



31L11NW0006 2.13635 MCAUSLAN

010

OCT 29 1990

MINING LANDS SECTION

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REPORT ON THE
GEOCHEMICAL SAMPLING AND GEOLOGICAL MAPPING
OF AN ORTHOQUARTZITE DEPOSIT
IN
McAUSLAN TOWNSHIP
SUDBURY MINING DIVISION
ONTARIO

REPORT ON WORK PERFORMED UNDER O.P.A.P. GRANT

October, 1990

William A. Hogg

TABLE OF



31L11NW0006 2.13635 MCAUSLAN

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INTRODUCTION	1
LOCATION AND ACCESS	4
GEOLOGY	4
STRUCTURE	5
GEOCHEMISTRY	5
SPECIFICATIONS AND USES OF SILICA	6
CONCLUSIONS AND RECOMMENDATIONS	8
REFERENCES	9
CERTIFICATE OF QUALIFICATIONS	10

LIST OF FIGURES

FIGURE 1	GENERAL LOCATION MAP	2
FIGURE 2	CLAIM LOCATION MAP	3
FIGURE 3	GEOLOGY MAP SILICA PROSPECT MCAUSLAN TOWNSHIP	in pocket
FIGURE 4	SAMPLE LOCATION MAP SILICA PROSPECT, MCAUSLAN TOWNSHIP	in pocket

APPENDIX I

GEOCHEMICAL ASSAY RESULTS

APPENDIX II

PHOTOGRAPHS OF DEPOSIT

REPORT ON THE GEOCHEMICAL SAMPLING AND GEOLOGICAL MAPPING
OF AN ORTHOQUARTZITE SILICA DEPOSIT IN
MCAUSLAN TOWNSHIP, SUDBURY MINING DIVISION, ONTARIO
REPORT ON WORK PERFORMED UNDER O.P.A.P. GRANT

INTRODUCTION

The property was staked in June, 1988 and recorded in the Sudbury Mining Division under the author's name, William A. Hogg, 22 Maxome Avenue, Willowdale, Ontario, and who also undertook the geological mapping and geochemical sampling of the rock outcrop on the property.

The claims covered by the survey total 6 in number, are contiguous and are numbered S1017435 to S1017440 inclusive.

The property is largely forest covered and underlain by a fine glacial sand, boulders and high ridges of orthoquartzite. The prospecting and geological survey was completed during August-September, 1990. This work was supported by a grant under the Ontario Prospectors Assistance Program 1990-91. The main purpose was to locate and sample the deposit surface exposures uniformly to determine the average grade and suitability for an economic industrial mineral deposit.

Five stripped and trenched sites occur along the west side of the deposit on claims S1017436 and S1017438. They were first described in a report and sketch map presented to O.P.A.P. in January, 1990.

The geological map presented with this report shows the stripping and trenching completed in December, 1989. During August and September, 1990, these locations were re-examined and sampled since they are possible sites for bulk testing.

