

ST. JOSEPH EXPLORATION LTD.

SOIL GEOCHEMICAL SURVEYSAS LAKE CLAIMS

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Introduction

The Sas Lake claims consist of a contiguous block of 27 claims lying immediately west of the Town of Cobalt and straddling the Bucke -Coleman township line. The claims covered by the geochemical survey lie mostly between Sasaginaga Lake and Sharp Lake. They are readily accessible from a summer gravel road which passes through the southern part of the area, and connects with Highway 11B on the east and Highway 11 on the west.

The soil sampling described here was undertaken in an attempt to locate silver-bearing carbonate arsenide veins.

Summary of Previous Work

This area was intensively prospected in the early days of the Cobalt camp and there are numerous trenches, pits and several shallow shafts. The area was mapped at 400FT to the inch by R. Thomson of the Ontario Department of Mines in the period of 1948 to 1961. All of the claims have been covered by ground EM and magnetic surveys either by St. Joseph Explorations or the previous holder, Vangulf Explorations. Selected areas have been covered by Turam and Induced Polarization surveys. The claims were mapped in detail at 400FT to the inch by D. Fisher in 1971. Some "check" mapping was done by A.W. Beecham in the fall of 1975. Excluding a small amount of drilling done prior to Vangulf's work, a total 20 holes, for about 7500FT, have been drilled in the general area by Vangulf and St. Joseph

Explorations. Of these, 6 holes were drilled on the claims covered by this survey. Most of the drilling was done to test geophysical anomalies for base metal concentrations. Although appreciable concentrations of pyrite and pyrrhotite were intersected, no base metal or silver values near economic grade were found.

General Geology

The basement, (Archean) rocks of the Cobalt area, referred to as Keewatin, consist mainly of mafic volcanics with subordinate felsic tuffs and minor non-volcanic sediments. They have been complexly folded and are steeply dipping with general NW-SE trends. This basement is unconformably overlain, in the area, by up to a few hundred feet of Proterozoic clastic sediments of the Cobalt Group. Both basement and cover rocks have been intruded by the undulating Nipissing Diabase sheet (or sheets). Silver-bearing veins occur in all three, the Keewatin, the Cobalt and the Nipissing rocks. However, known economic deposits are more or less restricted to a zone within a few hundred feet of the edges of the diabase sheet. Most are spatially associated with base metal-bearing sulphide concentrations within the Keewatin rocks, particularly with sulphide-rich 'interflow' sediments.

Most of the area sampled is underlain by Cobalt Group sediments. However, the area sampled between Sasaginaga and Clear lakes is underlain directly by Keewatin volcanics.

Description of Work

In late June, July and early August, sampling was done along the old grid of 400FT spaced NS lines. Intervening traverses were run by 'tape' and compass. Samples were taken at 50FT intervals to give a 50' by 200' grid coverage. Samples of A horizon soils were taken using small garden trowels. Slopes and vegetation types were recorded.

Soil horizons are moderately well developed with a $\frac{1}{2}$ to 2 inch black humus layer underlain by about $\frac{1}{2}$ inch of grey, leached material which is in turn underlain by the reddish-brown B horizon. The B horizon consists mainly of sandy till. Although the area is just south of the Little Clay Belt, no clay is believed to be present within the area sampled.

Most of the area is covered with deciduous or mixed deciduous and coniferous growth and although there are swampy areas, it is by and large well drained.

The topography is hilly and rolling to rugged with numerous outcrops. The maximum relief is about 200FT. Overburden depths vary from zero to as much as 50ft, but most of the area is probably covered by ^{no} more than 10 or 15 FT of overburden.

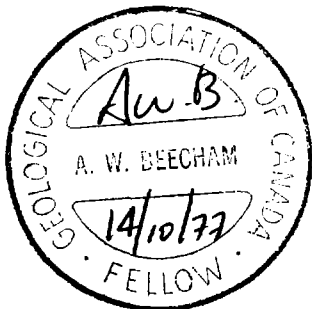
Results and Conclusions

A 20% sampling of the data was used to make cumulative frequency plots. These show single populations for both Ag and As. However, using values of the over 99 percentile ~~case~~, 3 small anomalous areas are outlined as follows:

- (1) SW corner claim L317,436: Here levels up to 11ppm Ag and 123 ppm As occur. This area is underlain by Cobalt sediments.
- (2) SW corner claim L317,390: A single high of 12.4 ppm Ag occurs in an area of Cobalt sediments.
- (3) East, middle part of claim S446,543: Here 2 anomalous samples with maximum peaks of 23ppm Ag and 221 ppm As occur in an area of Keewatin rocks. There is some garbage around this location and there is the possibility of contamination.

Recommendations

The 3 anomalous sites should be re-sampled on 50 FT separated N-S lines at sample intervals of 25 FT. Both A and B horizons should be collected. If the anomalies can be confirmed, then trenches should be dug to bedrock and complete overburden profiles sampled. Only if the anomalies can be traced to bedrock should consideration be given to drilling.



A.W. Beecham
14/10/77



BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5

PHONE: 237-3110

Geochemical Lab Report

Extraction Ag-HNO₃-HCl, As-HNO₃-HClO₄

Report No. 1152-7

Method A.A. colorimetric

From St. Joseph Explorations Limited

Fraction Used -80 soils.

Date August 19, 1977

See lake

SAMPLE NO.	As ppm	Ag ppm	SAMPLE NO.	As ppm	Ag ppm
SL-54W-0N	29	1.4	SL-III-52W-250N	19	2.2
50N	30	1.9	300	26	1.1
100N	15	0.8	350	28	2.2
150N	19	0.8	400N	15	0.7
200N	93	2.1	C-1	20	1.7
250N	22	2.1	450N	21	0.7
300	13	0.7	500	6	0.4
350	36	1.9	550	11	0.4
400	12	0.8	600	32	0.9
450	17	1.1	650	10	0.6
500N	11	1.5	700	17	0.6
550	12	0.7	750	13	0.5
600	21	2.3	800	11	0.8
650	15	0.9	850	19	1.5
700	58	4.1	900	13	0.7
750	30	2.9	950	38	1.6
800	14	1.9	1000	18	1.8
C-1	16	1.7	1050	10	1.2
SL-54W-850N	21	1.0	1100	29	1.6
900	29	2.6	1150	15	0.6
950	21	1.0	1200	19	0.8
1000	28	2.6	SL-III-50W-0N	23	2.2
1050	11	0.6	C-1	17	1.8
1100	30	1.3	50N	22	2.5
1150	33	2.0	100	28	1.2
SL-III-54W-1200N	11	1.0	150N	24	0.4
SL-III-52W-0N	11	0.9	200	14	1.3
50	50	2.6	250	21	1.9
100	40	1.5	300	37	2.1
150	41	1.3	350	24	2.0
200	26	1.6	400	35	2.9



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764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5

PHONE: 237-3110

Geochemical Lab Report

Sas Lake

Extraction Ag-HNO₃-HCl, As-HNO₃-HClO₄

Method A.A. Colorimetric

Fraction Used -80 soils

Report No. 1055-7

From St. Joseph Explorations Limited

Date August 18, 19 77

SAS LK

SAMPLE NO.	As ppm	Ag ppm	SAMPLE NO.	As ppm	Ag ppm
83+05W 10N	61	3.6	82 W 1500N	27	1.9
82 W 50N	83	2.8	1550N	24	2.1
100N	80	2.2	1600N	15	2.0
150N	49	2.0	1650N	33	3.2
200N	44	4.4	C-1	16	1.7
250N	18	0.8	1700N	26	1.7
300N	14	1.2	1750N	20	0.3
350N	33	1.8	1800N	64	1.1
400N	31	1.4	1850N	38	1.2
450N	20	1.3	1900N	47	3.6
500N	15	0.9	1950N	35	1.7
550N	9	0.6	2000N	52	2.0
600N	9	0.7	2050N	96	3.9
650N	11	0.7	2100N	45	1.6
700N	15	0.6	2150N	62	3.6
750N	17	0.7	2200N	65	3.5
800N	12	1.1	2250N	72	5.2
C-1	18	1.8	2300N	57	2.8
850N	17	1.2	2350N	71	5.4
900N	10	0.4	2400N	59	4.5
950N	12	0.7	2450N	25	0.6
1000N	19	2.1	2500N	24	2.5
1050N	9	0.5	C-1	15	1.6
1100N	11	0.9	2550N	28	0.9
1150N	47	7.1	2600N	8	1.1
1200N	43	3.6	2650N	73	4.4
1250N	16	1.0	2700N	46	2.7
1300N	49	3.7	90 W 50N	54	5.1
1350N	31	2.8	100N	39	2.6
1400N	61	5.8	150N	44	4.0
1450N	25	1.9	200N	23	1.3

