ARIS SUMMARY SHEET

District Geologist, Victoria — Off Confidential: 92.03.01

ASSESSMENT REPORT 21370 — MINING DIVISION: Nanaimo

PROPERTY: Stran
LOCATION: LAT 50 43 00 LONG 128 04 00
UTM 09 5618514 565891
NTS 102I09E
CLAIM(S): Stran 3-4
OPERATOR(S): Cons. T.C. Res.
AUTHOR(S): Pawliuk, D.J.
REPORT YEAR: 1991, 21 Pages
KEYWORDS: Triassic-Jurassic,Vancouver Group,Andesites,Conglomerates
Sandstones
WORK
DONE: Geochemical,Physical
LINE 7.6 km
SOIL 113 sample(s) ;ME

Daiwan Engineering Ltd.
1030-609 Granville Street, Vancouver, B. C. Canada. V7Y 1G5
Phone: (604) 688-1508

GEOCHEMICAL ASSESSMENT REPORT

ON THE

STRAN 3 AND STRAN 4 MINERAL CLAIMS

NANAIMO MINING DIVISION

BRITISH COLUMBIA

NTS: 102I/9E

Latitude: 50° 43′ N
Longitude: 128° 04′ W

For

Consolidated T.C. Resources Ltd.
1030 - 609 Granville Street
Vancouver, B.C.
V7Y 1G5

By

David J. Pawliuk, B.Sc., P.Geol.

February 28, 1991

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SUMMARY

This assessment report details the results of geochemical soil sampling on the Stran 3 and Stran 4 mineral claims, Holberg Inlet.

The geology of Stran 3 and Stran 4 mineral claims is not well known. Eastern Stran 4 mineral claim is underlain by Bonanza Formation volcanic rocks which are unconformably overlain by Cretaceous sedimentary rocks.

The geochemical soil sampling was done to test for the presence of metal occurrences in an area of mainly thick overburden cover. Spotty high copper and gold concentrations exist on soils along all four sampled lines at southwestern Stran 3 mineral claim. The source of these geochemical anomalies is unknown.

A total of $9,647.36 was expended on the property between November 1990 and February 1991, and 113 soil samples were collected.

INTRODUCTION

At the request of Ruth Ditto, Director and Secretary of Consolidated T.C. Resources Ltd., Daiwan Engineering Ltd. conducted an exploration program on the Stran 3 and Stran 4 mineral claims near Holberg, British Columbia. This program consisted of geochemical soil sampling along hipchain-and-compass surveyed grid lines during December 1990.

One hundred thirteen soil samples were collected between November 1 and December 31, 1990. This assessment report is a description of work completed on the property during this period.

LOCATION AND ACCESS

The Stran 3 and 4 property of Consolidated T.C. Resources Ltd. is located approximately 360 km northwest of Vancouver, British Columbia (Figure 1). The property is 8 km northwest of Holberg, in N.T.S. map-sheet 102I/9E.

Good all-weather logging roads extend from Holberg to the southwestern corner of the property along the Stranby River valley.

The property is accessible by road year-round; however, heavy wet snow during mid-winter may cause difficult driving conditions. Port Hardy is the local commercial centre, but Holberg has motel accommodation and supports local forest industry activity.

Regular airline service to Port Hardy is provided by both Air Canada and Canadian Airlines International from Vancouver, each on a daily schedule. Alternately there is good highway access, with travel from Vancouver taking eight hours.

TOPOGRAPHY AND VEGETATION

The terrain on Stran 3 and 4 property is dominated by a westerly-trending hill with steep south- and west-facing slopes which are cut by narrow creek gullies. Elevations range from approximately 90 to 490 m (300 to 1,600 feet).

The mineral claims are located within a logging area. Forest cover ranges from dense second growth and thick underbrush to mature stands of spruce, hemlock, fir and cedar.

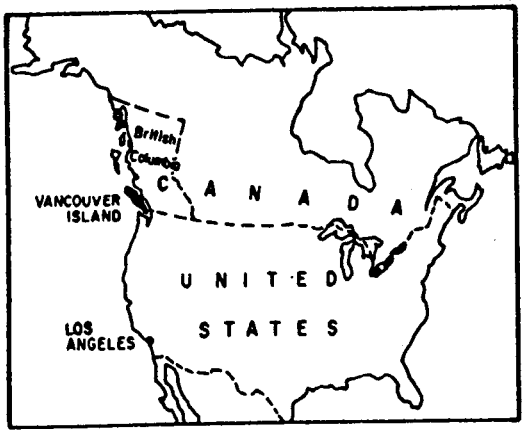
Rock outcrops are exposed along creek gullies.

The area is characterized by warm summers and mild winters. Winter snowfalls are usually significant only at higher elevations so exploration can normally continue year-round.

PROPERTY

The Stran 3 and 4 property of Consolidated T.C. Resources Ltd. consists of two contiguous mineral claims totalling 40 units (Figure 2). These claims are recorded in the Nanaimo Mining Division. Daiwan Engineering Ltd. holds the mineral claims in trust for Consolidated T. C. Resources Ltd. The particulars are as follows:

Claim	Record No.	Units	Current Expiry Date
STRAN 3	3748	20	March 11, 1992
STRAN 4	3749	20	March 14, 1992
	Total	40	



CONSOLIDATED T.C. RESOURCES LTD.

STRAN 3 & 4 CLAIMS

NANAIMO MINING DIVISION, B.C.

LOCATION MAP

DAIWAN ENGINEERING LTD.

SCALE	DATE	FIG.
1:8000000	Feb. '91	1

HISTORY

A large copper-molybdenum deposit discovered at the eastern end of Rupert Inlet during the 1960s was developed into Island Copper Mine. This discovery generated a great deal of interest in the area by individuals and companies searching for copper.

Many copper occurrences were located along Holberg Inlet during this exploration activity. One of these copper occurrences is the Hushamu copper-gold deposit, estimated to contain 107,000,000 mineable tons grading 0.29% copper, 0.010% molybdenum and 0.010 opt gold with a stripping ratio of 0.7:1[1]. The Hushamu deposit is 15 km southeast of the Stran 3 and 4 mineral claims.

The Red Dog copper-gold deposit is located 6 km east of the property. Reserves are reported to be in excess of 45,359,000 tonnes grading 0.32% copper and 0.41 grams/tonne (0.012 opt) gold[6].

During 1968 and 1969 Continental Cinch Mines Limited (NPL) conducted geological mapping and geochemical soil sampling on the BERG group of mineral claims[5]. This work covered the easternmost quarter of the present Stran 4 mineral claim.

A regional geochemical survey completed by the British Columbia government in 1988 covered the Stran 3 and 4 mineral claims area. Possibly significant zinc values were obtained from one sample collected at west-central Stran 3 mineral claim[2].