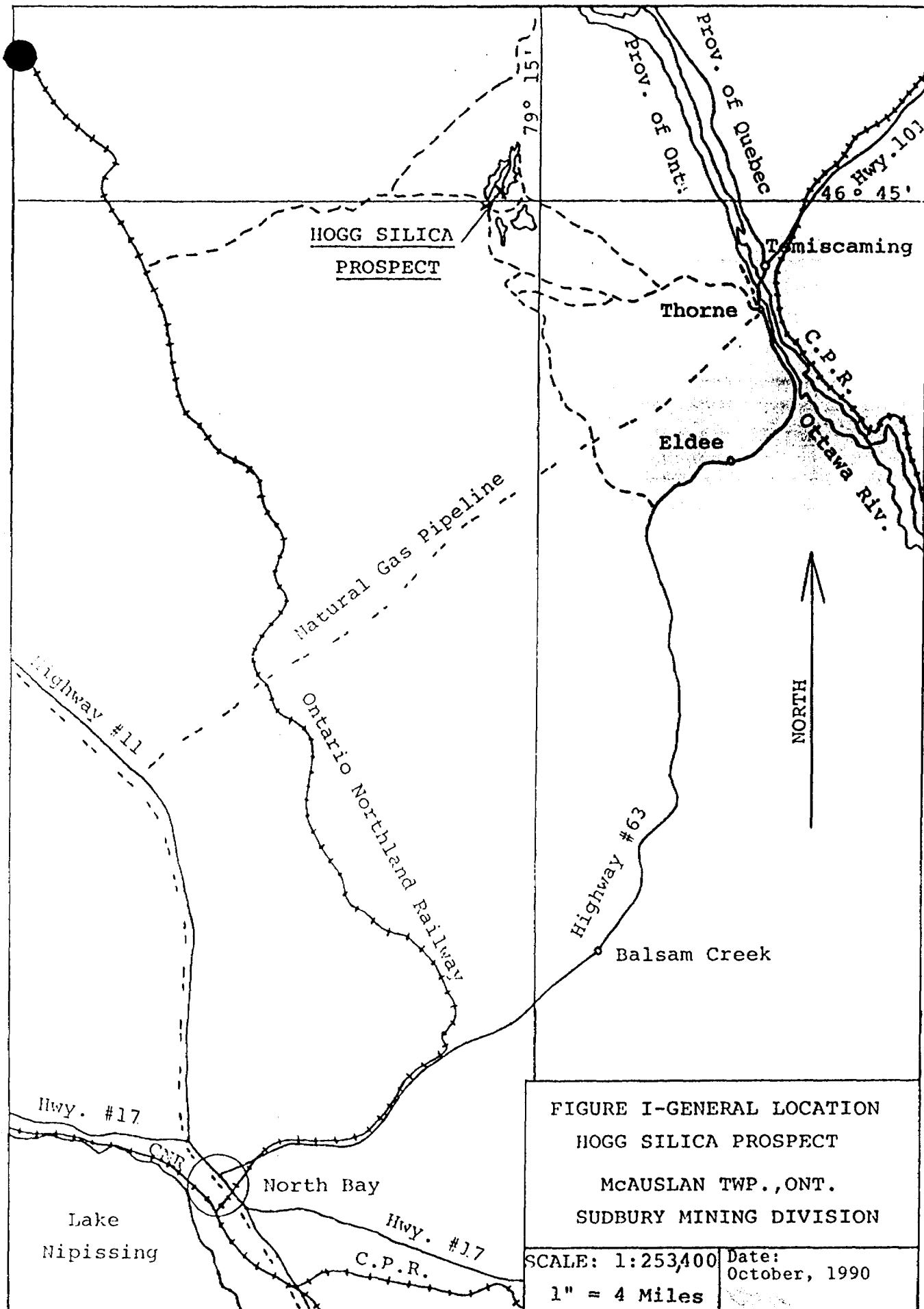


FIGURE I-GENERAL LOCATION
HOGG SILICA PROSPECT
MCAUSLAN TWP., ONT.
SUDBURY MINING DIVISION

SCALE: 1:253,400 1" = 4 Miles	Date: October, 1990
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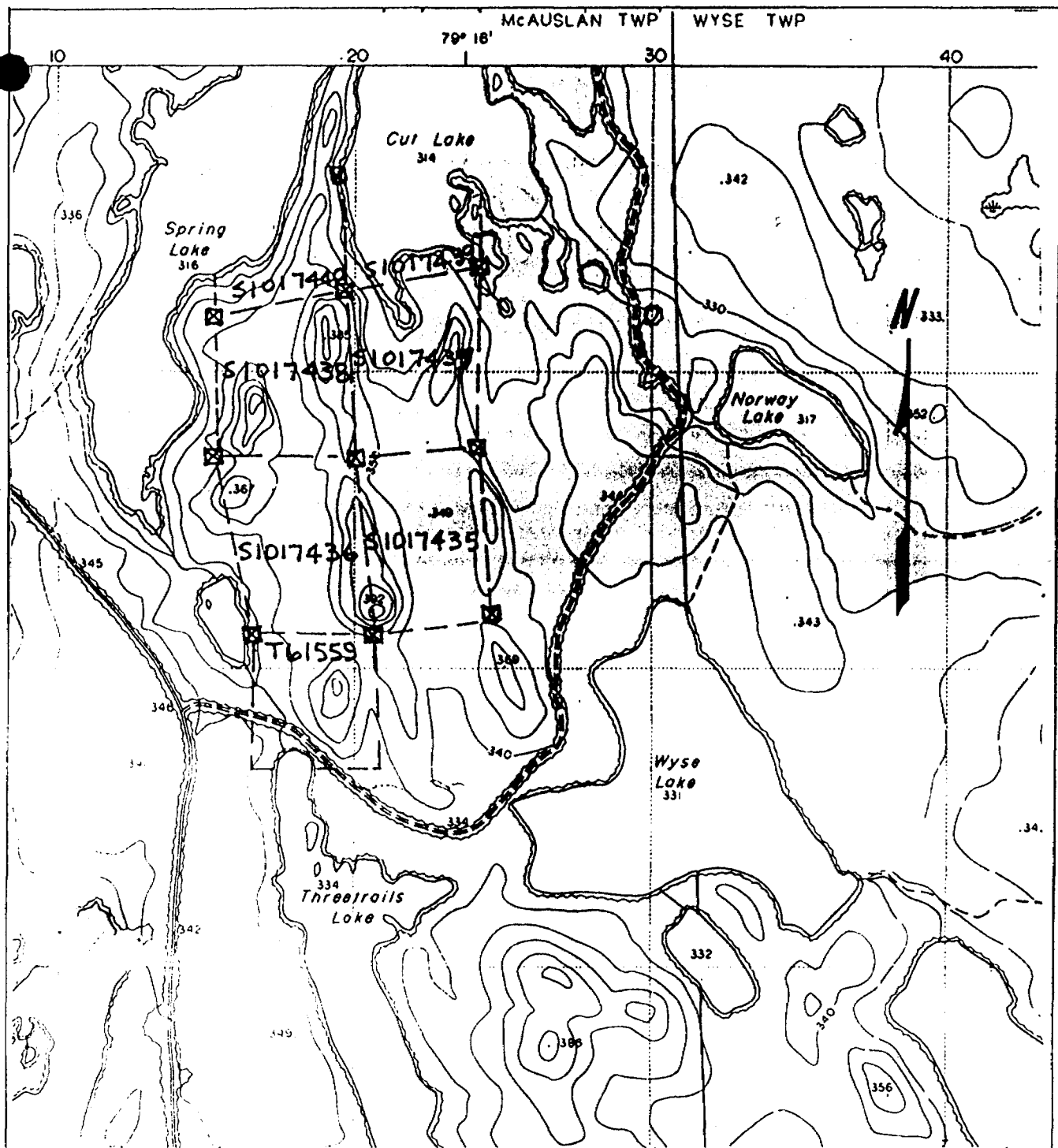


FIGURE II - CLAIMS LOCATION

HOGG SILICA PROSPECT

McAUSLAN TWP., ONT.

SUDBURY MINING DIVISION

SCALE: 1:20,000
or 1" = 1,667 Feet

DATE: October, 1990

TO Hwy. #63 →

LOCATION AND ACCESS

The property is situated approximately 50 kilometers north of North Bay, Ontario and can be reached from North Bay by highway 63, a distance of 64 kilometers along a paved road and thence by a gravel forest access road to the property, a distance of 33 kilometers. This forest access road then leads westward to a spur on the Ontario Northland Railway, a distance of approximately 20 kilometers. The Canadian Pacific Railway at Temiskaming, a distance of 47 kilometers is also accessible.

GEOLOGY

The exposed outcrops on the claims are, with the exception of a narrow diabase dyke, all quartzite composed of interlocking grains of quartz together with subordinate sericite and iron oxide.

A chemical analysis of the quartzite may average silica 95-99, iron oxide 0.02-0.8, alumina 0.4-1.29, calcium oxide 0.01-0.02, magnesium oxide 0.01-0.02, sodium oxide 0.01-0.03, potassium oxide 0.07-0.18, titanium oxide 0.11 percent.

This silica-cemented quartz sand is an orthoquartzite, a metamorphosed member of a clastic sequence of siliceous meta-sediments of Middle Precambrian age. Loosely packed quartz pebbles can be recognized and in places rare bluish grey and rose colored quartz pebbles and boulders have been observed.

The strike of the quartzite beds is from north to 10 degrees west of north and dips are from 40 to 45 degrees west.

Visual examination of the rock outcrops in the field and a close viewing of samples collected confirm the presence of a widespread occurrence of a high silica orthoquartzite.

A diabase dyke exposed by trenching on the east part of the large outcrop (Reference Area 2 on claim S-1017438) is 15 feet wide and dips near vertical.

The strike is north 10 degrees west. It is a quartz diabase and is composed of silica and hornblende with minor biotite.

STRUCTURE

Although the bedding of this clastic quartzite has been metamorphosed almost beyond recognition, tight folding has been recognized in places by the light and dark banded quartzite and the presence of distorted boulders. The outcrop situated in the northwest part of claim S1017438 has these features.

The bedding in most of the outcrops has a north strike and a west dip of 40 to 50 degrees.

Along the east flank of the three large outcrops are vertical dipping fault escarpments striking north to north 10 degrees west. The fault escarpment is steep and in places the drop-off is greater than 100 feet. This probably indicates the presence of block faulted structures.

GEOCHEMISTRY

One hundred and forty seven rock geochemical samples were collected on grids over the outcrops and are shown on the sample location map included with this report.

The large southern outcrop located astride claims S1017435 and S1017436 has been sampled in greater detail. The samples numbered 501-605 have been assayed for silica by fusion and a 24 element total digestion package. This provides quantitative analysis of all major elements except silica, as well as many of the important trace elements.