VMM

Geochemical Lab Report

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SAMPLE NO.	As ppm	Ag ppm	SAMPLE NO.	As ppm	Ag ppm
90 W 250N	54	1.8	90 W 1950N	46	1.3
300N	52	1.7	2000N	11	0.5
350N	52	4.2	2050N	23	1.0
400N	50	3.1	2100N	11	0.8
450N	28	1.8	2150N	21	0.8
500N	27	3.1	2200N	13	0.7
550N	11	1.0	2250N	9	0.4
600N	8	0.8	2300N	36	4.2
650N	28	1.6	2350N	32	1.6
C-1	15	1.8	C-1	15	1.7
700N	29	2.0	2400N	25	1.9
750N	20	1.3	2450N	17	4.6
800N	25	1.7	2500N	29	1.9
850N	24	1.1	2550N	52	3.4
900N	64	4.2	2600N	57	2.1
950N	73	6.0	2650N	24	0.8
1000N	50	7.5	2700N	25	1.0
1050N	68	4.2	50 W 1000S	14	0.6
1100N	34	4.0	1050S	12	0.7
1150N	41	2.8	1100S	14	0.6
1200N	46	2.8	1150S	22	0.7
1250N	53	4.3	1200S	17	0.7
1300N	62	4.6	1250S	25	0.6
1350N	57	2.1	1300S	57	2.8
1400N	49	3.6	1350S	11	0.8
1450N	36	1.6	1400S	21	0.8
1500N	24	1.0	94 W OS	13	2.0
C-1	18	1.6	C-1	16	1.6
1550N	23	1.2	50S	53	0.3
1600N	58	3.0	100S	46	3.0
1650N	39	3.2	150S	47	7.6
1700N	22	1.8	200S	33	7.7
1750N	29	3.2	250S	22	1.6
1800N	29	2.4	300S	44	0.4
1850N	25	1.6	350S	41	1.9
1900N	56	3.0	400S	31	0.8

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SAMPLE NO.		As ppm	Ag ppm		SAMPLE NO.		As ppm	Ag ppm	
94 W 450S		57	0.7		94 W 2150S		49	2.0	
500S		57	3.2		2200S		55	6.6	
550S		22	5.5		2250S		69	0.4	
600S		53	4.9		2300S		54	2.3	
650S		34	8.2		2350S		26	1.2	
700S		51	5.4		2400S		86	1.7	
750S		35	1.6		2450S		45	0.6	
800S		18	1.3		2500S		26	1.1	
850S		27	0.5		2550S		30	3.5	
C-1		18	1.7		C-1		18	1.6	
900S		60	1.6		2600S		19	1.5	
950S		67	0.9		84 W 0S		30	1.8	
1000S		64	1.7		50S		17	0.8	
1050S		84	2.2		100S		47	0.8	
1100S		45	1.2		150S		24	1.3	
1150S		31	1.2		200S		16	1.0	
1200S		28	4.6		250S		13	1.2	
1250S		17	3.0		300S		25	2.2	
1300S		16	0.6		350S		67	5.5	
1350S		11	0.8		400S		49	3.4	
1400S		23	1.0		450S		48	2.3	
1450S		16	1.0		500S		20	1.1	
1500S		13	2.0		550S		32	2.0	
1550S		58	2.5		600S		41	3.5	
1600S		15	0.9		650S		22	2.9	
1650S		28	2.2		700S		41	1.2	
1700S		6	0.5		750S		15	1.2	
C-1		17	1.6		C-1		16	1.8	
1750S		34	1.2		800S		12	0.7	
1800S		85	2.8		850S		14	0.4	
1850S		87	2.4		900S		32	1.6	
1900S		25	2.3		950S		23	1.2	
1950S		50	1.3		1000S		33	0.6	
2000S		25	4.6		1050S		11	0.6	
2050S		48	3.7		1100S		10	0.6	
2100S		38	1.4		1150S		10	0.5	

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SAMPLE NO.	As ppm	Ag ppm	SAMPLE NO.	As ppm	Ag ppm
84 W 1200S	36	0.9	82 W 150S	12	1.5
1250S	62	2.0	200S	48	5.0
1300S	20	0.5	250S	26	2.6
96 W 50N	28	0.8	300S	46	4.6
100N	41	3.8	350S	34	3.1
150N	33	3.4	400S	25	2.7
200N	16	0.6	450S	16	1.9
250N	18	0.6	500S	16	0.8
300N	67	2.5	550S	16	0.8
C-1	16	1.7	C-1	15	1.7
350N	31	3.6	600S	12	1.0
400N	40	2.1	650S	10	1.2
450N	32	0.9	700S	7	0.5
500N	19	0.5	750S	13	0.9
550N	17	0.7	800S	27	2.3
600N	9	0.3	850S	9	1.0
650N	22	0.5	900S	10	0.6
700N	31	1.3	950S	43	3.4
750N	49	1.3	1000S	21	1.0
800N	77	6.5	1050S	19	1.5
850N	80	7.0	1100S	21	0.6
900N	24	1.7	1150S	21	0.7
950N	65	4.5	1200S	24	1.0
1000N	93	2.6	1250S	28	2.1
1050N	42	1.0	1300S	10	1.5
1100N	61	5.4	86 W 0S	12	0.6
1150N	22	0.4	50S	16	0.6
C-1	14	1.7	C-1	18	1.8
1200N	38	1.3	100S	35	4.7
1250N	10	0.4	150S	48	4.6
1300N	30	1.7	200S	30	2.2
1350N	10	0.9	250S	38	1.5
1400N	11	0.3	300S	54	4.7
82 W 0S	22	2.8	350S	28	1.8
50S	39	4.3	400S	22	2.3
100S	24	3.3	450S	36	1.3

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SAMPLE NO.		As ppm	Ag ppm		SAMPLE NO.		As ppm	Ag ppm	
86 W 500S		24	2.9		76 W 8+50S		27	1.7	
550S		26	1.2		9+00S		30	2.2	
600S		15	0.9		9+50S		15	0.7	
650S		37	2.6		10+00S		27	2.3	
700S		56	3.8		10+50S		29	1.4	
750S		12	0.7		11+00S		15	1.1	
800S		24	1.5		54 W 10+00S		74	5.9	
850S		22	2.4		10+50S		17	0.4	
900S		25	1.1		11+00S		30	1.2	
C-1		15	1.8		C-1		15	1.6	
950S		42	2.9		11+50S		17	0.7	
1000S		43	2.0		12+00S		13	0.5	
1050S		58	3.9		12+50S		30	0.6	
1100S		94	5.3		13+00S		11	0.6	
1150S		58	2.2		13+50S		11	0.5	
1200S		40	2.5		14+00S		16	1.2	
1250S		25	3.0		14+50S		10	0.9	
1300S		56	3.8		15+00S		11	0.4	
76 W 0+00S		41	2.6		15+50S		13	0.6	
0+50S		14	0.9		16+00S		9	0.7	
1+00S		25	0.6		16+50S		10	0.5	
1+50S		47	1.5		17+00S		8	0.5	
2+00S		11	0.5		17+50S		6	0.5	
2+50S		44	1.5		18+00S		8	0.6	
3+00S		26	1.6		18+50S		16	0.8	
3+50S		29	1.4		19+00S		9	0.4	
4+00S		30	1.5		19+50S		13	0.5	
C-1		20	1.6		C-1		19	1.6	
4+50S		28	0.7		20+00S		9	0.6	
5+00S		43	1.7		20+50S		14	0.5	
5+50S		46	3.5		21+00S		21	0.5	
6+00S		23	2.4		21+50S		5	0.5	
6+50S		20	1.8		22+00S		15	1.4	
7+00S		25	2.2		23+00S		11	0.6	
7+50S		18	2.1		23+50S		14	0.6	
8+00S		43	2.3		24+00S		10	0.4	

