66	.11	3	30	.54	95	.17	3	3.85	.05	.06	1	1	150
QS-48 " 3+25E	3	16	20	64	.1	5	7	556	3.54	13	5	ND	1	44	1	2	2	70	.45	.09	2	12	.26	46	.14	3	2.41	.03	.03	1	1	100
QS-49 " 3+50E	2	12	8	43	.1	4	5	267	3.11	8	5	ND	1	35	1	2	2	64	.28	.17	2	14	.25	35	.11	2	3.05	.03	.02	1	1	80
QS-50 " 3+75E	3	21	15	95	.2	7	10	791	3.47	8	9	ND	2	60	1	2	2	77	.59	.13	5	15	.48	61	.16	4	3.75	.04	.04	1	2	120
QS-51 " 4+00E	2	11	15	63	.2	5	8	1470	3.04	11	5	ND	1	23	1	2	2	67	.25	.06	2	11	.39	60	.19	2	1.20	.03	.05	1	1	60
QS-52 " 4+25E	1	9	9	55	.1	1	5	749	2.53	7	6	ND	2	30	1	2	2	57	.33	.20	2	11	.23	96	.13	2	1.08	.03	.05	1	1	30
QS-53 " 4+50E	1	27	10	89	.1	9	10	1625	3.35	14	5	ND	2	32	1	2	2	83	.33	.32	2	12	.57	80	.16	2	2.45	.03	.03	1	1	50
QS-54 " 4+75E	4	22	14	214	.1	59	15	3846	2.98	19	5	ND	1	92	1	2	4	47	.84	.38	2	39	.69	108	.06	2	2.38	.04	.03	1	2	60
QS-55 " 5+00E	5	70	12	85	.2	22	12	773	3.74	18	6	ND	2	41	1	2	2	88	.48	.13	2	22	.56	62	.15	2	2.77	.03	.04	1	3	80
QS-56 " 5+25E	4	30	16	112	.2	28	11	1019	4.17	19	5	ND	2	29	1	2	2	106	.25	.46	2	22	.53	122	.15	2	3.45	.03	.03	1	1	50
QS-57 " 5+50E	16	25	16	55	.1	99	10	298	2.68	23	5	ND	1	24	1	2	2	106	.23	.12	2	28	.17	85	.07	2	1.96	.01	.02	1	1	40
QL-1 BL-205	1	37	12	52	.3	13	9	512	2.81	14	6	ND	1	70	1	2	2	64	1.37	.08	6	17	.54	56	.12	5	1.68	.06	.07	1	1	60
QL-2 L205 3+25E	2	40	17	109	.3	12	11	1882	3.04	11	6	ND	1	84	1	2	3	63	1.42	.09	5	15	.53	104	.12	2	2.59	.07	.07	1	1	40
STD C/AU 0.5	21	60	42	135	7.0	65	31	1224	3.96	37	21	7	34	49	17	16	20	64	.48	.11	37	60	.88	183	.08	40	1.73	.08	.11	14	500	1300

