

RECEIVED

**BOTANY INLET
MORESBY ISLAND, QUEEN CHARLOTTE ISLANDS**

Gold Commissioner's Office
VANCOUVER, B.C.

**ASSESSMENT REPORT
ON
GEOCHEMICAL ROCK SAMPLING,
GEOCHEMICAL STREAM SEDIMENT SAMPLING
AND
GEOLOGICAL MAPPING**

N.T.S.
103 B/12
LATITUDE 52° 44' N, LONGITUDE 131° 57' W

Skeena Mining Division

Prepared for:
Mr. Neil Froc
4261 Canyon Road
Lindell Beach, British Columbia
V2R 5B8

By:

David J. Pawliuk, P. Geo.
June 2004

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

27523

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A	Certificates of Geochemical Analysis
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SUMMARY

This assessment report covers rock channel sampling, stream sediment sampling and geological mapping carried out on the OG 1 to 4 mineral claims in the Botany Inlet area, Moresby Island, Queen Charlotte Islands. The field exploration work was performed April 27, 2004.

The mineral claims cover gold-bearing quartz veins and veinlets in a northerly striking felsic dyke that intrudes coarse grained andesite porphyry. Historical geological mapping by the British Columbia Department of Mines and Petroleum Resources indicates that the bedrock within the property area is Triassic Karmutsen Formation basalt and Kunga Formation limestone that have been intruded by Jurassic diorite.

No previous mineral exploration has been recorded within the property area. Previous work in the region has included sporadic exploration for copper, iron and gold. The now-closed Tasu open pit mine is located seven km northwest of the centre of the mineral claims. Iron, copper, silver and gold were produced from the chalcopyrite-bearing magnetite skarn at Tasu.

Thirteen rock channel samples, one grab sample and three stream sediment samples were collected from the property. The channel samples contain up to 26.7 g/t gold and 4.2 g/t silver across 20 cm. The grab sample contains 3.93 g/t gold and 0.6 g/t silver. The stream sediments contain from 16 to 172 parts per billion (ppb) gold.

Analytical results indicate that anomalous concentrations of gold and silver occur within the property area.

INTRODUCTION

Rock channel sampling, stream sediment sampling and geological mapping were carried out on the OG 1 to 4 mineral claims in the Botany Inlet area, Moresby Island, Queen Charlotte Islands. These mineral claims belong to Mr. Neil Froc, of Lindell Beach, British Columbia.

Mr. Neil Froc, Mr. Daniel Meldrum and the writer carried out the field exploration work on April 27, 2004.

LOCATION, ACCESS AND PHYSIOGRAPHY

The OG 1 to 4 mineral claims are located within the Botany Inlet area, Moresby Island, Queen Charlotte Islands, and are approximately 60 km south-southwest of Sandspit. The property is centred at approximately 52° 44' N latitude and 131° 57' W longitude within N.T.S. map-sheet 103 B/12 (Figure 1).

A hotel at Sandspit was used for accommodation during the exploration work. A Bell 206 Longranger helicopter was used to access the property.

Elevations in the property area range from sea level up to about 855 metres a.s.l. at the top of a peak on the western side of the property. The terrain consists of moderately steep-sided, rugged mountains that rise from the shoreline of Botany Inlet. A creek with a gentle gradient flows through the south-central part of the mineral claims. The highest elevations are above treeline. Large cedar, spruce and hemlock trees cover the lower elevations; the area has not yet been logged. Soil is sparse and poorly developed where present. The climate is generally cool and wet, with windstorms

in late fall.

PROPERTY STATUS

The mineral claims cover a total of 37 units within the Skeena mining division (Figure 2). These claims are owned by Mr. Neil Froc, and are in good standing until September 14, 2004, before the present work is accepted as assessment.

HISTORY

The property region has been sporadically explored for iron, copper and gold. The past-producing Tasu open pit mine is located seven km northwest of the property. More than 12,300,000 tonnes iron, 57,000 tonnes copper, 52,800 kg silver and more than 1,430 kg gold were produced from the chalcopyrite-bearing magnetite skarn at Tasu (British Columbia Ministry of Energy and Mines minfile number 103C 003).

Sutherland Brown (1968) mapped the geology of the region at 1:250,000 scale for the British Columbia Department of Mines.

GEOLOGY

Triassic Karmutsen Formation basalts and Kunga Formation limestones are intruded by Jurassic diorite within the property area. Late igneous dykes intrude these rocks. All of the rocks within the area have been faulted.

The geology of the property area is presented in figure 3.

GEOCHEMICAL SAMPLING

Thirteen rock channel samples, one geochemical rock sample and three geochemical stream sediment samples were collected from the property area.

The samples were submitted to Acme Analytical Laboratories facility at Vancouver, British Columbia. All samples were analyzed for gold by geochemical fire assay with ICPMS finish. The samples were also analyzed for an additional 35 elements by ICP methods.