YMW

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SAMPLE NO.		As ppm	Ag ppm		SAMPLE NO.		As ppm	Ag ppm	
54 W 24+50S		12	0.7		SL 56 W 2400S		16	1.1	
25+00S		34	3.5		2450S		40	1.6	
25+50S		14	0.6		2500S		6	0.4	
26+00S		9	0.5		2550S		17	0.6	
26+50S		15	0.7		2600S		9	1.0	
27+00S		14	0.6		2650S		9	0.5	
SL 56 W 1000S		7	0.7		52 W 10+00S		11	0.7	
1050S		7	0.5		10+50S		17	0.8	
1100S		9	0.7		11+00S		28	1.0	
C-1		16	1.9		11+50S		15	0.7	
1150S		7	0.6		C-1		15	2.0	
1200S		10	0.9		12+00S		12	0.6	
1250S		9	0.4		12+50S		11	0.9	
1300S		6	0.4		13+00S		12	0.5	
1350S		7	0.4		13+50S		11	0.7	
1400S		10	0.7		14+00S		40	1.0	
1450S		5	0.6		14+50S		8	0.6	
1500S		5	0.4		15+00S		18	1.0	
1550S		6	0.3		15+50S		15	0.9	
1600S		10	0.6		16+00S		14	0.7	
1650S		10	0.4		74 W 0S		8	0.6	
1700S		14	0.7		50S		16	2.1	
1750S		16	0.5		1+00S		28	2.6	
1800S		6	0.5		1+50S		7	0.5	
1850S		8	0.5		2+00S		7	0.5	
1900S		7	0.5		2+50S		16	3.0	
1950S		16	1.1		3+00S		24	2.0	
C-1		15	1.7		3+50S		33	2.6	
2000S		11	0.9		C-1		16	1.8	
2050S		15	1.1		4+00S		15	1.5	
2100S		19	1.1		4+50S		32	2.6	
2150S		10	0.4		5+00S		49	4.3	
2200S		49	2.0		5+50S		52	2.8	
2250S		10	0.5		6+00S		39	2.7	
2300S		13	0.5		6+50S		27	1.2	
2350S		11	0.6		7+00S		24	0.7	

WDM

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SAMPLE NO.		AS ppm	Ag ppm		SAMPLE NO.		AS ppm	Ag ppm	
74 W 7+50S		8	0.5		88 W 450S		29	1.5	
8+00S		24	2.3		500S		35	1.7	
8+50S		13	1.6		550S		40	3.6	
9+00S		34	2.4		600S		41	5.8	
9+50S		17	0.5		650S		41	0.7	
10+00S		17	0.6		700S		50	5.7	
10+50S		16	0.7		750S		37	5.2	
11+00S		8	0.6		800S		32	1.0	
70 W 0+00S		46	3.0		850S		12	0.8	
0+50S		43	2.3		900S		39	3.3	
C-1		19	2.0		C-1		16	1.6	
1+00S		32	1.2		950S		41	4.2	
1+50S		ROCK	DUMP		1000S		26	1.3	
2+00S		ROCK	DUMP		1050S		20	1.1	
2+50S		15	0.6		1100S		12	0.8	
3+00S		NOT	RECEIVED		1150S		26	1.4	
3+50S		20	0.9		1200S		43	1.5	
4+00S		39	1.9		1250S		37	0.5	
4+50S		16	0.8		1300S		93	1.4	
5+00S		36	0.7		89+75 W OS		25	1.6	
5+50S		10	0.4		90 W 50S		42	1.6	
6+00S		21	0.9		100S		87	8.8	
6+50S		19	0.8		150S		66	4.3	
7+00S		11	0.4		200S		52	1.6	
7+50S		9	0.6		250S		101	5.7	
8+00S		30	1.4		300S		49	3.2	
88 W OS B.L.		30	1.4		350S		86	7.5	
50S		27	1.6		400S		45	3.2	
C-1		19	1.8		C-1		19	1.8	
100S		64	2.4		450S		35	3.3	
150S		55	4.5		500S		38	1.7	
200S		39	2.3		550S		55	4.2	
250S		47	4.0		600S		35	2.2	
300S		80	7.6		650S		45	3.5	
350S		53	4.4		700S		54	3.7	
400S		21	1.2		750S		19	2.7	

MM

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SAMPLE NO.	As ppm	Ag ppm	SAMPLE NO.	As ppm	Ag ppm
90 W 800S	50	4.5	100 W 600N	16	1.9
850S	39	4.6	650N	16	0.9
900S	46	3.6	700N	31	2.2
950S	26	1.1	68 W 0+50S	42	1.4
1000S	75	3.4	100S	17	1.0
1050S	50	3.3	150S	8	0.6
1100S	I.S.	12.6	200S	6	0.6
1150S	33	1.7	250S	16	0.8
1200S	37	4.5	300S	4	0.3
1250S	11	0.8	350S	29	1.2
C-1	16	1.9	C-1	14	1.6
1300S	7	0.8	400S	17	0.8
102 W 50N	10	0.5	450S	17	1.3
100N	9	0.4	500S	9	0.4
150N	13	0.5	550S	11	0.7
200N	20	0.5	65 W 2600S	17	0.6
250N	9	0.8	26+50S	16	0.6
300N	11	0.6	27+00S	13	0.5
350N	8	0.2	27+50S	9	0.6
400N	5	0.2	2800	7	0.4
450N	17	0.7	2850	15	0.6
500N	7	0.4	2900S	20	0.7
550N	19	0.7	2950S	15	0.7
600N	8	0.4	3000S	14	0.6
100 W 50N	11	0.6	3050S	14	0.6
100N	19	0.6	3100S	11	0.5
150N	23	0.9	3150S	11	0.5
200N	27	1.6	3200S	12	0.4
C-1	18	1.5	C-1	15	1.8
250N	13	0.6	3250S	14	0.6
300N	25	0.6	3300S	13	0.6
350N	18	0.7	3350S	26	1.2
400N	27	1.4	3400S	48	3.5
450N	33	2.6	63 W 2700S	11	0.7
500N	45	1.6	2750S	11	1.5
550N	32	3.0	2800S	15	1.1

WMM

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SAMPLE NO.		As ppm	Ag ppm		SAMPLE NO.		As ppm	Ag ppm	
63 W 2850S		13	0.6		58+50W 3000S		10	0.5	
2900S		27	1.5		3050S		31	0.9	
2950S		8	1.0		3100S		41	2.4	
3000S		37	1.6		3150S		12	0.6	
3050S		16	0.7		3200S		11	0.5	
3100S		53	2.9		3250S		17	2.5	
3150S		18	2.6		3300S		19	1.2	
3200S		55	7.7		3350S		20	2.0	
3250S		15	0.7		3400S		11	0.6	
3300S		13	0.8		3450S		12	0.6	
C-1		16	1.7		3500S		NOT RECEIVED		
3350S		10	0.5		C-1		15	1.6	
3400S		NOT RECEIVED			3550S		NOT RECEIVED		
3450S		45	1.0		3600S		13	0.7	
61 W 2700S		11	1.9		3650S		13	0.6	
2750S		I.S.	2.2		3700S		11	0.5	
2800S		38	1.1		56 W 2700S		32	4.4	
2850S		50	4.4		2750S		15	1.4	
2900S		33	1.7		2800S		30	1.2	
2950S		28	1.3		2850S		84	1.6	
3000S		16	0.6		2900S		18	0.5	
3050S		9	0.4		2950S		13	0.7	
3100S		12	0.6		3000S		28	1.4	
3150S		8	0.7		3050S		10	0.9	
3200S		9	0.6		3100S		118	23.2	
3250S		15	0.7		3150S		221	16.3	
3300S		13	1.5		3200S		38	3.2	
3350S		16	0.9		3250S		18	1.2	
3400S		67	2.5		3300S		18	1.0	
C-1		16	1.6		C-1		14	1.6	
58+50W 2700S		25	3.5		3350S		84	7.4	
27+50S		25	1.0		3400S		86	4.2	
2800S		39	1.2		CLAIMLINE 2600S		17	0.9	
2850S		14	0.6		2650S		24	0.8	
2900S		14	1.0		2700S		17	0.6	
2950S		14	0.6		2750S		18	1.6	

W/W

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SAMPLE NO.		As ppm	Ag ppm	SAMPLE NO.		As ppm	Ag ppm
CLAIMLINE 2800S		19	0.6	80 W 1600N		12	2.7
2850S		23	1.3	1650N		20	2.2
80 W 0N		25	2.5	1700N		14	1.9
50N		56	3.1	1750N		28	3.2
100N		I.S.	4.5	1800N		89	4.4
150N		I.S.	2.9	1850N		34	3.8
200N		27	3.0	1900N		58	2.2
250N		27	2.8	1950N		49	5.5
300N		101	4.2	2000N		8	0.7
350N		39	1.4	2050N		53	1.0
400N		45	1.9	2100N		35	0.5
450N		15	5.3	2150N		59	2.2
C-1		17	1.7	C-1		18	1.6
500N		37	2.5	2200N		15	0.6
550N		43	2.2	2250N		74	4.0
600N		50	3.7	2300N		57	3.4
650N		48	2.2	2350N		68	3.0
700N		24	1.3	2400N		I.S.	3.3
750N		43	4.7	2450N		44	2.4
800N		33	2.2	2500N		59	5.5
850N		42	0.9	2550N		26	1.4
900N		I.S.	4.5	2600N		57	4.0
950N		54	2.6	2650N		28	1.3
1000N		14	2.3	2700N		32	2.5
1050N		I.S.	6.1	92 W 0+00S		98	4.5
1100N		30	2.8	0+50S		52	2.9
1150N		35	5.4	1+00S		40	2.2
1200N		36	2.1	1+50S		62	2.0
1250N		38	2.7	2+00S		39	1.3
1300N		36	2.8	2+50S		61	2.5
C-1		14	1.6	C-1		15	1.8
1350N		I.S.	5.5	3+00S		26	0.7
1400N		14	0.7	3+50S		46	0.5
1450N		28	1.6	4+00S		26	1.0
1500N		41	2.9	4+50S		45	2.0
1550N		29	2.1	5+00S		45	2.3

