

87-382-15908



Province of
British Columbia

Ministry of
Energy, Mines and
Petroleum Resources

ASSESSMENT REPORT
TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S) GEOLOGY AND GEOCHEMISTRY	TOTAL COST \$9,587.00
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AUTHOR(S) **Pirie, I. D.** SIGNATURE(S) *I. D. Pirie*

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED **April 2, 1987** YEAR OF WORK **86**

PROPERTY NAME(S) **SBS**

COMMODITIES PRESENT **Cu, Pb, Zn, Au, Ag, Ba**

B.C. MINERAL INVENTORY NUMBER(S), IF KNOWN

MINING DIVISION **Kamloops** NTS **82M/4W**

LATITUDE **51°15'N 02'** LONGITUDE **119°46'W**

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property [Examples: TAX 1-4, FIRE 2 (12 units); PHOENIX (Lot 1706); Mineral Lease M 123; Mining or Certified Mining Lease ML 12 (claims involved)]:

SBS 1 (20 units), SBS 2 (12 units), SBS 3 (16 units), SBS 4-6 (20 units each)

OWNER(S) **Minnova Inc. (formerly Corporation Falconbridge Copper)**

FILMED

MAILING ADDRESS
**4th Floor, 311 Water Street
Vancouver, B. C.**

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

OPERATOR(S) (that is, Company paying for the work)
(1) **Same** (2)

MAILING ADDRESS
15,908

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):
The property lies within the Paleozoic Eagle Bay formation. It is underlain by NW-SE striking mafic to felsic schists which dip at 30-50° to the NE. Moderate amounts of chlorite and sericite alteration are present and trace amounts of galena and malachite have been noted.

REFERENCES TO PREVIOUS WORK **AR 6890**

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	COST APPORTIONED
GEOLOGICAL (scale, area) Ground Photo	1:10,000 2700 ha.	SBS 1-6 (incl)	\$2500
GEOPHYSICAL (line-kilometres) Ground Magnetic Electromagnetic Induced Polarization Radiometric Seismic Other Airborne			
GEOCHEMICAL (number of samples analysed for ...)			
Soil Silt Rock Other	146 whole rock + Cu, Pb, Zn, Ag, Au, Ba	SBS 1-6 (incl)	\$7087
DRILLING (total metres; number of holes, size) Core Non-core			
RELATED TECHNICAL Sampling/assaying Petrographic Mineralogic Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY/PHYSICAL			
Legal surveys (scale, area) Topographic (scale, area) Photogrammetric (scale, area) Line/grid (kilometres) Road, local access (kilometres) Trench (metres) Underground (metres)			
TOTAL COST			\$9587

FOR MINISTRY USE ONLY	NAME OF PAC ACCOUNT	DEBIT	CREDIT	REMARKS:
Value work done (from report)				
Value of work approved				
Value claimed (from statement)				
Value credited to PAC account				
Value debited to PAC account				
Accepted Date	Rept. No.			Information Class

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Ba, Cu, Pb, Zn	7 /
Au, Ag	9 /
SiO ₂ , TiO ₂ , CaO, MgO	9 /
Na ₂ O, K ₂ O	9 /
Fe ₂ O ₃ (Total Iron), MnO ₂ , Al ₂ O ₃	10 /
Zr	10 /
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MAPS

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SUMMARY OF CONCLUSIONS AND RECOMMENDATIONS

The property is underlain by sericite-chlorite-quartz schists of volcano-sedimentary origin trending NW-SE and dipping NE. Lithogeochemistry shows abundant soda depletion, magnesium enrichment and trace metal enrichment.

Given the proximity to the Homestake and Samatosum Deposits to the northwest, further exploration is definitely warranted.

INTRODUCTION

General

Minnova Incorporated (formerly Corporation Falconbridge Copper) is the registered owner of 108 claim units (SBS 1-6) in the Skwaam Bay, Adams Lake area of the Kamloops Mining Division. This report presents the results of reconnaissance geological mapping and lithogeochemical sampling carried out during August and September 1986.

Location and Access

The claims are located on the south side of Skwaam Bay, 30km east of Louis Creek and approximately 75km northeast of Kamloops (Fig. 1). Access is by way of the Agate Bay road from Highway 5 at Louis Creek or by the Holding Adams Lake mainline from the town of Adams Lake.

Physiography

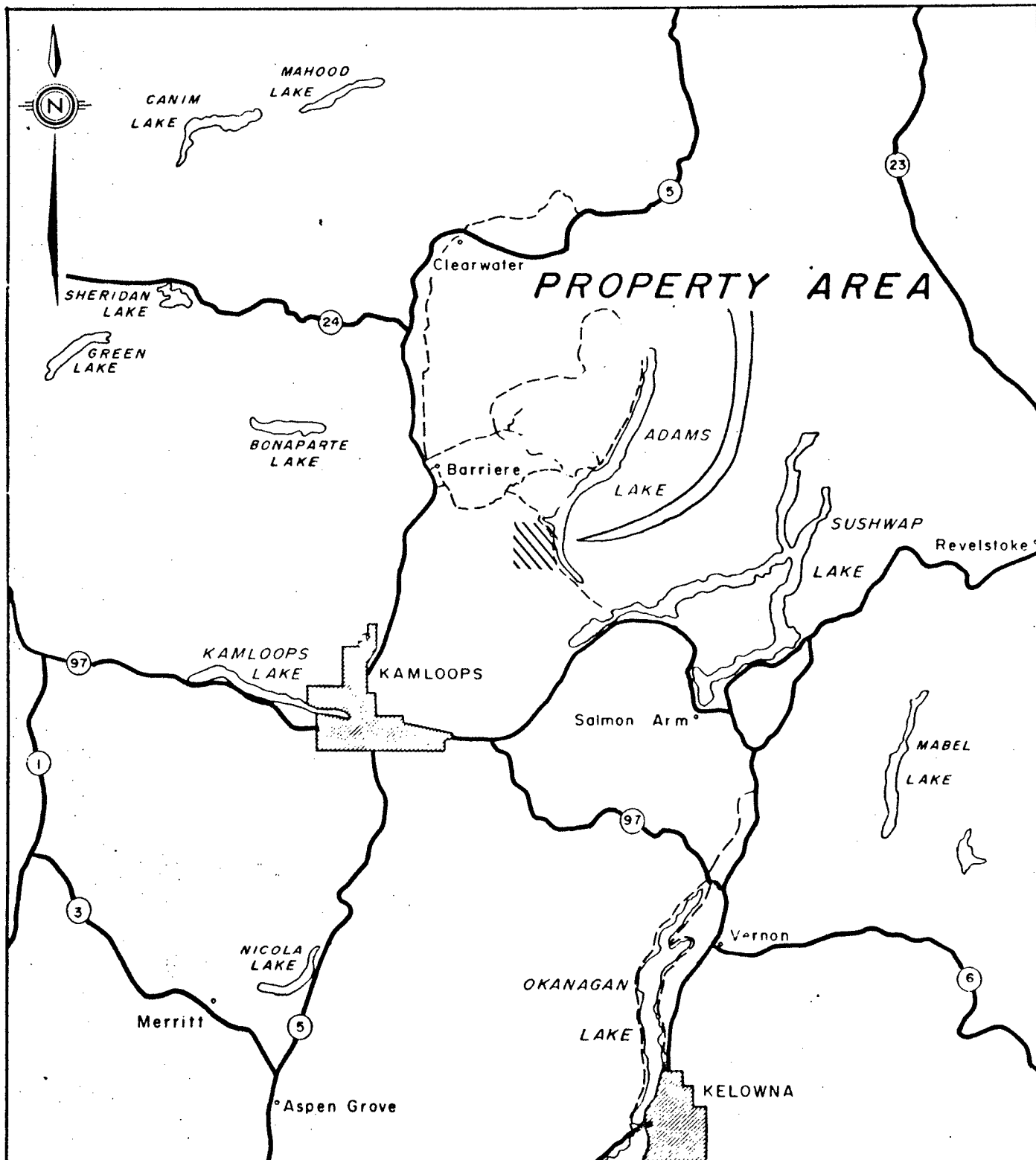
The property lies on the western wide of the Adams Plateau which consists of high rolling plateau country incised by locally steep, drift filled valleys. Elevations range from less than 500m at lake level to over 1500m up on the plateau. Much of the SBS property lies at around 1500m but drops off steeply north and east into Adams Lake.

Fairly dense forest cover occurs across the area with logging currently active right on the property.

The climate is moderate with temperatures ranging from -25°C to $30^{\circ}\text{C}+$. Precipitation is low to moderate with a May to November snowfree period.

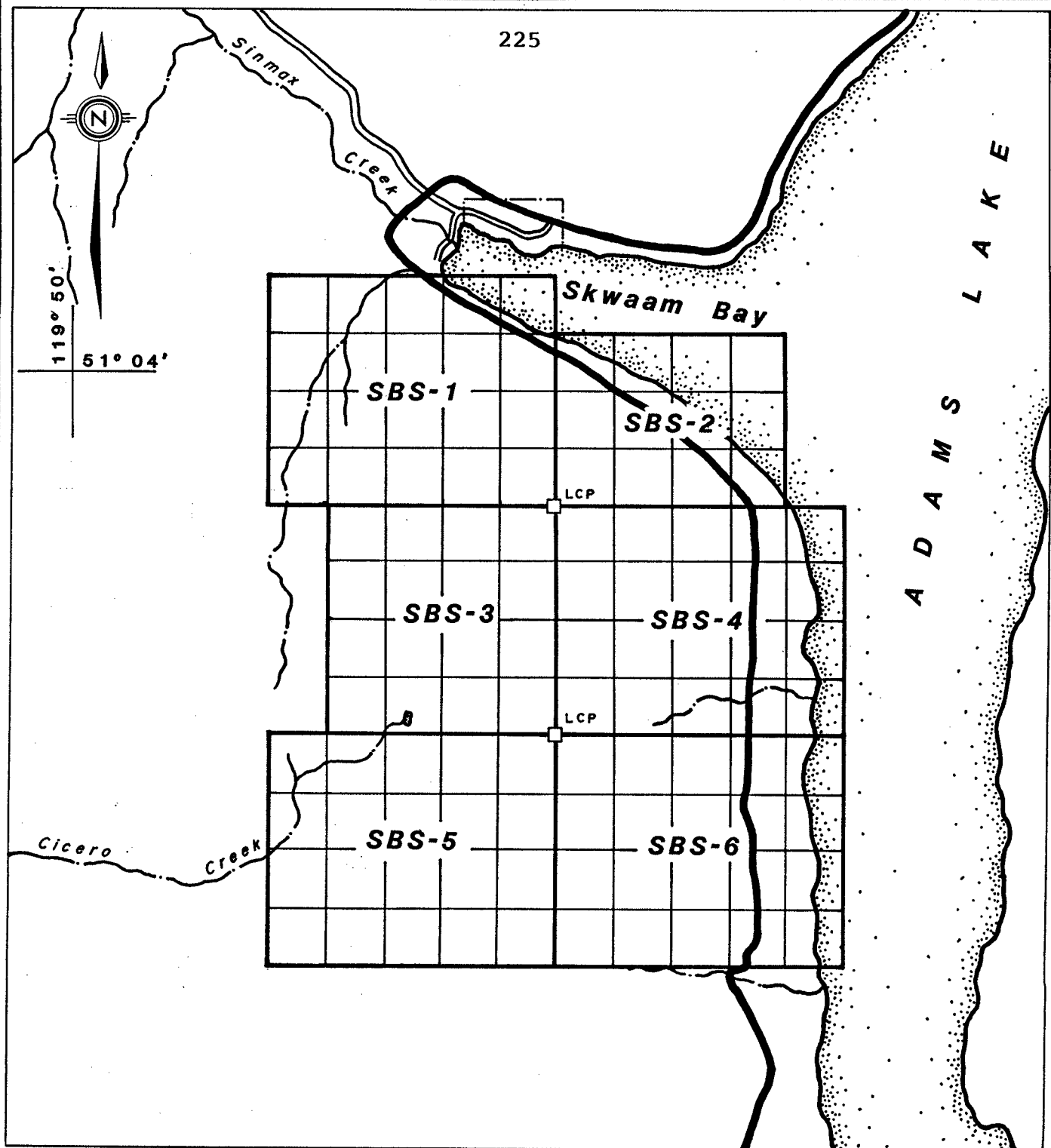
Property and Ownership

Figure 2 shows the configuration of the SBS claims. Table 1 summarizes the pertinent claim data. All claims are 100% owned by Minnova Inc. (Corporation Falconbridge Copper).