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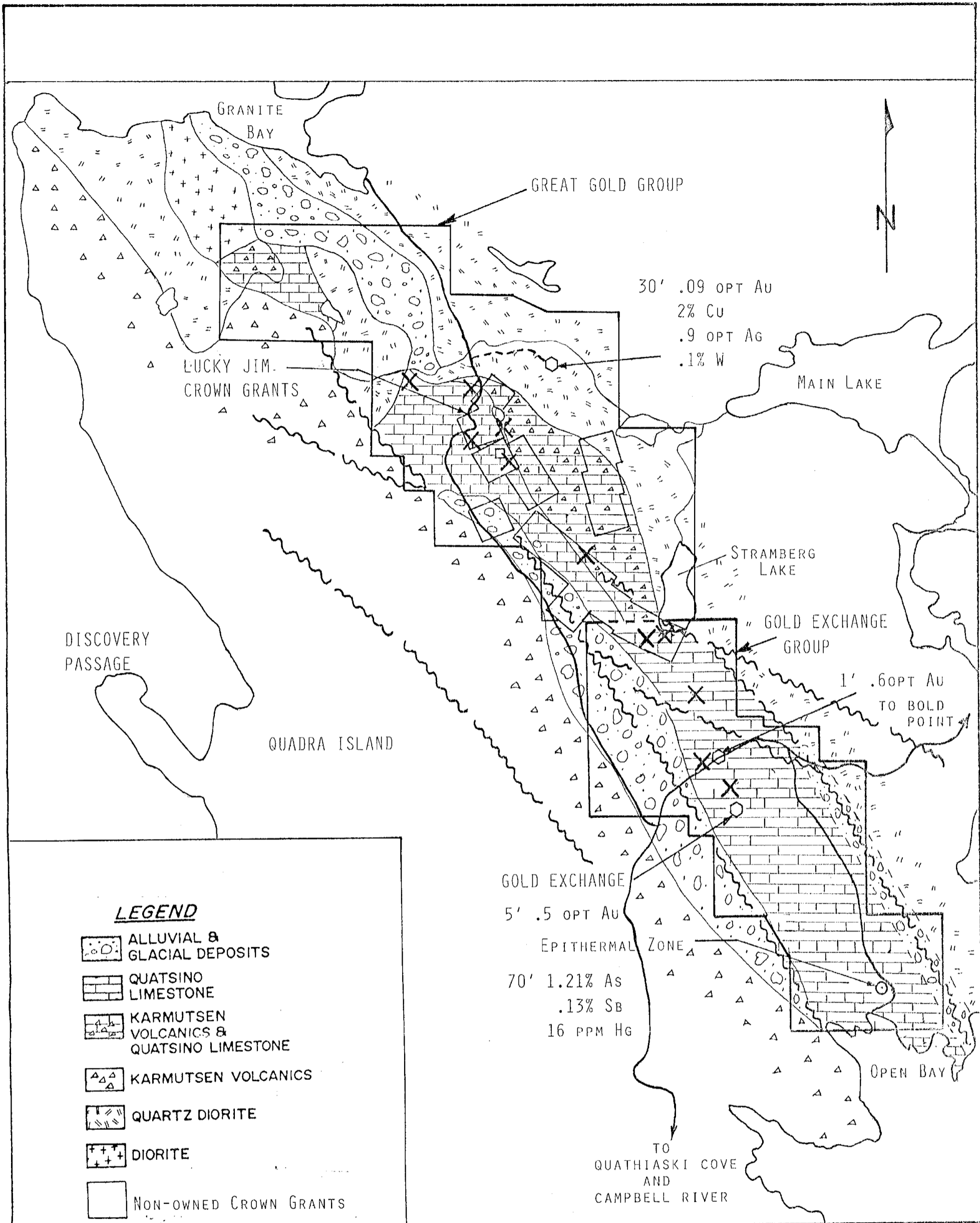
PHONE 253-3158

DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.HG.BA.TI.B.AL.MA.K.W.SI.ZR.CE.SN.Y.ND AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: SOILS -BOMESH AU: ANALYSIS BY AA FROM 10 GRAM SAMPLE. HG ANALYSIS BY FLAMELESS AA.

ASSAYER. *D. J. Toy* DEAN TOYE. CERTIFIED B.C. ASSAYER.



LEGEND

- ALLUVIAL & GLACIAL DEPOSITS
- QUATSINO LIMESTONE
- KARMUTSEN VOLCANICS & QUATSINO LIMESTONE
- KARMUTSEN VOLCANICS
- QUARTZ DIORITE
- DIORITE
- NON-OWNED CROWN GRANTS
- GEOLOGIC CONTACT defined, approximate
- FAULT-defined
- ROAD
- GOLD OCCURENCES