WAW

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SAMPLE NO.		As ppm	Ag ppm		SAMPLE NO.		As ppm	Ag ppm	
92 W 5+50S		114	4.5		72 W 9+00S		21	0.6	
6+00S		53	4.8		9+50S		16	0.6	
6+50S		59	7.4		10+00S		18	0.7	
7+00S		51	1.9		10+50S		23	0.7	
7+50S		32	2.2		11+00S		25	1.4	
8+00S		54	1.0		96 W 0+00S		29	1.5	
8+50S		46	1.6		0+50S		63	2.7	
9+00S		31	1.0		1+00S		36	1.8	
9+50S		40	2.1		1+50S		62	1.7	
10+00S		44	0.8		2+00S		25	1.8	
10+50S		14	0.7		2+50S		19	1.2	
11+00S		18	0.7		3+00S		48	1.6	
C-1		16	1.8		3+50S		25	0.9	
11+50S		28	3.8		C-1		18	1.6	
12+00S		74	4.3		4+00S		87	3.6	
12+50S		17	2.1		4+50S		47	0.7	
13+00S		16	2.3		5+00S		66	4.4	
72 W 0+00S		21	1.7		5+50S		48	2.8	
0+50S		31	0.9		6+00S		43	2.9	
1+00S		37	1.4		6+50S		12	0.4	
1+50S		25	0.8		7+00S		71	5.5	
2+00S		7	0.4		7+50S		59	2.8	
2+50S		14	0.8		8+00S		62	3.5	
3+00S		11	0.6		8+50S		71	3.0	
3+50S		13	0.6		9+00S		21	1.5	
4+00S		9	0.7		9+50S		30	2.1	
4+50S		29	5.2		10+00S		49	2.3	
5+00S		34	1.8		10+50S		94	5.8	
5+50S		35	3.8		11+00S		26	1.4	
6+00S		43	1.6		11+50S		60	3.3	
C-1		19	1.9		12+00S		42	2.8	
6+50S		14	0.6		C-1		19	1.8	
7+00S		39	0.7		12+50S		25	3.0	
7+50S		23	2.8		13+00S		52	4.3	
8+00S		25	0.8		13+50S		52	2.0	
8+50S		15	0.7		14+00S		53	0.8	

WVW

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SAMPLE NO.	As ppm	Ag ppm	SAMPLE NO.	As ppm	Ag ppm
96 W 14+50S	58	2.2	98 W 5+50N	10	0.4
15+00S	22	1.3	6+00N	54	5.6
15+50S	60	3.7	6+50N	27	0.4
16+00S	44	2.2	7+00N	42	2.8
16+50S	42	2.2	7+50N	16	0.7
17+00S	44	1.1	8+00N	28	1.2
17+50S	11	1.0	8+50N	37	3.3
18+00S	47	1.7	9+00N	16	0.4
18+50S	16	0.6	9+50N	12	0.6
19+00S	24	0.7	10+00N	11	0.4
19+50S	33	1.8	10+50N	9	0.5
20+00S	57	3.6	11+00N	86	1.7
20+50S	20	1.8	11+50N	29	0.7
C-1	18	1.8	12+00N	76	3.2
21+00S	38	3.6	C-1	17	1.8
21+50S	33	2.6	12+50N	66	4.5
22+00S	13	1.9	13+00N	16	1.0
22+50S	34	2.7	13+50N	6	0.3
23+00S	31	3.4	14+00N	4	0.1
23+50S	22	1.7	102 W 0S	3	0.5
24+00S	43	3.3	50S	17	0.4
24+50S	43	4.4	100S	21	1.2
25+00S	27	1.7	150S	7	0.3
25+50S	14	0.7	200S	12	0.5
26+00S	30	2.5	250S	13	0.6
98 W 0+50N	21	2.4	300S	32	1.6
1+00N	22	1.6	350S	23	0.8
1+50N	17	1.0	400S	43	2.8
2+00N	59	4.1	450S	23	0.6
2+50N	17	0.7	500S	21	1.2
3+00N	13	0.4	550S	37	2.0
C-1	14	1.6	600S	28	1.3
3+50N	15	0.7	C-1	18	1.5
4+00N	42	2.4	650S	24	0.5
4+50N	122	3.7	700S	12	1.1
5+00N	84	1.8	750S	32	3.3

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SAMPLE NO.		As ppm	Ag ppm		SAMPLE NO.		As ppm	Ag ppm	
102 W 800S		22	0.6		102 W 2500S		76	1.2	
850S		11	0.5		2550S		57	1.8	
900S		21	0.7		2600S		23	1.0	
950S		72	3.1		104 W 0S		11	0.8	
1000S		54	2.0		50S		6	0.6	
1050S		22	0.7		100S		13	0.9	
1100S		31	1.5		150S		59	5.0	
1150S		12	0.9		200S		10	0.4	
1200S		35	0.5		250S		11	0.6	
1250S		28	0.4		300S		15	0.7	
1300S		70	1.4		350S		24	1.8	
1350S		21	0.5		400S		14	1.2	
1400S		43	1.6		450S		65	4.2	
1450S		34	2.2		500S		14	0.5	
C-1		17	1.4		C-1		15	1.6	
1500S		31	1.3		550S		8	0.4	
1550S		54	2.2		600S		17	1.5	
1600S		33	1.7		650S		33	2.2	
1650S		51	1.8		700S		23	0.9	
1700S		78	2.6		750S		14	0.3	
1750S		32	1.6		800S		21	1.0	
1800S		39	2.8		850S		14	0.9	
1850S		32	1.4		900S		10	0.4	
1900S		32	1.2		950S		17	1.0	
1950S		94	8.7		1000S		22	0.7	
2000S		102	8.2		1050S		18	0.9	
2050S		44	1.8		1100S		12	0.6	
2100S		37	2.6		1150S		11	0.4	
2150S		61	0.6		1200S		35	3.6	
2200S		38	0.4		1250S		47	4.3	
2250S		77	2.4		1300S		40	4.7	
2300S		100	11.3		1350S		8	0.9	
C-1		19	1.7		C-1		14	1.6	
2350S		96	3.2		1400S		29	1.6	
2400S		108	3.7		1450S		47	4.5	
2450S		30	0.8		1500S		28	1.6	

WON

PAID

Geochemical Lab Report

Extraction Ag-HNO₃-HCl, As-HNO₃-HClO₄Report No. 879-7Method A.A., ColormetricFrom St. Joseph Explorations LimitedFraction Used -80 soilsDate July 26 19 77SAS. LAKE

SAMPLE NO.	As ppm	Ag ppm	SAMPLE NO.	As ppm	Ag ppm
✓ 100 WO-S	14	1.1	✓ 100W 1500-S	24	2.2
50-S	61	5.6	1550-S	40	2.6
100-S	30	0.8	1600-S	22	1.2
150-S	53	3.6	1650-S	27	1.0
200-S	78	6.8	C-1	18	1.9
250-S	18	0.4	1700-S	I.S.	8.2
300-S	38	1.3	1750-S	61	1.0
350-S	77	6.2	1800-S	34	1.5
400-S	54	3.8	1850-S	39	1.8
450-S	33	1.5	1900-S	25	1.2
500-S	23	4.3	1950-S	26	2.0
550-S	53	5.2	2000-S	12	1.3
600-S	33	1.7	2050-S	32	1.6
650-S	54	4.0	2100-S	45	4.9
700-S	70	3.0	2150-S	27	3.9
750-S	53	6.5	2200-S	39	3.1
800-S	21	1.3	2250-S	87	5.8
C-1	15	2.1	2300-S	42	2.5
850-S	36	0.8	2350-S	14	1.3
900-S	28	1.1	2400-S	13	0.9
950-S	13	0.6	2450-S	35	1.7
1000-S	19	0.9	2500-S	104	4.5
1050-S	28	3.1	C-1	16	2.1
1100-S	19	1.6	2550-S	105	3.8
1150-S	32	1.9	2600-S	67	3.9
1200-S	22	1.0	✓ 94W 50-N	49	✓ 4.3
1250-S	50	3.7	100-N	27	1.4
1300-S	55	4.9	150-N	38	3.1
1350-S	39	2.1	200-N	48	3.3
1400-S	49	4.2	250-N	44	2.9
1450-S	32	2.3	300-N	46	2.1

