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GEOCHEMICAL REPORT  
ON  
SONORA GROUP  
NANAIMO MINING DIVISION  
50°25'N 125°20'W  
92K/6W

by  
J.W. MacLeod, P.Eng.  
Vancouver, B.C.  
April 11, 1984

MINING DIVISION  
GEOCHEMICAL REPORT

12,299

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REPORT ON  
SONORA GROUP

INTRODUCTION:

The following report has been prepared to fulfill the requirements of the Mineral Act with regard to the application of a geochemical survey for assesement credit.

SUMMARY:

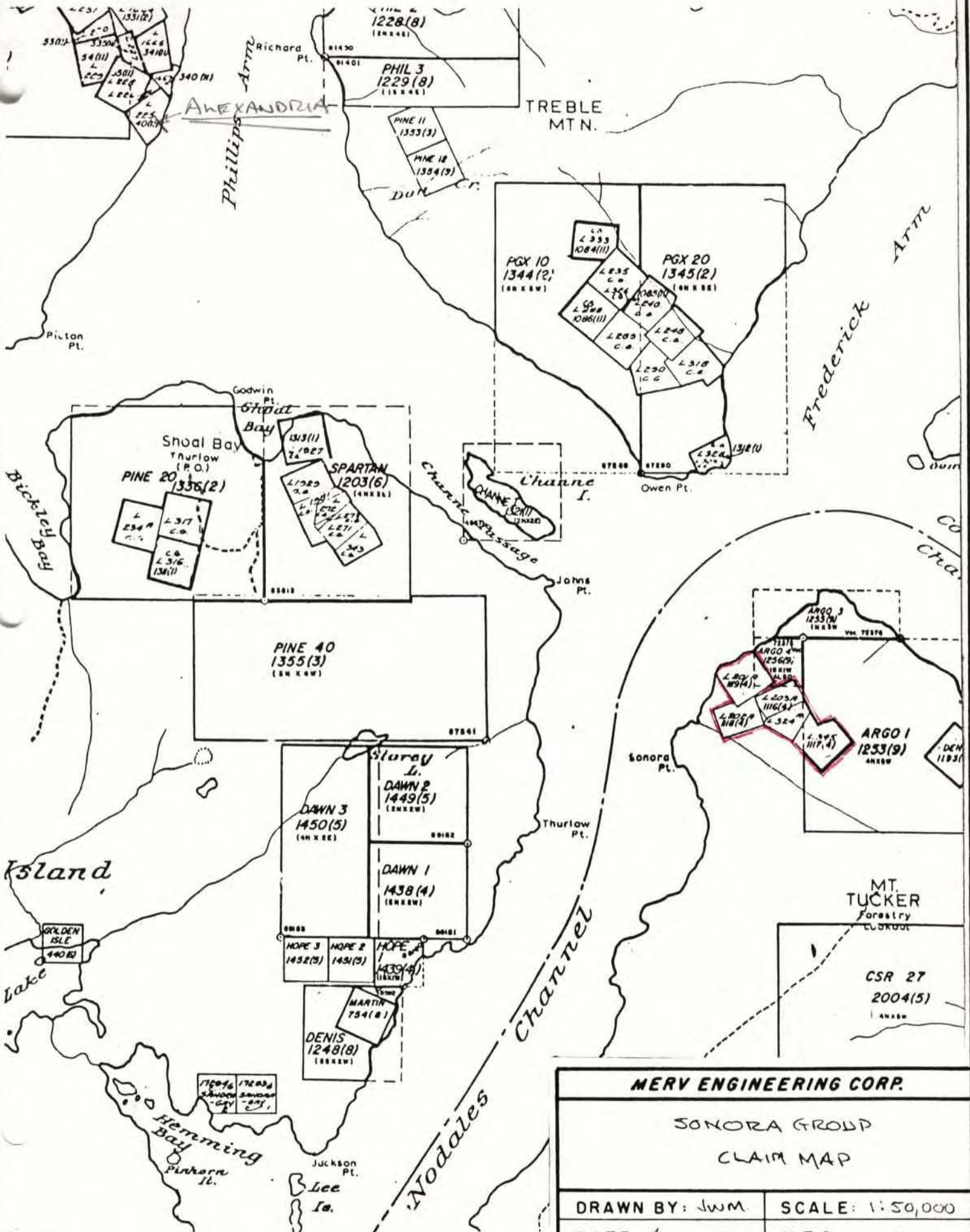
The Sonora Group of reverted crown grants was acquired by M.P. Warshawski and the writer on April 20, 1983. Geological indications here are similar to the Alexandria 8 km to the northwest. Therefore a reconnaissance program to locate and prospect the diorite-sediment contact was carried out between Feb.23 and Feb.27, 1984.

No significant gold indications were obtained by the field work. One isolated sample gave a 67 p.p.m. Mo assay and 80 p.p.m. Co.

PROPERTY:

The property is made up of the following reverted crown grants:

<u>NAME</u>	<u>C.G.NO.</u>	<u>RECORD NO.</u>	<u>DATE</u>
Bobby Burns	201 A	1403	April 20, 1983
Hetty Green	202 A	1404	"
Daniel Webster	203 A	1405	"
Bully Boy	324 A		"
Queen Bee	345	1406	"



<b>MERV ENGINEERING CORP.</b>	
SONORA GROUP CLAIM MAP	
DRAWN BY: JWM	SCALE: 1:50,000
DATE: April 8, 1994	N.T.S. : 92 K & W

LOCATION & ACCESS:

The property is located on the northwest end of Sonora Island 100 km northwest of Vancouver.