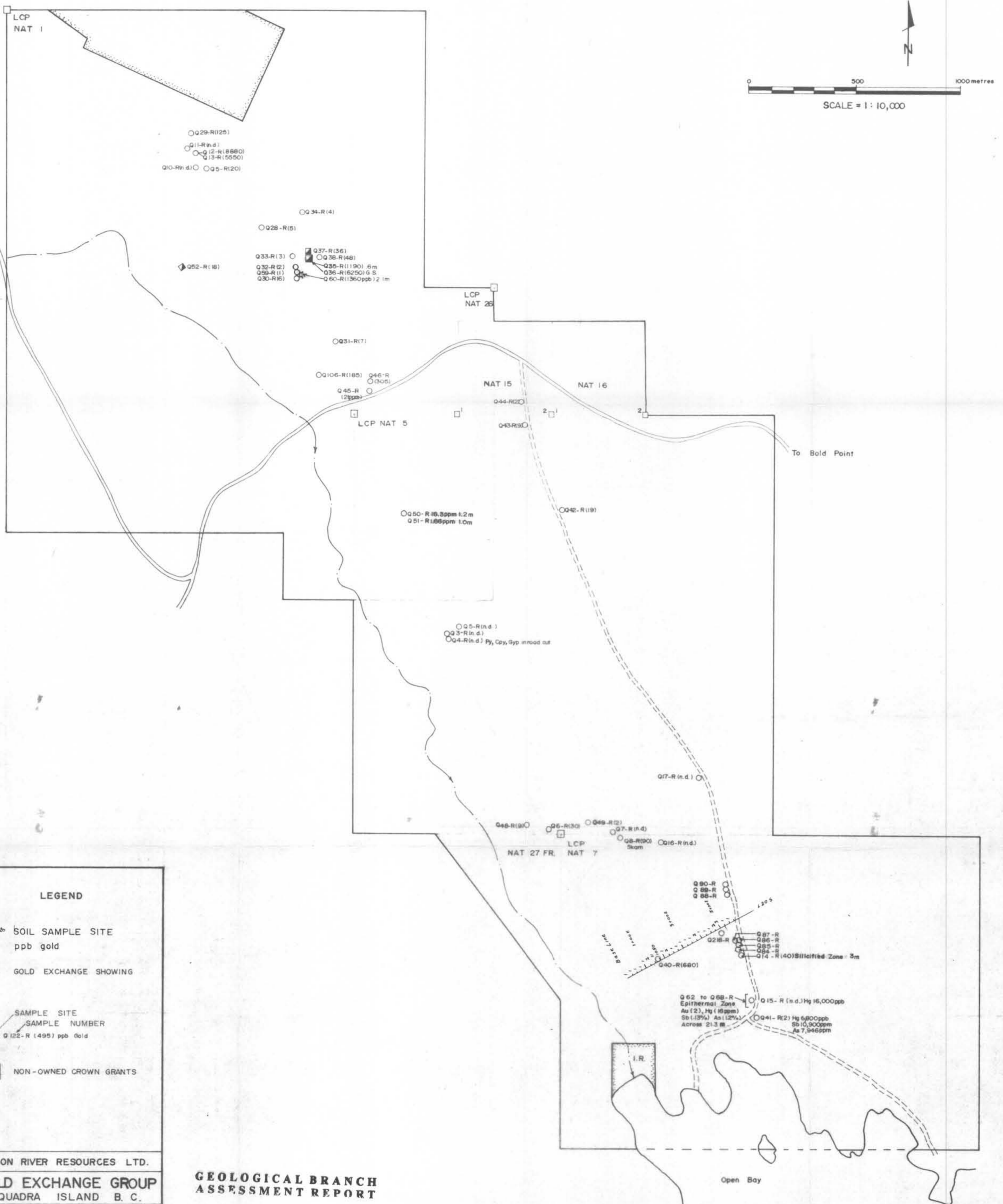
Geology from
Roddick & Woodsworth,
1976

NATION RIVER RESOURCES LTD.
GREAT GOLD - GOLD EXCHANGE GROUPS
REGIONAL GEOLOGY - SHOWINGS

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,143

FIGURE 3 SCALE 1:5000
COLIN CAMPBELL JUNE 1987



LEGEND

- SOIL SAMPLE SITE
ppb gold
- GOLD EXCHANGE SHOWING
- SAMPLE SITE
SAMPLE NUMBER
Q 122-R (495) ppb Gold
- NON-OWNED CROWN GRANTS