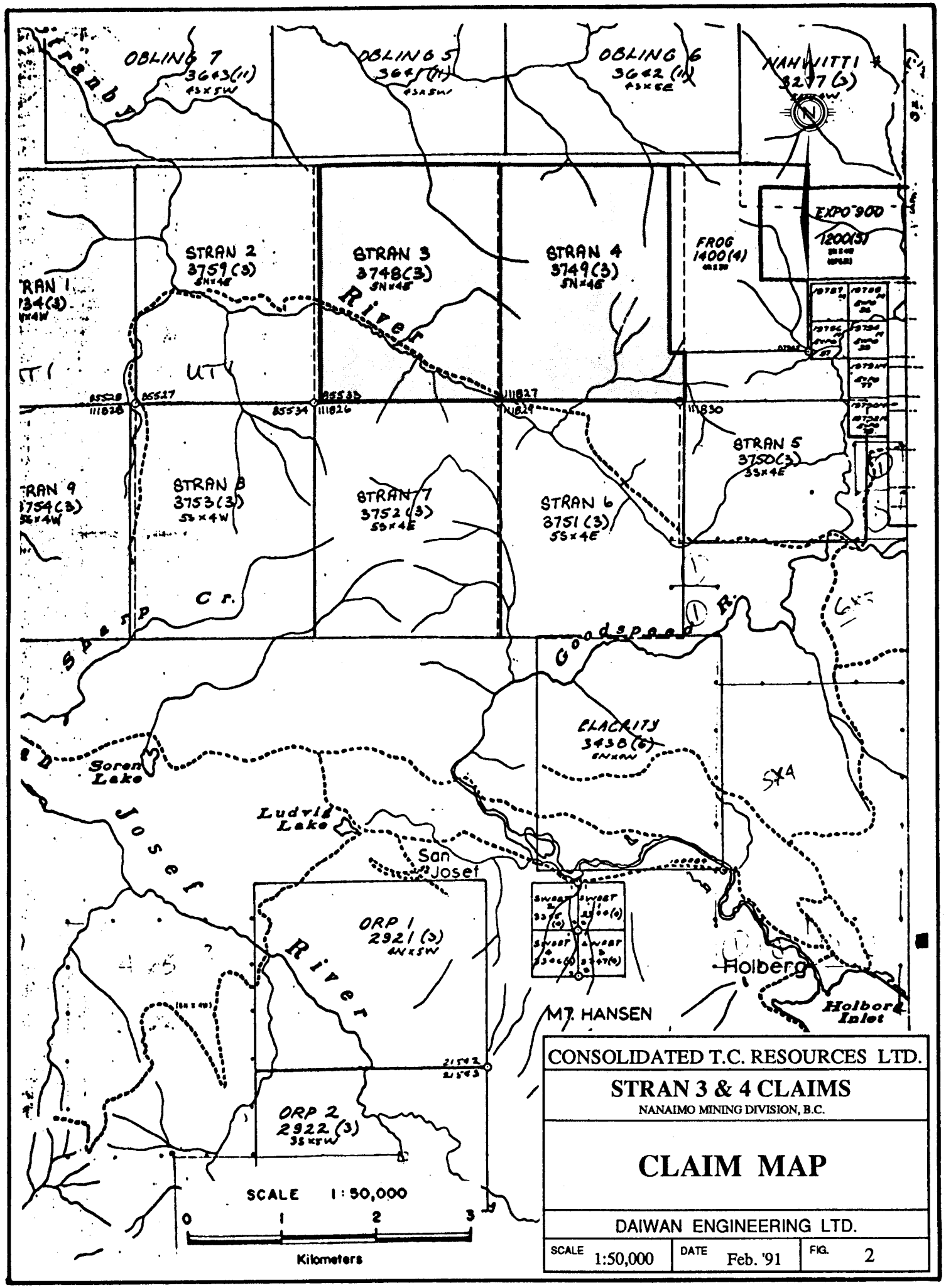
REGIONAL GEOLOGY

Vancouver Island north of Holberg and Rupert inlets is underlain by Upper Triassic to Lower Jurassic rocks of the Vancouver Group. The Vancouver Group rocks are intruded by rocks of Jurassic and Tertiary age, and disconformably overlain by Cretaceous sedimentary rocks. Figure 3 shows a 1:500,000 scale geological map of the northern part of the island.

Faulting is prevalent in the area. Large-scale block faults with hundreds to thousands of metres of displacement are offset by younger strike-slip faults with displacements of up to 750 metres (2,500 feet).

Sedimentary and Volcanic Rocks

The Vancouver Group includes a basal sediment-sill unit of shales and siltstones invaded by diabase sills, Karmutsen Formation volcanic flows and pyroclastics, Quatsino Formation limestone, Parson's Bay



CONSOLIDATED T.C. RESOURCES LTD.

STRAN 3 & 4 CLAIMS

NANAIMO MINING DIVISION, B.C.

CLAIM MAP

DAIWAN ENGINEERING LTD.

SCALE	DATE	FIG.
1:50,000	Feb. '91	2

Formation argillite, Harbledown Formation argillite-greywacke and Bonanza Formation tuffs and breccias.[3]

The Vancouver Group is unconformably overlain by the non-marine Cretaceous Longarm Formation sediments which occupy local basins. Early coal mining in the district was from several of these basins.

Intrusive Rocks

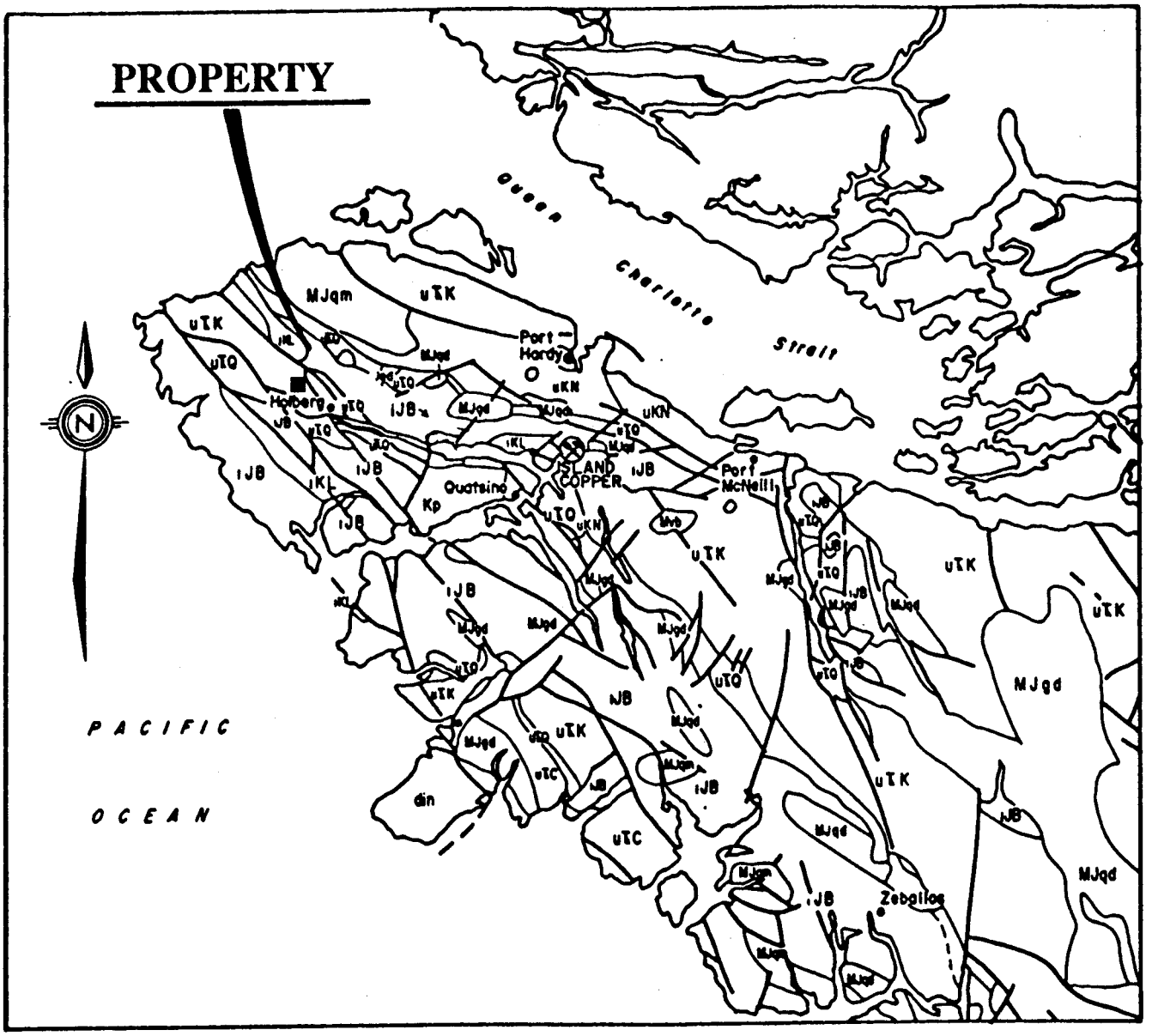
The Vancouver Group rocks are intruded by Jurassic stocks and batholiths. A northwest-trending belt of stocks extends from the east end of Rupert Inlet to the mouth of Stranby River on the north coast of Vancouver Island.[4] Dykes and irregular bodies of quartz-feldspar porphyry occur along the south edge of this belt of stocks. The porphyries are characterized by coarse, subhedral quartz and plagioclase phenocrysts set in a pink, very fine grained, quartz and feldspar matrix. They are commonly extensively altered and pyritized. At Island Copper Mine these porphyries are enveloped by altered, brecciated and mineralized Bonanza Formation wallrocks. The porphyries are also cut by siliceous veins, pyritized, extensively altered, and are mineralized where they have been brecciated. The quartz-feldspar porphyries are thought to be differentiates of middle Jurassic felsic intrusive rocks.