Access is by boat from Rock Bay on Vancouver Island or float plane from Campbell River 25 km to the south. Accommodation is available at the Shoal Bay Lodge on East Thurlow Island 5 km to the northwest of the property.

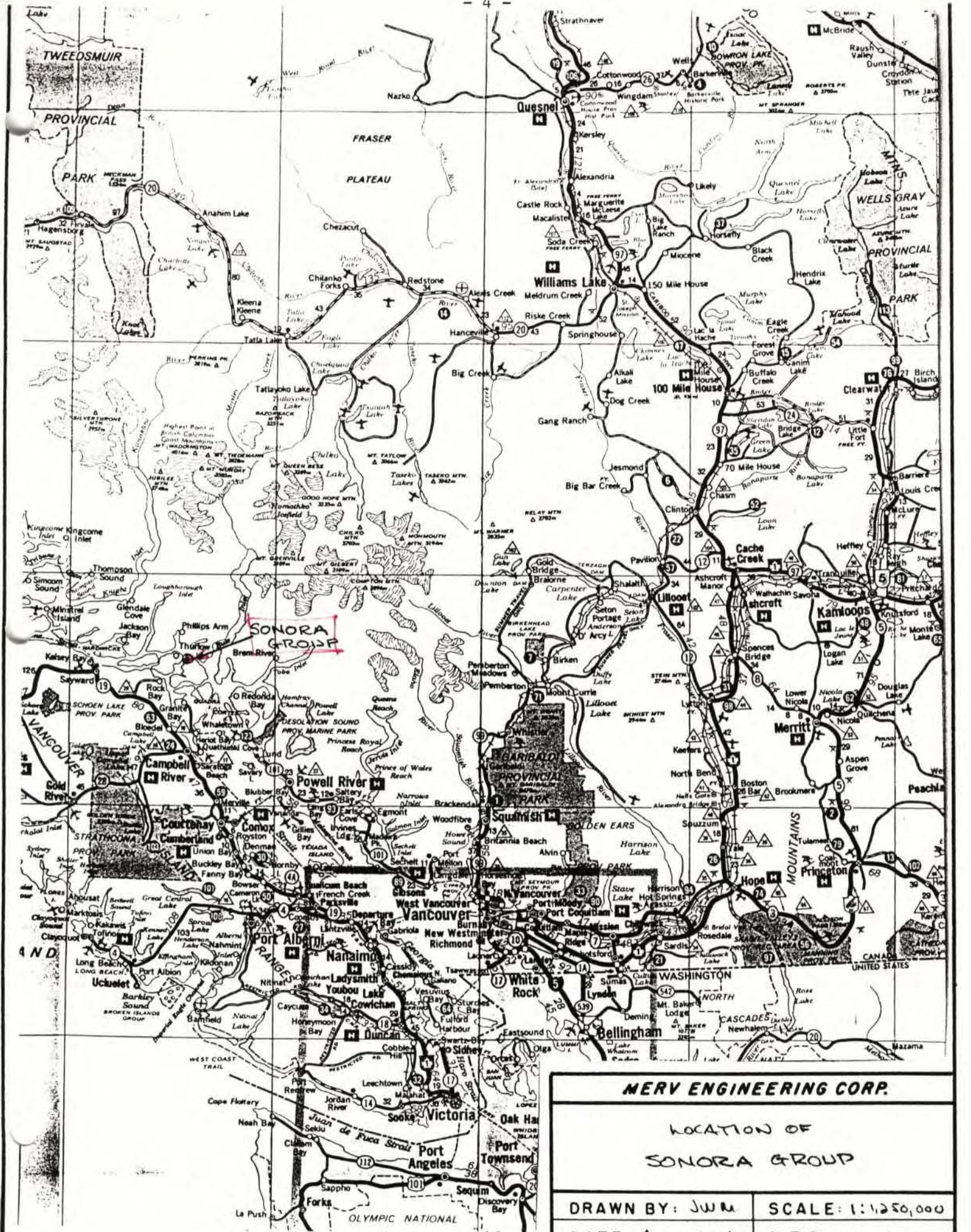
HISTORY:

The only recorded work on the Sonora property is in the 1929 Minister of Mines Report. At that time the ground was held by Sonora Gold Mines which company drove two short adits at sea level and another at 300 feet. Also a couple of shafts 60 feet deep were sunk.

GENERAL:

Most of the claim area has recently been clear logged with good roads close to the highest elevation at about 300 meters. Heavily willow covered roads attest to earlier logging.