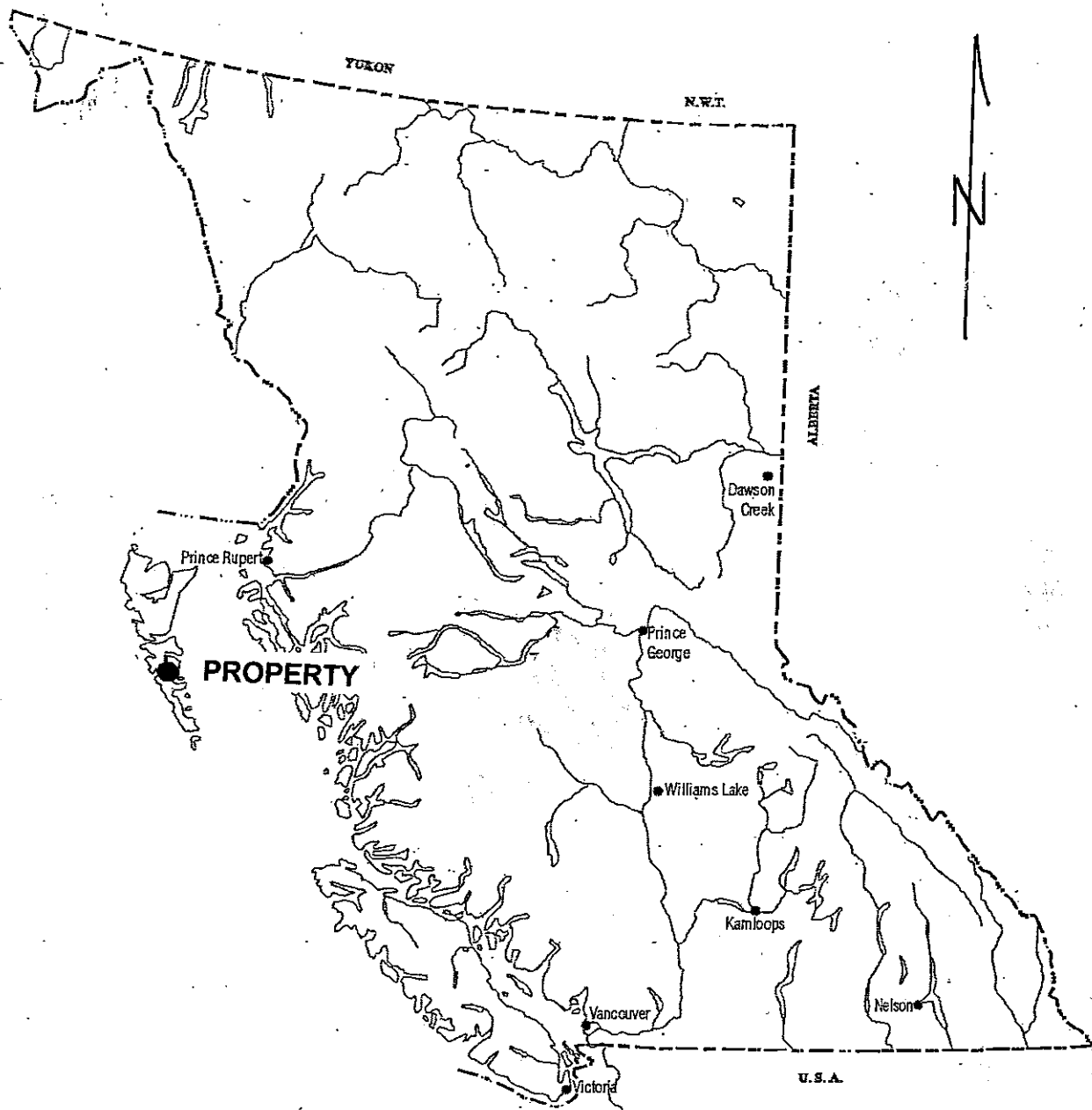
The laboratory sample analysis procedure for rocks includes drying, crushing, and then pulverizing a sample split. Subsamples of 0.5 gm from the pulverized split were then analyzed.

The stream sediments were wet sieved in the field to minus 20 mesh to reduce the sample volume required for shipping to the laboratory, while maintaining sample quality. The laboratory sample analysis procedure for stream sediments includes drying then sieving to minus 80 mesh. 15 gm subsamples of the minus 80 mesh fraction were analyzed.

The geochemical analysis certificates are included in Appendix A. Rock channel samples are described in Table 1 below.

Channel sampling

The 13 rock channel samples from the main showing contain up to 26.7 g/t gold and 4.2 g/t silver across 20 cm (Appendix A). The channel sample sites are plotted on figure 4.