- LOCATION MAP -
- SBS CLAIMS -

FIGURE 1



NTS 82M/4W

SBS PROPERTY

CLAIM CONFIGURATION



CORPORATION FALCONBRIDGE COPPER

Table 1

<u>Name</u>	<u>Record #</u>	<u>Units</u>	<u>Month</u>
SBS-1	6593	20	April
SBS-2	6594	12	April
SBS-3	6595	16	April
SBS-4	6596	20	April
SBS-5	6597	20	April
SBS-6	6598	20	April

History

The SBS claims were staked in April 1986 to cover favourable stratigraphy on strike from the Homestake barite-silver deposit. Previous exploration is restricted to a soil survey carried out by Craigmont Mines in 1977 (Vollo 1977).

Summary of Work Done

Geochemical.	10 man-days sampling 146 rock samples	pace and compass traversing of roads on the property. Analysis for Cu, Pb, Zn, Ag, Au, SiO ₂ , TiO ₂ , CaO, MgO, Na ₂ O, K ₂ O, Fe ₂ O ₃ , Al ₂ O ₃ , MnO, Zr, Ba.
Geology	10 man-days	pace and compass mapping of roads. General geological mapping and prospecting.

GEOLOGY

Regional Setting

The area in question is underlain by volcanic and sedimentary rocks of the Lake Devonian to Early Mississippian Eagle Bay Formation (Preto 1979, 1980, 1984). This can be correlated with other semi-continuous terrains in an assemblage of Upper Paleozoic rocks marking a transition from Devonian or

older platformal sedimentary rocks to marine volcano-sedimentary strata (Monger 1985, 1977).

Structurally the area sits immediately southwest of the Shuswap Metamorphic complex. Extensive folding and faulting is evident and the rocks show a strong penetrative foliation. Except in areas immediately adjacent to the Shuswap Complex metamorphic grade is sub-greenschist facies.

Numerous mineral occurrences are scattered throughout the area (Preto 1984). Most notable are the Kamad Silver Homestake deposit (Ag-Ba) and Minnova's recently discovered Samatosum Deposit (Ag, Pb, Zn, Cu, Au).

Property Geology

Only a very cursory examination of the geology was undertaken during this phase of exploration, the geologist concentrating on mapping in the roads, identifying sample locations, taking basic structural data and generally prospecting. However, an overall picture of the geology of the property was obtained (Map 1).

The property is underlain by strongly deformed rocks which, at this stage, can only be described as schists. These grade from chloritic schists to chlorite-sericite schists and through to quartz-sericite schists. They are believed to be derived from a volcano-sedimentary package which has been strongly altered and subsequently deformed. Quartz veining and silica flooding are pervasive.

Rock identification is further hindered by a strong weathering profile facilitated by the schistose, and hence pervious, nature of the outcrops. Original sulphides are generally oxidized to limonite and hematite, carbonate bearing units exhibit a deep orange weathered rind.

Overall two major subdivisions can be made at this time. The north and east slopes of the property are underlain by rocks which are intermediate to felsic in composition while the southwest corner hosts rocks of more mafic composition. Almost all outcrops are well foliated with a general trend of around 130° dipping $30-50^{\circ}$ to the northeast, which is consistent with known trends in the Adams Lake area. Local variations abound and suggest a fairly complex structural pattern. No direct indications of bedding were seen but the trend of the mafic to intermediate/felsic break is consistent with a $130-150^{\circ}$ strike.

Most outcrops samples were estimated to contain from 1 to 5% disseminated pyrite. In two places (area of samples 029 and 6010) trace amounts of galena were noted. In another two places (near 030, 033) malachite was present. Also noted were four areas where particularly strong quartz stockwork was present. Three of these (around samples 6016, 6054 and 6041) are in the same general area near the creek draining the northwest corner of the property which may indicate the presence of faulting.

LITHOGEOCHEMISTRY

A total of 146 rock samples were taken from roads on the property. Where possible a sample spacing of 200m was maintained. Samples were of fresh rock representative of the outcrop from which they were taken, weighed 1 1/2 to 2 lbs and were analyzed for Cu, Pb, Zn, Ag, Au, SiO₂, TiO₂, Al₂O₃, CaO, MgO, Na₂O, K₂O, Fe₂O₃, MnO, Zr and Ba.

All samples were analyzed at Min-En Labs in North Vancouver. All major and minor elements plus Pb were analyzed by ICP using a fused pellet and standard digestion procedures. Cu, Zn, Ag and Au were determined by aqua regia digestion with an AA finish. Although not physically determined, loss on ignition can be estimate from the totals given (Appendix 1).

The normal procedure for analysing the results of the litho sampling (breaking down by rock type and examining statistics) could not be used in this case since, with the exception of samples 6025 - 6030 inclusive, which were positively identified as basaltic rocks, all rocks were classified as sericite +/- chlorite +/- quartz schists. Further more detailed mapping will undoubtedly enable a more precise breakdown to be made, but for now they have all been lumped together for statistical purposes.

Table 2 provides summary statistics.

Map 1 shows samples locations while Maps 2-6 show the data for the various elements. In each case symbols are used to highlight data considered "anomalous", or at least of interest. Maps will be described separately.

Ba, Cu, Pb, Zn (Maps 2)

These elements are the direct pathfinders for base metal-barite massive sulphide deposits believed to occur in this area.

TABLE 2
SBS LITHOGEOCHEMISTRY
SUMMARY STATISTICS
(146 SAMPLES)

<u>Element</u>	<u>Mean</u>	<u>Range</u>	<u>Stan. Dev.</u>	<u>Population Type</u>	<u>Comments</u>
Cu (ppm)	94	8-1960	NA	strong +ve skew	Main pop. is less than 60
Pb (ppm)	90	50-650	NA	strong +ve skew	> 240 is high based on pop. shape
Zn (ppm)	78	10-1040	NA	+ve skew	> 100 is high based on pop. shape
Au (ppb)	7	3 -45	4.9	fairly normal	> 16.8 is statistically anomalous
Ag (ppm)	0.49	0.1 - 3.7	NA	+ve skew	> 1.0 is high based on pop. shape
Ba (ppm)	920	50-2450	400	fairly normal	> 1720 is statistically anomalous
SiO ₂ (%)	65.7	39.4-86.8	7.0	dual population	basalt mode = 51.25; other mode = 68.75
TiO ₂ (%)	0.55	0.07-2.44	NA	+ve skew	anomalous 'tail' > 1.0
CaO (%)	2.73	0.03-19.54	NA	strong +ve skew	main pop. is < 5%
MgO (%)	1.84	0.17-10.97	NA	strong +ve skew	> 2.25% is high based on pop. shape
Na ₂ O (%)	2.89	0.05-9.44	NA	overlapping populations?	> 6 and < 2 should be examined
K ₂ O (%)	2.96	0.12-7.08	1.19	fairly normal	> 5.34 statistically anomalous
Fe ₂ O ₃ * (%)	5.81	1.92-20.32	NA	multi modal	broad undefined population
MnO ₂ (%)	0.25	0.03-1.42	NA	+ve skew	> 0.325 anomalous pop. 'tail'
Al ₂ O ₃ (%)	15.3	2.09-24.04	2.5	fairly normal	< 10.3 and > 20.3 are statistically anomalous
Zr (%)	0.017	0.005-0.032	0.006	fairly normal	no real trends

* Fe₂O₃ as Total Iron

A significant number of anomalies in all four elements are apparent in this area. There is also a distinct concentration of anomalies along a NW-SE trend through the centre of the property.

Au, Ag (Map 3)

These elements are of interest as pathfinders for massive sulphide deposits and for straight precious metal deposits.

Although neither gold nor silver show particularly high values, they do reveal a scattering of above background data points through the central and northern parts of the area.

SiO₂, TiO₂, CaO, MgO (Map 4)

These elements are generally lithology related and provide backup to geological data.

Samples showing combined anomalies in all four elements or in some combination of three of them are probably basaltic in origin. Note that those samples (6025-6030) in the southwestern corner of the property originally identified as basaltic are confirmed. Other such anomalies may be thin flows or dykes of mafic composition.

Other anomalies are less easily explain. Of particular note however, are numerous MgO only anomalies in the centre of the area. These probably indicate a chloritic alteration which may be related to hydrothermal activity and hence to ore forming systems.

Na₂O, K₂O (Map 5)

These alkalis are quite mobile in hydrothermal systems and thus are popular alteration indicators.

Again a reasonable number of anomalies highlight the central portion of the property and generally confirm the trace metal and MgO trends.

Fe₂O₃ (total iron), MnO₂, Al₂O₃ (Map 6)

Iron and Manganese trends are in large part lithologically controlled but can also be indicative of overall sulphide content of the rocks. Alumina is somewhat unpredictable, but can be useful in distinguishing cherty sediments from felsic volcanics.

The non-basaltic high total iron samples generally follow the pattern of the trace metals suggesting a sulphide source. A belt of high MnO₂ along Skwaam Bay and of high Al₂O₃ through the centre of the property are unexplained at this time.

Zr (not plotted)

The zircon values obtained were consistently very low and trendless and therefore were not considered suitable for plotting.

CONCLUSIONS AND RECOMMENDATIONS

The cursory geological examination described herein together with the lithogeochemical data obtained suggest that the property is underlain by a complex sequence of volcanics and sediments which have been altered by hydrothermal activity and strongly deformed. The resultant is a series of sericite +/- chlorite +/- quartz schists which trend roughly NW-SE and dip to the NE.

Given the 'noisy' or 'active' lithogeochemical data and the fact that the Homestake and Samatosum precious metal-rich sulphide deposits lie along trend and within 10km to the NW, the property definitely warrants further attention.

Some further reconnaissance work could be done in the form of stream sediment sampling from the main drainages and chain and compass tranverses, particularly at the south end of the property. However, the northeast slope of the hill shows sufficiently encouraging signs to initiate linecutting, detailed geological mapping, sampling and geophysics regardless of this.

I strongly recommend continued funding for this project.

BIBLIOGRAPHY

Monger, J. W. H. (1977): Upper Paleozoic Rocks of the Western Canadian Cordillera and Their Bearing on Cordilleran Evolution.

CJES Vol. 14, pp. 1832 - 1859

Preto, V.A. (1979): Barriere Lakes - Adams Plateau Area: BCMEMPR Geological Fieldwork, 1978, Paper 79-1, pp. 31-37

Preto, V. A., McLaren, G.P. and Schiarizza, P.A. (1980): Barriere Lakes - Adams Plateau Area: BCMEMPR, Geological Fieldwork, Paper 80-1, pp. 28-48

Preto, V.A. and Schiarizza, P.A. (1984): Geology of the Adams Plateau - Clearwater Area; BCMEMPR Prelim. Map 56.

Vollo, N.B. (1977): Soil Survey of the CI Claims, AR 6890.