The certificate of analysis (A9022592) by Chemex Labs Ltd. for the above samples are included as part of this report.

Samples 607-647 inclusive, collected from the northern outcrop in claims S1017437 to S1017440 are being held for future analyses.

Three samples from a trench 200 feet north on the base line from claim post S1017435-1 and S1017436-2 analysed by Assayers Ontario Laboratories are included. Another analysis by Chemex Labs Ltd., Vancouver, from the same trench and submitted to Brenda Exploration is also included.

SPECIFICATIONS AND USES OF SILICA

SILICA FLUX

7/8 sand and 1/8 fine quartzite. 96% SiO₂. It is crushed to minus 3/4 inch.

FERROSILICON

3/4 to 5 inch in diameter. 97.5% or over, average is 98 to 99%.
1% Al, .5% Iron, 0.2 to .4% MgO, less than 0.2% CaO. No arsenic.

SILICON CARBIDE

Content 99.25%, no Lime, Magnesia or Phosphorous. Iron and Alumina below 0.10%. A.F.A. mesh number 35.

SILICA BRICK

96 to 98% SiO₂ (Silica) or greater, Alumina less than 1.0%, Iron Oxides less than 1.0%, combined Iron and Alumina under 1.5%.
Alkalis, Magnesia and Lime should be low.

GLASS SAND

20 mesh, not more than 3% should pass 80 mesh. Moisture not more than 2.5%, Chromium not over 6 parts per million, Cobalt not over 2 parts per million. SiO₂-99.85%, Al₂O₃-0.02%, Fe₂O₃-0.22%, TiO₂-0.01%, CaO-0.02%, MgO-0.01%, CO₂-0.078%, Cr-0.0002%.

QUALITY

	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	Ca + MgO
First quality, optical glass	99.8%	0.1%	0.02%	0.1%
Second quality, flint glass	98.5	0.5	0.035	0.2
Third quality, flint glass	95.0	4.0	0.035	0.2
Fourth quality, sheet glass	98.5	4.0	0.035	0.5
Fifth quality, sheet glass	95.0	4.0	0.06	0.5
Sixth quality, green glass	98.0	0.5	0.3	0.5
Seventh quality, green glass	95.0	4.0	0.3	0.5
Eighth quality, amber glass	98.0	0.5	1.0	0.5
Ninth quality, amber glass	95.0	4.0	1.0	0.5

ENAMELS

Iron less than 0.2%, Alumina less than 0.5%, Silica more than 97.5%.

SODIUM SILICATE

99% silica, less than 0.05% iron, below 0.05% titania. below 0.5% alumina, below 0.1% magnesia and lime. Sized from 20+ to 100 mesh.

USES

Portland Cement, Pottery Flint, Paint Filler, Autoclaved Concrete Blocks, Sand-Lime Bricks, Fiberglass, Rock Wool, Scouring and Cleansing Powders, Matches, Roofing Paper, Fertilizer Filler.

CONCLUSIONS AND RECOMMENDATIONS

A prospecting, sampling and geological program was completed during August and September, 1990, on claims S1017435 to S101740 inclusive, in McAuslan township of the Sudbury Mining Division.

A sample location map, assay results and a geological plan and report have been completed.

The large southern outcrop on claims S1017436 and S1017435 sampled in detail has assays that confirm the presence of a large occurrence of a high silica quartzite. Sites have been defined where additional trenching, drilling and bulk sampling may be warranted.

The work completed represents a documented record of a potential industrial mineral deposit suitable for option discussion with interested parties and this approach is in progress.

Using the geochemical data, it is recommended that zones of higher than average silica be selected and bulk sampled for tests on removal of the minor impurities, such as muscovite, mica and iron oxides. Evaluation of various silica deposits by CANMET Mineral Processing Laboratories in Ottawa (1987) shows the potential for this approach to upgrade silica content to specifications for many industrial uses.

REFERENCES

- 1963 D. F. Hewitt Silica in Ontario
Industrial mineral report No. 9
Ontario Department of Mines
- 1971 S. B. Lumbers Preliminary Map P679
Geological Series Compilation
TOMIKA AREA (east half)
Scale 1 inch to 1 mile
District of Nipissing
NTS Reference 31 L/11
- 1987 P. R. A. Andrews CANADIAN SILICA RESOURCES
and C.I.M.M. Bulletin, Volume 76
R. K. Collings No. 900, April 1987

CERTIFICATE TO ACCOMPANY REPORT DATED OCTOBER 10, 1990, ON THE McAUSLAN TOWNSHIP CLAIMS, SUDBURY MINING DIVISION, ONTARIO.

I, WILLIAM A. HOGG, OF WILLOWDALE, ONTARIO CERTIFY THAT:

I am a Professional Engineer and Consulting Geologist and reside at 22 Maxome Avenue, Willowdale, in the Province of Ontario.

I am a graduate of Acadia University, Dalhousie University and McGill University and hold the degrees of B.Sc. (1950), M.Sc. (1954) and Ph.D. (1959), respectively.

I am a Member of the Association of Professional Engineers of the Province of Ontario.

I have been practising my profession in Canada, and occasionally in the United States, Cyprus, United Arab Emirates and Saudi Arabia since 1950.

The accompanying report is based on a knowledge gained from a review of published geological reports, maps and technical data on file in the Assessment Branch of the Ontario Geological Survey, Toronto.

This report covers claims S1017435 to S1017440 inclusive.

All inclusive, being all the claims referred to in the accompanying report.

Willowdale, Ontario
October, 10, 1990


William A. Hogg, Ph.D., P. Eng.

APPENDIX I



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: HOGG, WILLIAM A.

22 MAXOME AVE.
WILLOWDALE, ON
M2M 3J9

INVOICE NUMBER

I 9 0 2 2 5 9 2

BILLING INFORMATION

Date: 27-SEP-90
Project:
P.O. No.:
Account: IPN

Comments:

Billing: For analysis performed on
Certificate I9022592

Terms: Payment due on receipt of invoice
1.5% per month (18% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J-2C1

CHEMEX CODE	ANALYSIS DESCRIPTION	SAMPLES ANALYSED	UNIT PRICE	AMOUNT
378 -	SiO2 % fusion			
G24 -	G-24 24 EL. ICP	106	23.50	2491.00
Sample preparation and other charges.				
208 -	Assay - RING	106	1.75	185.50
294 -	Crush and split	106	2.25	238.50
				Total Cost \$ 2915.00
TOTAL PAYABLE (CDN) \$				2915.00



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 416-624-2806

To: HOGG, WILLIAM A.

22 MAXOME AVE.
WILLOWDALE, ON
M2M 3J9

A9022592

Comments:

CERTIFICATE

A9022592

HOGG, WILLIAM A.