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SAMPLE NO.		As ppm	Ag ppm		SAMPLE NO.		As ppm	Ag ppm	
94W 350-N		83	1.4		94W 2050-N		89	2.7	
400-N		33	3.4		2100-N		42	2.6	
450-N		34	1.4		2150-N		11	1.3	
500-N		36	1.7		2200-N		23	1.6	
550-N		34	1.9		2250-N		24	1.1	
600-N		38	2.1		2300-N		35	2.6	
650-N		34	2.2		2350-N		19	1.8	
700-N		23	1.9		2400-N		26	1.0	
750-N		48	4.1		2450-N		5	0.6	
C-1		22	2.1		C-1		17	2.0	
800-N		39	4.5		2500-W		10	1.1	
850-N		76	7.3		2550-W		24	1.6	
900-N		40	2.0		2600-W		34	2.4	
950-N		92	2.7	✓	84W 50-N		43	3.5	
1000-N		44	3.5		100-N		56	2.8	
1050-N		25	2.8		150-N		30	2.7	
1100-N		69	4.4		200-N		18	2.4	
1150-N		21	1.7		250-N		25	3.7	
1200-N		40	2.3		300-N		49	2.9	
1250-N		48	2.4		350-N		20	1.6	
1300-N		40	2.1		400-N		36	4.3	
1350-N		33	1.6		450-N		16	2.3	
1400-N		34	3.1		500-N		16	1.5	
1450-N		27	2.4		550-N		13	1.6	
1500-N		46	2.3		600-N		27	2.1	
1550-N		62	1.6		650-N		65	3.7	
1600-N		67	4.5		700-N		48	2.8	
C-1		16	2.0		C-1		18	1.9	
1650-N		15	1.2		750-N		11	1.1	
1700-N		45	2.8		800-N		14	0.9	
1750-N		66	5.2		850-N		12	0.9	
1800-N		51	2.7		900-N		45	2.9	
1850-N		38	3.1		950-N		72	6.9	
1900-N		32	2.4		1000-N		53	3.0	
1950-N		50	3.7		1050-N		35	2.6	
2000-N		43	3.6		1100-N		86	6.2	

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SAMPLE NO.	As ppm	Ag ppm	SAMPLE NO.	As ppm	ag ppm
84W 1150N	52	2.3	86W 150-N	47	3.2
1200N	63	3.7	200-N	37	3.5
1250-N	79	3.8	250-N	44	3.9
1300-N	56	4.2	300-N	57	5.2
1350-N	42	2.5	350-N	19	2.2
1400-N	36	3.8	400-N	22	2.3
1450-N	33	3.0	450-N	21	2.2
1500-N	16	2.3	500-N	15	1.6
1550-N	35	5.1	550-N	10	0.9
C-1	16	1.9	C-1	19	1.8
1600-N	27	3.1	600-N	11	1.5
1650-N	8	1.8	650-N	40	1.9
1700-N	26	3.0	700-N	41	2.6
1750-N	59	4.8	750-N	39	3.8
1800-N	53	4.9	800-N	24	1.2
1850-N	49	2.6	850-N	22	1.9
1900-N	30	1.5	900-N	21	1.3
1950-N	27	2.4	950-N	31	2.7
200-N	20	1.9	1000-N	24	0.9
2050-N	28	2.3	1050-N	17	1.6
2100-N	60	5.0	110-N	42	2.3
2150-N	84	3.5	1150-N	26	2.6
220-N	56	1.1	1200-N	29	3.9
2250-N	43	3.2	1250-N	33	2.9
2300-N	39	4.2	1300-N	67	6.8
2350-N	20	1.5	1350-N	25	3.6
2400-N	48	4.0	1400-N	31	3.3
C-1	15	1.8	C-1	16	2.0
2450-N	34	4.3	1450-N	40	2.7
2500-N	34	3.4	1500-N	39	3.4
2550-N	36	2.9	1550-N	26	1.5
2600-N	30	3.9	1600-N	86	4.1
2650-N	14	2.2	1650-N	42	3.1
2700-N	19	2.0	1700-N	13	3.2
86W 50-N	35	2.9	1750-N	63	4.7
100-N	39	3.4	1800-N	19	0.9

W

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Page No. 4

SAMPLE NO.		As ppm	Ag ppm		SAMPLE NO.		As ppm	Ag ppm	
86W	1850-N	13	1.5		98W	750-S	21	2.1	
	1900-N	7	0.8			800-S	55	4.9	
	1950-N	18	1.6			850-S	52	4.2	
	2000-N	59	1.6			900-S	34	2.9	
	2050-N	36	2.1			950-S	29	1.3	
	2100-N	14	0.8			1000-S	44	2.9	
	2150-N	19	0.9			1050-S	37	2.4	
	2200-N	19	1.6			1100-S	40	3.5	
	2250-N	20	1.9			1150-S	24	1.7	
	C-1	15	1.9			C-1	16	2.1	
	2300-N	9	1.0			1200-S	34	2.1	
	2350-N	17	1.6			1250-S	28	1.9	
	2400-N	14	4.8			1300-S	33	2.5	
	2450-N	16	3.0			1350-S	25	0.6	
	2500-N	10	2.3			1400-S	25	1.7	
	2550-N	21	2.4			1450-S	43	0.8	
	2600-N	10	1.8			1500-S	24	1.8	
	2650-N	3	1.6			1550-S	20	1.5	
	2700-N	ND	0.9			1600-S	35	2.9	
98W	BC	35	2.9			1650-S	34	2.3	
	OS	24	3.3			1700-S	40	2.6	
	50-S	53	5.7			1750-S	51	4.2	
	100-S	24	1.7			1800-S	36	2.2	
	150-S	29	1.2			1850-S	24	1.1	
	200-S	72	5.3			1900-S	17	1.0	
	250-S	37	1.7			1950-S	24	1.3	
	300-S	35	3.1			2000-S	30	1.9	
	C-1	15	2.0			C-1	20	1.9	
	350-S	41	2.3			2050-S	48	4.6	
	400-S	70	9.5			2100-S	34	2.4	
	450-S	35	3.2			2150-S	16	1.4	
	500-S	50	6.1			2200-S	15	2.0	
	550-S	39	1.6			2250-S	69	3.1	
	600-S	55	6.5			2300-S	46	4.5	
	650-S	32	2.0			2350-S	35	2.8	
	700-S	53	2.6			2400-S	74	1.6	

W

Geochemical Lab Report

Report No. 879-7

Page No. 5

SAMPLE NO.		As ppm	Ag ppm		SAMPLE NO.		As ppm	Ag ppm	
98W	2450-S	61	3.0		92W	1550-N	25	1.0	
	2500-S	53	6.9			1600-N	23	2.1	
	2550-S	54	5.2			1650-N	40	3.0	
	2600-S	27	1.2			1700-N	28	1.9	
✓	92W 50-N	58	4.2			1750-N	14	0.9	
	100-N	55	2.3			1800-N	25	1.6	
	150-N	54	4.7			1850-N	18	1.8	
	200-N	14	0.8			1900-N	31	1.1	
	250-N	31	1.7			1950-N	22	1.0	
	C-1	18	1.8			C-1	17	2.0	
	300-N	46	4.4			2000-N	32	3.4	
	350-N	95	5.0			2050-N	27	2.5	
	400-N	58	4.3			2100-N	36	2.0	
	450-N	24	0.8			2150-N	97	4.1	
	500-N	13	0.7			2200-N	19	0.7	
	550-N	54	5.4			2250-N	59	2.2	
	600-N	26	1.3			2300-N	16	2.0	
	650-N	37	3.3			2350-N	17	1.2	
	700-N	28	2.2			2400-N	36	3.2	
	750-N	60	7.3			2450-N	22	1.9	
	800-N	44	2.7			2500-N	18	3.2	
	850-N	34	0.8			2550-N	32	3.7	
	900-N	27	1.8			2600-N	47	2.3	
	950-N	49	2.1			2650-N	11	1.1	
	1000-N	46	2.8			2700-N	22	0.8	
	1050-N	60	4.7		88W	50-N	46	5.7	
	1100-N	31	1.9			100-N	36	2.8	
	C-1	17	2.1			C-1	17	2.0	
	1150-N	22	1.3			150-N	36	5.6	
	1200-N	31	1.7			200-N	39	2.8	
	1250-N	31	2.4			250-N	54	2.9	
	1300-N	31	2.3			300-N	21	0.7	
	1350-N	16	1.2			350-N	45	3.3	
	1400-N	47	6.0			400-N	36	2.8	
	1450-N	48	3.6			450-N	23	0.9	
	1500-N	21	0.7			500-N	14	1.1	