Other intrusive rocks of lesser significance include felsic dykes and sills around the margins of some intrusive stocks; andesitic dykes that cut the Karmutsen, Quatsino and Parson's Bay formations, and represent feeders for Bonanza volcanism; and Tertiary basalt-dacite dykes intruding Cretaceous sediments.

Structure

The rocks north of Holberg and Rupert inlets are folded into shallow synclines along northwesterly fold axes. The steeper southwesterly limbs of these folds have apparently been truncated by faults roughly parallel to the fold axes. Failure of limestone during folding may have influenced the location of some of the faults, as indicated by the proximity of the Dawson and Stranby River faults to Quatsino Formation limestone. Transverse faulting is pronounced and manifested by numerous north and northeasterly trending faults and topographic lineaments (Figure 3).

Northeasterly trending faults comprise a subordinate fault system. In some cases, apparent lateral displacement in the order of several hundred metres can be measured on certain horizons. Movement, however, could be entirely vertical with the apparent lateral offset resulting from the regional dip of the beds.



LEGEND

MIOCENE
- Mvb basalt flows,sills and dykes

UPPER CRETACEOUS, PALEOCENE,EOCENE
- Kp QUEEN CHARLOTTE GROUP: siltstone,shale,greywacke

UPPER CRETACEOUS
- uKN NANAIMO GROUP: sandstone,shale,conglomerate

LOWER CRETACEOUS
- iKL LONGARM;greywacke,conglomerate

JURASSIC
- Jgd granodiorite,quartz diorite

MIDDLE JURASSIC
- MJqm quartz monzonite,granite,monzonite
- MJgd granodiorite
- MJqd quartz diorite

LOWER JURASSIC
- lJB BONANZA;andesite,dacite,rhyolite

UPPER TRIASSIC
- uTQ QUATSINO and PARSON BAY: limestone,argillite
- uTK KARMUTSEN:basalt, pillow lava

SCALE

0 25 50

kilometers

After Muller et al (1974)

CONSOLIDATED T.C. RESOURCES LTD.

STRAN 3 & 4 CLAIMS

NANAIMO MINING DIVISION, B.C.

REGIONAL GEOLOGY MAP

DAIWAN ENGINEERING LTD.

SCALE	DATE	FIG.
As shown	Feb. '91	3

The beds generally dip gently to moderately to the southwest. West of Holberg dips are locally much steeper where measured in close proximity to major faults. There is little folding or flexuring of bedding visible, except along loci of major faults where it is particularly conspicuous in thinly bedded sediments of lower Bonanza Formation. Bedding is generally inconspicuous in massive beds of Karmutsen, Quatsino and Bonanza Formation rocks, particularly inland where outcrops are widely scattered.

REGIONAL MINERALIZATION

A number of types of mineral occurrences are known on northern Vancouver Island. These include:

1. Skarn deposits: copper-iron and lead-zinc skarns.

2. Copper in mafic volcanic rocks (Karmutsen Formation): in amygdules, fractures, small shears and quartz-carbonate veins, with no apparent relationship to intrusive activity.

3. Veins: with gold and/or base metal sulphides, related to intrusive rocks.

4. Porphyry copper deposits: largely in the country rock surrounding or enveloping granitic rocks and their porphyritic phases.

PROPERTY GEOLOGY

There has been little geological information recorded for the Stran 3 and 4 mineral claims area.

Continental Cinch Mines Limited (NPL) mapped a small area of intensely altered and silicified Bonanza Formation volcanic rock containing abundant pyrite in the southeastern corner of Stran 4 mineral claim[5]. Less altered Bonanza Formation andesite is also exposed in this area (Figure 4). Most of eastern Stran 4 mineral claim is underlain by Cretaceous conglomerate with minor sandstone interbeds; these rocks unconformably overlie the Bonanza Formation volcanic rocks (Figure 4).

The claim is within a zone of high, irregular magnetic response as shown on the 1960 regional aeromagnetic survey map of northern Vancouver Island.[7] Similar responses elsewhere in the area north of Holberg Inlet indicate the presence of intrusive rocks in sequence.

1990 SOIL GEOCHEMICAL SURVEY

A total of 113 geochemical soil samples was collected along hipchain-and-compass surveyed grid lines at Stran 3 mineral claim during December 1990. These soils were taken at 50 intervals along grid lines 200 m apart. The soils samples were collected at an average depth of about 25 cm from the B soil horizon, where possible, using a soil auger. The soils were shipped to Acme Analytical Laboratories Ltd. at Vancouver, then dried and screened to -80 mesh size. The soils were then analyzed for 30 elements by I.C.P. technique which involves the digestion of 0.5 g of the sample with 3-2-1 HCl-HNO_3-H_2O acid at 95° C for one hour. This solution is then diluted to 10 ml with water and analyzed. The samples were also analyzed for gold by acid leach and atomic absorption by Acme Analytical Laboratories Ltd.

The 113 soils contain up to 196 parts per million (ppm) copper, 111 ppm zinc, 4 ppm molybdenum and up to 25 parts per billion (ppb) gold (Appendix 1).

Soils containing greater than 100 ppm copper concentrations are plotted on Figure 5; these soils occur along sample lines within the western part of Stran 3 mineral claim.

Soils containing 10 ppb or greater gold concentrations are also plotted on Figure 5. These anomalies are mainly single sample points. The gold in soil anomalies appear to be concentrated within southwestern Stran 3 mineral claim area. Soils with high gold concentrations do not have high copper concentrations (Figure 5; Appendix 1).