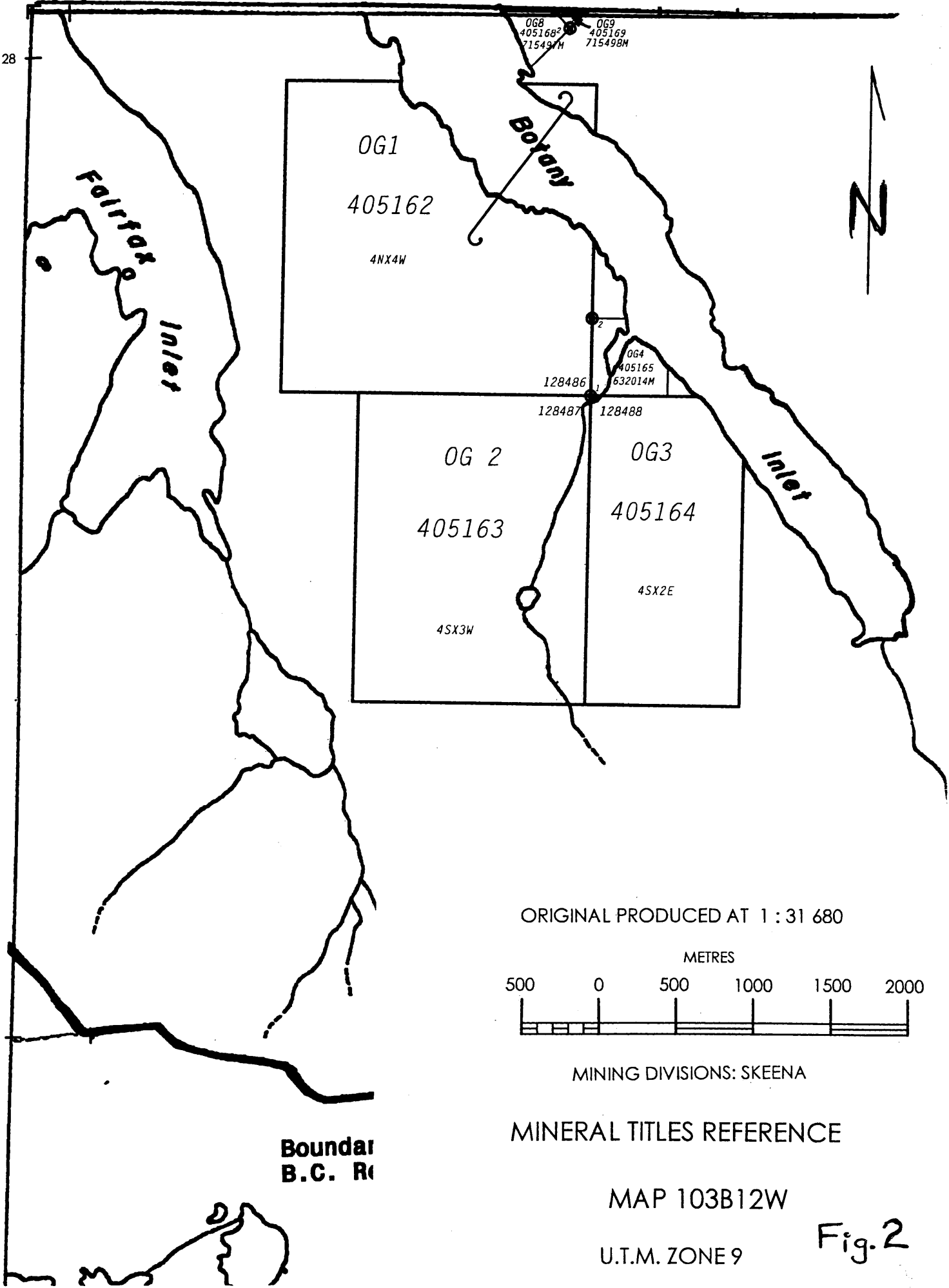
**BOTANY INLET GOLD
PROPERTY LOCATION
MAP**

FIGURE 1

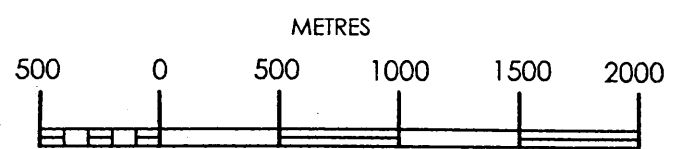
132°00'06" W
45'00"

5848128

5841792



ORIGINAL PRODUCED AT 1 : 31 680



MINING DIVISIONS: SKEENA

MINERAL TITLES REFERENCE

MAP 103B12W

U.T.M. ZONE 9

Fig. 2

131° 58' W

Wilson Bay

Botany Island

LEGEND

RJKu

KUNGA FORMATION
(Limestone & flaggy argillite)

RJKu2

Flaggy black limestone, minor argillite

RJKu1

Massive grey limestone

Js

JURASSIC PLUTONS
(hornblende diorite, quartz diorite)

RKA

KARMUTSEN FORMATION
(basalt massive flows, pillow lavas, pillow breccia and tuff, related sills, minor interlava limestone, volcanic sandstone and shale, amphibolized equivalents)

11610
Δ 3.93Au, 0.6Ag vein float sample site, number; g/t gold, g/t silver

BOT-03
• 16 ppb Au stream sediment sample site, number; gold in ppb.