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Geochemical Lab Report

Report No. 879-7

Page No. 6

SAMPLE NO.	As ppm	Ag ppm	SAMPLE NO.	As ppm	Ag ppm
88W 550-N	19	1.7	88W 2250-N	10	0.8
600-N	14	1.1	2300-N	65	3.9
650-N	7	0.8	2350-N	51	1.4
700-N	41	3.4	2400-N	37	5.2
750-N	29	2.1	2450-N	46	2.6
800-N	16	1.3	2500-N	12	0.7
850-N	24	0.7	2550-N	79	5.0
900-N	14	1.5	2600-N	26	1.1
950-N	17	1.3	2650-N	38	3.7
C-1	17	2.1	2700-N	36	2.7
1000-N	10	1.0	C-1	17	2.1
1050-N	12	2.3			
1100-N	25	2.0			
1150-N	48	3.9			
1200-N	32	3.2			
1250-N	10	1.3	I.S. Means	insufficient sample	
1300-N	27	2.9	ND Means	not detectable	
1350-N	27	3.1			
1400-N	20	1.4			
1450-N	17	0.8			
1500-N	24	2.1			
1550-N	36	3.9			
1600-N	21	3.8			
1650-N	44	4.2			
1700-N	26	1.2			
1750-N	108	8.3			
1800-N	30	4.7			
C-1	14	2.2			
1850-N	13	1.4			
1900-N	16	0.8			
1950-N	95	8.2			
2000-N	86	5.5			
2050-N	21	1.9			
2100-N	17	3.1			
2150-N	20	2.0			
2200-N	14	1.1			

44



31M05NE0052 2.2509 BUCKE

900

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey Soil Geochemistry
Township or Area Coleman and Bucke
Claim holder(s) St. Joseph Explorations Ltd.
90 Eglinton Ave. West, TORONTO.
Author of Report A.W. Beecham
Address 540 Rorke Ave. HALLEYBURY, Ontario
Covering Dates of Survey 27 June to 13 Oct. 1977.
(linecutting to office)
Total Miles of Line cut 13.3 Miles traversed and flagged

MINING CLAIMS TRAVERSED
List numerically

- L 296,747 (number)
- L 317,387 (number)
- L 317,389
- L 317,390
- L 317,436
- L 317,437
- L 317,438
- L 317,439
- L 317,447
- S 446,543

If space insufficient, attach list

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	<u>DAYS</u> <u>per claim</u>
ENTER 40 days (includes line cutting) for first survey.	Geophysical <u> </u>
ENTER 20 days for each additional survey using same grid.	-Electromagnetic <u> </u>
	-Magnetometer <u> </u>
	-Radiometric <u> </u>
	-Other <u> </u>
	Geological <u> </u>
	Geochemical <u> </u>

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer Electromagnetic Radiometric
(enter days per claim)

DATE: 14/10/77 SIGNATURE: A.W. Beecham
Author of Report or Agent

PROJECTS SECTION
Res. Geol. Qualifications New
Previous Surveys on this file

Checked by date

GEOLOGICAL BRANCH

Approved by LD date

GEOLOGICAL BRANCH

Approved by date

* See 'Main day breakdown'

TOTAL CLAIMS 10

OFFICE USE ONLY

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken ~~L296,747; L317,387; L317,387; L317,~~
L317,436 to L317,439,; L317,447; S446,543.

Total Number of Samples ~~1328~~ 1393

ANALYTICAL METHODS

Type of Sample A horizon soil Humus
(Nature of Material)

Values expressed in: per cent
 p. p. m.
 p. p. b.

Average Sample Weight approx. 100gm

Method of Collection collected by hand using
 small garden trowels

Cu, Pb, Zn, Ni, Co, (Ag), Mo, (As) (circle)

Soil Horizon Sampled A Horizon

Others _____

Horizon Development Moderate

Field Analysis (_____ tests)

Sample Depth ~~ix~~ 0 to 2 inches

Extraction Method _____

Terrain Moderated relief

Analytical Method _____

Rugged areas with abundant outcrops

Reagents Used _____

Drainage Development Most is well-drained

Field Laboratory Analysis

Estimated Range of Overburden Thickness 0 to 50FT

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

Dried and screened to -80 mesh

Commercial Laboratory (2786 tests)

Name of Laboratory Bondar-Clegg and Co.

Extraction Method Ag by HCl-HNO₃; As HNO₃

Analytical Method Ag A.A.; As colorimetric

Reagents Used _____

General Samples identified by
 coordinates & only.

General Standard soil sample run
 every 20 samples.

No background corrections

made in Atomic Absorption

determinations.

Dymond Twp. (M.468)

THE TOWNSHIP
2.2509^{OF}
BUCKE

DISTRICT OF
TIMISKAMING

SUDBURY
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND or ⊙
- CROWN LAND SALE CS
- LEASES ⊙
- LOCATED LAND Loc.
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- PATENTED S.R.O.
- CANCELLED C.

NOTES

- 400' surface rights reservation along the shores of all lakes and rivers.
- Staking of mining claims within Townsites shown thus ~~only~~ only with consent of the Minister.
- Flooding rights to elevation 595' above sea level in Lake Timiskaming
- Proposed Natural Gas Pipeline along Hwy II through this township
- N half Lot 8, Con. 2 subject to sanitary control of Constance of Haileybury

DATE OF ISSUE
OCT 20 1977

SURVEYS AND MAPPING

Areas withdrawn from staking under Section 43 of the Mining Act, R.S.O. 1970 (Sec. 42, R.S.O. '60).

Order No.	File	Date	Disposition
160707			S.R.O.

PLAN NO - **M. 432**

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

Firstbrook Twp. (M.475)