Project:
P.O. #:

Samples submitted to our lab in Mississauga, ON.
This report was printed on 27-SEP-90.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
208	106	Assay ring to approx 150 mesh
294	106	Crush and split (0-10 pounds)
232	106	PERCHLORIC-NITRIC-HYDROFLUORIC D

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
378	106	SiO ₂ %: Carbonate fusion	GRAVIMETRIC	0.01	100.00
578	106	Ag ppm: 24 element, rock & core	AAS	0.5	200
573	106	Al %: 24 element, rock & core	ICP-AES	0.01	25.0
565	106	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
575	106	Ba ppm: 24 element, rock & core	ICP-AES	0.5	10000
561	106	Bi ppm: 24 element, rock & core	ICP-AES	2	10000
576	106	Ca %: 24 element, rock & core	ICP-AES	0.01	25.0
562	106	Cd ppm: 24 element, rock & core	ICP-AES	0.5	10000
563	106	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	106	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	106	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
566	106	Fe %: 24 element, rock & core	ICP-AES	0.01	25.0
584	106	K %: 24 element, rock & core	ICP-AES	0.01	20.0
570	106	Mg %: 24 element, rock & core	ICP-AES	0.01	20.0
568	106	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	106	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
583	106	Na %: 24 element, rock & core	ICP-AES	0.01	5.00
564	106	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	106	P ppm: 24 element, rock & core	ICP-AES	10	10000
560	106	Pb ppm: 24 element, rock & core	ICP-AES	2	10000
582	106	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
579	106	Ti %: 24 element, rock & core	ICP-AES	0.01	10.00
572	106	V ppm: 24 element, rock & core	ICP-AES	1	10000
556	106	W ppm: 24 element, rock & core	ICP-AES	10	10000
558	106	Zn ppm: 24 element, rock & core	ICP-AES	2	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 5175 Timberlea Blvd., Mississauga,
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 Invoice Date : 27-SEP-90
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CERTIFICATE OF ANALYSIS A9022592

SAMPLE DESCRIPTION	PREP CODE	SiO2 % fusion	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
294501	208 294	92.23	< 0.5	0.79	50	< 0.5	< 2	0.26	< 0.5	1	192	8	0.71	0.24	0.09
294502	208 294	90.46	< 0.5	0.57	10	< 0.5	< 2	0.07	< 0.5	1	169	9	0.48	0.15	0.03
294503	208 294	93.57	< 0.5	0.29	< 10	< 0.5	< 2	0.01	< 0.5	< 1	135	1	0.37	0.07	< 0.01
294504	208 294	94.28	< 0.5	0.38	10	< 0.5	< 2	0.01	< 0.5	< 1	108	1	0.46	0.11	< 0.01
294505	208 294	92.82	< 0.5	0.41	< 10	< 0.5	< 2	< 0.01	< 0.5	< 1	127	2	0.40	0.07	< 0.01
294506	208 294	94.12	< 0.5	0.34	< 10	< 0.5	< 2	0.02	< 0.5	2	164	5	0.34	0.06	< 0.01
294507	208 294	93.08	< 0.5	0.37	10	< 0.5	< 2	< 0.01	< 0.5	< 1	140	2	0.30	0.08	< 0.01
294508	208 294	92.66	< 0.5	1.73	90	0.5	< 2	0.01	< 0.5	2	318	2	0.55	0.70	0.02
294509	208 294	92.41	< 0.5	0.83	20	< 0.5	< 2	< 0.01	< 0.5	< 1	276	1	0.45	0.24	< 0.01
294510	208 294	92.28	< 0.5	0.89	80	< 0.5	< 2	< 0.01	< 0.5	< 1	193	1	0.59	0.30	< 0.01
294511	208 294	92.41	< 0.5	2.00	140	< 0.5	< 2	< 0.01	< 0.5	3	263	2	0.52	0.84	0.01
294512	208 294	71.91	< 0.5	6.95	1310	2.0	2	0.04	< 0.5	16	239	1	2.36	3.63	0.87
294513	208 294	93.75	< 0.5	1.25	180	< 0.5	< 2	< 0.01	< 0.5	1	272	3	0.57	0.51	0.01
294514	208 294	91.21	< 0.5	1.19	110	< 0.5	< 2	< 0.01	< 0.5	1	258	3	0.57	0.45	0.01
294515	208 294	94.06	< 0.5	0.56	20	< 0.5	< 2	< 0.01	< 0.5	< 1	155	1	0.32	0.20	< 0.01
294516	208 294	93.58	< 0.5	0.53	40	< 0.5	< 2	< 0.01	< 0.5	1	187	1	0.37	0.18	< 0.01
294517	208 294	94.91	< 0.5	0.34	< 10	< 0.5	< 2	< 0.01	< 0.5	< 1	178	1	0.30	0.10	< 0.01
294518	208 294	89.68	< 0.5	0.75	80	0.5	< 2	< 0.01	< 0.5	< 1	345	2	0.64	0.21	< 0.01
294519	208 294	92.43	< 0.5	0.43	20	< 0.5	< 2	< 0.01	< 0.5	< 1	281	1	0.77	0.12	< 0.01
294520	208 294	88.97	< 0.5	0.46	< 10	< 0.5	< 2	< 0.01	< 0.5	< 1	306	4	0.40	0.09	< 0.01
294521	208 294	93.98	< 0.5	0.49	10	< 0.5	< 2	< 0.01	< 0.5	< 1	194	4	0.37	0.13	< 0.01
294522	208 294	94.58	< 0.5	0.79	40	< 0.5	< 2	< 0.01	< 0.5	1	229	2	0.39	0.26	< 0.01
294523	208 294	94.15	< 0.5	1.50	120	0.5	< 2	< 0.01	< 0.5	1	222	1	0.42	0.63	0.01
294524	208 294	96.33	< 0.5	0.93	110	< 0.5	< 2	< 0.01	< 0.5	< 1	252	1	0.47	0.41	< 0.01
294525	208 294	91.66	< 0.5	0.66	60	< 0.5	< 2	< 0.01	< 0.5	1	270	2	0.61	0.23	< 0.01
294526	208 294	96.54	< 0.5	0.18	< 10	< 0.5	< 2	< 0.01	< 0.5	< 1	264	1	0.36	0.04	< 0.01
294527	208 294	91.76	< 0.5	0.49	50	< 0.5	< 2	< 0.01	< 0.5	< 1	282	3	0.53	0.14	< 0.01
294528	208 294	96.52	< 0.5	0.11	< 10	< 0.5	< 2	< 0.01	< 0.5	< 1	261	1	0.34	< 0.01	< 0.01
294529	208 294	93.89	< 0.5	0.40	60	< 0.5	< 2	< 0.01	< 0.5	< 1	221	1	0.50	0.12	< 0.01
294530	208 294	94.49	< 0.5	0.55	50	0.5	< 2	< 0.01	< 0.5	1	417	1	0.64	0.16	< 0.01
294531	208 294	92.45	< 0.5	0.27	< 10	< 0.5	< 2	< 0.01	< 0.5	< 1	264	3	0.47	0.02	< 0.01
294532	208 294	93.95	< 0.5	0.58	10	< 0.5	< 2	< 0.01	< 0.5	< 1	177	1	0.40	0.17	< 0.01
294533	208 294	97.05	< 0.5	0.83	40	< 0.5	< 2	< 0.01	< 0.5	< 1	302	2	0.42	0.34	< 0.01
294534	208 294	90.80	< 0.5	2.38	140	0.5	< 2	< 0.01	< 0.5	2	299	1	0.65	0.97	0.02
294535	208 294	92.97	< 0.5	0.86	60	< 0.5	< 2	< 0.01	< 0.5	1	230	1	0.42	0.32	< 0.01
294536	208 294	91.34	< 0.5	1.03	50	< 0.5	< 2	< 0.01	< 0.5	2	278	1	0.67	0.38	0.01
294537	208 294	93.94	< 0.5	0.36	40	< 0.5	< 2	< 0.01	< 0.5	< 1	269	2	0.38	0.09	< 0.01
294538	208 294	95.04	< 0.5	0.17	< 10	< 0.5	< 2	< 0.01	< 0.5	< 1	226	< 1	0.31	0.02	< 0.01
294539	208 294	90.93	< 0.5	0.37	20	< 0.5	< 2	< 0.01	< 0.5	< 1	222	1	0.42	0.08	< 0.01
294540	208 294	92.21	< 0.5	0.35	10	< 0.5	< 2	< 0.01	< 0.5	1	217	2	0.51	0.07	< 0.01