ITEMIZED COST STATEMENT

GEOLOGY

L. Knuckey	7 days @ \$200	1,400
K. Ackhurst	3 days @ \$250	750

GEOCHEM

146 rock samples (WR + Ag, Au, Cu, Pb, Zn)		3,107
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Sampling

J. Corrigan	7 days @ \$100	700
M. Clayton	3 days @ \$100	300

SUPERVISION

L. D. Pirie 1 day \$ \$350		350
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TRUCK 10 days @ \$50		500
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FOOD & ACCOMMODATION 20 mandays @ \$35/day		700
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INTERP. COMPUTER AND REPORT WRITING

L. D. Pirie 3 days @ \$350		1,050
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DRAFTING

S. Gokool	4 days @ \$120	480
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MISCELLANEOUS

(flagging, samples bags, supplies etc.)		<u>250</u>
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TOTAL		\$9,587
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Certificate of Qualifications

I, Ian D. Pirie certify that:

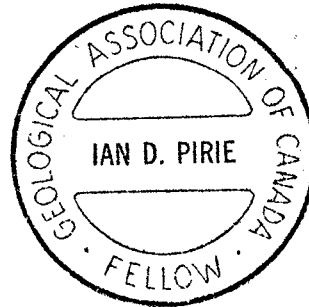
1. I am an Exploration Geologist residing at 4580 - 44B Avenue, Delta B. C.
2. I have a BSc (Hons.) in Applied Geology from the University of Strathclyde, Glasgow, Scotland (1977) and a MSc (Geology/Geochemistry) from Queen's University at Kingston, Ontario (1980).
3. I have practised my profession since 1977.
4. I personally carried out or supervised the work reported herein.

2/7/87

Date



Ian D. Pirie



Geologists working on this project were:

I. Knuckey

- 1987 graduate of McMaster University (BSc Geology)
(was between 3rd/4th years during employment)
- Ulster Street, Oakville, Ontario. (phone 416-827-7054)

K. Akhurst

- 1984 graduate of UBC (Bsc Geology)
- 1032 Lillooet Road, North Vancouver (phone 984-7639)

I supervised the above mentioned geologists during their employment with Corporation Falconbridge Copper (now Minnova Inc.) and found their work to be adequate and commensurate with their qualifications and experience.