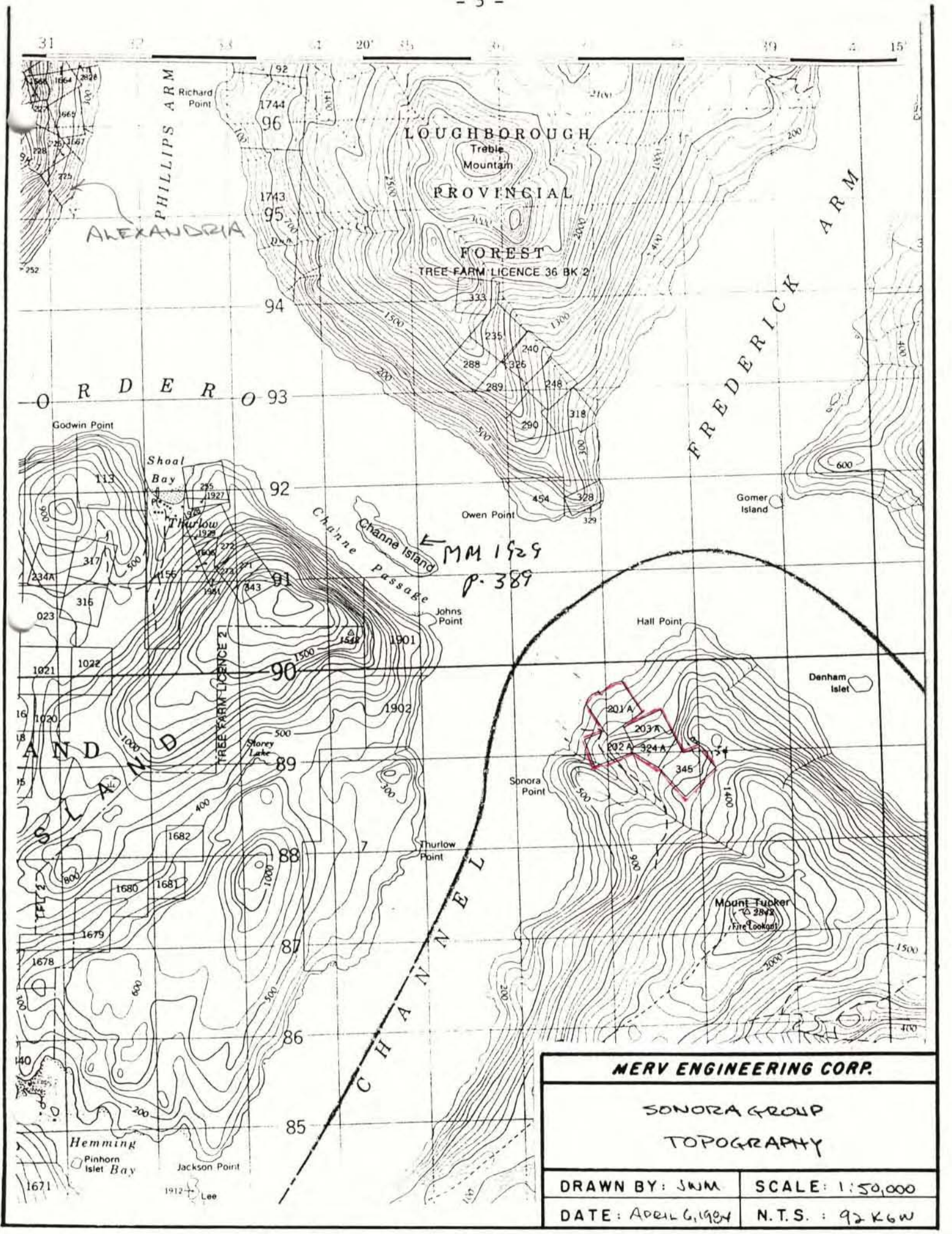
Rock exposure is 100% on the shoreline but above this only the logging roads reveal the nature of the geology.



**MERY ENGINEERING CORP.**

LOCATION OF  
SONORA GROUP

DRAWN BY: JWM	SCALE: 1:1250,000
DATE: APRIL 6, 1954	N.T.S. : 92 KG W



**MERV ENGINEERING CORP.**

**SONORA GROUP  
TOPOGRAPHY**

DRAWN BY: JWM	SCALE: 1:50,000
DATE: APRIL 6, 1984	N.T.S. : 92 K6W

GEOLOGY:

Available geology indicates the northwest end of Sonora Island to be underlain by a roof pendant of metamorphosed sediments. The sediment-diorite contact is shown along a well defined northwest trending linear occupied by a creek. Reconnaissance shows this contact to be farther northeast, trending through the central part of the group. This is established by the two adits on the shore, one is in sheared diorite and the other in quartzitic sediments.

The sediments trend northwest and dip 50-80° to the southeast on the property but to the northeast the dip is to the northeast suggesting an anticlinal structure. Between the diuergent dips are a number of small exposures of white weathering granite or pulaskite probably implaced along the anticlinal axis.

MINERAL OCCURRENCE:

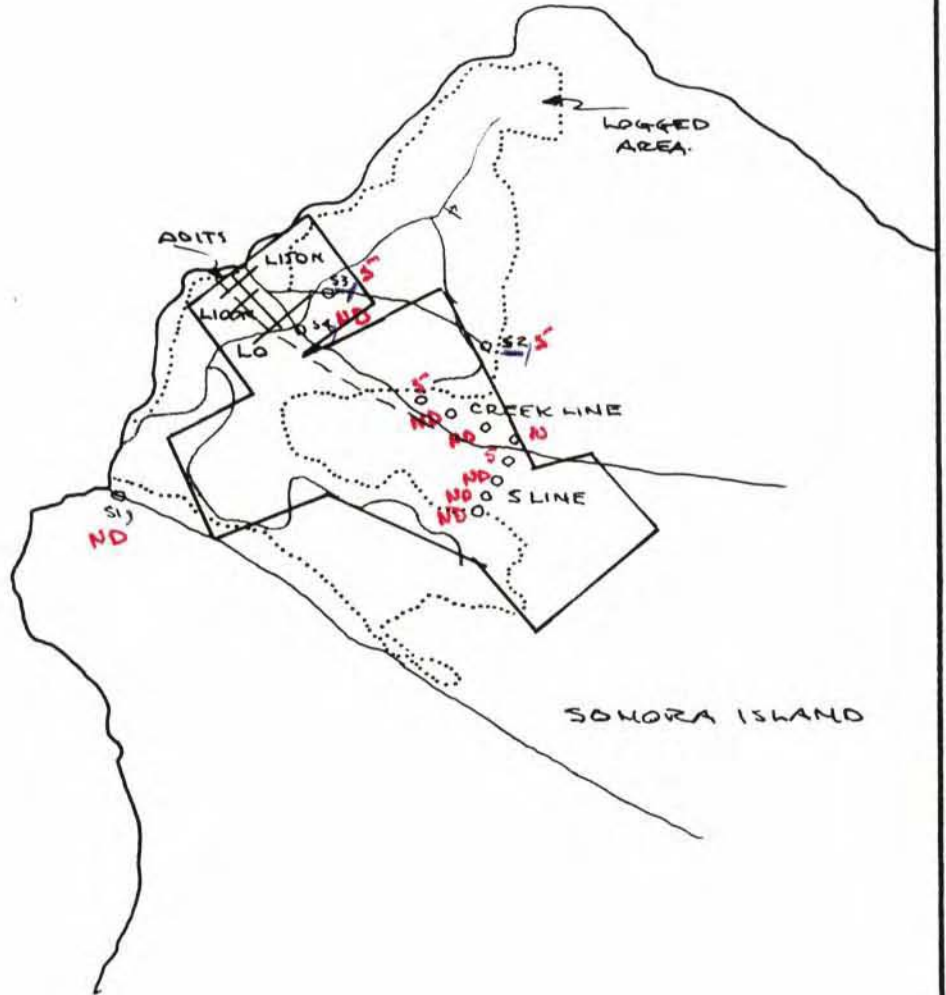
The 1929 report suggest the presence of gold values up to \$200 per ton but of 4 rock samples taken; one from each adit, one from a pit on a 1.0 meter vein close to the start of line S, and another of silicified material at 75 NE on line 0, none showed any value in gold or silver.

The Alexandria gold occurence, located 8 km northwest of the Sonora Group is the most promising prospect in this area. Here auriferous veins are found in the schistose sediments close to the diorite contact. This is the same contact and projects on strike with that on the Sonora Group.