PROPERTY BOUNDARY



SEE FIGURE 3

11610
3.93Au, 0.6Ag

BOT-03; 16 ppb Au

84
Main Showing

BOT-01
172 ppb Au
BOT-02
16 ppb Au

Modified after Sutherland Brown (1968)

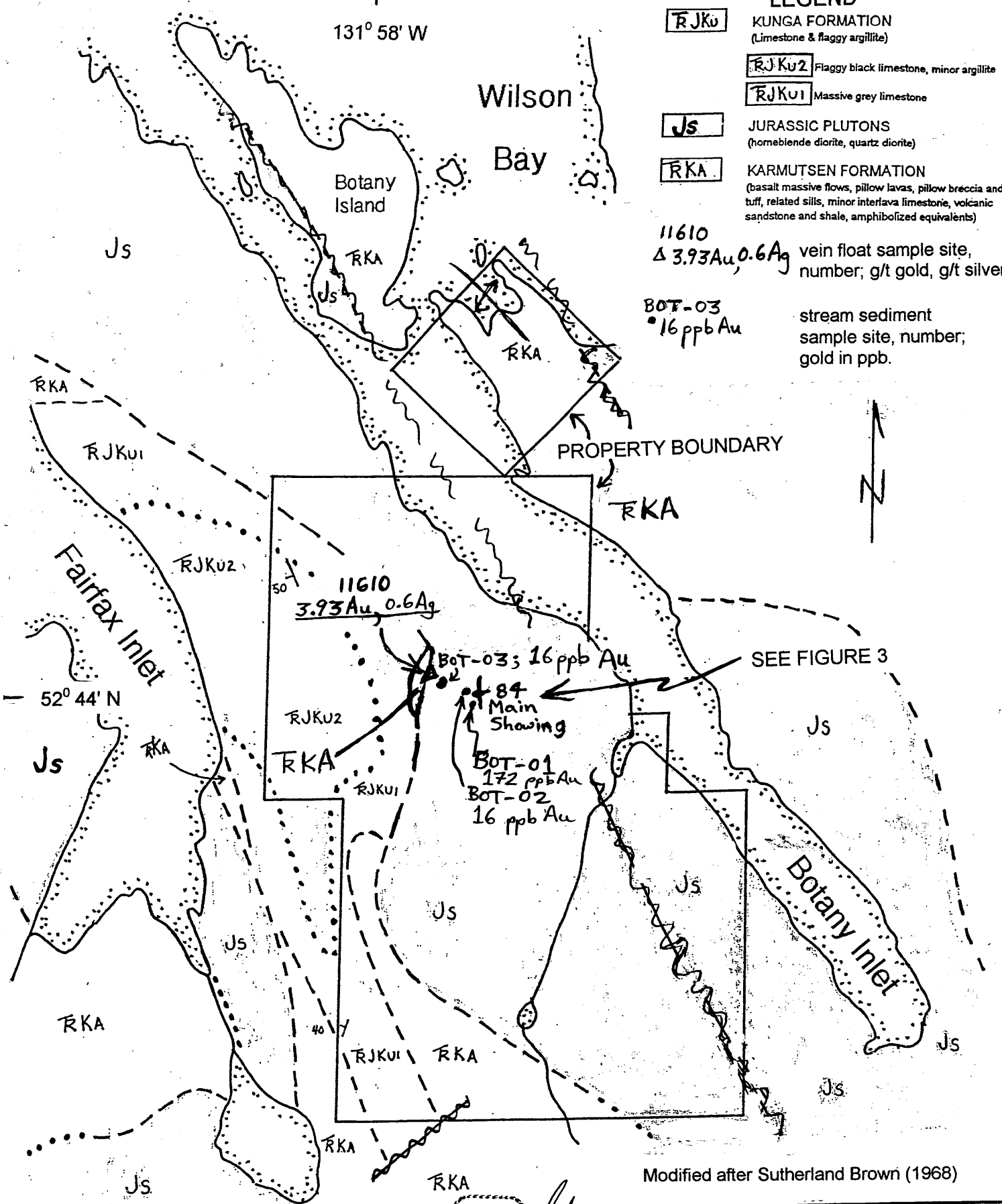
BOTANY INLET GOLD

TITLE: REGIONAL GEOLOGY	
DWG: Figure 3	
Scale: 1:31 680	Moresby Island, Queen Charlotte Islands, BC
Proj.No MGeo 2004	Date: May 2004