Ian D. Pirie
Senior Exploration Geologist



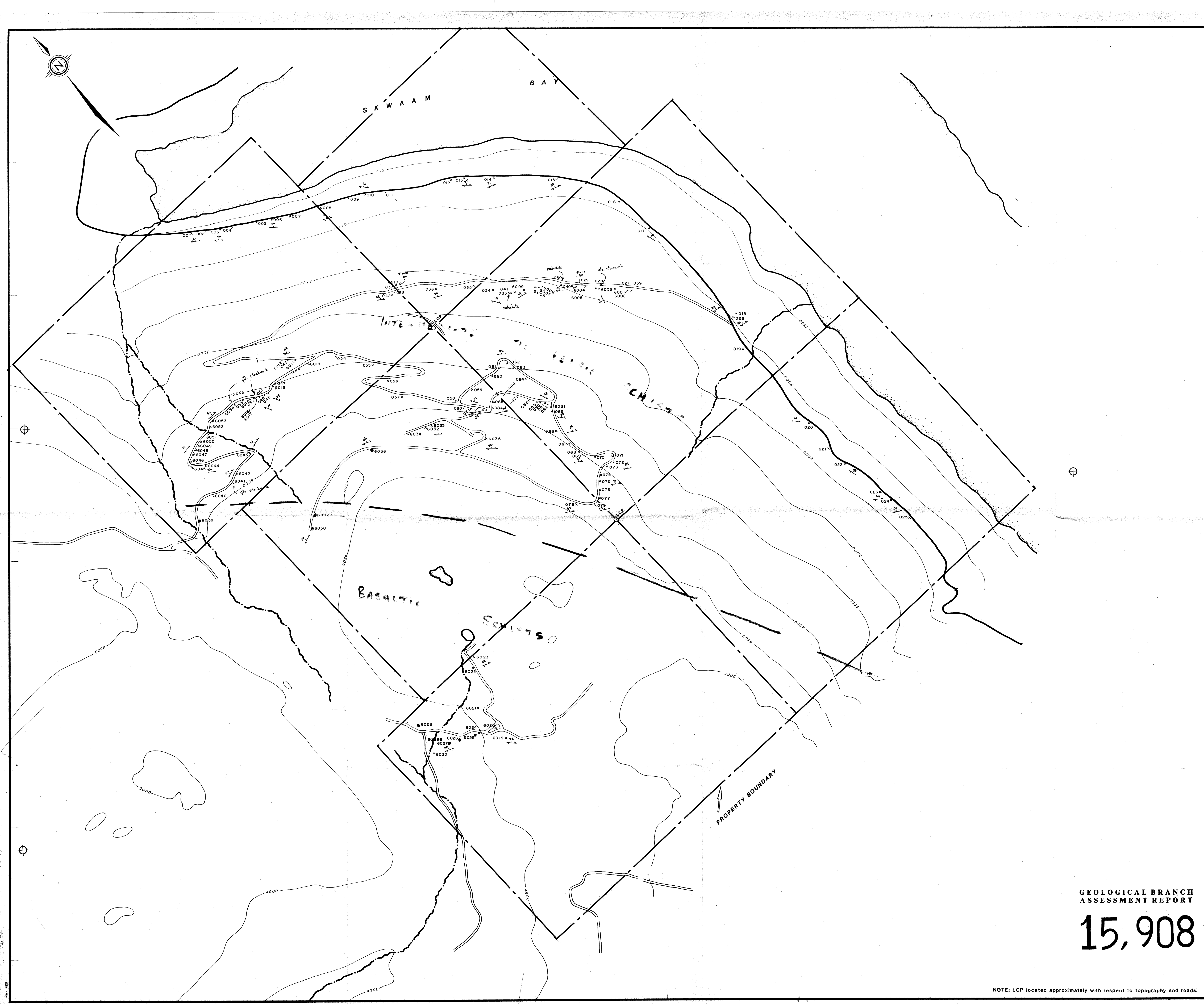
APPENDIX I

Geochem Analytic Data Listing

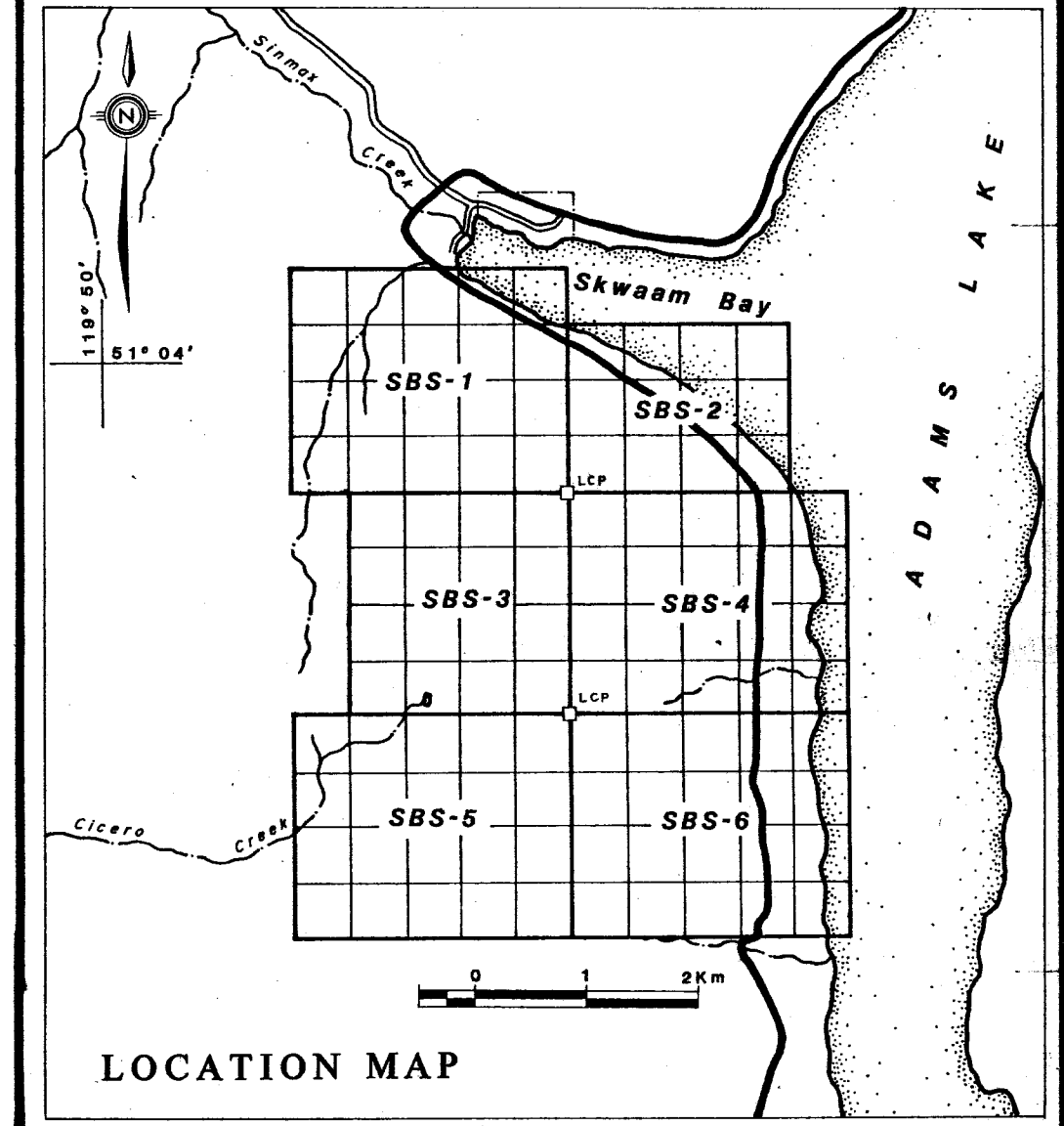
SAMPLE NO.	AL2O3	BA	CAO	FE2O3	K2O	MGO	MNO2	NA2O	PB	SI02	TIO2	ZR	TOT	CU	ZN	AU	AG
SBS-001	14.2	0.07	1.63	2.44	2.33	0.91	0.14	4.81	0.005	71.38	0.32	0.022	98.25	21.	42.	5.	0.3
SBS-002	11.19	0.05	5.17	1.93	2.82	1.14	0.28	2.39	0.005	73.1	0.3	0.012	98.37	20.	40.	10.	0.3
SBS-003	14.55	0.068	2.66	4.46	2.77	1.89	0.19	4.01	0.005	67.17	0.49	0.018	98.27	21.	46.	18.	0.5
SBS-004	13.47	0.042	3.73	3.16	2.35	2.92	0.63	3.83	0.005	67.64	0.47	0.02	98.26	12.	60.	10.	0.6
SBS-005	12.21	0.055	3.17	4.7	2.1	1.28	0.53	3.31	0.009	70.58	0.34	0.02	98.3	14.	44.	20.	0.6
SBS-006	15.8	0.104	1.12	6.07	2.63	1.09	0.18	4.92	0.006	65.58	0.65	0.022	98.18	29.	58.	5.	0.5
SBS-007	14.44	0.08	2.46	3.71	2.14	0.49	0.16	5.02	0.005	69.33	0.41	0.023	98.26	20.	40.	10.	0.3
SBS-008	16.59	0.108	2.24	5.11	3.14	1.55	0.19	3.92	0.005	64.85	0.57	0.019	98.29	24.	43.	5.	0.4
SBS-009	14.52	0.102	1.71	4.46	2.99	1.14	0.21	3.56	0.007	68.76	0.43	0.02	97.91	1960.	88.	15.	1.6
SBS-010	16.02	0.104	1.56	9.38	4.5	2.12	0.58	1.42	0.024	61.54	0.85	0.011	98.11	64.	240.	10.	0.3
SBS-011	14.28	0.102	4.2	4.07	3.45	0.73	0.5	2.46	0.006	67.94	0.37	0.016	98.13	28.	64.	10.	0.6
SBS-012	13.45	0.143	1.79	3.9	5.15	0.94	0.67	0.12	0.009	71.98	0.26	0.007	98.43	34.	76.	10.	0.2
SBS-013	15.73	0.041	4.16	7.46	2.98	1.38	0.27	2.99	0.005	62.46	0.75	0.014	98.24	50.	156.	5.	0.5
SBS-014	17.09	0.083	0.22	6.83	3.41	2.15	0.1	2.58	0.012	64.72	0.88	0.021	98.11	36.	52.	5.	0.4
SBS-015	16.64	0.042	1.32	7.41	5.32	1.4	1.21	0.32	0.018	63.49	0.79	0.023	97.99	24.	25.	5.	0.3
SBS-016	13.28	0.05	0.41	3.33	3.21	0.77	0.2	2.33	0.005	74.56	0.3	0.014	98.45	120.	36.	5.	0.2
SBS-017	16.36	0.061	1.64	5.46	2.24	1.41	0.13	5.08	0.005	65.05	0.64	0.019	98.1	12.	60.	10.	0.3
SBS-018	15.08	0.053	3.27	5.97	2.82	0.63	0.23	3.87	0.005	65.65	0.59	0.018	98.18	80.	48.	5.	0.6
SBS-019	15.06	0.077	1.3	5.32	4.38	1.39	0.61	1.11	0.005	68.55	0.47	0.019	98.28	8.	33.	5.	0.3
SBS-020	15.15	0.091	0.95	4.12	3.84	0.7	0.13	2.61	0.005	70.39	0.34	0.01	98.32	28.	24.	45.	0.2
SBS-021	16.92	0.136	0.81	4.1	4.57	0.59	0.13	2.27	0.005	68.4	0.41	0.015	98.35	64.	152.	45.	0.2
SBS-022	15.71	0.119	2.11	4.03	4.16	0.62	0.32	2.66	0.005	68.04	0.42	0.015	98.2	16.	312.	5.	0.2
SBS-023	15.85	0.095	1.31	3.53	3.89	0.9	0.1	3.59	0.005	68.66	0.4	0.012	98.33	16.	20.	5.	0.3
SBS-024	15.27	0.077	2.67	4.02	3.27	1.02	0.24	3.11	0.005	68.39	0.41	0.011	98.48	32.	28.	3.	0.4
SBS-025	14.84	0.095	1.32	3.7	3.33	0.8	0.11	3.83	0.005	69.8	0.39	0.012	98.24	48.	24.	10.	0.4
SBS-026	16.38	0.066	1.94	5.57	2.87	1.62	0.26	4.16	0.005	64.76	0.75	0.018	98.39	76.	48.	5.	0.3
SBS-027	14.93	0.071	0.72	4.13	2.49	0.46	0.13	4.67	0.005	70.38	0.36	0.016	98.35	144.	48.	5.	0.5
SBS-028	18.38	0.115	2.08	7.14	4.37	2.37	0.22	2.63	0.005	60.05	0.82	0.015	98.19	17.	24.	5.	0.4
SBS-029	15.04	0.084	2.04	5.49	3.18	0.92	0.21	3.79	0.005	67.03	0.55	0.018	98.35	8.	50.	5.	0.5
SBS-030	14.17	0.067	0.96	11.55	1.75	3.67	0.46	2.38	0.005	61.54	0.78	0.014	97.35	1000.	168.	10.	1.1
SBS-031	16.77	0.081	2.71	6.99	1.96	2.16	0.28	4.58	0.005	61.88	0.83	0.018	98.24	18.	51.	10.	0.5
SBS-032	13.	0.096	3.52	7.62	2.78	2.1	0.55	1.04	0.005	66.69	0.62	0.015	98.04	156.	92.	20.	0.4
SBS-033	15.	0.073	3.05	10.37	2.1	2.11	0.41	2.4	0.005	61.8	0.65	0.015	97.99	1600.	110.	5.	2.1
SBS-034	17.61	0.11	0.16	5.07	3.26	1.36	0.09	3.14	0.005	66.85	0.5	0.021	98.17	80.	54.	5.	0.5
SBS-035	18.56	0.219	1.53	9.47	4.85	1.4	0.23	1.13	0.005	59.85	0.79	0.009	98.03	157.	424.	10.	0.9
SBS-036	13.77	0.089	4.53	4.93	2.76	0.6	0.33	2.81	0.005	68.1	0.31	0.019	98.26	21.	28.	5.	0.4
SBS-037	18.99	0.243	2.15	6.47	4.54	1.12	0.24	2.55	0.005	60.66	0.94	0.018	97.92	40.	33.	5.	0.3
SBS-038	15.37	0.099	1.52	3.66	2.82	1.41	0.24	3.72	0.008	69.09	0.38	0.018	98.34	36.	38.	10.	0.4
SBS-039	17.33	0.108	1.12	4.75	3.14	0.56	0.18	5.07	0.005	65.37	0.49	0.021	98.12	49.	18.	15.	0.5
SBS-040	17.64	0.117	0.35	9.3	2.67	1.96	0.18	3.08	0.018	62.01	0.72	0.016	98.06	480.	82.	5.	0.6
SBS-041	16.62	0.069	1.18	10.37	2.72	1.82	0.38	2.04	0.017	62.09	0.8	0.014	98.1	80.	83.	10.	0.5
SBS-042	15.25	0.081	14.33	6.34	1.98	5.61	1.42	5.15	0.03	47.73	0.29	0.03	98.23	8.	22.	5.	0.9
SBS-043	15.81	0.097	4.38	5.69	2.25	1.8	0.26	4.5	0.016	62.7	0.57	0.02	98.1	30.	40.	10.	0.5
SBS-044	15.24	0.096	2.21	4.09	2.12	1.24	0.15	4.99	0.009	67.58	0.39	0.027	98.14	41.	20.	10.	0.3
SBS-045	17.6	0.131	1.18	5.57	2.36	1.38	0.15	4.19	0.016	64.7	0.75	0.018	98.04	28.	33.	10.	0.3
SBS-046	14.27	0.081	1.48	8.53	2.91	1.42	0.08	2.01	0.005	66.88	0.64	0.018	98.31	800.	121.	5.	1.
SBS-047	19.82	0.163	0.27	3.78	5.07	0.44	0.19	0.34	0.005	67.13	0.86	0.025	98.08	30.	22.	5.	0.2
SBS-048	15.44	0.123	2.88	4.44	3.12	1.39	0.18	2.98	0.005	67.38	0.41	0.027	98.36	72.	30.	5.	0.3
SBS-049	14.16	0.093	3.89	4.77	3.42	1.31	0.23	0.91	0.005	69.18	0.38	0.014	98.37	26.	31.	5.	0.4
SBS-050	15.82	0.065	3.41	6.56	1.77	1.62	0.19	5.82	0.005	63.01	0.68	0.017	98.17	8.	40.	5.	0.4
SBS-051	10.43	0.042	9.08	5.9	1.59	3.82	0.23	2.92	0.005	64.18	0.23	0.01	98.42	10.	243.	3.	0.7
SBS-052	14.88	0.152	0.09	3.42	4.04	0.75	0.03	2.24	0.005	72.39	0.32	0.019	98.32	9.	22.	5.	0.2
SBS-053	15.	0.108	0.6	3.32	2.29	0.36	0.07	4.68	0.005	71.88	0.31	0.023	98.65	8.	12.	10.	0.2
SBS-054	15.1	0.086	2.58	20.32	2.52	4.85	0.29	1.68	0.065	49.05	0.51	0.02	97.07	236.	148.	10.	3.7
SBS-055	16.11	0.114	1.63	6.34	2.93	1.48	0.19	3.51	0.005	65.17	0.75	0.021	98.25	42.	44.	5.	0.3
SBS-056	13.95	0.104	2.9	2.29	3.1	0.82	0.15	4.07	0.005	70.81	0.24	0.017	98.44	12.	14.	5.	0.4
SBS-057	17.	0.156	1.77	5.76	3.91	2.29	0.18	2.72	0.005	63.82	0.68	0.012	98.3	19.	45.	5.	0.4
SBS-058	14.96	0.09	0.19	8.14	2.77	4.74	0.21	1.08	0.014	65.3	0.65	0.021	98.16	28.	124.	5.	0.6
SBS-059	16.57	0.082	2.76	8.34	2.85	4.04	0.32	2.79	0.005	59.55	0.8	0.013	98.11	60.	72.	5.	0.6
SBS-060	18.51	0.073	0.93	4.36	4.03	2.23	0.2	2.83	0.005	64.2	0.76	0.021	98.14	8.	73.	5.	0.5