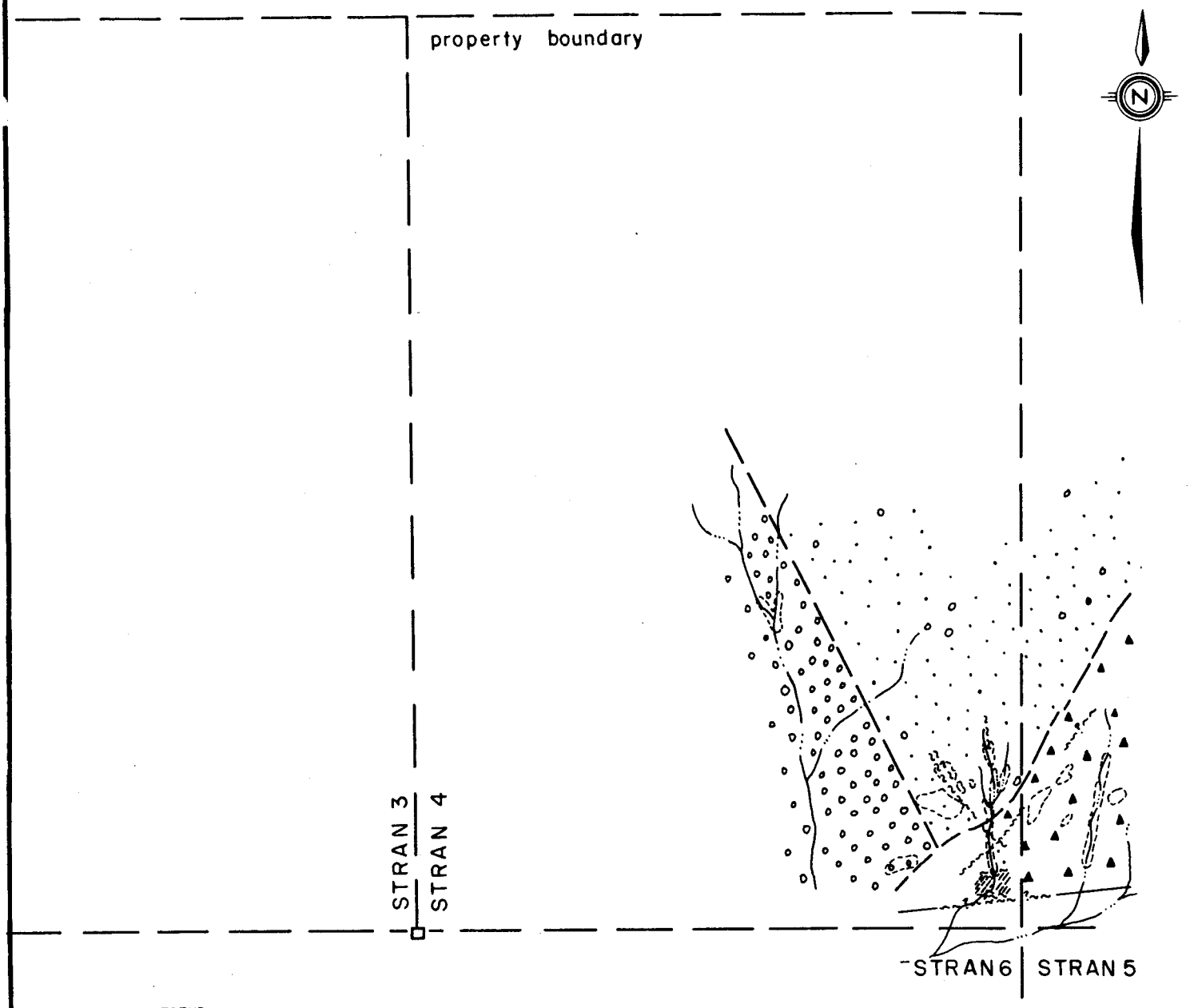
CONCLUSIONS

The geology of Stran 3 and Stran 4 mineral claims is not well known. Locally intensely altered and silicified Bonanza Formation volcanic rocks underlie southeastern Stran 4 mineral claim. Bonanza Formation rocks host the porphyry copper-gold deposits with the region.

Spotty high copper and gold concentrations exist in soils along all four of the sampled grid lines at southwestern Stran 3 mineral claim. The source of these geochemical soil anomalies is unknown.

RECOMMENDATIONS

Further geochemical soil sampling should be done within south-central Stran 3 mineral claim to better define areas for follow-up prospecting and geological mapping.



LEGEND

LOWER CRETACEOUS

- SANDSTONE - CONGLOMERATE INTERBEDDED, MAINLY VOLCANIC ORIGIN.
- CONGLOMERATES INTERBEDDED WITH MINOR SANDSTONE

UPPER TRIASSIC & JURASSIC

BONANZA GROUP

- STRONGLY ALTERED & SILICIFIED ROCK; PYRITE ABUNDANT. WHITE TO GREY IN COLOUR, IN PART BRECCIATED (TUFF, ANDESITE OR RHYOLITE ?)
- ANDESITE, FINE TO MEDIUM CRYSTALLINE IN PART PORPHYRITIC & FRAGMENTAL.

SYMBOLS

- GEOLOGICAL CONTACT
- OUTCROP LIMIT
- BEDDING
- JOINTING
- DRAGFOLDS (observed)
- MOVEMENT - APPARENT
- FAULT
- INFERRED FAULT

m.0 400 800 m.

SCALE

1:20,000

Geology from Holcapek and Philp (1970)

CONSOLIDATED T.C. RESOURCES LTD.

STRAN 3 & 4 CLAIMS

NANAIMO MINING DIVISION, B.C.

PROPERTY GEOLOGY MAP

DAIWAN ENGINEERING LTD.

SCALE	DATE	FIG.
As shown	Feb. '91	4

CERTIFICATE OF EXPENDITURES

Personnel

1 Project Manager - P. Dasler - 1.1 days @ $380/day	418.00	
1 Project Geologist - D. Pawliuk - .65 days @ $340/day	221.00	
1 Geologist - S. Robertson - 6.0 days @ $250/day	1,500.00	
1 Field Technician - S. Oakley - 5.0 days @ $250/day	1,250.00	
1 Field Technician - R. Bilquist - 3.0 days @ $260/day	780.00	
1 Office Assistant - T. Sheridan - .5 days @ $220/day	110.00	
1 Field Technician - L. Allen - 3.0 days @ $260/day	780.00	5,059.00

Disbursements

Food and Accommodation 17 man days @ $49.85	847.38	
Field Supplies	214.69	
Vehicle/Supplies (4x4 truck) 9 days @ $137.50	1,237.52	
Airfare	96.30	
Office/Secretary	181.76	
Assays - 113 soils, 30 element ICP + Au	989.10	
Disbursement Fee	726.65	
Equipment Rental	216.39	
GST	78.49	4,588.36
Total		**$ 9,647.36**

Daiwan Engineering Ltd.
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Phone: (604) 688-1508

CERTIFICATE OF QUALIFICATIONS

I, David J. Pawliuk, do hereby certify that:

1. I am a geologist for Daiwan Engineering Ltd. with offices at 1030 - 609 Granville Street, Vancouver, British Columbia.

2. I am a graduate of the University of Alberta, Edmonton, Alberta with a degree of B.Sc., Geology.

3. I am a member, in good standing, of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.

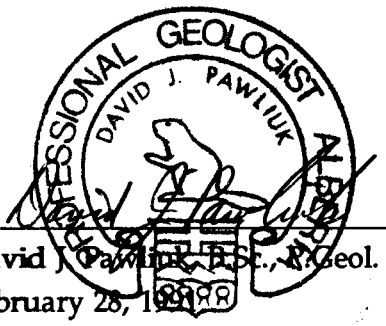
4. I have practised my profession continuously since 1975.

5. This report is based on fieldwork carried out by S. Robertson, R. Bilquist, L. Allen and S. Oakley, on my personal fieldwork in the region since April 1990, and on reports of others working in the area.