CERTIFICATION: _____

B. Coughlin



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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Ontario, Canada L4W 2S3
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Project :
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Page Number : 1-B
Total Pages : 3
Invoice Date : 27-SEP-90
Invoice No. : 9022592
P.O. Number :

CERTIFICATE OF ANALYSIS A9022592

SAMPLE DESCRIPTION	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
294501	208 294	95	< 1	0.05	6	40	2	26	0.03	14	< 10	14			
294502	208 294	55	< 1	0.02	5	30	8	16	0.01	5	< 10	10			
294503	208 294	20	< 1	0.01	3	30	8	20	0.01	2	< 10	6			
294504	208 294	25	< 1	0.01	3	20	4	13	0.01	2	< 10	2			
294505	208 294	20	< 1	0.01	2	30	4	24	0.01	2	< 10	4			
294506	208 294	25	< 1	0.01	4	70	4	17	< 0.01	2	< 10	2			
294507	208 294	75	< 1	0.01	3	20	4	17	< 0.01	2	< 10	2			
294508	208 294	30	< 1	0.08	7	40	4	52	0.04	6	< 10	12			
294509	208 294	25	< 1	0.02	4	20	< 2	16	0.02	2	< 10	6			
294510	208 294	40	< 1	0.03	4	20	2	21	0.02	2	< 10	4			
294511	208 294	25	< 1	0.09	6	30	2	34	0.03	4	< 10	6			
294512	208 294	1775	< 1	0.28	24	180	2	33	0.28	57	< 10	122			
294513	208 294	170	1	0.05	5	50	< 2	25	0.03	8	< 10	2			
294514	208 294	20	< 1	0.05	4	50	< 2	26	0.03	6	< 10	4			
294515	208 294	15	< 1	0.02	4	20	< 2	18	0.01	3	< 10	2			
294516	208 294	20	< 1	0.02	3	30	< 2	16	0.01	4	< 10	2			
294517	208 294	15	< 1	0.01	3	30	< 2	29	0.01	2	< 10	10			
294518	208 294	25	< 1	0.03	4	50	< 2	33	0.02	4	< 10	6			
294519	208 294	50	< 1	0.01	6	40	< 2	25	0.02	3	< 10	4			
294520	208 294	30	< 1	0.01	4	30	< 2	18	0.01	2	< 10	6			
294521	208 294	30	< 1	0.02	4	30	< 2	21	0.01	2	< 10	6			
294522	208 294	30	< 1	0.03	3	50	2	22	0.01	2	< 10	6			
294523	208 294	20	< 1	0.07	5	20	4	29	0.02	3	< 10	4			
294524	208 294	15	< 1	0.04	3	30	< 2	11	0.02	6	< 10	4			
294525	208 294	20	< 1	0.02	4	40	< 2	16	0.02	6	< 10	6			
294526	208 294	15	< 1	0.01	4	30	< 2	23	< 0.01	2	< 10	6			
294527	208 294	30	< 1	0.01	4	70	< 2	36	0.01	3	< 10	6			
294528	208 294	20	< 1	< 0.01	3	10	4	11	< 0.01	1	< 10	14			
294529	208 294	20	< 1	0.01	4	50	2	26	0.01	2	< 10	6			
294530	208 294	30	< 1	0.02	5	30	2	18	0.01	4	< 10	10			
294531	208 294	35	< 1	0.01	5	40	4	24	0.01	2	< 10	6			
294532	208 294	30	< 1	0.02	3	30	< 2	30	0.01	2	< 10	6			
294533	208 294	25	1	0.04	5	20	< 2	25	0.01	4	< 10	8			
294534	208 294	20	< 1	0.12	6	30	< 2	41	0.05	4	< 10	4			
294535	208 294	20	< 1	0.04	3	40	< 2	29	0.02	2	< 10	4			
294536	208 294	30	< 1	0.05	4	40	< 2	27	0.03	4	< 10	4			
294537	208 294	25	< 1	0.01	3	30	< 2	19	0.01	1	< 10	6			
294538	208 294	20	< 1	< 0.01	3	20	< 2	15	< 0.01	1	< 10	4			
294539	208 294	20	< 1	0.01	5	40	< 2	19	0.01	2	< 10	4			
294540	208 294	25	< 1	0.01	4	40	< 2	19	0.01	3	< 10	4			

CERTIFICATION:

B. Coughlin



Chemex Labs Ltd.

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 PHONE: 416-624-2806

To: HOGG, WILLIAM A.