SAMPLE NO.	AL2O3	BA	CAO	FE2O3	K2O	MGO	MNO2	NA2O	PB	SI02	TIO2	ZR	TOT	CU	ZH	AU	AG
SBS-061	18.43	0.088	0.23	6.84	3.62	2.24	0.22	1.27	0.027	64.44	0.78	0.026	98.21	120.	214.	5.	0.5
SBS-062	17.54	0.092	2.52	6.03	2.97	3.33	0.27	2.3	0.03	62.53	0.66	0.02	98.3	14.	123.	10.	0.5
SBS-063	14.82	0.089	1.28	4.08	2.42	1.79	0.39	3.3	0.018	69.84	0.33	0.023	98.36	110.	110.	5.	0.6
SBS-064	20.16	0.125	0.32	8.7	4.94	3.18	0.15	1.6	0.024	57.98	0.84	0.018	98.03	33.	103.	10.	0.7
SBS-065	14.96	0.075	5.59	5.08	1.93	2.02	0.24	3.09	0.017	64.55	0.53	0.019	98.11	28.	52.	5.	0.5
SBS-066	16.73	0.077	3.37	7.26	2.62	2.11	0.16	3.38	0.029	61.75	0.65	0.016	98.16	20.	60.	5.	0.4
SBS-067	18.86	0.099	0.61	7.98	3.94	3.02	0.25	1.11	0.015	61.67	0.78	0.015	98.35	30.	120.	5.	0.6
SBS-068	15.67	0.131	0.73	3.24	4.04	0.71	0.08	1.88	0.01	71.45	0.32	0.019	98.28	8.	70.	10.	0.2
SBS-069	17.14	0.083	0.18	6.29	3.54	2.43	0.19	1.61	0.02	66.13	0.67	0.016	98.3	21.	123.	5.	0.3
SBS-070	16.84	0.116	0.27	5.9	3.22	0.82	0.25	2.27	0.028	67.88	0.52	0.02	98.13	48.	92.	10.	0.3
SBS-071	15.06	0.079	0.95	2.13	3.55	0.55	0.12	1.73	0.005	74.03	0.17	0.005	98.37	12.	20.	5.	0.2
SBS-072	15.66	0.075	3.57	6.45	4.38	2.25	0.44	0.09	0.005	64.81	0.58	0.013	98.32	16.	60.	5.	0.5
SBS-073	18.38	0.114	0.28	7.73	3.65	1.64	0.17	1.85	0.015	63.49	0.8	0.016	98.12	640.	69.	10.	0.9
SBS-074	16.87	0.16	0.72	4.02	2.88	1.24	0.11	3.88	0.011	67.99	0.41	0.032	98.31	33.	34.	10.	0.2
SBS-075	15.38	0.06	2.27	3.53	0.95	1.35	0.08	5.66	0.025	68.4	0.37	0.028	98.13	100.	18.	5.	0.4
SBS-076	15.4	0.1	0.95	3.86	2.53	1.26	0.1	3.64	0.015	70.27	0.32	0.021	98.48	34.	25.	5.	0.3
SBS-077	15.28	0.099	2.52	4.52	3.03	0.61	0.22	3.06	0.022	68.44	0.42	0.02	98.25	32.	16.	10.	0.3
SBS-078	15.6	0.152	0.68	2.72	3.	0.54	0.12	3.3	0.016	71.88	0.27	0.019	98.29	8.	10.	5.	0.2
SBS-079	15.41	0.132	3.05	4.3	3.29	0.92	0.17	2.88	0.009	67.74	0.37	0.024	98.29	20.	30.	5.	0.4
SBS-080	16.37	0.135	1.22	4.24	2.98	2.18	0.11	3.11	0.008	67.49	0.5	0.022	98.37	63.	44.	5.	0.3
SBS-081	17.3	0.078	2.2	12.27	2.88	3.06	0.34	2.04	0.041	56.76	0.71	0.012	97.69	160.	575.	10.	1.4
SBS-082	15.59	0.185	0.92	4.2	4.19	0.64	0.07	3.66	0.013	68.61	0.35	0.022	98.44	8.	24.	5.	0.3
SBS-083	18.6	0.077	2.01	6.42	3.11	2.78	0.17	2.11	0.029	62.29	0.63	0.011	98.25	14.	98.	5.	0.2
SBS-084	14.64	0.117	0.31	9.91	2.68	2.11	0.04	1.54	0.005	66.11	0.62	0.015	98.11	840.	71.	5.	0.7
SBS-085	16.06	0.095	0.1	7.63	2.18	0.58	0.22	2.95	0.005	67.78	0.64	0.016	98.26	12.	68.	5.	0.3
SBS-086	16.65	0.111	2.5	6.87	2.87	1.57	0.13	3.97	0.021	62.74	0.56	0.019	98.02	16.	31.	10.	0.6
SBS-087	14.93	0.127	3.39	4.98	3.12	1.13	0.24	1.87	0.015	67.98	0.42	0.019	98.22	24.	51.	5.	0.3
SBS-088	16.79	0.146	2.3	6.8	3.7	1.43	0.16	2.56	0.026	63.54	0.78	0.016	98.23	8.	50.	10.	0.3
SBS-089	16.31	0.117	0.84	4.09	2.84	0.75	0.04	3.98	0.024	69.11	0.34	0.023	98.46	10.	20.	5.	0.1
SBS-090	16.64	0.055	4.04	7.84	1.54	1.6	0.24	3.93	0.015	61.48	0.68	0.012	98.07	39.	53.	5.	0.5
SBS-091	14.74	0.093	2.42	3.01	3.87	1.28	0.16	2.	0.005	70.23	0.33	0.02	98.15	16.	15.	5.	0.3
SBS-092	15.97	0.091	2.45	6.27	3.01	1.6	0.27	2.16	0.006	65.81	0.57	0.018	98.21	9.	64.	20.	0.5
SBS-6001	16.88	0.129	0.61	4.2	3.94	0.65	0.13	3.52	0.005	67.7	0.42	0.021	98.2	310.	47.	5.	0.4
SBS-6002	11.3	0.05	0.5	2.41	1.74	0.35	0.08	3.79	0.005	77.97	0.27	0.011	98.47	104.	24.	5.	0.5
SBS-6003	18.76	0.033	1.77	3.7	1.1	0.45	0.15	9.44	0.005	61.79	0.48	0.024	97.69	75.	26.	30.	0.3
SBS-6004	13.49	0.08	1.6	2.69	3.63	0.55	0.14	1.84	0.005	74.03	0.25	0.005	98.3	10.	18.	5.	0.3
SBS-6005	16.32	0.098	0.73	6.92	2.44	1.43	0.21	3.97	0.005	65.35	0.61	0.021	98.1	210.	94.	5.	0.5
SBS-6006	15.93	0.045	4.51	6.81	1.18	1.9	0.42	5.38	0.005	61.22	0.78	0.012	98.18	11.	65.	10.	0.8
SBS-6007	16.44	0.057	0.83	6.03	2.51	1.1	0.31	4.03	0.005	66.23	0.64	0.021	98.19	41.	113.	5.	0.4
SBS-6008	14.5	0.076	3.41	12.62	3.03	1.06	0.9	0.78	0.005	60.98	0.63	0.015	97.99	163.	180.	5.	0.7
SBS-6009	16.89	0.067	0.33	6.97	2.41	2.11	0.25	3.86	0.005	64.53	0.77	0.019	98.21	79.	83.	5.	0.6
SBS-6010	13.7	0.125	1.87	3.56	3.	0.73	0.19	3.08	0.005	71.68	0.33	0.019	98.28	62.	35.	5.	0.4
SBS-6011	13.35	0.118	1.	1.92	2.55	0.67	0.11	4.03	0.005	74.43	0.24	0.018	98.44	9.	13.	5.	0.2
SBS-6012	15.12	0.04	0.86	2.91	1.51	0.39	0.08	5.98	0.005	71.05	0.36	0.026	98.32	33.	14.	5.	0.3
SBS-6013	14.82	0.085	1.57	4.47	1.97	1.21	0.3	4.82	0.005	68.58	0.53	0.021	98.38	27.	55.	10.	0.5
SBS-6014	15.89	0.105	0.16	4.43	4.35	0.89	0.1	0.59	0.005	71.01	0.68	0.018	98.24	530.	37.	10.	0.5
SBS-6015	24.04	0.245	14.06	10.16	7.08	0.93	0.83	0.34	0.005	39.36	0.86	0.03	97.94	14.	75.	5.	1.1
SBS-6016	5.25	0.041	19.54	6.84	1.88	8.64	0.52	0.05	0.014	51.5	0.11	0.005	94.38	13.	1040.	15.	1.3
SBS-6017	2.09	0.017	2.27	4.95	0.59	0.93	0.39	0.05	0.005	86.77	0.07	0.005	98.13	17.	630.	15.	0.4
SBS-6018	12.98	0.1	0.2	2.9	2.58	0.56	0.03	3.56	0.005	75.05	0.29	0.013	98.27	10.	34.	5.	0.2
SBS-6019	8.7	0.016	2.01	4.65	0.99	1.18	0.08	2.06	0.005	77.76	0.86	0.009	98.31	14.	31.	5.	0.6
SBS-6020	5.58	0.005	12.85	18.65	0.12	7.33	0.75	0.83	0.016	50.89	0.73	0.01	97.77	160.	23.	5.	0.5
SBS-6021	14.43	0.158	1.21	2.4	4.96	0.57	0.1	2.31	0.005	71.89	0.31	0.022	98.37	17.	36.	10.	0.4
SBS-6022	13.58	0.066	4.52	3.64	1.73	1.08	0.22	3.71	0.005	69.35	0.32	0.018	98.24	11.	39.	5.	0.6
SBS-6023	16.	0.068	0.25	4.99	1.92	1.37	0.12	4.07	0.005	68.99	0.46	0.017	98.26	10.	38.	5.	0.3
SBS-6024	13.31	0.123	2.71	5.9	2.34	3.35	0.19	2.66	0.005	66.82	0.62	0.013	98.04	34.	154.	5.	0.4
SBS-6025	12.28	0.017	14.27	10.4	0.51	6.24	0.59	1.28	0.011	50.61	1.35	0.008	97.56	12.	20.	5.	0.3
SBS-6026	14.5	0.006	15.62	8.68	0.22	5.68	0.61	1.44	0.009	50.24	0.69	0.005	97.7	10.	33.	5.	0.3
SBS-6027	13.46	0.043	17.73	9.57	1.04	7.38	0.53	0.48	0.006	45.55	1.83	0.009	97.64	80.	24.	10.	0.5
SBS-6028	10.42	0.148	12.73	7.21	2.43	10.97	0.34	0.87	0.011	52.04	0.58	0.005	97.76	39.	18.	5.	0.2

SAMPLE NO.	AL2O3	BA	CAO	FE2O3	K2O	HGO	MNO2	NA2O	PB	SI02	TIO2	ZR	TOT	CU	ZH	AU	AG
SBS-6029	15.	0.015	10.15	9.38	0.63	6.1	0.37	3.44	0.005	50.07	2.44	0.013	97.61	100.	37.	5.	0.8
SBS-6030	18.75	0.018	14.24	9.52	0.51	2.63	0.45	3.43	0.008	47.51	0.87	0.009	97.93	12.	42.	10.	0.4
SBS-6031	15.5	0.1	0.67	3.79	3.86	0.58	0.13	2.54	0.005	70.52	0.37	0.011	98.07	16.	15.	5.	0.3
SBS-6032	16.3	0.117	0.21	2.32	4.69	1.01	0.09	2.5	0.005	70.61	0.45	0.023	98.31	10.	74.	5.	0.2
SBS-6033	15.84	0.115	0.27	2.16	5.12	0.98	0.11	1.15	0.005	72.28	0.34	0.021	98.38	21.	220.	5.	0.2
SBS-6034	15.92	0.086	0.03	4.89	3.78	0.42	0.12	0.25	0.005	72.41	0.39	0.027	98.32	18.	173.	10.	0.3
SBS-6035	15.57	0.099	2.64	6.39	3.54	1.28	0.17	2.64	0.005	65.32	0.65	0.017	98.3	15.	67.	5.	0.4
SBS-6036	19.26	0.09	2.65	11.35	2.22	3.5	0.18	2.81	0.005	54.32	1.24	0.014	97.62	93.	130.	5.	0.8
SBS-6037	16.62	0.041	3.93	18.13	1.16	8.62	0.3	2.58	0.016	44.38	1.6	0.005	97.38	130.	146.	3.	1.1
SBS-6038	18.45	0.046	0.07	10.99	2.5	1.51	0.11	3.27	0.005	59.66	1.16	0.013	97.78	70.	81.	5.	1.2
SBS-6039	14.72	0.013	6.78	10.05	0.55	8.22	0.33	1.93	0.005	54.65	0.56	0.005	97.81	67.	200.	5.	1.2
SBS-6040	14.51	0.08	0.09	2.66	1.88	0.36	0.1	5.22	0.005	73.18	0.26	0.016	98.35	39.	26.	3.	0.3
SBS-6041	11.79	0.06	1.18	2.1	1.67	0.46	0.1	4.31	0.005	76.38	0.24	0.011	98.3	25.	21.	10.	0.5
SBS-6042	15.24	0.104	3.	2.87	4.1	1.32	0.15	2.77	0.005	68.39	0.35	0.021	98.31	17.	28.	5.	0.3
SBS-6043	15.23	0.098	0.09	3.26	4.17	0.91	0.14	2.33	0.005	71.7	0.34	0.017	98.29	14.	47.	5.	0.2
SBS-6044	15.76	0.129	0.5	5.89	4.64	1.01	0.21	2.19	0.005	67.42	0.46	0.016	98.22	26.	32.	10.	0.2
SBS-6045	13.75	0.097	2.34	2.85	3.39	1.11	0.21	3.12	0.005	71.22	0.26	0.02	98.36	47.	16.	5.	0.3
SBS-6046	13.63	0.13	2.49	2.61	3.81	0.84	0.09	2.28	0.005	72.13	0.28	0.021	98.32	11.	11.	10.	0.4
SBS-6047	13.62	0.086	2.61	3.17	3.59	1.28	0.15	2.44	0.005	71.12	0.3	0.019	98.38	13.	15.	5.	0.3
SBS-6048	14.9	0.056	4.27	7.14	3.61	2.4	0.46	1.18	0.005	63.67	0.46	0.017	98.18	66.	82.	5.	0.8
SBS-6049	14.37	0.118	2.35	3.01	3.35	0.87	0.08	3.06	0.005	70.74	0.31	0.021	98.28	12.	15.	3.	0.4
SBS-6050	14.77	0.104	1.32	3.85	3.73	0.67	0.14	3.01	0.005	70.35	0.34	0.025	98.31	10.	22.	5.	0.3
SBS-6051	15.07	0.144	1.03	3.51	4.54	0.47	0.07	3.48	0.005	69.61	0.32	0.022	98.27	11.	14.	5.	0.2
SBS-6052	15.37	0.112	0.82	3.88	4.76	0.79	0.09	1.42	0.005	70.58	0.45	0.015	98.27	19.	39.	5.	0.4
SBS-6053	16.97	0.021	0.03	3.21	0.5	0.17	0.06	9.19	0.005	67.82	0.4	0.026	98.4	10.	11.	5.	0.2
SBS-6054	17.3	0.188	1.04	4.09	4.93	1.05	0.05	3.02	0.005	65.12	0.36	0.028	97.17	9.	15.	10.	0.3