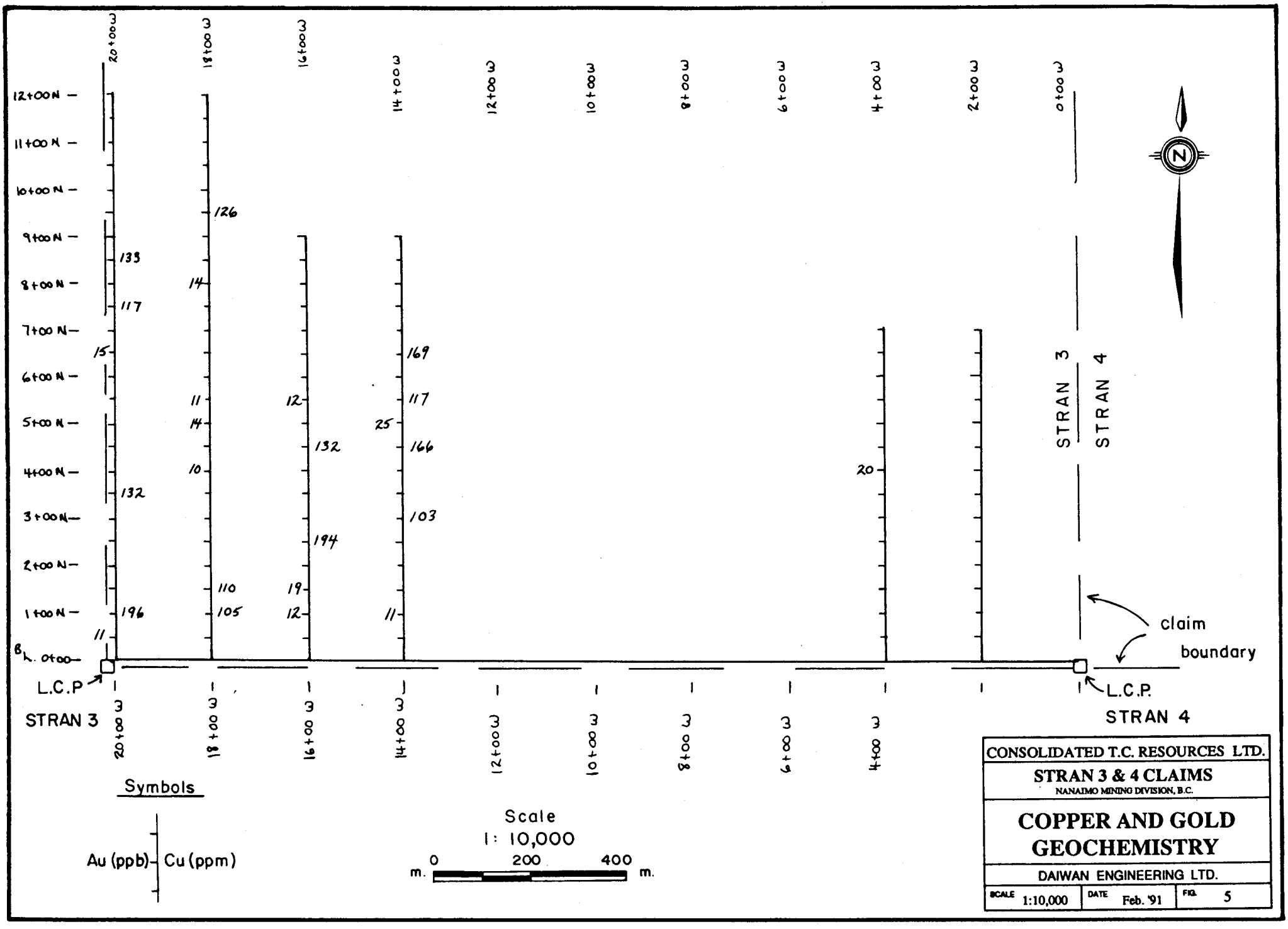
6. I have not visited STRAN 3 and STRAN 4 mineral claims.

7. I have no interest, either direct or indirect, nor do I expect to receive any such interest, in the properties or securities of Consolidated T.C. Resources Ltd.

8. This report has been prepared for British Columbia Ministry of Energy, Mines and Petroleum Resources assessment purposes only.



David J. Pawliuk, B.Sc., P.Geol.
February 28, 1991



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STRAN 3 & 4 CLAIMS

NANAIMO MINING DIVISION, B.C.

COPPER AND GOLD GEOCHEMISTRY

DAIWAN ENGINEERING LTD.

SCALE	DATE	FIG.
1:10,000	Feb. '91	5

REFERENCES

1.	Young, M. (1991)	Hushamu Zone Copper Reserves of 107,000,000 tons now classified as Possible/Probable; News Release of Moraga Resources Ltd., January 9, 1991.
2.	Matysek, P. et al (1989)	B.C.G.S. Open File 2040 1988 B.C. Regional Geochemical Survey N.T.S. 92L/102I Alert Bay - Cape Scott.
3.	Muller, J.E., Northcote, K.E. and Carlisle, D. (1974)	Geology and Mineral Deposits of Alert Bay - Cape Scott Map - Area (92L/102I) Vancouver Island, British Columbia; Geol. Surv. Canada Paper 74-8.
4.	Carson, D.J.T. (1972)	The plutonic rocks of Vancouver Island, British Columbia; Geol. Surv. Canada paper 72-44.
5.	Holcapek, F. and Philp, R.H.D. (1970)	Summary report on exploration during 1968 and 1969 on the BERG group, northern Vancouver Island, B.C.; private report for Continental Cinch Mines Limited (NPL).
6.	_____ (1988)	V.S.E. News Release 04 Jan. 1989 - Crew Natural Resources Ltd. George Cross News Letter - November 23, 1988.
7.	_____ (1963)	G.S.C. Geophysics Paper 1734 incl. maps 1734G, 1738G.

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APPENDIX 1

GEOCHEMICAL ANALYSIS CERTIFICATES

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Phone: (604) 688-1508

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Daiwan Engineering Ltd. PROJECT STRAN File # 90-6286 Page 1