22 MAXOME AVE.
 WILLOWDALE, ON
 M2M 3J9

Project :
 Comments:

Page Number : 2-A
 Total Pages : 3
 Invoice Date : 27-SEP-90
 Invoice No. : A9022592
 P.O. Number :

CERTIFICATE OF ANALYSIS A9022592

SAMPLE DESCRIPTION	PREP CODE	SiO2 % fusion	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
294541	208 294	94.89	< 0.5	0.35	40	< 0.5	< 2	< 0.01	< 0.5	< 1	156	2	0.33	0.10	< 0.01
294542	208 294	92.74	< 0.5	0.73	40	< 0.5	< 2	< 0.01	< 0.5	< 1	246	2	0.39	0.26	< 0.01
294543	208 294	94.71	< 0.5	0.60	70	< 0.5	< 2	< 0.01	< 0.5	1	182	2	0.42	0.24	< 0.01
294544	208 294	95.39	< 0.5	0.36	170	< 0.5	< 2	< 0.01	< 0.5	< 1	214	1	0.39	0.12	< 0.01
294545	208 294	95.25	< 0.5	1.37	50	< 0.5	< 2	< 0.01	< 0.5	1	197	< 1	0.38	0.62	< 0.01
294546	208 294	90.88	< 0.5	2.60	210	< 0.5	< 2	0.01	< 0.5	4	252	< 1	0.87	1.27	0.01
294547	208 294	92.15	< 0.5	2.14	300	< 0.5	< 2	< 0.01	< 0.5	< 1	209	1	0.58	0.93	0.01
294548	208 294	93.77	< 0.5	0.57	40	< 0.5	< 2	< 0.01	< 0.5	< 1	191	1	0.82	0.20	< 0.01
294549	208 294	94.57	< 0.5	0.50	50	< 0.5	< 2	< 0.01	< 0.5	< 1	163	2	0.44	0.16	< 0.01
294550	208 294	93.10	< 0.5	0.31	10	< 0.5	< 2	< 0.01	< 0.5	< 1	179	< 1	0.38	0.09	< 0.01
294601	208 294	93.84	< 0.5	0.47	10	< 0.5	< 2	< 0.01	< 0.5	< 1	156	2	0.39	0.12	< 0.01
294602	208 294	92.56	< 0.5	0.51	40	< 0.5	< 2	< 0.01	< 0.5	1	150	1	0.52	0.15	< 0.01
294603	208 294	93.22	< 0.5	0.48	10	< 0.5	< 2	< 0.01	< 0.5	< 1	162	1	0.62	0.17	< 0.01
294604	208 294	93.82	< 0.5	0.42	20	< 0.5	< 2	< 0.01	< 0.5	< 1	260	1	0.60	0.12	< 0.01
294605	208 294	95.43	< 0.5	1.42	40	< 0.5	< 2	< 0.01	< 0.5	< 1	227	1	0.45	0.63	< 0.01
294606	208 294	98.58	< 0.5	0.20	50	< 0.5	< 2	< 0.01	< 0.5	< 1	293	< 1	0.29	0.08	< 0.01
294651	208 294	92.40	< 0.5	0.49	10	< 0.5	< 2	< 0.01	< 0.5	< 1	286	1	0.67	0.17	< 0.01
294652	208 294	96.14	< 0.5	0.36	10	< 0.5	< 2	< 0.01	< 0.5	< 1	200	1	0.30	0.11	< 0.01
294653	208 294	94.13	< 0.5	0.33	20	< 0.5	< 2	< 0.01	< 0.5	< 1	200	1	0.36	0.08	< 0.01
294654	208 294	92.15	< 0.5	0.59	30	< 0.5	< 2	< 0.01	< 0.5	1	107	2	0.38	0.19	< 0.01
294655	208 294	95.79	< 0.5	0.57	30	< 0.5	< 2	0.01	< 0.5	1	199	1	0.44	0.13	< 0.01
294656	208 294	93.62	< 0.5	1.77	100	0.5	< 2	< 0.01	< 0.5	2	174	4	0.59	0.78	0.01
294657	208 294	86.69	< 0.5	4.05	260	1.0	< 2	0.03	< 0.5	5	274	< 1	1.38	1.74	0.04
294658	208 294	89.21	< 0.5	3.26	160	1.0	< 2	< 0.01	< 0.5	9	237	< 1	0.66	1.40	0.02
294659	208 294	96.47	< 0.5	0.48	10	< 0.5	< 2	< 0.01	< 0.5	1	206	1	0.36	0.17	< 0.01
294660	208 294	91.86	< 0.5	0.84	50	< 0.5	< 2	< 0.01	< 0.5	< 1	161	< 1	0.51	0.28	< 0.01
294661	208 294	88.73	< 0.5	0.98	70	0.5	< 2	< 0.01	< 0.5	1	183	1	0.72	0.35	0.01
294662	208 294	94.80	< 0.5	0.16	< 10	< 0.5	< 2	< 0.01	< 0.5	1	184	1	0.36	< 0.01	< 0.01
294663	208 294	94.17	< 0.5	0.29	< 10	< 0.5	< 2	< 0.01	< 0.5	1	167	2	0.50	0.06	< 0.01
294664	208 294	96.00	< 0.5	0.32	10	< 0.5	< 2	< 0.01	< 0.5	2	183	2	0.36	0.08	< 0.01
294665	208 294	95.93	< 0.5	0.44	30	< 0.5	< 2	< 0.01	< 0.5	1	213	3	0.38	0.14	< 0.01
294666	208 294	96.20	< 0.5	0.28	10	< 0.5	< 2	< 0.01	< 0.5	1	190	2	0.34	0.08	< 0.01
294667	208 294	94.99	< 0.5	0.67	70	< 0.5	< 2	< 0.01	< 0.5	1	272	2	0.50	0.25	< 0.01
294668	208 294	97.81	< 0.5	0.38	20	< 0.5	< 2	0.01	< 0.5	2	337	4	0.40	0.12	< 0.01
294669	208 294	98.20	< 0.5	0.25	20	< 0.5	< 2	0.01	< 0.5	1	165	3	0.22	0.10	< 0.01
294670	208 294	92.00	< 0.5	0.69	40	< 0.5	< 2	0.01	< 0.5	2	342	4	0.60	0.18	< 0.01
294671	208 294	92.35	< 0.5	0.58	40	< 0.5	< 2	0.01	< 0.5	3	376	4	0.73	0.14	< 0.01
294672	208 294	78.11	< 0.5	1.13	50	< 0.5	< 2	0.01	< 0.5	9	499	1	3.12	0.24	0.01
294673	208 294	93.67	< 0.5	0.43	30	< 0.5	< 2	< 0.01	< 0.5	1	165	3	0.40	0.12	< 0.01
294674	208 294	98.39	< 0.5	0.06	< 10	< 0.5	< 2	0.02	< 0.5	1	344	5	0.41	< 0.01	< 0.01

CERTIFICATION:

B. Coughlin



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 PHONE: 416-624-2806

To: HOGG, WILLIAM A.