VI

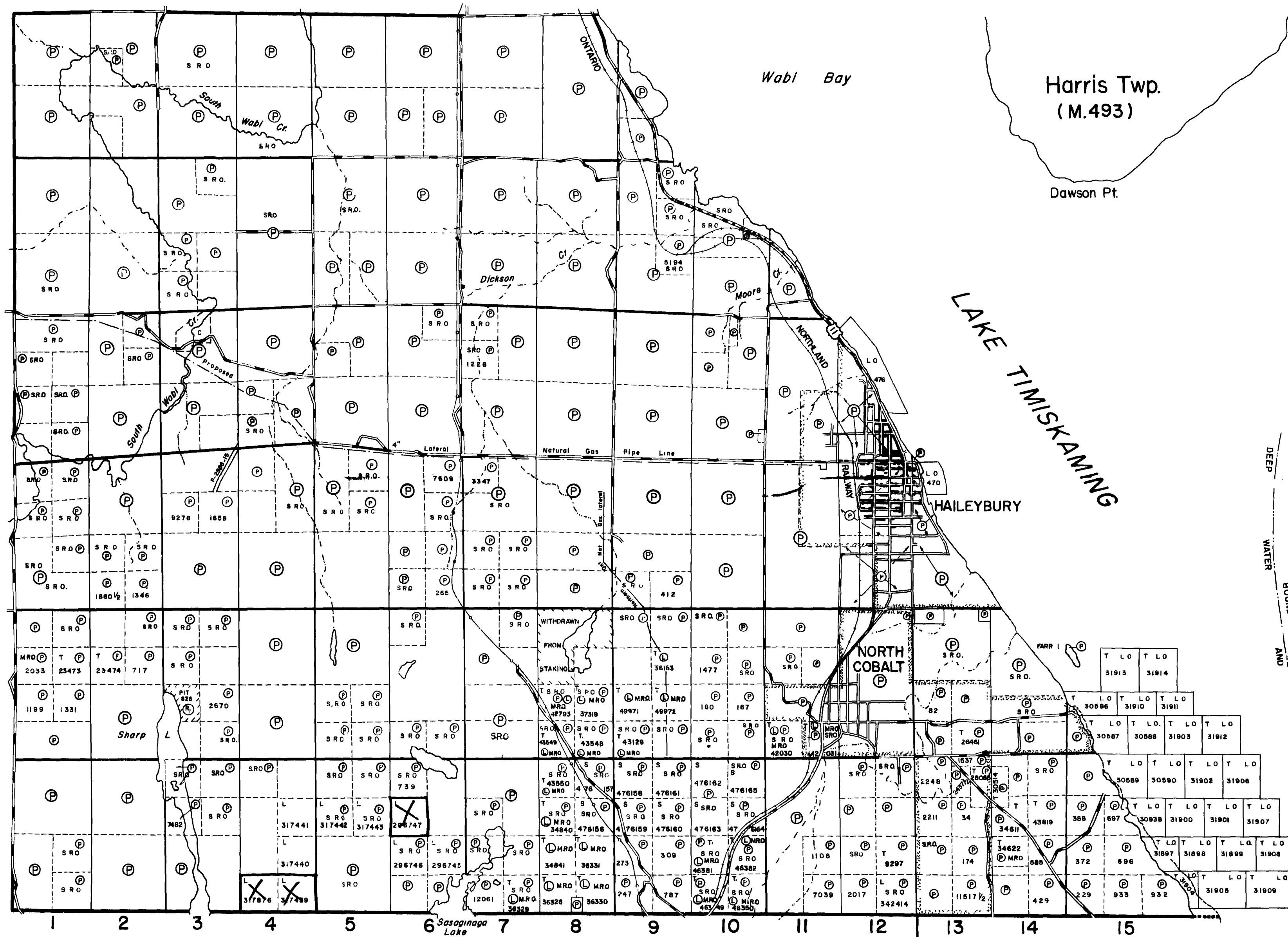
V

IV

III

II

I



Province of Quebec

DEEP WATER BOUNDARY AND LINE MAIN CHANNEL



31M05NE0052 2.2509 BUCKE

200

J.P. VON K

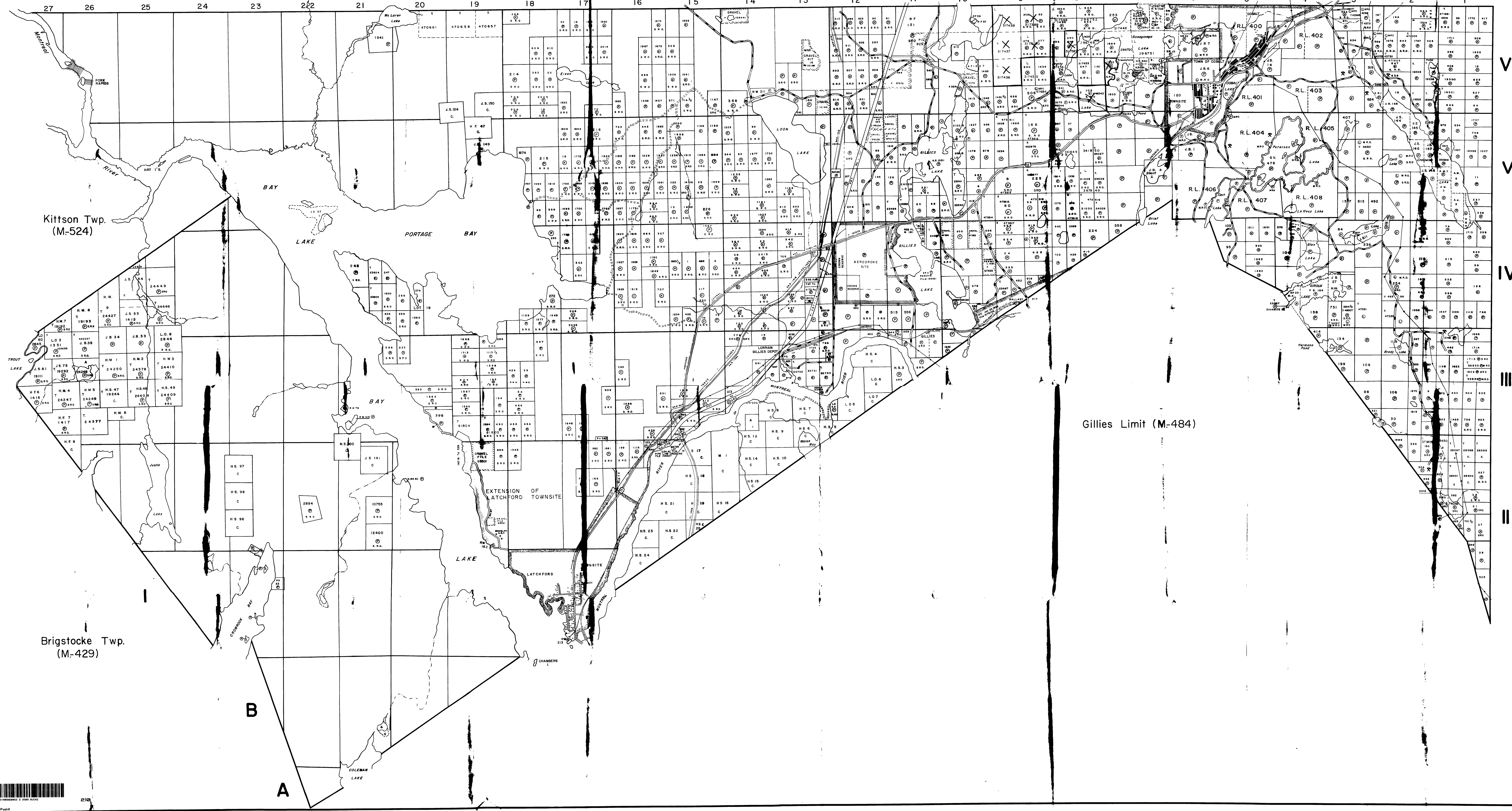
Barr Twp. (M-411)

Firstbrook Twp. (M-475)

Bucke Twp. (M-432)

2.2509

THE TOWNSHIP OF
COLEMAN
DISTRICT OF
TIMISKAMING
SUDBURY
MINING DIVISION
SCALE: 1-INCH=20 CHAINS



LEGEND

- PATENTED LAND
- CROWN LAND SALE
- LEASES
- LOCATED LAND
- LICENSE OF OCCUPATION
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- ROADS
- IMPROVED ROADS
- KINGS HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- UNDEVELOPED S.R.O.
- CANCELLED

NOTES

- 400' surface rights reservation along the shores of all lakes and rivers
- L.O. 7151 Covers Flooding Rights on Montreal River to H.E.P.C.
- Mining claims on Clear Lake etc. subject to water reservation to the Town of Cobalt - Statutes of Ontario (1917) 7 George V. Chap 67

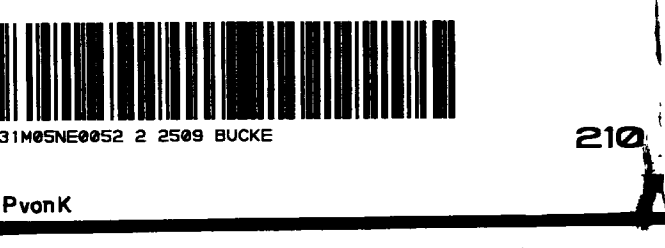
Lorrain Twp. (M-536)

Gillies Limit (M-484)

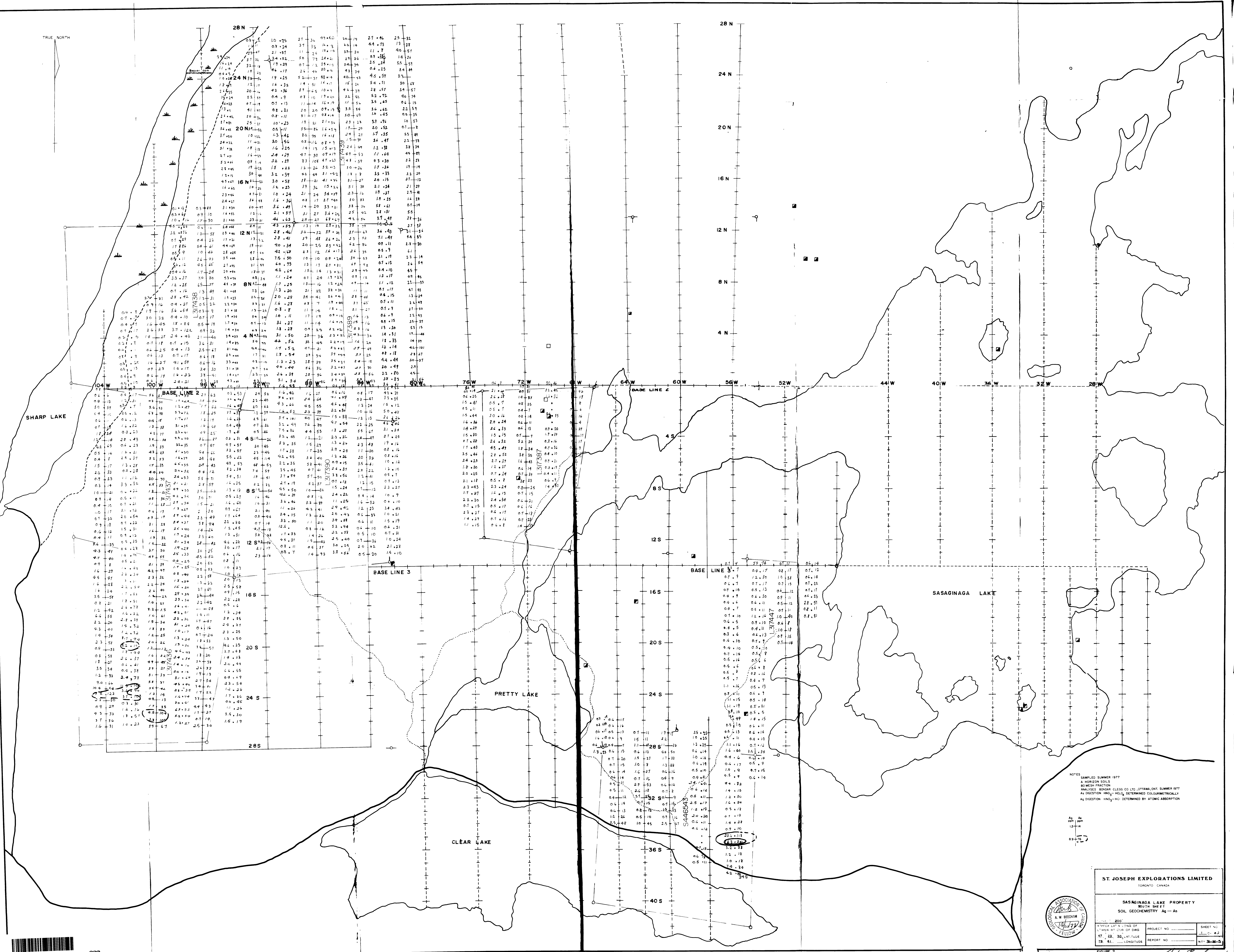
Kittson Twp. (M-524)