1030 - 609 Granville St., Vancouver BC V7Y 1G5

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 %	W ppm	Au* ppb
14+00W 9+00N	1	10	14	64	.1	4	5	196	6.61	2	5	ND	1	13	.2	2	2	162	.08	.020	4	20	.48	26	.37	2	2.55	.02	.03	4	2
14+00W 8+50N	1	15	2	46	.2	9	4	176	6.42	8	5	ND	1	51	.2	2	2	136	.10	.028	4	23	.23	132	.26	4	4.22	.01	.02	1	4
14+00W 8+00N	1	32	4	98	.3	15	12	598	4.72	4	5	ND	1	29	.2	2	2	103	.32	.053	11	31	.71	89	.07	5	4.74	.02	.04	1	1
14+00W 7+50N	1	88	14	108	.3	31	17	972	4.75	2	5	ND	1	60	.3	4	2	116	.85	.071	10	35	.93	150	.12	7	3.15	.02	.05	1	1
14+00W 7+00N	1	72	8	72	.2	11	12	640	8.35	3	5	ND	1	15	.2	3	2	236	.31	.031	5	41	.49	26	.55	4	2.99	.02	.03	1	5
14+00W 6+50N	1	169	9	61	.1	9	18	869	12.48	4	5	ND	1	14	.2	3	2	330	.31	.034	3	46	.38	12	.89	3	2.40	.02	.02	1	4
14+00W 6+00N	1	79	2	52	.3	15	9	361	16.11	6	5	ND	1	9	.2	3	2	399	.43	.021	2	100	.35	10	1.11	2	3.44	.01	.02	1	5
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14+00W 5+00N	1	14	8	37	.1	7	6	164	5.39	2	5	ND	1	11	.2	2	2	479	.74	.012	3	28	.36	11	1.28	7	1.08	.02	.03	1	25
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14+00W 4+00N	1	60	15	43	.1	11	6	260	13.93	2	5	ND	1	6	.2	2	2	376	.26	.014	2	91	.35	10	.87	2	2.71	.01	.02	2	4
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14+00W 3+00N	1	103	10	91	.1	43	34	998	6.00	3	5	ND	1	14	.2	5	2	196	.59	.023	4	81	.82	18	.48	6	4.15	.01	.03	1	2
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14+00W 1+50N	1	61	8	54	.1	13	12	425	14.73	2	5	ND	1	9	.7	2	2	400	.36	.016	3	115	.19	10	1.10	2	3.08	.01	.02	1	4
14+00W 1+00N	1	22	5	84	.1	21	12	397	10.55	3	5	ND	1	11	.5	2	2	363	1.12	.037	2	99	.51	6	1.24	8	1.24	.03	.04	1	11
14+00W 0+50N	1	81	22	71	.1	17	62	955	12.42	3	5	ND	1	12	.5	3	2	435	.68	.027	5	101	.36	17	.64	4	4.17	.02	.03	1	6
12+00N 20+00W	2	37	2	60	.1	10	8	223	7.57	8	5	ND	1	9	.2	5	2	255	.23	.017	3	39	.36	27	.24	3	2.65	.01	.03	1	1
12+00N 18+00W	1	14	17	68	.2	13	8	340	5.53	8	5	ND	1	32	.2	2	2	117	.10	.033	4	33	.70	38	.10	4	5.01	.02	.03	3	3
11+50N 20+00W	1	35	3	97	.1	15	53	1495	7.59	10	5	ND	1	24	.2	2	2	197	.39	.028	4	51	.53	55	.28	2	3.38	.01	.04	1	3
11+50N 18+00W	1	37	17	72	.1	18	11	387	8.43	11	5	ND	1	9	.2	4	2	172	.14	.019	4	61	.68	32	.18	3	4.93	.01	.02	2	6
11+00N 20+00W	1	67	7	111	.2	27	18	1374	5.32	16	5	ND	1	59	.6	3	2	126	.95	.052	8	39	.89	151	.17	5	3.08	.02	.04	1	4
11+00N 18+00W	2	21	7	47	.1	8	7	333	7.31	4	5	ND	1	14	.7	2	2	156	.19	.021	3	36	.39	37	.24	2	2.98	.01	.03	5	1
10+50N 20+00W	1	35	8	42	.1	8	20	794	6.68	2	5	ND	1	14	.3	2	2	313	.66	.020	3	35	.33	37	.65	2	1.67	.01	.06	6	7
10+50N 18+00W	3	37	22	52	.1	10	8	266	10.58	2	5	ND	1	6	.3	2	2	215	.14	.026	5	48	.27	46	.43	2	6.24	.01	.02	11	1
10+00N 20+00W	4	55	16	62	.8	15	8	340	6.75	2	5	ND	2	16	1.6	2	2	143	.20	.037	9	55	.50	41	.32	6	4.59	.01	.03	7	3
10+00N 18+00W	1	87	2	73	.3	22	13	967	3.93	8	5	ND	1	28	.4	2	2	101	.66	.040	6	30	.62	103	.15	4	2.22	.01	.02	1	5
9+50N 20+00W	1	51	7	64	.1	17	9	566	2.38	2	5	ND	1	18	.2	2	3	107	.58	.030	3	27	.59	44	.28	3	2.02	.02	.02	3	3
9+50N 18+00W	1	126	9	80	.1	31	14	595	6.35	2	5	ND	1	16	.8	2	3	166	.46	.029	4	41	.86	44	.34	2	3.06	.01	.02	5	5
9+00N 20+00W	1	59	3	60	.2	10	9	1277	1.65	3	5	ND	1	14	.3	2	2	53	.31	.035	3	22	.21	30	.10	4	1.22	.01	.02	2	3
9+00N 18+00W	2	21	7	43	.1	4	4	374	5.28	2	5	ND	1	8	.3	2	3	218	.11	.020	3	19	.13	13	.30	3	.93	.01	.04	4	6
9+00N 16+00W	1	17	17	73	.1	6	14	427	9.83	21	5	ND	1	5	1.0	5	2	269	.02	.030	8	34	.10	14	.11	5	1.10	.01	.02	2	1
8+50N 20+00W	2	133	5	79	.1	19	9	330	9.03	14	5	ND	1	8	.3	3	2	210	.24	.031	3	90	.36	25	.30	4	5.31	.01	.02	3	8
8+50N 18+00W	2	67	11	59	.2	12	8	298	6.80	7	5	ND	1	12	.2	2	2	185	.19	.016	12	49	.47	23	.22	4	4.42	.01	.02	3	6
8+50N 16+00W	1	21	2	108	.1	7	7	1916	1.55	4	5	ND	1	64	.6	3	2	41	.59	.060	5	17	.28	203	.04	3	1.33	.01	.02	1	1
STANDARD C/AU-S	19	59	44	130	7.0	70	31	1064	3.95	42	16	7	37	52	18.7	14	18	57	.48	.093	39	59	.88	181	.07	34	1.88	.06	.13	12	45

ICP - .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 SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: DEC 10 1990 **DATE REPORT MAILED:** Dec 14/90. **SIGNED BY** ..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