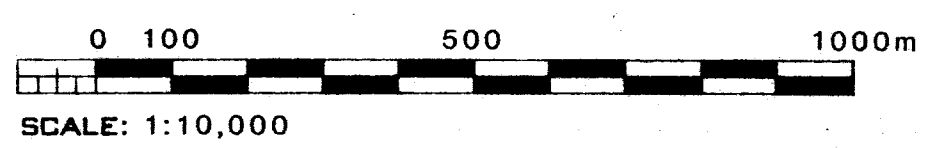
* INTERMEDIATE FELSIC SCHIST
 ● MAFIC SCHIST



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15,908

SBS PROPERTY
 Squam Bay
**GEOLOGY
 AND
 SAMPLE LOCATIONS**



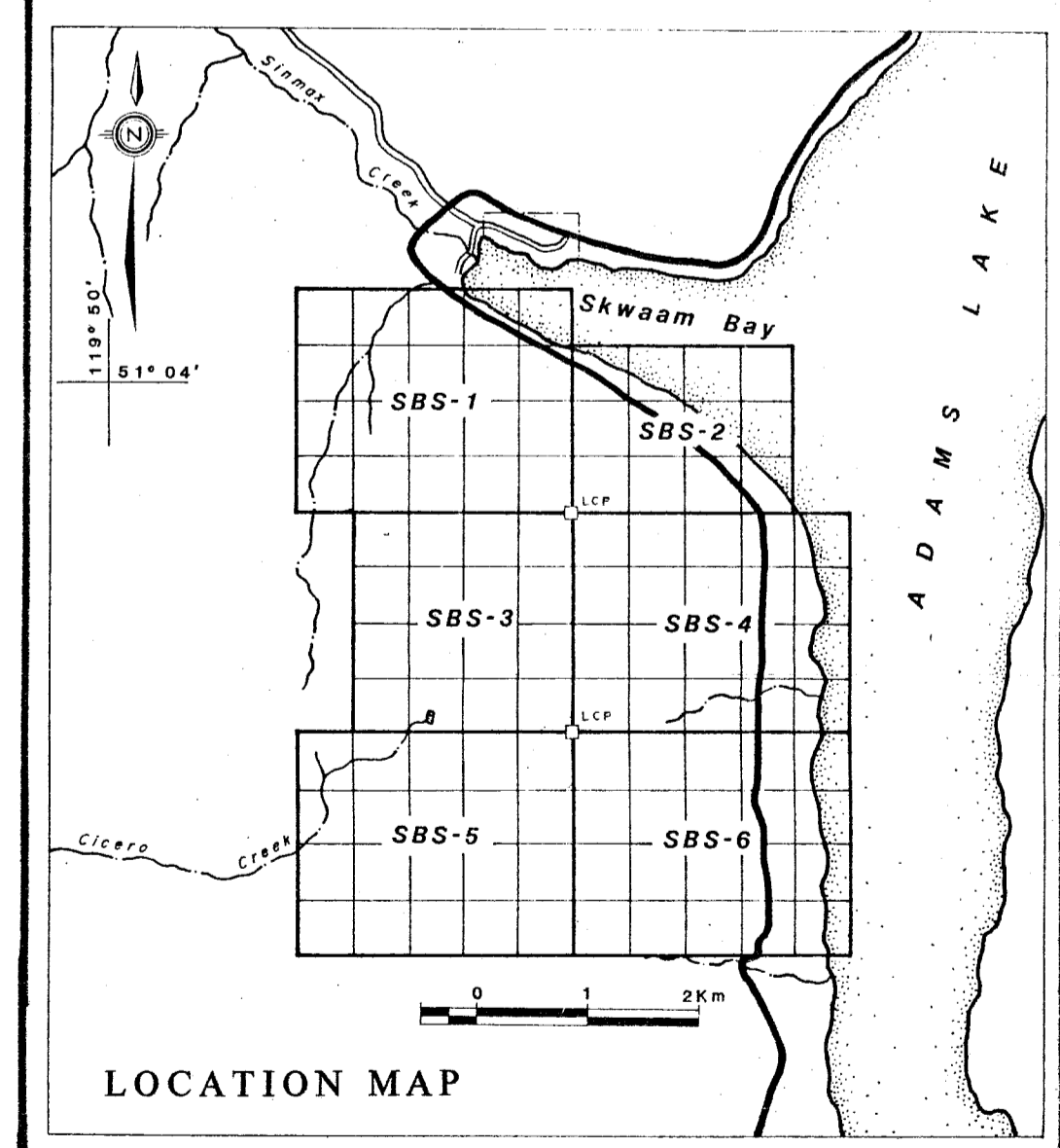
NOTE: LCP located approximately with respect to topography and roads

	DRAWN BY: IP/dm	FIG. NO.:
	DATE: APRIL 1987 N.T.S. 82M/4W	1



LEGEND

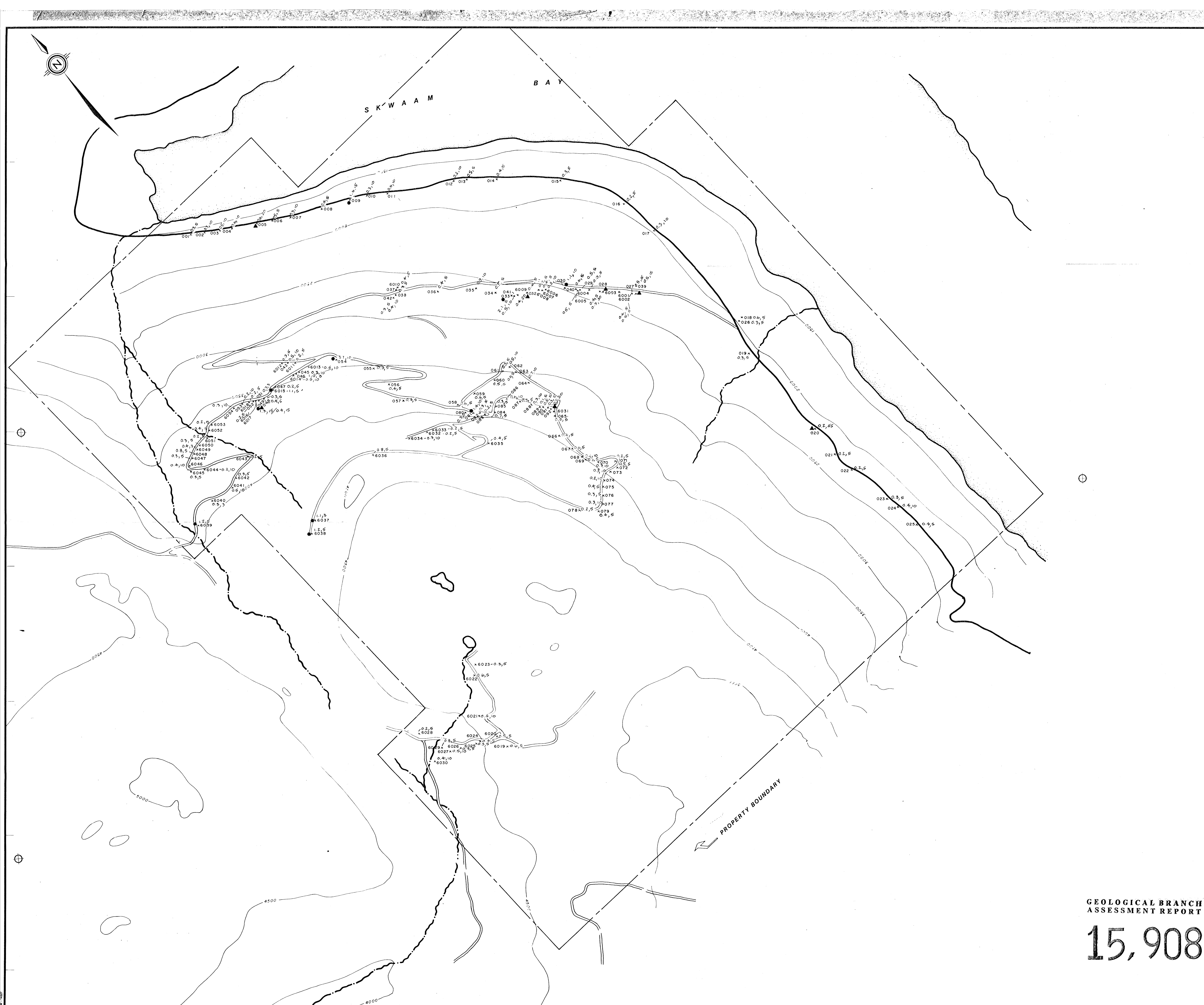
- ◆ Ba > 1700 ppm
- Cu > 100 ppm
- ▲ Pb > 240 ppm
- Zn > 100 ppm



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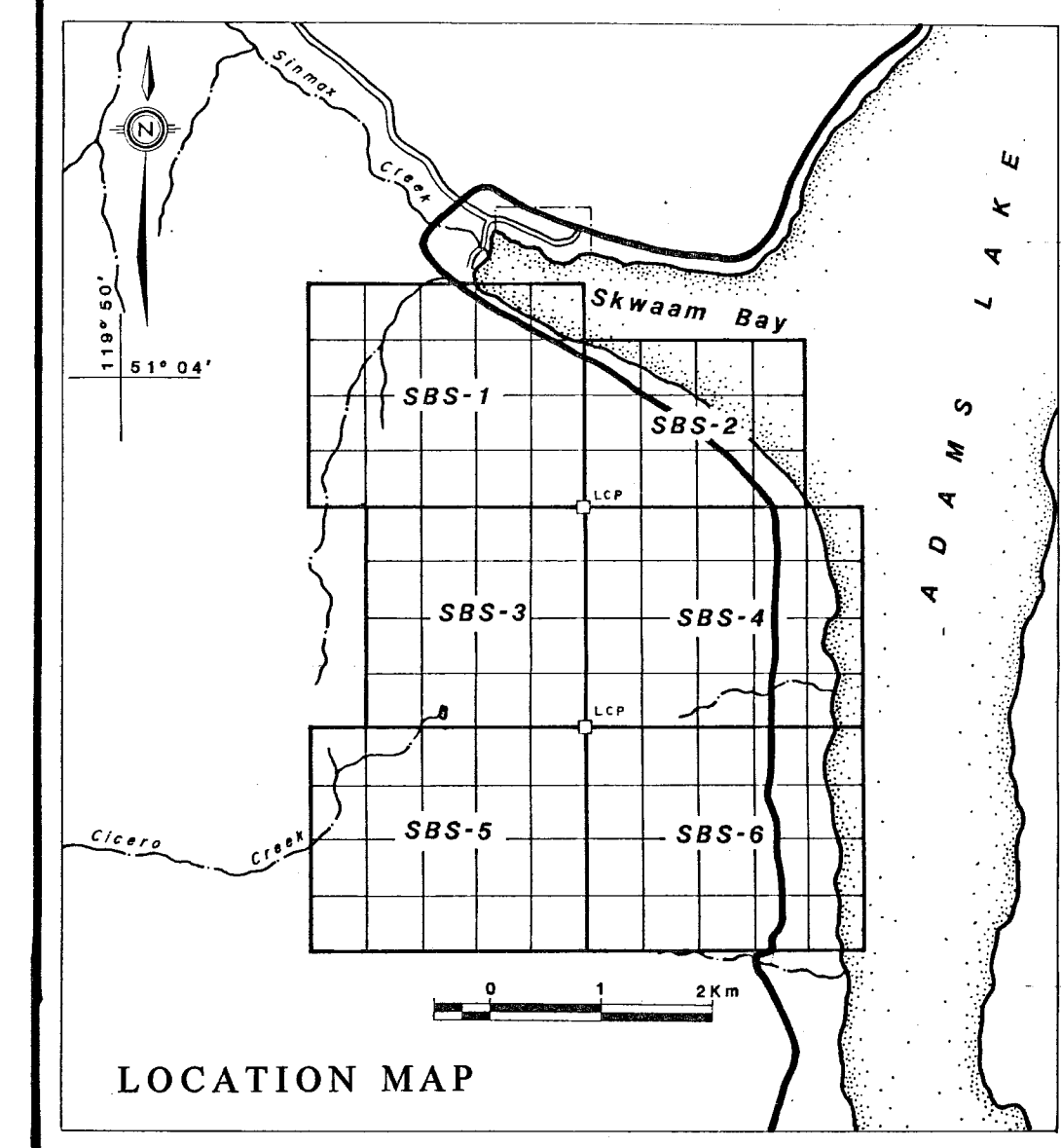
CORPORATION FALCONBRIDGE COPPER
SBS PROPERTY
Squaam Bay
LITHOGEOCHEMISTRY
Ba, Cu, Pb, Zn ppm
0 100 500 1000m
SCALE: 1:10,000