22 MAXOME AVE.
 WILLOWDALE, ON
 M2M 3J9

Project :
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Page Number : 2-B
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 P.O. Number :

CERTIFICATE OF ANALYSIS A9022592

SAMPLE DESCRIPTION	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
294541	208 294	20	< 1	0.01	4	40	< 2	22	0.01	2	< 10	6			
294542	208 294	30	< 1	0.03	4	50	< 2	14	0.01	3	< 10	4			
294543	208 294	15	< 1	0.02	4	30	< 2	8	0.02	6	< 10	2			
294544	208 294	10	< 1	0.01	3	20	< 2	9	0.01	4	< 10	4			
294545	208 294	10	< 1	0.06	3	20	< 2	14	0.02	8	< 10	2			
294546	208 294	20	< 1	0.11	6	50	< 2	22	0.09	12	< 10	4			
294547	208 294	15	< 1	0.10	4	80	< 2	25	0.05	25	< 10	4			
294548	208 294	15	< 1	0.02	3	50	< 2	29	0.02	6	< 10	2			
294549	208 294	15	< 1	0.01	4	20	< 2	9	0.02	5	< 10	4			
294550	208 294	15	< 1	0.01	1	20	< 2	9	0.01	1	< 10	4			
294601	208 294	15	< 1	0.02	3	30	< 2	21	0.01	3	< 10	6			
294602	208 294	20	< 1	0.01	3	40	< 2	16	0.01	10	< 10	8			
294603	208 294	60	< 1	0.01	5	30	< 2	22	0.02	6	< 10	4			
294604	208 294	15	< 1	0.01	4	50	< 2	33	0.02	4	< 10	6			
294605	208 294	20	< 1	0.06	4	20	< 2	25	0.03	5	< 10	4			
294606	208 294	20	< 1	0.01	4	10	< 2	2	< 0.01	2	< 10	4			
294651	208 294	25	< 1	0.01	5	20	< 2	14	0.02	3	< 10	6			
294652	208 294	20	< 1	0.01	3	10	< 2	9	< 0.01	2	< 10	< 2			
294653	208 294	25	< 1	0.01	4	20	< 4	15	0.01	2	< 10	6			
294654	208 294	35	< 1	0.02	4	40	< 2	23	0.01	2	< 10	2			
294655	208 294	25	< 1	0.02	5	40	< 2	25	0.01	2	< 10	6			
294656	208 294	20	< 1	0.08	3	50	< 2	38	0.04	4	< 10	4			
294657	208 294	30	< 1	0.22	9	90	< 4	73	0.14	17	< 10	8			
294658	208 294	15	< 1	0.17	6	40	< 2	48	0.05	10	< 10	2			
294659	208 294	30	< 1	0.02	4	50	< 2	25	0.01	2	< 10	2			
294660	208 294	25	< 1	0.03	3	40	< 2	29	0.03	2	< 10	2			
294661	208 294	105	< 1	0.03	7	60	< 4	50	0.03	4	< 10	4			
294662	208 294	25	< 1	< 0.01	4	30	< 2	10	< 0.01	< 1	< 10	6			
294663	208 294	25	< 1	0.01	4	30	< 2	12	0.01	2	< 10	2			
294664	208 294	20	< 1	0.01	3	40	< 2	7	0.01	2	< 10	4			
294665	208 294	20	< 1	0.01	5	30	< 2	6	0.01	5	< 10	4			
294666	208 294	15	< 1	0.01	3	30	< 2	6	0.01	3	< 10	6			
294667	208 294	20	< 1	0.02	5	40	< 2	17	0.02	6	< 10	8			
294668	208 294	20	< 1	0.01	3	60	< 2	35	< 0.01	4	< 10	6			
294669	208 294	40	< 1	0.01	3	30	< 2	10	< 0.01	2	< 10	8			
294670	208 294	30	< 1	0.02	7	60	< 2	28	0.02	4	< 10	6			
294671	208 294	40	< 1	0.02	10	50	< 2	20	0.02	4	< 10	4			
294672	208 294	150	< 1	0.03	17	100	< 2	31	0.22	10	< 10	14			
294673	208 294	30	< 1	0.02	3	40	< 2	11	0.01	1	< 10	2			
294674	208 294	60	< 1	< 0.01	8	90	< 2	14	< 0.01	2	< 10	10			

CERTIFICATION:

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To: HOGG, WILLIAM A.
 22 MAXOME AVE.
 WILLOWDALE, ON
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Page Number : 3-A
 Total Pages : 3
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CERTIFICATE OF ANALYSIS A9022592

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294675	208 294	91.17	< 0.5	2.31	130	1.0	< 2	0.01	< 0.5	4	392	3	0.82	0.82	0.02
294676	208 294	96.66	< 0.5	0.76	80	< 0.5	< 2	0.01	< 0.5	2	428	3	0.45	0.31	0.01
294677	208 294	91.65	< 0.5	0.86	40	< 0.5	< 2	< 0.01	< 0.5	2	133	1	0.61	0.32	< 0.01
294678	208 294	91.42	< 0.5	1.09	50	< 0.5	< 2	< 0.01	< 0.5	3	384	2	1.05	0.35	< 0.01
294679	208 294	95.29	< 0.5	0.39	10	< 0.5	< 2	< 0.01	< 0.5	1	158	2	0.30	0.11	< 0.01
294680	208 294	96.35	< 0.5	0.54	< 10	< 0.5	< 2	< 0.01	< 0.5	1	307	3	0.39	0.03	< 0.01
294681	208 294	92.97	< 0.5	0.43	30	< 0.5	< 2	< 0.01	< 0.5	1	150	3	0.68	0.09	< 0.01
294682	208 294	94.69	< 0.5	0.42	20	< 0.5	< 2	0.01	< 0.5	3	190	3	0.41	0.10	< 0.01
294683	208 294	92.38	< 0.5	0.45	60	< 0.5	< 2	< 0.01	< 0.5	1	130	4	0.28	0.14	< 0.01
294684	208 294	93.57	< 0.5	0.93	100	< 0.5	< 2	0.01	< 0.5	2	400	4	0.52	0.32	0.01
294685	208 294	97.57	< 0.5	0.57	20	< 0.5	< 2	0.02	< 0.5	1	158	11	0.21	0.07	0.02
294686	208 294	94.99	< 0.5	0.77	40	< 0.5	< 2	0.02	< 0.5	2	426	8	0.49	0.20	0.01
294687	208 294	94.90	< 0.5	0.69	10	< 0.5	< 2	< 0.01	< 0.5	< 1	137	2	0.35	0.27	< 0.01
294688	208 294	95.62	< 0.5	0.34	< 10	< 0.5	< 2	< 0.01	< 0.5	2	310	3	0.53	0.09	< 0.01
294689	208 294	93.90	< 0.5	0.47	10	< 0.5	< 2	< 0.01	< 0.5	2	113	3	0.33	0.16	< 0.01
294690	208 294	95.43	< 0.5	0.31	30	< 0.5	< 2	< 0.01	< 0.5	1	278	4	0.44	0.06	< 0.01
294691	208 294	93.78	< 0.5	0.44	50	< 0.5	< 2	< 0.01	< 0.5	1	117	5	0.27	0.13	< 0.01
294692	208 294	90.32	< 0.5	0.51	20	< 0.5	< 2	0.01	< 0.5	3	338	4	0.94	0.07	< 0.01
294693	208 294	91.03	< 0.5	1.24	30	0.5	< 2	0.01	< 0.5	3	584	7	0.85	0.26	0.01
294694	208 294	95.59	< 0.5	0.32	10	< 0.5	< 2	< 0.01	< 0.5	1	225	3	0.51	0.06	< 0.01
294695	208 294	95.00	< 0.5	1.01	130	< 0.5	< 2	< 0.01	< 0.5	1	140	2	0.29	0.40	0.01
294696	208 294	79.52	< 0.5	1.84	170	0.5	< 2	0.01	< 0.5	5	234	2	1.39	0.61	0.01
294697	208 294	90.33	< 0.5	1.35	110	0.5	< 2	0.01	< 0.5	3	268	3	0.78	0.50	0.01
294698	208 294	92.34	< 0.5	0.61	40	< 0.5	< 2	0.01	< 0.5	3	382	4	0.71	0.12	< 0.01
294699	208 294	94.30	< 0.5	0.39	20	< 0.5	< 2	< 0.01	< 0.5	2	250	4	0.55	0.08	< 0.01
294700	208 294	94.17	< 0.5	0.92	60	0.5	< 2	< 0.01	< 0.5	2	233	5	0.50	0.29	< 0.01