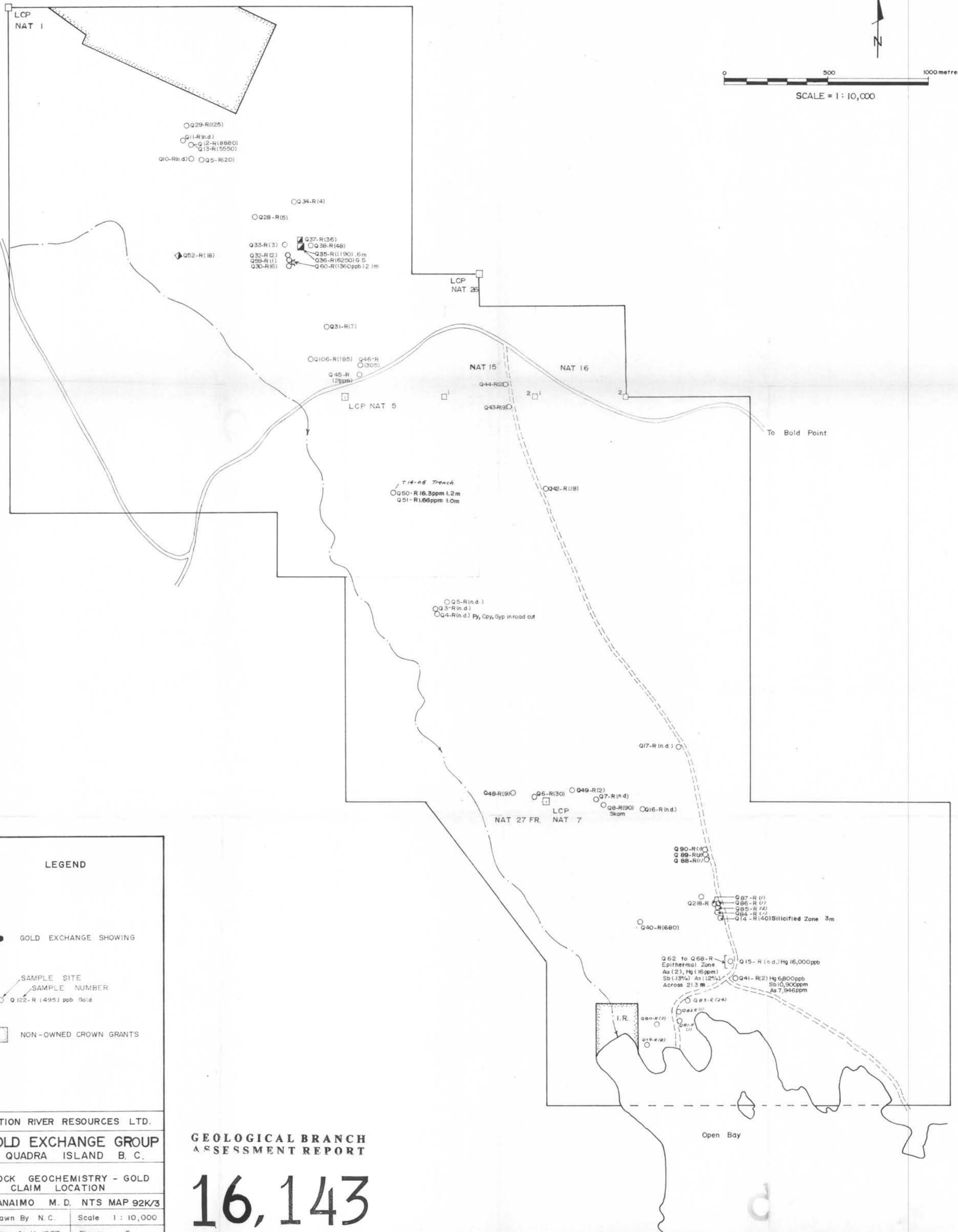
NATION RIVER RESOURCES LTD.
GOLD EXCHANGE GROUP
 QUADRA ISLAND B. C.
 GOLD IN SOIL
 NANAIMO M. D. NTS MAP 92K/3
 Drawn By N. C. Scale 1 : 10,000
 Date April 1987 Figure 4