DRAWN BY: IP/dm	DATE: APRIL 1987	N.T.S. 82M/4W	FIG. NO.:
			2



LEGEND

- Ag > 1.0 ppm
- ▲ Au > 15 ppb

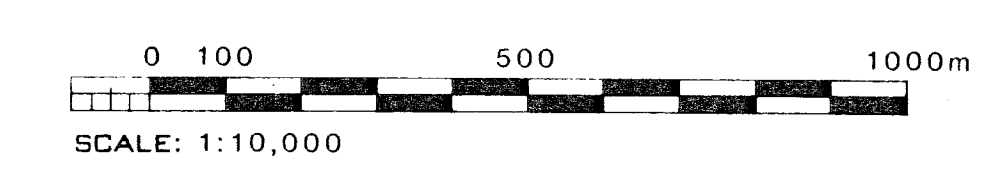


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ASSESSMENT REPORT
15,908

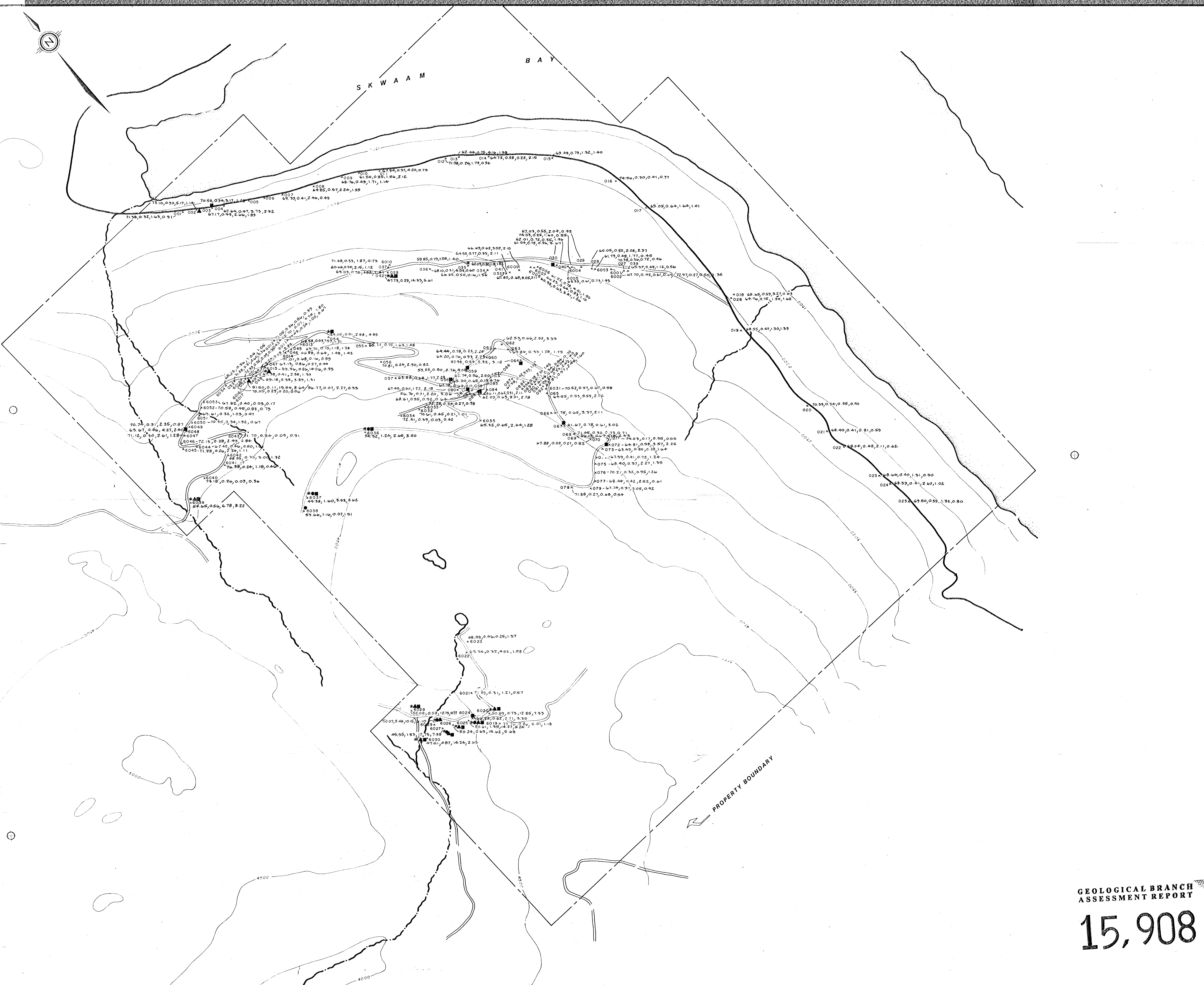
CORPORATION FALCONBRIDGE COPPER

SBS PROPERTY
Squam Bay

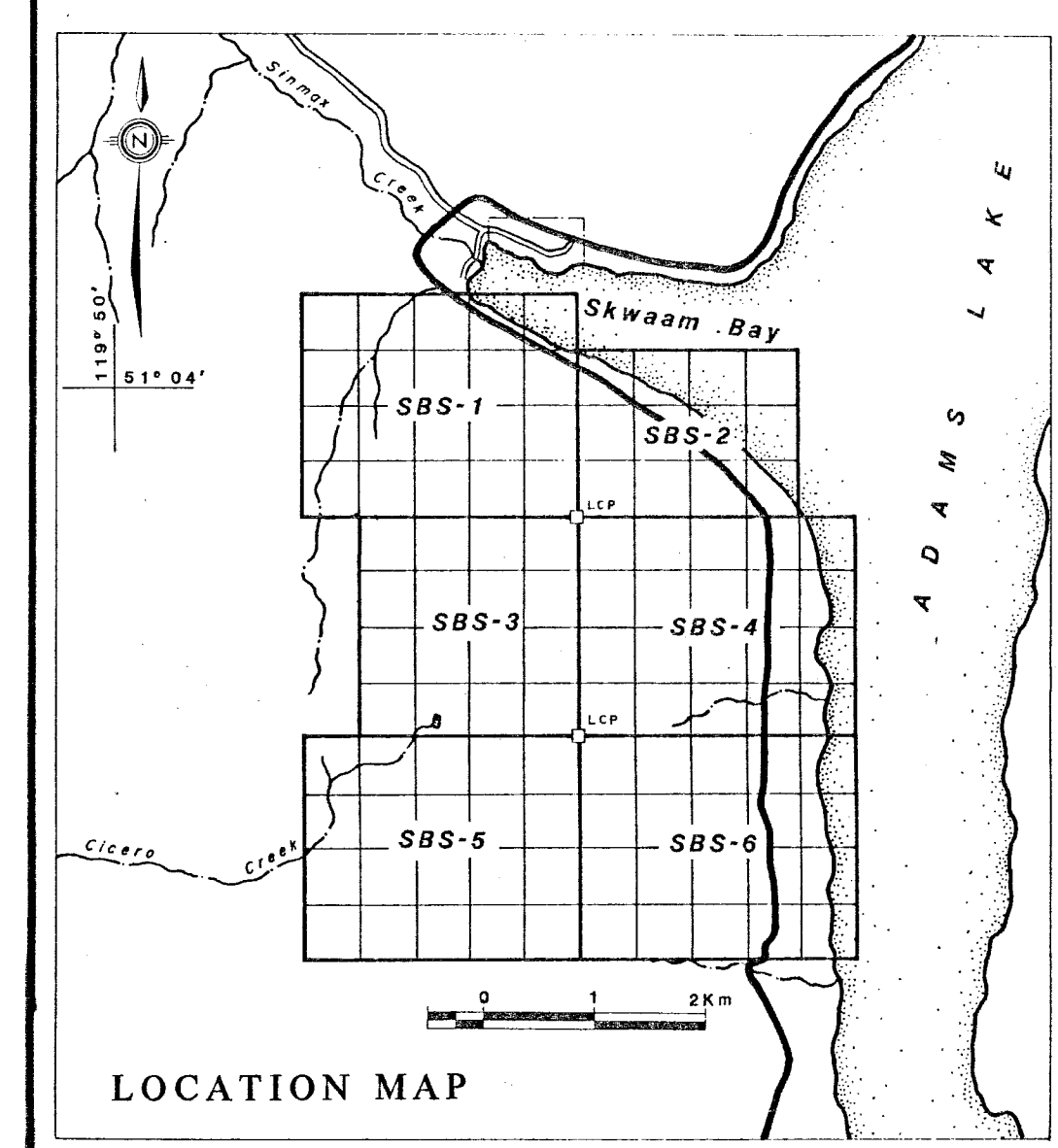
LITHOGEOCHEMISTRY
Ag ppm, Au ppb



	DRAWN BY: IP/dm	FIG. NO.:
	DATE: APRIL 1987 N.T.S. 82M/4W	3



- * SiO₂ < 57.5%
- TiO₂ > 1.00%
- ▲ CaO > 5%
- MgO > 2.25%



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CORPORATION FALCONBRIDGE COPPER