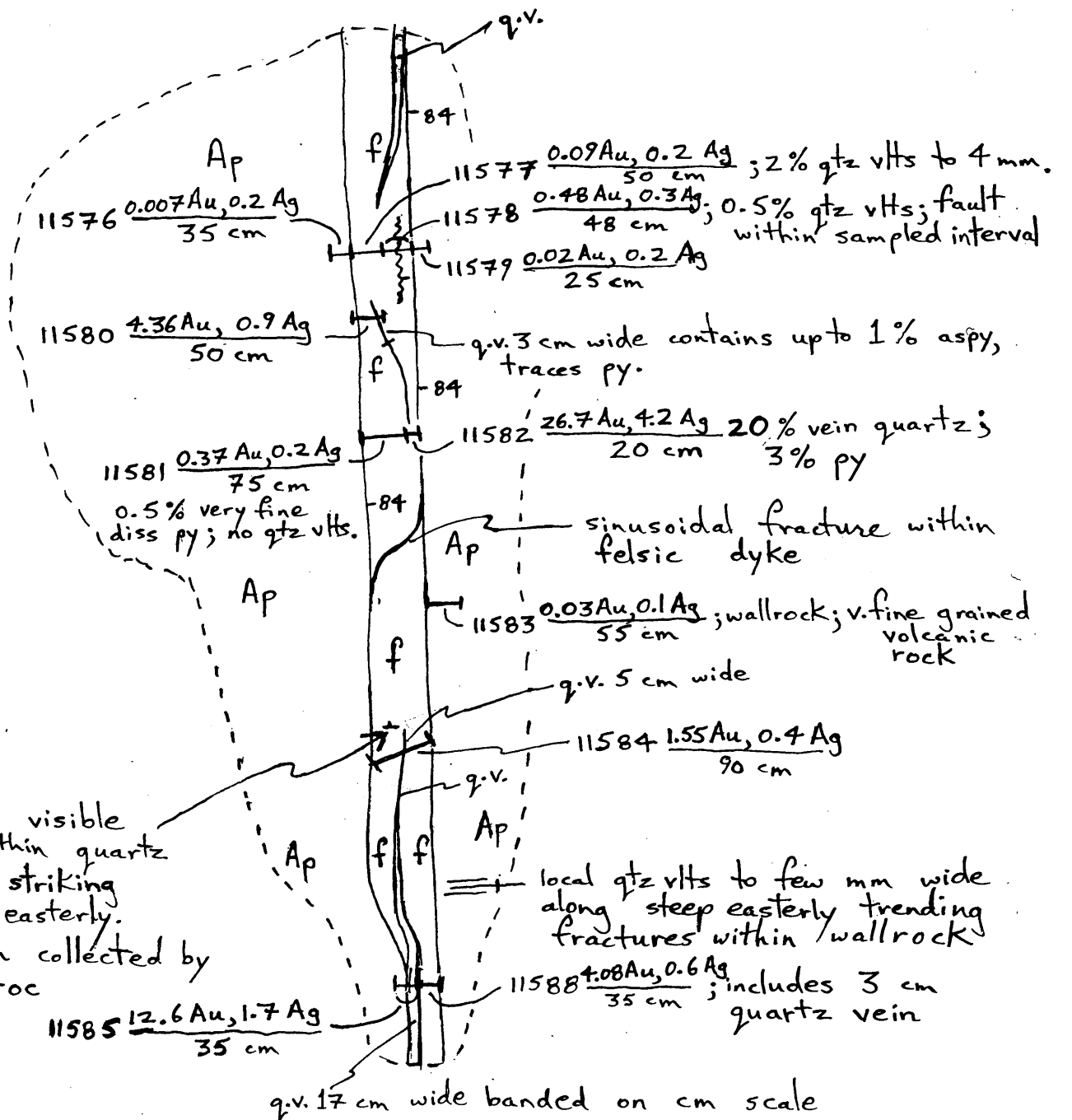
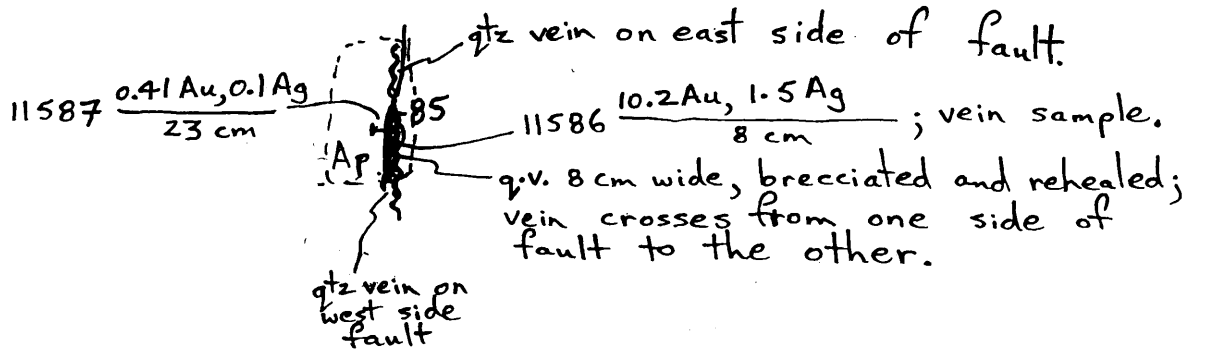
PROFESSIONAL
PROVINCE OF
BRITISH COLUMBIA
GEOLOGIST