CHANNE  
ISL

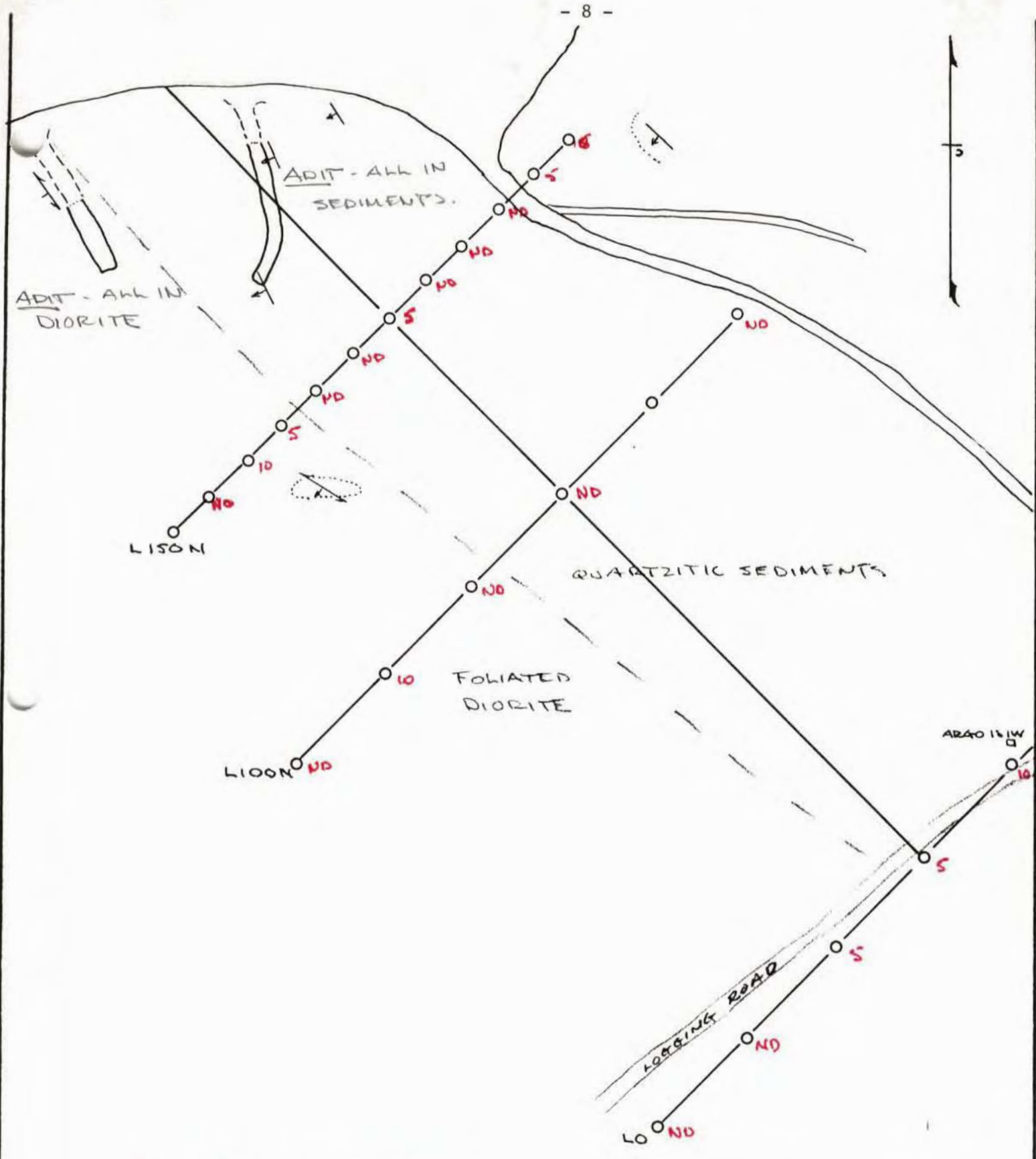
EAST  
THUSLOW  
13



AW IN P.P.M. (N.D. - NOT DETECTED)

from air photo.

<b>MERV ENGINEERING CORP.</b>	
SONORA GROUP LOCATION OF SOIL & SILT SAMPLES	
DRAWN BY: JWM	SCALE: 1:22000 AP
DATE: APRIL 6, 1964	N.T.S. : 92 KGW.



AN IN P.P.B. - ND - NOT DETECTED

<b>MERV ENGINEERING CORP.</b>	
SONORA GROUP	
SOIL SAMPLE GRID	
DRAWN BY: WM	SCALE: 1:1000
DATE: April 6, 1984	N.T.S.: 92 KGW

GEOCHEMISTRY:

Four lines were run which crossed the favourable contact area but no anomalous values in gold or silver were obtained from the 32 soils taken from the B horizon.

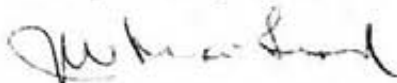
Four silt samples were also taken (see the air photo map) but none of these indicate the presence of precious metals.

One sample, 0 on line S assayed 67 p.p.m. Mo and 80 p.p.m. Co. This sample is at the SW end of Line S shown on the air photo base map.

CONCLUSIONS & RECOMMENDATIONS:

Geology similar to that hosting the Alexandria gold zone exists on the Sonora Group which should be examined by close spaced sampling along the diorite-sedimentary contact.

Respectfully Submitted



J.W. MacLeod, P.Eng.

Vancouver, B.C.  
April 11, 1984

APPENDIX I

ANALYTICAL PROCEDURES

VANGEOCHEM LAB LTD.  
1521 Pemberton Ave.  
North Vancouver, B.C.  
V7P 2S

TO: Tenajon Silver Mines  
#1450 - 625 Howe Street  
Vancouver, B.C. V6C 2T6

FROM: Vangeochem Lab Ltd.  
1521 Pemberton Ave.  
North Vancouver, B.C. V7P 2S3

SUBJECT: Analytical procedure used to determine elements in hot acid soluble by Induction Couple Plasma Spectrometer (ICP) analysis.

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received in the laboratory in wet-strength 4" x 6" Kraft paper bags or rock samples sometimes in 8" x 12" plastic bags.
- (b) The dried soil and silt samples were sifted by hand using a 8" diameter 80-mesh stainless steel sieve. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.
- (c) The dried rock samples were crushed by using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for later analysis.


2. Method of Digestion

- (a) 0.500 gram of -80 mesh sample was used.
- (b) Samples were digested in a hot water bath with conc. HNO<sub>3</sub> and conc. HCl acids.
- (c) The digested samples were diluted to a fixed volume and shaken well.

3. Method\_of\_Analysis

The ICP analyses elements were determined by using Jarrel Ash, model 885. Direct reading emission spectrograph of a inductive coupled plasma excitation source. All major matrix and trace elements are interelement corrected to trace elements. All data is entered into Apple II plus, stored on floppy disks, and printed by Epson 100.

4. The analyses were supervised by Mr. Dean Toye and Mr. Conway Chun of Vangeochem Lab Ltd. and their staff.



Conway Chun  
VANGEOCHEM LAB LTD.

VANGEOCHEM LAB LTD.  
1521 Pemberton Ave.  
North Vancouver, B.C.  
V7P 2S3

TO: Tenajon Silver Corp.  
1450 - 625 Howe Street  
Vancouver, B.C. V6C 2T

FROM: Vangoechem Lab Ltd.  
1521 Pemberton Ave.  
North Vancouver, B.C. V7P 2S3

SUBJECT: Analytical procedure used to determine Aqua Regia  
soluble gold in geochemical samples  
For 1983 Analytic Reports

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received in the laboratory in wet-strength 4" x 6" Kraft paper bags or rock samples sometimes in 8" x 12" plastic bags.
- (b) The dried soil and silt samples were sifted by hand using a 8" diameter 80-mesh stainless steel sieve. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.
- (c) The dried rock samples were crushed by using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for later analysis.

2. Method of Digestion

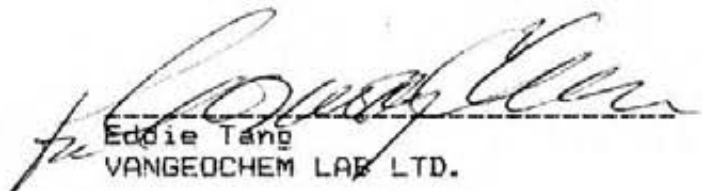
- (a) 5.00 - 10.00 grams of the minus 80-mesh samples were used. Samples were weighed out by using a top-loading balance into beakers.
- (b) 20 ml of Aqua Regia (3:1 HCl : HN03) were used to digest the samples over a hot plate vigorously.
- (c) The digested samples were filtered and the washed pulps were discarded and the filtrate was reduced to about 5 ml.