SBS PROPERTY
Squaam Bay

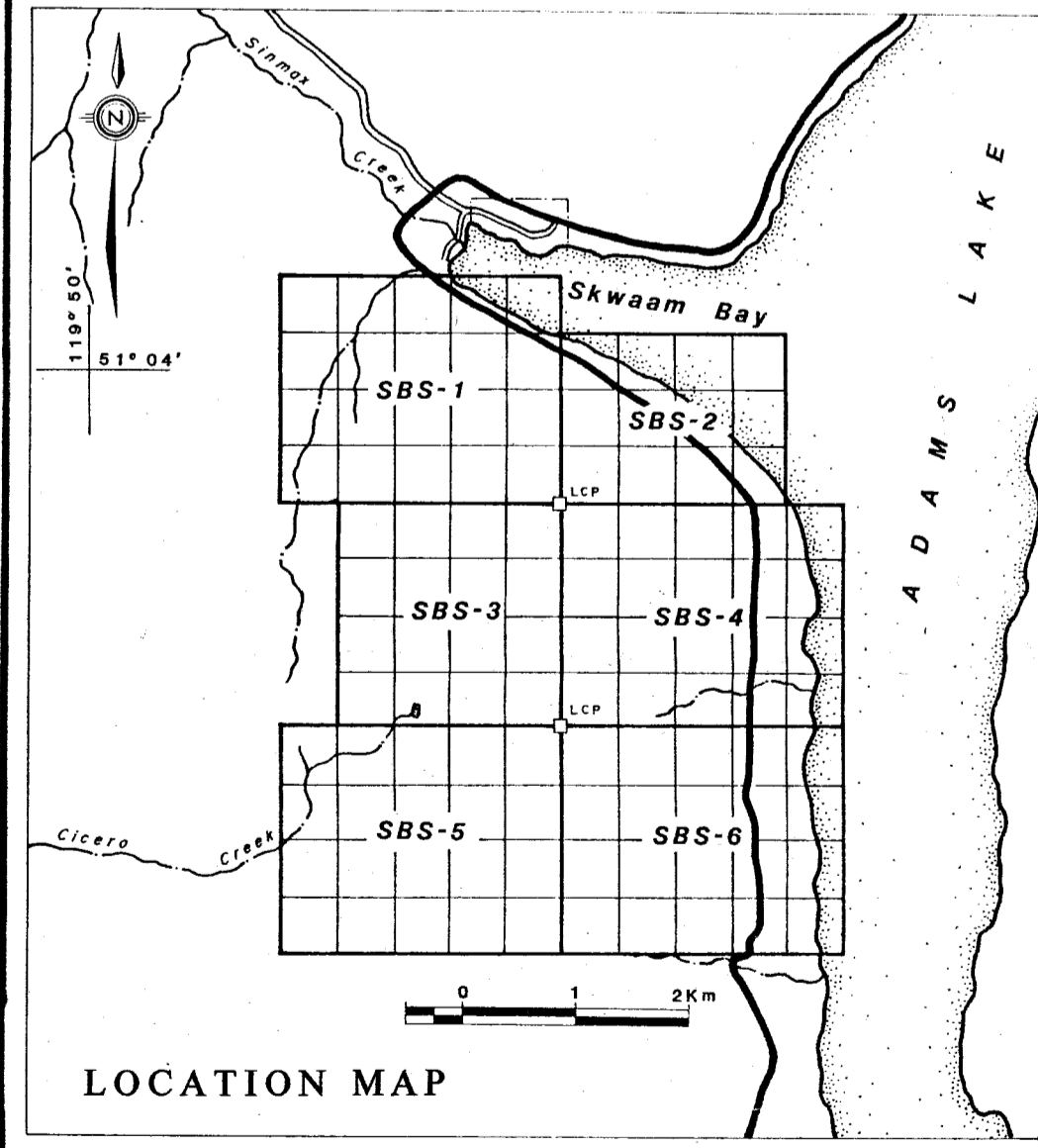
LITHOGEOCHEMISTRY
SiO₂, TiO₂, CaO, MgO %

0 100 500 1000m
SCALE: 1:10,000



LEGEND

- Na₂O < 2%
- ▲ K₂O > 4.75%

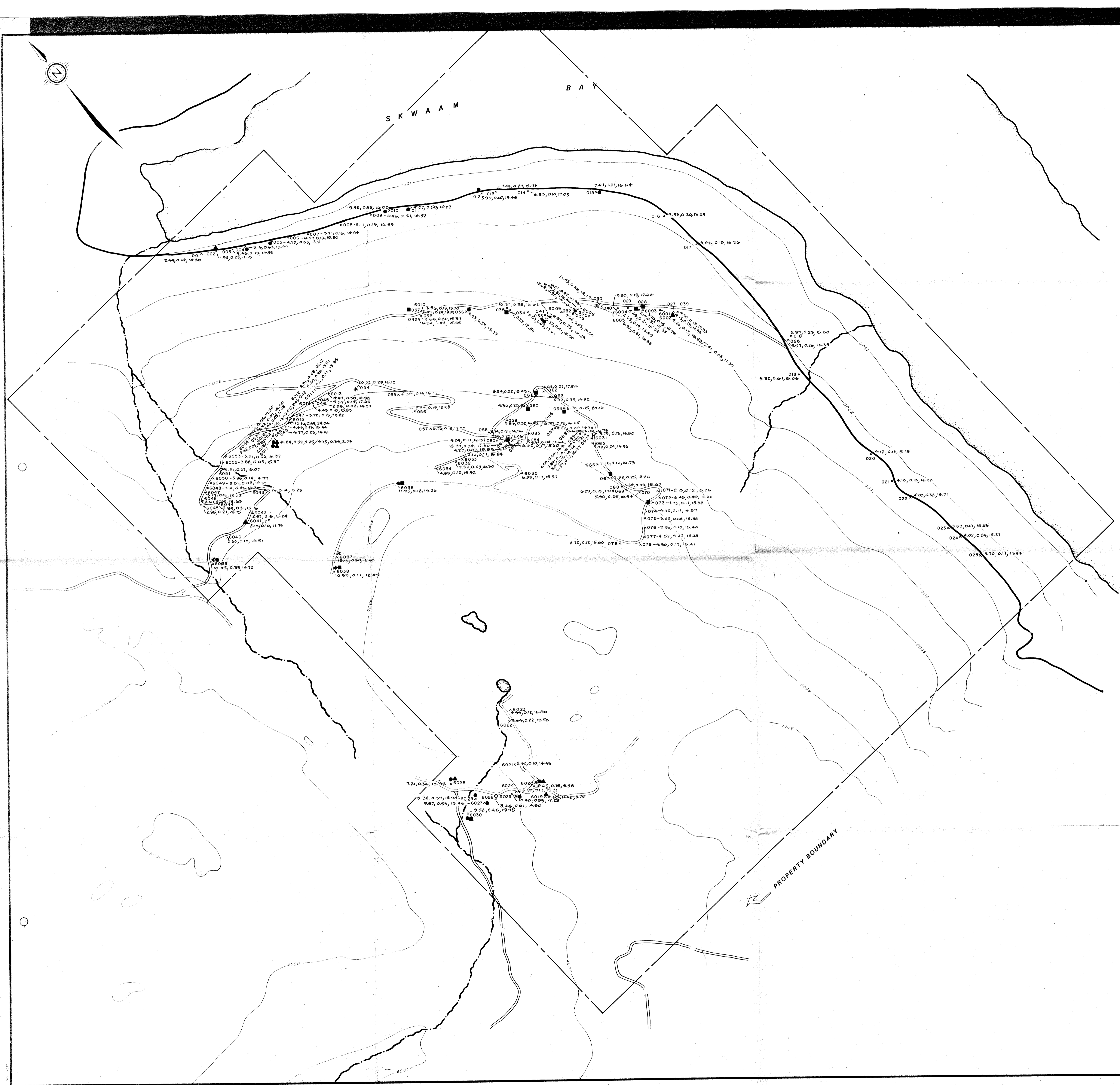


GEOLOGICAL BRANCH
ASSESSMENT REPORT
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CORPORATION FALCONBRIDGE COPPER
SBS PROPERTY
Squam Bay
LITHOGEOCHEMISTRY
Na₂O, K₂O %

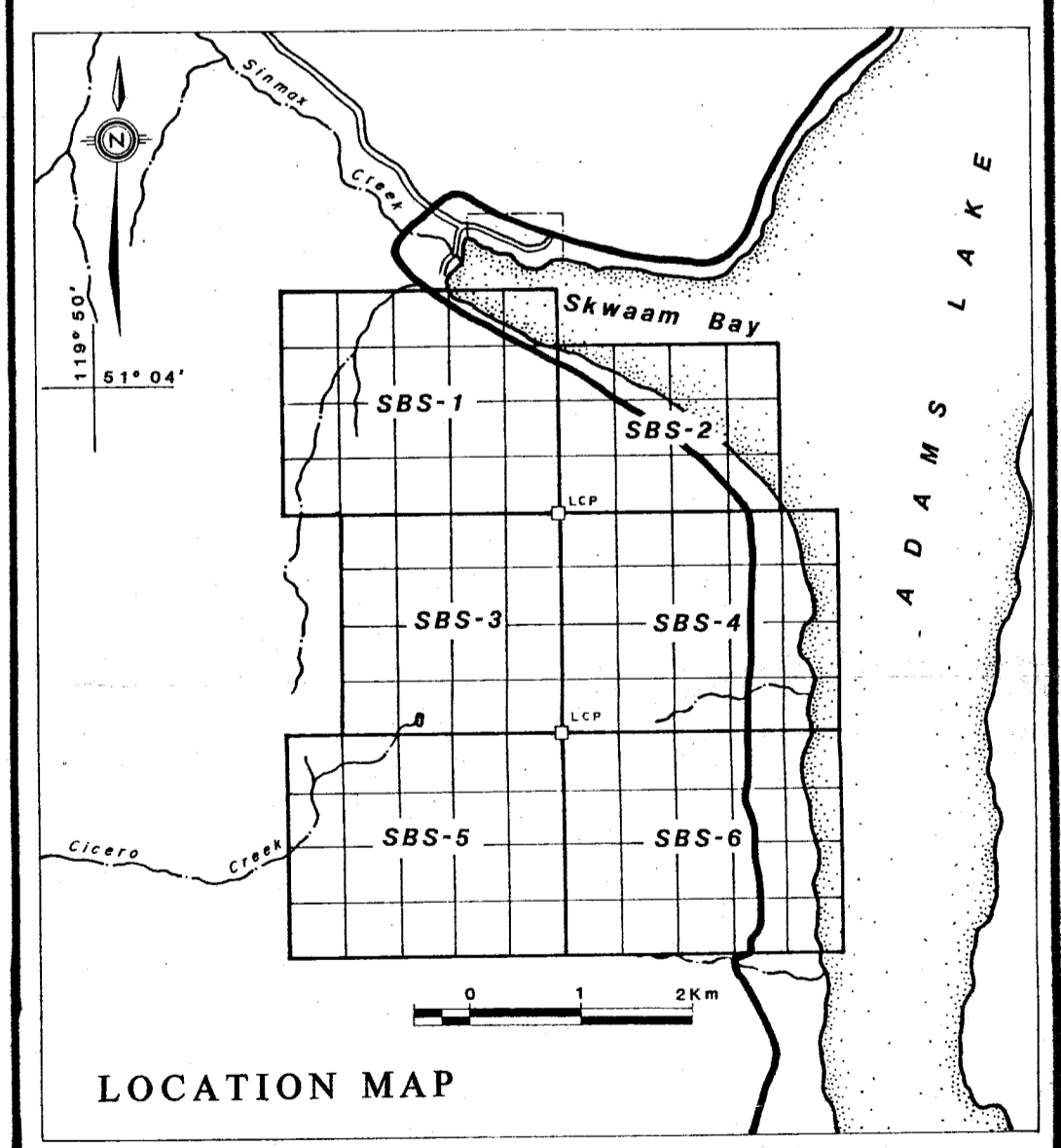


	DRAWN BY: IP/dm	FIG. NO.:
	DATE: APRIL 1987	N.T.S. 82M/4W



LEGEND

- * Fe2O3 > 10%
- MnO2 > 0.325%
- ▲ Al2O3 < 12%
- Al2O3 > 18%



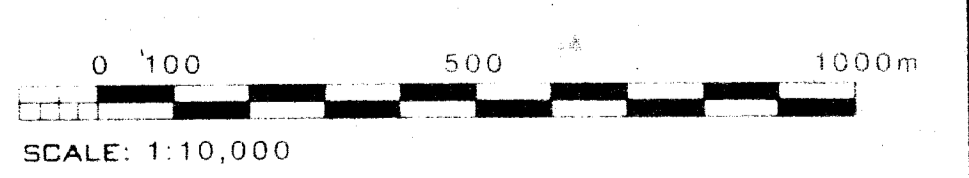
GEOLOGICAL BRANCH
ASSESSMENT REPORT

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CORPORATION FALCONBRIDGE COPPER

SBS PROPERTY
Squaam Bay

LITHOGEOCHEMISTRY
Fe₂O₃, MnO₂, Al₂O₃ %



	DRAWN BY: IP/dm	FIG. NO.:
	DATE: APRIL 1987	N.T.S. 82M/4W

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