Brigstocke Twp. (M-429)

PLAN NO-454
ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



TRUE NORTH



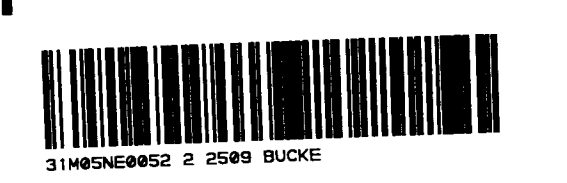
NOTES
 SAMPLED SUMMER 1977
 8" HORIZON SOILS
 80 MESH FRACTION
 ANALYSES: BORON CLEGG CO. LTD., OTTAWA, ONT. SUMMER 1977
 Ag DIGESTION: HNO₃-HCl; DETERMINED COLORIMETRICALLY
 As DIGESTION: HNO₃-HCl; DETERMINED BY ATOMIC ABSORPTION

Ag
 ppm
 12-14
 89-92

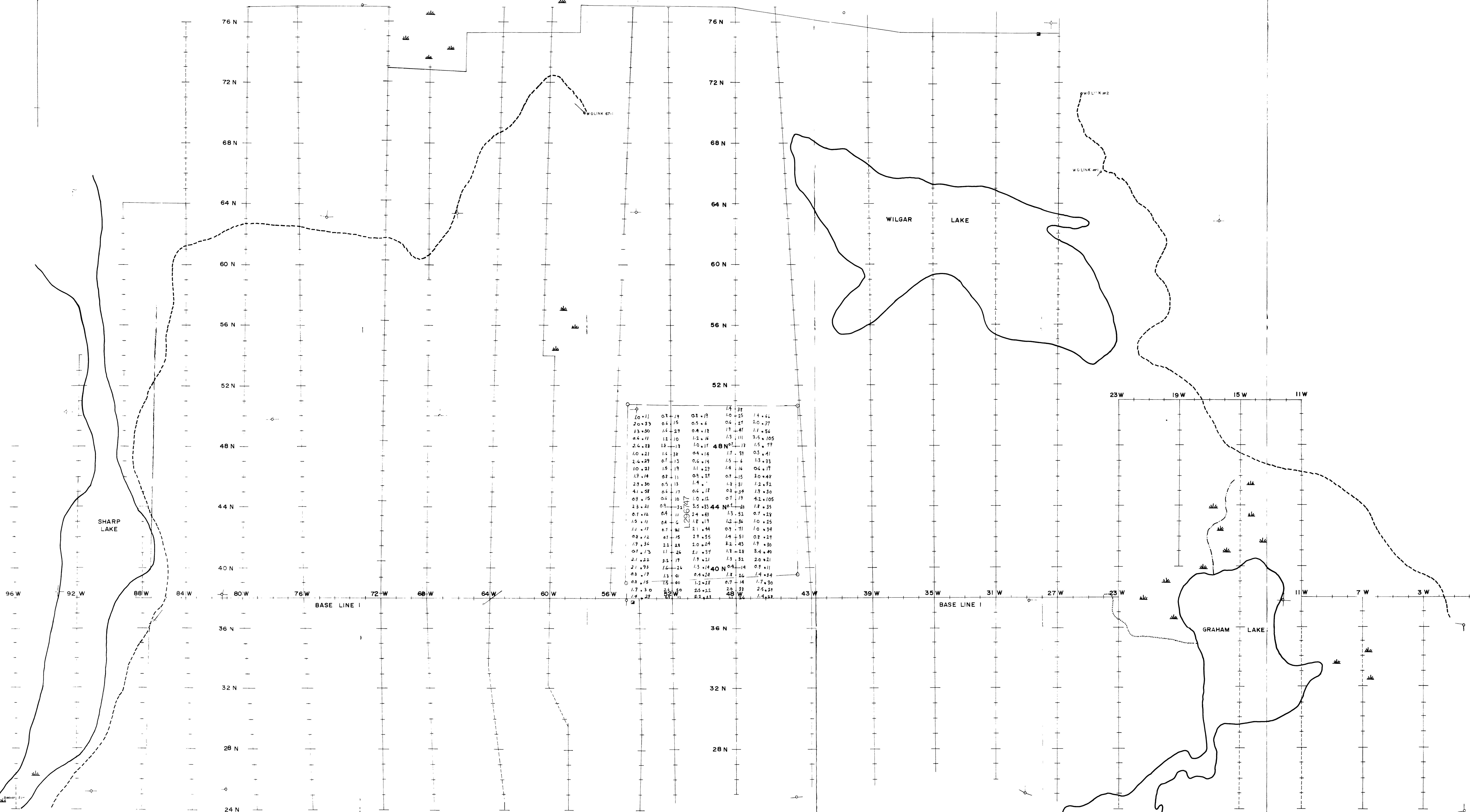
ST. JOSEPH EXPLORATIONS LIMITED
 TORONTO, CANADA

SASAGINAGA LAKE PROPERTY
 SOUTH SHEET
 SOIL GEOCHEMISTRY Ag-As

PROJECT NO. _____ SHEET NO. _____
 REPORT NO. _____ DATE _____

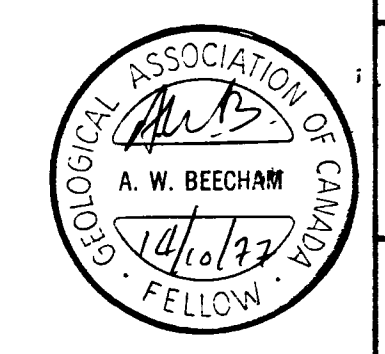


TRUE NORTH



10-11	01-19	01-19	14-38	14-64
20-33	04-15	05-6	04-27	20-27
13-30	15-29	04-18	13-111	11-56
04-17	12-10	12-16	10-11	15-105
24-28	18-13	10-11	17-39	05-41
24-29	07-13	06-14	15-6	13-33
10-21	15-19	11-29	14-16	04-19
13-14	08-11	09-28	07-15	30-48
29-30	05-13	14-	18-81	13-32
41-58	04-17	06-18	02-34	19-30
09-15	04-10	10-12	07-19	42-105
23-21	09-13	35-43	44-20	18-35
07-12	04-11	24-48	13-53	07-28
15-11	04-6	18-19	12-36	10-25
11-11	07-21	21-44	09-71	10-39
02-12	01-15	29-35	14-51	09-29
19-34	21-21	10-24	32-43	19-30
07-13	11-26	21-37	18-28	84-40
21-22	21-19	19-21	13-32	20-21
21-23	16-14	13-14	04-19	09-11
03-19	13-41	04-28	12-26	14-34
03-15	15-40	12-28	07-14	17-30
17-30	25-21	25-21	28-33	25-21
17-27	25-21	25-21	48-34	14-32

NOTES
 AS PER 1994
 13-14
 89-76
 SEE SHEET



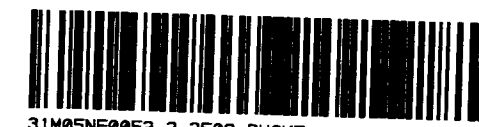
ST. JOSEPH EXPLORATIONS LIMITED
 TORONTO, CANADA

SASAGINAGA LAKE PROPERTY
 (NORTH SHEET)

SOIL GEOCHEMISTRY A₀ - A₅

SCALE: 1:200'
 APPROX. LAT. & LONG. OF LOWER RT. COR. OF DWG.
 47° 23' 30" LATITUDE
 79° 41' 00" LONGITUDE

PROJECT NO.	_____	SHEET NO.	2 OF 2
REPORT NO.	_____	DATE	3-11-76



A. W. Becham 12/1/76