David Pawliuk

June 17, 2004



0 1 2 3 m
scale 1:100



D. J. Fawcett
PROFESSIONAL
PROVINCE OF
D. J. FAWCETT
BRITISH COLUMBIA
GEOLOGICIAN
June 17, 2004

LEGEND

- Ap andesite porphyry
 - f felsic intrusive dyke
 - q.v. quartz vein
- assay tag number; g/t gold, g/t silver
sample width (cm)

11585 12.6 Au, 1.7 Ag
35

BOTANY INLET GOLD
CHANNEL SAMPLING
Main Showing Area
Figure 3

Table 1: Main Showing channel sampling

SAMPLE	Au g/t	Ag g/t	As ppm	Width cm	REMARKS
11576	0.007	0.2	32.1	35	Wallrock andesite porphyry. Traces diss py as subhedral xtals to 2 mm; plag laths to 12 mm length.
11577	0.086	0.2	600.7	50	Light grey, cherty felsic dyke(?) crosscut by 2 % milky white quartz veinlets up to 4 mm wide; dusty diss py throughout.
11578	0.480	0.3	4344.1	48	As above except here 0.5 % quartz veinlets; sample includes small shear parallel dyke margins.
11579	0.023	0.2	146.7	25	Wallrock andesite porphyry.
11580	4.355	0.9	4068.4	50	Foliated(?) intermediate to cherty dyke intruded by white quartz vein 3 cm wide strike 122° dip steep that locally contains 1 % arsenopyrite and traces pyrite. 6 cm Ap wallrock within sampled interval.
11581	0.371	0.2	2930.3	75	Light greenish grey felsic dyke(?) with say 0.5 % very finely disseminated pyrite throughout. No quartz veinlets seen.
11582	26.742	4.2	>10,000	20	20 % milky white, brecciated and rehealed vein quartz along eastern margin of sampled interval. 3 % blebby pyrite throughout as subround masses to 4 mm across, and as patches to 8 or 12 mm across along irregular fracture surfaces within felsic dyke.
11583	0.028	0.1	364.6	55	Wallrock on eastern side of felsic dyke(?); wallrock very fine grained, light greenish grey volcanic rock.
11584	1.548	0.4	3242.9	90	Lensoid, milky white quartz vein 5 cm wide within sampled interval.
11585	12.609	1.7	>10,000	17	Quartz vein 17 cm wide within sampled interval; this vein strikes 173° dip steep, and is faintly banded on a cm scale parallel vein margins. Adjacent to sample 11588.
11586	10.236	1.5	2912.8	8	Across quartz vein 8 cm wide striking 178° dip steep; vein brecciated and rehealed, emplaced along western margin of fault strike 178° dip 85° east.
11587	0.416	0.1	142.6	23	Andesite porphyry wallrock along western side of vein within sample 11586.
11588	4.079	0.6	>10,000	35	Felsic dyke intruded by 3 cm wide quartz vein. Sample adjacent to 11585.

Grab sampling

Grab sample 11610 was collected about 200 metres west-northwesterly from the main showing

within a creek bed approximately 100 metres downstream from the toe of a recent slide area. The rock sample is from a subangular boulder of quartz(50 %) - calcite(50 %) vein material. This boulder is 35 X 15 X 15 cm across; no sulphides were seen within the rock. The vein material is faintly banded on a cm scale.

This rock sample contains 3.93 g/t gold, 0.6 g/t silver and <10,000 ppm arsenic (Appendix A).

Stream sediment sampling

Geochemical stream sediment sample sites are plotted on figure 3.

The 3 geochemical stream sediment samples from the property area contain between 16 and 172 ppb gold (Appendix A).

MINERALIZATION

Brecciated and rehealed milky white quartz veins and veinlets up to 20 cm wide intrude a felsic dyke emplaced along a fault that strikes 177 to 178 degrees and dips 83 to 85 degrees to the east. The quartz veins trend generally parallel the margins of the felsic dyke, but in places the veins strike perpendicular or oblique to the dyke margins. The felsic dyke and associated quartz veins are exposed for 17 metres along strike at the main showing. The mineralized vein structure extends a further 10 metres to the north, where channel samples 11586 and 11587 were collected. The mineralized structure is open at both ends (Figure 4).

Coarse visible gold was observed within an easterly trending quartz veinlet in the southern part of the main showing area (Figure 4); the gold occurs as irregular masses up to 3 or 4 mm across. The quartz veins locally contain up to 1 % arsenopyrite and traces of finely disseminated pyrite. Weathered fracture surfaces within the quartz veins are locally coated by traces of limonite.

The quartz veins pinch and swell along strike, and are locally banded on a cm scale.

A northerly trending quartz vein 5 cm wide intrudes the wallrock andesite porphyry about 8 m west of the northern end of the main showing. This vein was not sampled during the current work.

In addition, there are easterly trending, narrow quartz veinlets up to a few mm wide crosscutting the wallrock on the eastern side of the felsic dyke (Figure 4). These veinlets are emplaced along steep, easterly trending fractures.