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

16,143



SCALE = 1 : 10,000



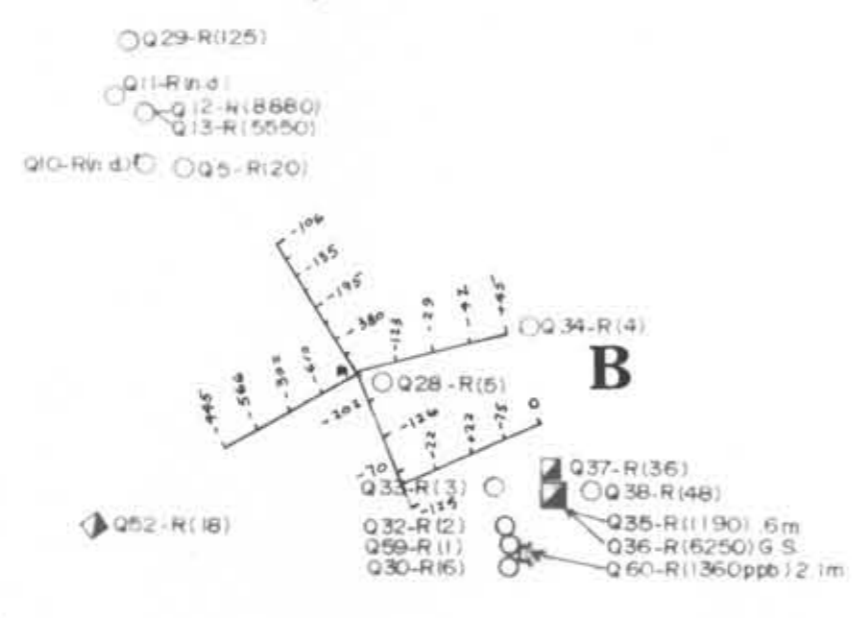
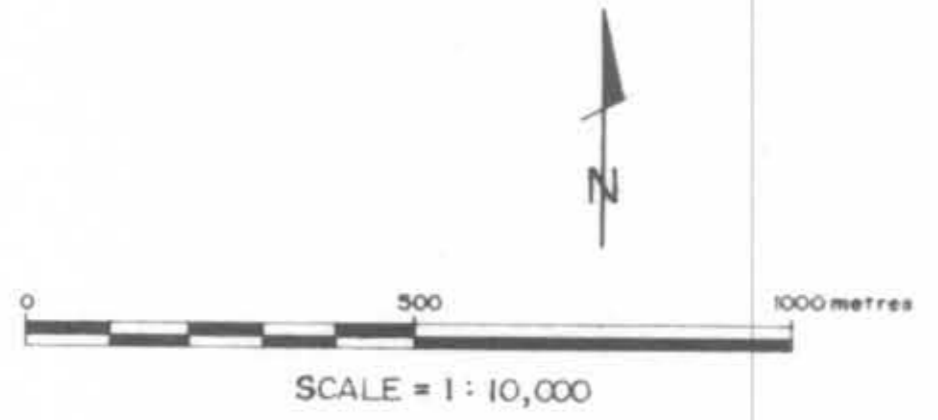
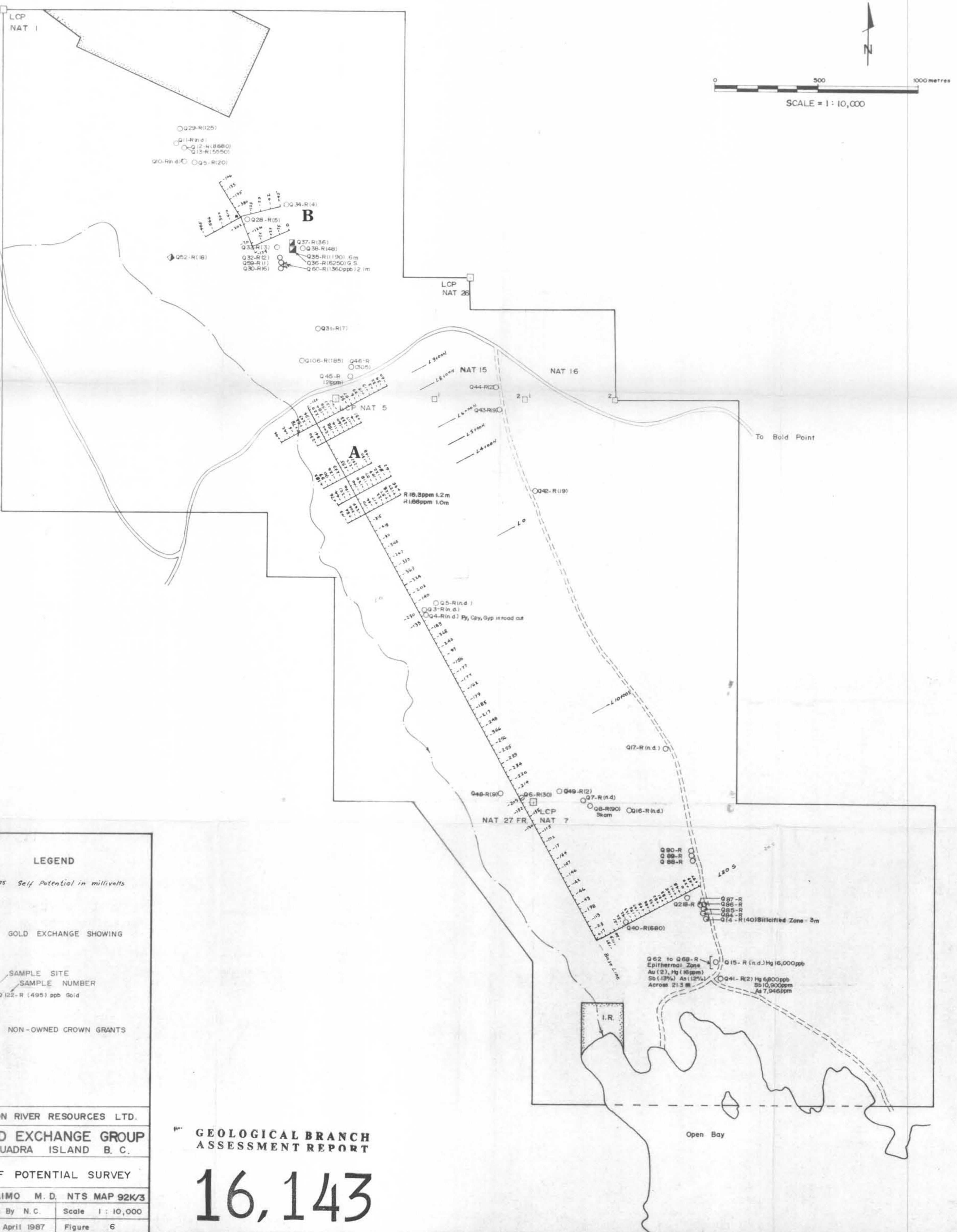
LEGEND

- GOLD EXCHANGE SHOWING
- SAMPLE SITE
○ SAMPLE NUMBER
○ Q122-R (495) ppb Gold
- NON-OWNED CROWN GRANTS

NATION RIVER RESOURCES LTD.	
GOLD EXCHANGE GROUP QUADRA ISLAND B. C.	
ROCK GEOCHEMISTRY - GOLD & CLAIM LOCATION	
NANAIMO M. D. NTS MAP 92K/3	
Drawn By N. C.	Scale 1 : 10,000
Date April 1987	Figure 5

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,143



LEGEND

- Self Potential in millivolts
- GOLD EXCHANGE SHOWING
- SAMPLE SITE
SAMPLE NUMBER
Q 122-R (495) ppb Gold
- NON-OWNED CROWN GRANTS

NATION RIVER RESOURCES LTD.	
GOLD EXCHANGE GROUP	
QUADRA ISLAND B.C.	
SELF POTENTIAL SURVEY	
NANAIMO M.D. NTS MAP 92K/3	
Drawn By N.C.	Scale 1 : 10,000
Date April 1987	Figure 6

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,143