- (d) The Au complex ions were extracted into diisobutyl ketone and thiourea medium. (Anion exchange liquids "Aliquot 336").
- (e) Separate Funnels were used to separate the organic layer.

3. Method of Detection

The gold analyses were detected by using a Techtron model AA5 Atomic Absorption Spectrophotometer with a gold hollow cathode lamp. The results were read out on a strip chart recorder. A hydrogen lamp was used to correct any background interferences. The gold values in parts per billion were calculated by comparing them with a set of gold standards.

- 4. The analyses were supervised or determined by Mr. Conway Chun or Mr. Eddie Tang and his laboratory staff.



Eddie Tang  
VANGEOCHEM LAB LTD.



APPENDIX II

GEOCHEMICAL RESULTS

**VANGOCHEM LAB LIMITED**

1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-9211 Telex: 84-352578

PREPARED FOR: MR. JIM MACLEOD

NOTES: nd = none detected  
 : -- = not analysed  
 : is = insufficient sample

REPORT NUMBER: 84-69-292

JOB NUMBER: 84035

PAGE 1 OF 2

SAMPLE #	RE
	000
BL 100N	nd
BL 150N	5
RL0	5
RL0 50NE	10
RL0 75NE	5
RL0 100NE	nd
RL0 125NE	nd
RL0 150NE	10
LB 25NE	5
LB 25SW	nd
LB 50SW	nd
LB 75SW	nd
CREEK LINE #	10
CREEK LINE 100N	nd
CREEK LINE 200N	nd
CREEK LINE 275N	5
ARCO IV	nd - S1
S LINE 0	nd
S LINE 065	nd
S LINE 100	nd
S LINE 140N	5
LANDING CREEK	5 - S2
SHAW CREEK #1	5 - S3
SHAW CREEK #2	nd - S4
100N 25SW	nd
100N 50NE	nd
100N 50SW	10
100N 75NE	5
100N 75SW	nd
BL 150N 105W	nd
150N 10NE	nd
150N 20NE	nd
150N 20SW	nd
150N 30NE	nd
150N 30SW	5
150N 35NE	5
150N 40NE	5
150N 40SW	10
150N 50NE	10
DETECTORY LIMIT	5

**VANGOCHEM LAB LIMITED**

1521 Pemberton Avenue  
North Vancouver B.C. V7P 2S3  
(604) 985-5211 Telex: 24-352576

PREPARED FOR: MR. JIM MACLEOD

NOTES: nc = none detected  
: -- = not analysed  
: is = insufficient sample

REPORT NUMBER: 84-69-202 JOB NUMBER: 64035

PAGE 2 OF 2

SAMP. #	A <sub>1</sub>
	000
150N 30Sk	nc
DETECTION LIMIT	5

VANGEOCHEM LTD LIMITED  
 1521 PEMBERTON AVENUE  
 NORTH VANCOUVER, B.C. V7P 2S3

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.  
 THIS LEACH IS PARTIAL FOR: Ca, P, Mg, Al, Ti, La, Na, K, N, Ba, Si, Sr, Cr AND B. Au DETECTION 3 ppm.  
 SAMPLE TYPE - SOLUTION