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 %	W ppm	Au* ppb
8+00N 18+00W	3	48	11	48	.1	10	6	179	1.74	2	5	ND	1	7	.2	2	2	138	.14	.018	2	41	.37	17	.24	2	2.86	.01	.01	4	14
8+00N 16+00W	1	46	13	70	.2	15	12	521	4.58	2	5	ND	1	17	.2	2	2	109	.16	.024	7	32	.61	46	.10	4	4.01	.01	.02	1	9
7+50N 20+00W	1	117	4	46	.1	18	10	257	7.84	2	5	ND	1	8	.2	2	2	209	.41	.014	2	96	.46	11	.67	2	5.03	.01	.01	1	4
7+50N 18+00W	1	39	9	44	.2	5	4	151	.35	2	5	ND	1	8	.2	2	2	41	.14	.028	3	18	.05	10	.11	2	.92	.01	.01	3	5
7+50N 16+00W	1	98	8	53	.1	18	18	640	14.16	8	5	ND	1	13	.2	2	2	349	.51	.030	3	118	.31	10	.95	6	3.22	.01	.01	1	7
7+00N 20+00W	1	18	7	44	.1	8	6	167	5.31	3	5	ND	1	5	.2	2	2	312	.32	.014	2	33	.20	9	.99	3	1.03	.02	.02	1	7
7+00N 18+00W	1	41	9	59	.1	19	37	2838	9.55	2	5	ND	1	9	.2	2	2	283	.64	.013	2	62	.71	10	.77	4	2.57	.01	.01	2	4
7+00N 16+00W	1	78	5	41	.1	9	7	344	13.34	4	5	ND	1	5	.2	2	2	380	.17	.020	2	61	.21	4	.81	3	2.30	.01	.01	1	5
7+00N 4+00W	1	10	6	69	.1	7	12	828	5.47	5	5	ND	1	38	.2	2	2	140	.28	.021	5	28	.27	39	.36	3	3.34	.02	.02	1	3
7+00N 2+00W	1	8	13	33	.1	5	5	161	4.55	9	5	ND	1	6	.2	2	2	158	.04	.015	2	17	.29	16	.06	3	2.00	.01	.02	1	1
6+50N 20+00W	1	39	2	46	.1	7	8	249	11.69	2	5	ND	1	9	.2	2	2	629	1.35	.016	2	43	.18	4	1.52	6	1.53	.02	.02	1	15
6+50N 18+00W	1	20	8	65	.1	9	6	307	5.53	3	5	ND	1	13	.2	2	2	355	.70	.027	2	24	.24	9	.88	7	1.15	.03	.05	1	6
6+50N 16+00W	1	86	2	60	.1	19	13	348	7.59	2	5	ND	1	10	.2	2	2	322	.36	.017	2	73	.75	10	.99	2	2.04	.02	.02	1	7
6+50N 4+00W	1	16	7	51	.1	10	7	210	5.73	7	5	ND	1	31	.2	2	2	154	.11	.018	4	33	.52	34	.36	2	2.89	.02	.02	1	1
6+50N 2+00W	1	9	14	88	.1	6	38	889	5.99	7	5	ND	1	8	.2	2	2	153	.08	.031	6	18	.21	40	.03	2	3.10	.01	.02	2	2
6+00N 20+00W	2	16	7	36	.3	8	4	191	2.62	4	5	ND	2	8	1.6	2	2	196	.14	.013	4	27	.14	21	.57	2	1.09	.01	.02	3	6
6+00N 18+00W	1	29	9	44	.1	13	11	342	5.97	2	5	ND	1	11	.5	2	2	232	.37	.011	2	52	.55	14	.65	2	2.11	.02	.02	3	6
6+00N 16+00W	1	35	5	50	.1	17	7	359	11.29	2	5	ND	1	7	.5	2	2	511	.27	.018	2	79	.39	4	1.27	2	.97	.02	.01	6	6
6+00N 4+00W	1	46	14	94	.1	33	17	538	4.67	5	5	ND	1	52	.4	2	2	104	.62	.045	9	49	1.39	107	.13	2	2.87	.03	.04	4	4
6+00N 2+00W	1	14	9	51	.1	7	7	221	6.54	2	5	ND	1	12	.2	2	2	159	.13	.023	3	24	.35	28	.14	2	2.39	.02	.04	3	2
5+50N 20+00W	2	66	6	53	.1	18	14	367	5.65	3	5	ND	1	11	.2	2	2	222	.45	.016	2	60	.53	17	.66	6	3.15	.01	.02	3	3
5+50N 18+00W	1	34	2	49	.1	12	65	5407	11.37	2	5	ND	1	9	.2	2	2	387	.52	.011	4	76	.24	17	.77	2	1.47	.02	.02	3	11
5+50N 16+00W	1	55	5	42	.1	10	8	267	11.66	2	5	ND	1	9	.2	2	2	334	.44	.014	2	64	.42	10	.97	2	2.34	.01	.03	1	12
5+50N 4+00W	1	34	10	80	.1	22	21	824	6.77	2	5	ND	1	38	.2	2	2	138	.31	.038	7	48	1.63	38	.28	5	4.04	.03	.04	3	2
5+50N 2+00W	1	25	9	72	.1	13	14	506	6.21	10	5	ND	1	27	.2	2	2	113	.47	.033	6	30	.70	69	.07	2	5.18	.02	.03	1	4
5+00N 20+00W	1	43	8	42	.1	11	5	212	9.55	7	5	ND	1	6	.2	2	2	286	.21	.011	2	61	.35	14	.68	2	1.94	.01	.02	1	3
5+00N 18+00W	1	20	12	53	.1	8	5	208	4.05	2	5	ND	1	8	.2	2	2	405	.58	.012	2	27	.21	6	1.25	4	.77	.03	.02	2	14
5+00N 16+00W	1	40	2	57	.1	8	5	294	6.99	3	5	ND	1	8	.2	2	2	419	.29	.020	2	27	.19	5	1.11	3	.60	.02	.02	1	4
5+00N 4+00W	1	22	17	57	.2	10	14	558	4.62	2	5	ND	1	67	.2	2	2	115	.32	.044	13	29	.53	56	.28	4	5.65	.02	.03	1	2
5+00N 2+00W	1	30	11	67	.1	12	10	453	6.76	2	5	ND	1	19	.2	2	2	152	.15	.026	5	38	1.18	19	.37	2	4.67	.02	.02	1	2
4+50N 20+00W	1	82	2	79	.1	66	71	2049	11.78	4	5	ND	1	8	.2	2	2	286	.36	.022	2	92	1.45	13	.75	8	3.08	.02	.02	1	7
4+50N 18+00W	1	26	7	40	.1	10	9	271	2.48	2	5	ND	1	10	.2	2	2	160	.40	.014	2	37	.30	12	.77	8	.89	.02	.03	1	4
4+50N 16+00W	1	132	6	49	.1	13	9	271	7.46	2	5	ND	1	8	.3	2	2	234	.41	.011	2	65	.41	9	.70	2	3.24	.01	.02	3	6
4+50N 4+00W	1	37	9	73	.1	17	19	587	5.41	2	5	ND	1	94	.2	2	2	150	.32	.036	5	38	1.07	76	.36	2	5.06	.03	.03	2	2
4+50N 2+00W	1	27	15	61	.2	11	15	512	5.23	2	5	ND	1	35	.2	2	2	130	.29	.029	5	27	.96	33	.22	3	4.01	.02	.03	5	2
4+00N 20+00W	1	50	7	45	.1	20	9	255	6.64	2	5	ND	1	8	.4	2	2	184	.53	.008	2	79	.67	11	.57	2	2.65	.01	.01	6	4
STANDARD C/AU-S	19	61	42	134	7.2	72	32	1083	3.96	42	20	8	39	51	18.4	14	22	58	.48	.093	41	59	.88	183	.08	35	1.88	.07	.14	11	45