CONCLUSIONS

Anomalous concentrations of gold and silver occur within narrow quartz veins at the Botany Inlet mineral property.

Respectfully submitted,



David J. Pawliuk, P. Geo.



GEOLOGIST'S CERTIFICATE

I, David J. Pawliuk, of 2960 Anchor Way, Nanoose Bay, in the Province of British Columbia,

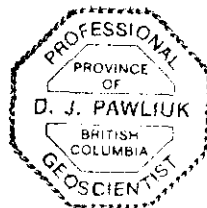
DO HEREBY CERTIFY:

1. That I am a graduate of the University of Alberta and hold a Bachelor of Science degree with Specialization in Geology.
2. That I am registered as a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of British Columbia.
3. That I am registered as a Professional Geologist with the Association of Professional Engineers, Geologists and Geophysicists of Alberta.
4. That I have practised geology in Canada, Argentina, Mexico, Ecuador and the United States since 1975.
5. That I personally performed and supervised geochemical sampling, prospecting and geological mapping within the mineral claims owned by Mr. Neil Froc at Botany Inlet, Moresby Island.

Dated at Nanoose Bay, British Columbia, Canada this 17th day of June, 2004.



David J. Pawliuk, P. Geo.



REFERENCE

Sutherland Brown, A. (1968) Geology of the Queen Charlotte Islands, British Columbia; British Columbia Department of Mines and Petroleum Resources Bulletin 54.

STATEMENT OF COSTS

The following expenditures were incurred for exploration on the Botany Inlet property from April 21 to 30, 2004.

Personnel		
D. Pawliuk, geologist 4.4 days @ \$375/day		\$1,650.00
D. Meldrum, geologist 6 days @ \$280 day		\$ 1,680.00
		<u>3,330.00</u>
Total Personnel		\$3,390.00
 <u>Disbursements</u>		
MOB/DEMOB, airfares, taxis, shipping		1,796.00
Helicopter		2,245.75
Diamond saw rental		596.05
Food & Accommodation		523.03
Supplies		92.67
Analyses		323.32
Office, report & miscellaneous		100.00
		<u>5,676.82</u>
Subtotal		9,066.82
GST		634.56
TOTAL		\$9,701.38

APPENDIX A

ANALYTICAL CERTIFICATES

GEOCHEMICAL ANALYSIS CERTIFICATE



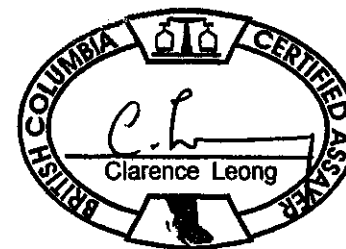
Southern Rio Resources Ltd. PROJECT BOT BAY File # A401718