DATE RECEIVED MAR 1984 DATE REPORTS MAILED \_\_\_\_\_ ASSAYER *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

JIM MACLEDD PROJECT # SOLUTION FROM VANGEOCHEM JOB # B4-035 FILE # B4-0340

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	M
	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
BL 100N	4	15	29	36	.3	14	6	360	3.80	13	2	ND	2	13	1	2	2	127	.17	.04	4	39	.28	31	.45	4	2.60	.01	.04	2
BL 150N	4	20	14	24	.2	16	7	196	3.83	12	2	ND	2	11	1	2	2	82	.17	.03	3	59	.17	19	.29	5	4.24	.01	.01	2
BLD	2	14	9	33	.3	9	3	152	3.18	12	2	ND	2	8	1	2	2	74	.12	.03	3	25	.29	37	.19	5	5.30	.01	.02	2
BLD 50NE	1	82	13	48	.6	20	10	343	4.03	12	2	ND	3	24	1	2	2	107	.29	.03	5	32	.77	176	.28	5	5.95	.03	.13	2
BLD 75NE	1	13	10	23	.4	7	4	205	2.71	7	2	ND	2	17	1	2	2	70	.16	.04	5	20	.17	47	.10	4	2.98	.01	.02	2
BLD 100NE	3	30	17	149	.4	39	16	588	4.57	14	2	ND	2	11	1	2	2	93	.22	.10	4	63	.47	52	.24	5	5.60	.01	.05	2
BLD 125NE	2	29	13	75	.3	27	9	385	3.91	6	2	ND	2	9	1	2	2	78	.15	.09	4	42	.48	46	.20	5	6.57	.02	.05	2
BLD 150NE	1	17	12	39	.2	11	6	282	3.59	9	2	ND	2	10	1	2	2	80	.13	.05	5	30	.37	33	.17	4	5.05	.02	.05	2
LD 25NE	3	19	11	25	.3	9	3	127	4.26	13	2	ND	2	10	1	2	2	112	.12	.03	4	27	.23	38	.25	2	4.14	.01	.02	2
LD 25SW	4	10	8	19	.3	7	2	131	2.28	6	2	ND	2	14	1	2	2	62	.21	.05	5	21	.24	25	.11	2	3.19	.01	.02	2
LD 50SW	9	19	9	18	.3	6	9	1512	2.26	2	2	ND	2	17	1	2	2	56	.24	.05	8	16	.16	46	.07	5	1.93	.01	.02	2
LD 75SW	9	29	12	39	.3	9	6	236	3.62	12	2	ND	2	9	1	2	2	89	.13	.03	5	25	.31	40	.24	3	4.20	.01	.04	2
CREEK LINE 0	1	7	12	23	.3	3	1	68	.16	4	2	ND	2	21	1	2	2	3	.61	.07	2	2	.05	32	.01	5	.26	.01	.04	2
CREEK LINE 100M	3	27	25	47	.3	17	8	416	3.04	8	2	ND	2	12	1	2	2	78	.20	.05	4	31	.55	33	.14	3	2.23	.02	.05	2
CREEK LINE 200M	1	21	7	22	.3	7	2	128	2.71	2	2	ND	2	10	1	2	2	69	.11	.05	3	24	.24	26	.15	2	4.25	.01	.02	2
CREEK LINE 275M	7	37	18	119	.3	33	15	1240	3.67	10	2	ND	2	27	1	2	2	77	.67	.05	5	39	.80	95	.16	3	3.54	.02	.09	2
ARGO IV	2	43	11	77	.3	26	11	671	3.75	16	2	ND	2	28	1	2	2	93	.56	.07	5	36	.84	88	.18	4	2.55	.05	.14	2
S LINE 0	67	15	24	122	.1	8	80	7608	8.48	10	2	ND	2	16	1	2	2	146	.27	.09	3	11	.14	85	.08	3	4.26	.01	.02	2
S LINE 065	2	5	14	14	.3	3	2	131	1.30	6	2	ND	2	16	1	2	2	39	.15	.02	3	6	.11	28	.07	2	.75	.01	.04	2
S LINE 100	2	5	9	13	.2	2	3	179	1.59	3	2	ND	2	10	1	2	2	56	.16	.02	2	6	.13	16	.11	2	.96	.02	.01	2
STD	25	170	48	95	12.0	712	14	622	3.74	14	2	ND	3	27	1	11	2	54	1.76	.09	6	107	.62	65	.06	30	1.08	.06	.24	2
S LINE 140M	8	36	20	100	.5	29	17	1769	3.70	10	2	ND	2	24	1	2	2	77	.82	.05	5	36	.53	62	.11	5	2.88	.01	.04	2
LANDING CREEK	1	49	10	90	.3	23	14	700	3.94	5	2	ND	2	45	1	2	2	87	.55	.05	4	41	1.36	98	.16	5	3.08	.05	.13	2
SHAW CREEK #1	1	32	11	106	.3	17	7	286	2.31	5	2	ND	2	24	1	2	2	57	.66	.06	6	22	.59	66	.16	5	2.27	.03	.09	2
SHAW CREEK #2	1	24	9	82	.3	24	9	657	2.68	4	2	ND	2	20	1	2	2	63	.63	.05	5	25	.65	84	.14	2	2.05	.03	.13	2
100M 25SW	4	25	15	41	.7	9	12	583	4.36	10	2	ND	2	9	1	2	2	108	.12	.05	6	28	.25	40	.24	3	4.22	.01	.04	2
100M 50NE	1	36	5	51	.4	16	9	326	3.32	9	2	ND	2	17	1	3	2	84	.27	.03	5	32	.72	182	.26	2	4.29	.03	.14	2
100M 50SW	3	16	4	42	.3	7	6	742	3.16	6	2	ND	2	7	1	2	2	75	.10	.05	4	20	.17	27	.16	3	3.44	.01	.02	2
100M 75NE	3	20	15	28	.1	8	5	460	3.19	12	2	ND	2	7	1	2	2	72	.10	.06	5	21	.21	26	.16	3	3.33	.01	.04	2
100M 75SW	2	9	9	34	.3	9	4	1028	5.19	4	2	ND	2	8	1	2	2	108	.12	.05	4	23	.14	27	.33	2	1.84	.01	.02	2
BL 150M 10SW	2	9	10	16	.3	6	1	112	3.98	4	2	ND	2	7	1	2	2	97	.09	.03	2	21	.11	19	.26	2	3.63	.01	.01	2
150M 10NE	11	19	13	41	.4	14	6	271	5.42	11	2	ND	2	10	1	2	2	173	.19	.04	5	37	.23	27	.34	2	2.88	.01	.04	2
150M 20NE	1	13	6	35	.3	11	5	175	3.16	11	2	ND	2	11	1	2	2	72	.17	.03	5	20	.33	30	.17	2	2.77	.02	.04	2
150M 20SW	2	12	12	20	.4	7	2	159	3.48	8	2	ND	2	11	1	2	2	96	.14	.03	3	20	.14	29	.24	2	3.22	.01	.01	2
150M 30NE	3	15	11	38	.3	11	7	385	4.04	7	2	ND	2	19	1	2	2	103	.29	.03	7	22	.39	63	.26	3	1.67	.02	.06	2
150M 30SW	2	10	9	11	.4	5	1	100	3.51	6	2	ND	2	10	1	2	2	133	.09	.02	3	18	.05	25	.33	2	.71	.01	.01	2
150M 35NE	2	37	15	96	.4	22	9	573	3.23	14	2	ND	2	26	1	4	2	78	.53	.05	5	30	.80	137	.19	3	2.85	.05	.18	2
150M 40NE	4	57	13	56	.3	21	71	817	3.63	9	2	ND	2	30	1	2	2	95	.38	.05	12	23	.45	33	.18	4	4.07	.05	.04	2
150M 40SW	3	21	8	37	.5	9	4	473	3.62	10	2	ND	2	10	1	2	2	109	.14	.03	5	23	.20	54	.25	2	2.76	.01	.04	2
150M 50NE	8	27	11	67	.4	21	4	119	4.01	9	2	ND	2	9	1	2	2	122	.14	.04	3	31	.21	15	.18	2	2.16	.01	.02	2
STD A-1	1	30	39	184	.3	36	11	999	2.77	11	2	ND	2	36	2	2	2	57	.60	.09	7	76	.70	284	.10	8	2.05	.02	.20	2