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 %	W ppm	Au* ppb
4+00N 18+00W	1	3	8	13	.1	2	1	177	.53	2	5	ND	1	4	.2	2	2	179	.07	.003	2	16	.04	9	.67	2	.54	.01	.02	1	10
4+00N 16+00W	1	37	16	46	.1	20	7	281	6.77	2	5	ND	1	12	.2	2	2	318	.50	.008	3	63	.66	19	.89	2	3.02	.01	.02	1	4
4+00N 4+00W	2	28	19	70	.2	11	26	1440	6.13	128	5	ND	1	60	.2	2	2	137	.57	.038	16	29	.79	85	.15	2	2.83	.02	.06	1	20
4+00N 2+00W	1	40	17	71	.6	16	12	427	5.55	3	5	ND	1	29	.2	2	2	137	.13	.037	8	34	.75	41	.19	2	6.69	.02	.03	1	3
3+50N 20+00W	1	132	12	70	.1	50	13	309	6.03	5	5	ND	1	14	.2	2	2	152	.46	.017	5	102	1.16	19	.56	3	5.96	.02	.02	1	7
3+50N 18+00W	1	57	12	87	.1	28	24	1123	5.53	2	5	ND	1	15	.2	2	2	187	1.04	.023	3	57	.73	16	.58	10	3.21	.02	.02	1	3
3+50N 16+00W	1	92	7	74	.1	28	11	383	7.82	2	5	ND	1	14	.2	2	2	226	.52	.015	2	83	.96	17	.61	2	4.10	.02	.02	1	6
3+50N 4+00W	2	34	24	54	.7	21	18	381	5.74	28	5	ND	2	70	1.0	2	3	123	.27	.026	16	30	.81	125	.17	2	5.44	.02	.04	1	9
3+50N 2+00W	2	24	21	52	.2	7	10	280	3.78	2	5	ND	1	36	.2	2	5	101	.15	.033	10	17	.49	41	.19	2	6.16	.02	.02	3	3
3+00N 20+00W	1	52	12	42	.1	43	10	385	7.46	2	5	ND	1	11	.9	2	2	214	.28	.017	2	91	.86	11	.52	2	2.66	.02	.02	1	2
3+00N 18+00W	1	74	16	82	.3	27	11	272	2.34	2	5	ND	1	27	.5	2	2	105	.96	.027	4	46	.82	37	.36	6	2.52	.02	.02	1	1
3+00N 16+00W	1	27	5	31	.1	8	1	184	4.00	2	5	ND	1	7	.2	2	2	309	.25	.009	2	33	.23	13	.88	2	1.29	.01	.02	1	7
3+00N 4+00W	1	29	18	49	.2	10	12	776	5.21	2	5	ND	1	22	.2	2	2	142	.16	.042	9	25	.64	36	.34	2	6.51	.02	.02	1	2
3+00N 2+00W	1	56	8	68	.1	14	20	1504	5.22	2	5	ND	1	62	.2	2	2	127	.84	.041	6	26	1.56	23	.33	2	3.63	.04	.04	1	6
2+50N 20+00W	1	64	18	88	.1	69	48	1671	9.45	2	5	ND	1	16	.3	2	2	245	.44	.027	3	125	1.34	32	.68	2	3.62	.02	.03	1	4
2+50N 18+00W	1	37	18	46	.1	16	7	324	11.41	6	5	ND	1	8	.2	2	2	413	.24	.013	3	54	.45	14	.89	2	1.74	.01	.02	1	7
2+50N 16+00W	1	194	17	61	.2	23	9	364	9.63	2	5	ND	1	9	.3	2	2	247	.48	.016	3	103	.71	13	.71	2	6.24	.01	.01	1	4
2+50N 4+00W	1	48	19	63	.4	17	19	1020	5.73	2	5	ND	1	43	.2	2	2	150	.19	.058	9	38	.73	52	.32	2	6.71	.02	.02	1	2
2+50N 2+00W	1	31	17	54	.1	5	20	1972	6.09	2	5	ND	1	41	.2	2	2	121	.27	.069	15	11	.45	44	.25	2	7.65	.02	.02	7	2
2+00N 20+00W	1	53	15	52	.1	28	8	338	10.00	5	5	ND	1	10	.2	4	2	312	.52	.016	2	126	.71	14	.81	2	3.88	.01	.02	1	8
2+00N 18+00W	1	86	16	49	.1	16	6	274	9.10	2	5	ND	1	10	.6	2	2	294	.48	.019	2	84	.44	12	.82	2	3.74	.01	.01	1	3
2+00N 16+00W	1	37	13	34	.1	7	3	235	9.33	2	5	ND	1	7	1.0	2	2	398	.28	.006	2	49	.24	8	1.09	2	1.54	.01	.02	1	9
2+00N 4+00W	1	35	18	71	.3	20	19	1046	5.37	2	5	ND	1	38	.2	2	2	145	.20	.041	8	44	1.24	42	.24	2	4.89	.02	.03	1	1
2+00N 2+00W	1	35	12	74	.1	13	25	1831	5.95	2	5	ND	1	34	.2	2	2	128	.41	.048	9	21	1.44	25	.31	2	5.71	.03	.03	1	3
1+50N 20+00W	1	94	12	82	.1	46	23	1084	9.66	2	5	ND	1	18	.3	2	2	188	.68	.032	5	90	1.12	24	.51	2	4.16	.02	.03	1	1
1+50N 18+00W	1	110	16	52	.1	23	8	265	8.73	2	5	ND	1	8	.2	2	2	250	.26	.026	2	87	.32	15	.53	2	3.71	.01	.02	1	3
1+50N 16+00W	1	74	17	59	.1	9	31	1405	8.41	4	5	ND	1	10	.9	2	2	333	.43	.021	2	49	.37	12	.95	2	1.34	.02	.04	1	19
1+50N 2+00W	1	36	14	92	.2	19	21	2002	5.55	2	5	ND	1	27	.2	2	2	146	.32	.053	8	37	.98	47	.20	2	4.76	.03	.03	1	1
1+00N 20+00W	1	196	6	102	.1	61	35	1695	7.28	2	5	ND	1	50	.2	2	2	208	1.31	.036	10	93	1.46	91	.61	6	4.53	.03	.03	1	8
1+00N 18+00W	1	105	26	52	.1	26	10	350	7.65	2	5	ND	1	10	.2	2	2	182	.33	.024	3	122	.50	19	.53	2	7.82	.01	.01	1	5
1+00N 16+00W	1	88	18	57	.1	16	23	685	8.89	2	5	ND	1	11	.5	2	2	303	.92	.017	2	69	.67	9	.87	2	3.01	.01	.02	1	12
1+00N 2+00W	1	22	13	51	.3	9	9	483	4.58	7	5	ND	1	12	.2	2	2	99	.11	.039	3	28	.55	39	.03	2	2.66	.02	.07	4	1
0+50N 20+00W	1	91	13	78	.1	32	16	394	7.73	2	5	ND	1	9	.5	2	2	264	.41	.015	3	73	.67	20	.70	2	4.21	.01	.02	1	11
0+50N 18+00W	1	44	13	50	.1	19	7	371	9.81	2	5	ND	1	9	.2	2	5	279	.37	.014	2	77	.53	12	.85	2	2.64	.02	.02	1	3
0+50N 16+00W	1	50	12	52	.1	14	30	838	10.14	2	5	ND	1	12	.2	2	2	260	.48	.014	3	63	.52	13	.56	2	2.67	.01	.03	1	2
0+50N 2+00W	2	18	14	36	.3	5	5	237	3.24	2	5	ND	1	21	.2	2	2	143	.44	.021	5	31	.23	49	.08	3	2.93	.01	.02	1	1
STANDARD C/AU-S	19	61	43	134	7.5	71	32	1083	3.96	43	20	7	39	51	18.5	14	19	58	.48	.099	40	60	.88	184	.08	33	1.88	.07	.14	11	46

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 %	W ppm	Au* ppb
0+00N 20+00W	1	57	2	64	.1	16	29	460	6.36	3	5	ND	1	10	.2	2	2	232	.62	.019	4	68	.39	26	.68	5	2.95	.02	.03	1	8
0+00N 18+00W	2	90	5	59	.1	24	11	228	4.99	2	5	ND	1	13	.2	2	2	211	.32	.031	6	70	.58	38	.59	3	4.08	.01	.02	1	7
0+00N 16+00W	1	44	2	47	.1	20	10	240	6.37	2	5	ND	1	9	.2	2	2	223	.37	.015	4	56	.57	18	.58	2	3.02	.01	.02	1	7
0+00N 14+00W	1	52	2	74	.1	31	24	773	8.47	2	5	ND	1	22	.7	2	2	211	1.28	.028	3	50	.78	13	.71	14	2.71	.03	.02	1	5
0+00N 2+00W	2	43	8	93	.1	16	16	1893	4.88	8	5	ND	1	47	.2	2	2	102	.61	.063	8	28	.68	93	.09	4	3.42	.02	.05	1	5