P.O. Box 11584, 1410 - 65, Vancouver BC V6B 4N8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg % ppm	Ba ppm	Ti % ppm	B %	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S % ppm	Ga ppm	Se ppm	Sample gm
SI	.1	.6	.4	1	<1	.2	<1	1	.05	<.5	<.1	<.5	<.1	5	<.1	<.1	<.1	<.1	.22	<.001	<.1	<.1	<.01	6	<.001	<.1	.01	.696	.01	<.1	<.01	.2	<.1	<.05	<.1	<.5	-
11576	.4	30.5	2.8	49	.2	26.5	17.9	381	3.54	32.1	.1	6.9	.5	55	.1	.1	.1	64	1.99	.046	3	10.1	1.17	16	.225	<.1	3.77	.368	.04	<.4	<.01	2.2	<.1	.07	9	<.5	2500
11577	.4	18.7	4.1	71	.2	12.2	10.7	400	2.76	600.7	.2	86.3	.7	25	.1	.3	.1	25	.58	.033	3	12.6	.92	40	.080	3	1.91	.129	.15	1.3	.01	2.1	<.1	<.05	9	<.5	3300
11578	.5	21.9	10.6	68	.3	32.2	12.6	398	2.82	4344.1	.1	480.4	.5	26	.3	1.1	.4	32	.55	.028	2	37.8	1.03	50	.044	2	1.83	.109	.15	1.1	.01	2.2	<.1	.13	8	.5	2000
11579	.2	77.3	6.5	78	.2	168.7	38.0	860	5.67	146.7	.2	22.6	.7	117	.1	.2	.2	147	2.29	.041	3	200.9	4.17	42	.161	4	5.65	.327	.04	.5	<.01	9.1	<.1	<.05	16	<.5	2200
11580	.7	23.7	45.8	114	.9	9.7	10.0	416	2.83	4068.4	.4	4355.3	1.5	36	1.5	1.3	.3	39	.91	.040	3	11.4	1.04	63	.054	2	2.13	.149	.15	1.0	.03	2.7	<.1	.16	8	.5	3800
11581	.4	24.7	6.7	77	.2	12.2	8.9	437	2.73	2930.3	.2	370.8	.9	34	.2	1.2	.1	21	.62	.034	4	13.0	.95	47	.042	5	2.20	.156	.16	.6	.01	1.8	<.1	.21	8	<.5	5000
11582	1.2	48.6	148.5	84	4.2	5.2	9.4	271	3.86	>10000	<.1	26741.6	.2	9	1.0	7.0	.7	4	.32	.075	2	3.6	.56	55	.025	3	1.33	.031	.30	.9	.07	1.0	.1	1.53	4	2.3	4500
11583	1.1	36.8	8.0	143	.1	13.1	27.3	925	7.71	364.6	.2	28.0	.8	28	.2	.9	.1	166	1.44	.273	14	34.5	1.53	17	.409	3	2.78	.113	.02	.2	.02	10.6	<.1	.10	15	<.5	5300
11584	.5	22.3	6.6	62	.4	12.8	9.2	474	2.52	3242.9	.1	1548.3	.6	28	.3	2.0	.3	18	.42	.030	3	11.0	.80	45	.039	4	1.76	.088	.22	1.1	.01	1.5	.1	.10	7	<.5	6800
11585	1.0	18.1	13.9	29	1.7	18.7	8.1	218	2.42	>10000	<.1	12609.1	<.1	9	.2	9.5	.8	32	.29	.009	1	56.1	.33	21	.035	1	.75	.036	.05	.9	.03	2.9	<.1	.41	3	1.2	2700
11586	.7	12.1	10.2	60	1.5	95.7	19.7	480	3.25	2912.8	.1	10235.8	.4	38	.2	1.4	.3	59	.60	.021	1	84.0	1.78	69	.098	2	2.59	.087	.11	.6	.02	5.2	<.1	.06	7	<.5	1000
11587	.2	102.9	4.0	74	.1	159.6	34.7	855	5.27	142.7	.3	420.7	1.1	154	.1	.1	.1	130	2.90	.042	3	168.0	3.58	67	.210	3	6.32	.392	.08	.7	<.01	11.8	<.1	<.05	16	<.5	2500
RE 11587	.2	99.4	4.0	74	.1	159.7	34.2	861	5.31	142.6	.3	411.3	1.1	159	.1	.1	.1	131	2.92	.040	3	163.1	3.62	67	.211	4	6.35	.386	.08	.8	.01	11.2	<.1	<.05	15	<.5	-
11588	.4	48.8	8.8	64	.6	87.4	35.6	813	5.08	>10000	<.1	4079.5	.1	72	.1	10.3	.5	134	.97	.028	1	217.6	2.54	74	.061	7	3.80	.185	.14	.5	.01	9.8	<.1	.37	10	.7	5000
11610	.4	48.5	8.8	62	.6	88.3	35.5	804	5.02	>10000	<.1	3931.7	.1	72	.1	9.5	.6	133	.95	.026	1	209.2	2.51	74	.061	4	3.78	.190	.14	.4	.02	9.7	<.1	.36	10	.6	2600
STANDARD DS5	12.9	146.0	23.8	141	.3	25.0	11.9	794	3.01	19.1	6.1	43.0	2.7	46	5.6	3.9	6.2	62	.72	.094	12	196.7	.67	136	.100	19	2.00	.032	.14	5.0	.18	3.4	1.0	<.05	7	4.9	-

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data h FA _____ DATE RECEIVED: APR 28 2004 DATE REPORT MAILED: May 3/04.....





GEOCHEMICAL ANALYSIS CERTIFICATE



Southern Rio Resources Ltd. PROJECT BOT BAY File # A401719

P.O. Box 11584, 1410 - 65, Vancouver BC V6B 4N8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B %	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Sample gm
BOT-01	2.1	15.4	10.1	70	.1	20.3	13.0	1043	2.19	32.0	1.8	172.0	.4	24	.4	.5	.1	87	.52	.054	4	23.1	.60	27	.107	14	1.69	.020	.02	.1	.10	3.0	.1	.13	6	3.4	1500
BOT-02	3.8	32.0	7.7	157	.2	35.4	14.7	902	3.18	88.3	3.5	16.6	.4	32	2.6	1.4	.1	156	1.01	.128	6	32.2	.83	34	.113	105	2.18	.022	.02	.2	.11	4.0	.2	.16	7	6.2	1800
BOT-03	4.2	39.1	10.5	332	.3	65.5	15.0	792	3.11	149.3	8.0	16.4	.3	39	4.0	1.5	.2	275	1.38	.125	7	56.4	.76	24	.107	75	2.29	.017	.02	.4	.13	3.9	.2	.08	8	5.8	600
STANDARD DS5	13.1	146.6	25.1	139	.3	24.4	12.2	783	3.00	18.5	6.1	44.0	2.8	47	5.6	4.0	6.3	58	.73	.095	12	190.0	.68	137	.107	16	1.95	.033	.14	4.7	.18	3.4	1.0	<.05	7	5.2	-

GROUP 1DX - 15.0 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
<> CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: S.SED SS80 60C

Data d FA _____

DATE RECEIVED: APR 28 2004

DATE REPORT MAILED: May 5/04...