SAMPLE #	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	H ppm
150W 50SW	1	21	12	26	.2	6	4	380	3.38	13	2	ND	2	8	1	2	2	94	.10	.09	2	21	.17	49	.18	5	1.79	.01	.03	2
NO NUMBER ROCK	16	62	7	78	.4	49	7	230	2.24	12	2	ND	2	31	1	2	2	52	3.93	.05	3	195	.30	39	.12	3	.91	.08	.07	2
68248 ROCK	5	32	6	37	.1	24	3	91	1.09	8	2	ND	2	27	1	2	2	33	.82	.05	8	141	.13	206	.08	3	.61	.03	.03	2
68249 ROCK	3	5	6	2	.1	9	1	46	.93	3	2	ND	2	3	1	2	2	4	.04	.01	2	282	.02	188	.01	3	.20	.03	.11	2
68251 ROCK	10	36	9	51	.4	62	10	339	2.00	4	2	ND	2	14	1	5	2	.68	.33	.01	3	234	1.12	86	.11	3	1.39	.06	.29	2
68252 ROCK	4	9	13	16	.2	14	4	606	1.23	4	4	ND	2	86	1	2	2	10	3.35	.02	2	186	.45	160	.01	3	.63	.01	.14	2

VANGEOCHEM LAB LIMITED  
1521 Pemberton Avenue  
North Vancouver B.C. V7P 2S3  
(604) 986-5211 Telex: 04-352578

PREPARED FOR: MR. JIM MACLEOD  
NOTES: nd = none detected  
: -- = not analysed  
: is = insufficient sample

REPORT NUMBER: 84-69-002 (A) JOB NUMBER: 84035

PAGE 1 OF 1

SAMPLE #	Ag oz/st	Au oz/st
ND NUMBER (Rock)	(<.01	(<.005
68248 (Rock)	(<.01	(<.005
68249 (Rock)	(<.01	(<.005
68251 (Rock)	(<.01	(<.005
68252 (Rock)	(<.01	(<.005

COPY

DETECTION LIMIT  
1 Troy oz/short ton = 34.28 ppm

1 ppm =  $\frac{.01}{34.28} \times 10^6$  ppm = parts per million

signed: \_\_\_\_\_

*[Handwritten Signature]*

APPENDIX III

EXPENDITURE

TRIP BY MALLEDD + WARSHAWSKI  
 FEB 23-27 \* 1984

Gas.

11.00  
 7.10  
 14.75  
 17.00

49.85

Ferry

18.00  
 18.00

36.00

Airfare

75.33  
 74.00

149.33

Shoal Bay Lodge  
 Accomodation, meals  
 + boat rental

185.00

meals

10.10  
 10.50

20.60

austrian Motel

40.00

---

480.70



# ASSESSMENT REPORT

MILEAGE	354 KM @ 60 <sup>d</sup> PER KM =	\$ 212.40
FERRY		36.00
AIR FARE		149.33
ACCOMMODATION, MEALS + BOAT RENTAL SHOAL BAY		185.00
MEALS		40.60
MOTEL CAMPBELL RIVER		40.00

EXPENDITURE

SONORA GROUP

M. Warshawski - Feb.23-27	4 days @ 150.00	=	600.00
J. MacLeod - Feb.23-27	4 days @ 150.00	=	600.00
J. MacLeod - report	2 days @ 150.00	=	300.00
Accommodation & Travel Expense			480.70
Assaying			<u>585.00</u>
			<u>\$2,505.70</u>

APPENDIX IV

ENGINEERS CERTIFICATE

CERTIFICATE

I, James W. MacLeod, of 1220 Arbutus Street, in the city of Vancouver, in the Province of British Columbia.

DO HEREBY CERTIFY:

1. That I am a Consulting Engineer, with a business address at #1450-625 Howe St., in the City of Vancouver, in the Province of British Columbia.
2. That I am a graduate of the University of Alberta with a degree of B.Sc. in Mining Engineering.
3. That I have actively practiced my profession in mineral exploration since graduation in 1946.
4. That I am a registered Professional Engineer in the Province of British Columbia.
5. That I carried out the field work, assisted by M. Warshawski, covered by this report on the Sonora Group between February 23&27, 1984.



J. W. MacLeod, B.Sc., P.Eng.

Dated at the City of Vancouver,  
Province of British Columbia,  
this 11th day of April 1984.