CERTIFICATION:

B. Campbell



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To: HOGG, WILLIAM A.

22 MAXOME AVE.
WILLOWDALE, ON
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Page Number : 3-B
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294675	208 294	40	< 1	0.11	9	80	< 2	57	0.06	8	< 10	6			
294676	208 294	25	< 1	0.03	8	30	< 2	21	0.01	8	< 10	10			
294677	208 294	20	< 1	0.03	5	60	< 2	25	0.04	5	< 10	6			
294678	208 294	30	< 1	0.04	7	60	< 2	28	0.07	8	< 10	6			
294679	208 294	25	< 1	0.01	4	30	4	17	0.01	3	< 10	2			
294680	208 294	20	< 1	0.01	5	40	< 2	36	< 0.01	2	< 10	4			
294681	208 294	30	< 1	0.01	4	30	< 2	12	0.01	2	< 10	10			
294682	208 294	20	< 1	0.01	3	40	< 2	12	0.01	3	< 10	2			
294683	208 294	25	< 1	0.02	2	50	< 2	24	0.01	2	< 10	2			
294684	208 294	30	< 1	0.04	7	50	< 2	14	0.02	5	< 10	4			
294685	208 294	10	< 1	0.02	4	30	< 2	16	< 0.01	1	< 10	4			
294686	208 294	30	< 1	0.03	7	80	< 2	33	0.01	4	< 10	12			
294687	208 294	15	< 1	0.02	3	40	< 2	18	0.01	5	< 10	< 2			
294688	208 294	20	< 1	0.01	4	60	< 2	26	0.01	4	< 10	4			
294689	208 294	15	< 1	0.02	4	60	< 2	25	0.01	4	< 10	< 2			
294690	208 294	20	< 1	0.01	5	60	< 2	34	< 0.01	3	< 10	4			
294691	208 294	10	< 1	0.01	3	50	< 2	17	0.01	4	< 10	2			
294692	208 294	40	< 1	0.01	7	80	< 2	37	0.02	3	< 10	6			
294693	208 294	65	1	0.05	10	70	< 2	41	0.03	5	< 10	10			
294694	208 294	40	< 1	0.01	6	30	< 2	9	0.01	3	< 10	4			
294695	208 294	15	< 1	0.05	3	40	< 2	30	0.02	3	< 10	4			
294696	208 294	35	< 1	0.07	12	90	< 2	63	0.07	7	< 10	6			
294697	208 294	20	< 1	0.05	8	80	< 2	34	0.04	6	< 10	6			
294698	208 294	45	< 1	0.02	9	50	< 2	19	0.02	4	< 10	10			
294699	208 294	30	< 1	0.01	6	30	< 2	16	0.01	5	< 10	6			
294700	208 294	25	< 1	0.04	6	50	< 2	17	0.02	13	< 10	8			

CERTIFICATION:

B. Coughlin



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

NO: BRENDA EXPLORATION
DIVISION OF BRENDA MINES LTD.
2281 HUNTER RD.
KELOWNA, BC
V1X 7C5

INVOICE NUMBER **I 9 0 2 2 5 5 2**

BILLING INFORMATION

Date: 23-SEP-90
 Project:
 P.O. No.: NONE
 Account: UOA

Comments:

Billing: For analysis performed on
 Certificate I9022552

Terms: Payment due on receipt of invoice
 1.5% per month (18% per annum)
 charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
 212 Brooksbank Ave.,
 North Vancouver, B.C.
 Canada V7J-2C1

CHEMEX CODE	ANALYSIS DESCRIPTION	SAMPLES ANALYSED	UNIT PRICE	AMOUNT
8	- Ni		ppm	
9	- Co		ppm	
12	- Cr		ppm	
27	- Li		ppm	
G1	- A-12 W.R.A. ICP	1	26.00	26.00
Sample preparation and other charges.				
208	- Assay - RING	1	1.75	1.75
294	- Crush and split	1	2.25	2.25
Total Cost \$				30.00
TOTAL PAYABLE (CDN) \$				30.00

REC'D SEP 26

DATE RECEIVED

FILE NO. 108-78-00 H.

INITIALS: HW



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: BRENDA EXPLORATION
DIVISION OF BRENDA MINES LTD.
2281 HUNTER RD.
KELOWNA, BC
V1X 7C5

A9022552

Comments:

CERTIFICATE

A9022552

BRENDA EXPLORATION

Project:
P.O. #: NONE

Samples submitted to our lab in Vancouver, BC.
This report was printed on 23-SEP-90.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
208	1	Assay ring to approx 150 mesh
294	1	Crush and split (0-10 pounds)
200	1	Whole rock fusion

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
594	1	Al ₂ O ₃ %: Whole rock	ICP-AES	0.01	99.00
542	1	BaO %: Whole rock	ICP-AES	0.01	99.00
588	1	CaO %: Whole rock	ICP-AES	0.01	99.00
586	1	Fe ₂ O ₃ (total) %: Whole rock	ICP-AES	0.01	99.00
821	1	K ₂ O %: Whole rock	ICP-AES	0.01	99.0
593	1	MgO %: Whole rock	ICP-AES	0.01	99.00
596	1	MnO %: Whole rock	ICP-AES	0.01	99.00
599	1	Na ₂ O %: Whole rock	ICP-AES	0.01	99.00
597	1	P ₂ O ₅ %: Whole rock	ICP-AES	0.01	99.00
592	1	SiO ₂ %: Whole rock	ICP-AES	0.01	99.00
595	1	TiO ₂ %: Whole rock	ICP-AES	0.01	99.00
475	1	L.O.I. %: Loss on ignition	FURNACE	0.01	99.00
540	1	Total %	CALCULATION	0.01	N/A
8	1	Ni ppm: HNO ₃ -aqua regia digest	AAS-BKGD CORR	1	10000
9	1	Co ppm: HNO ₃ -aqua regia digest	AAS-BKGD CORR	1	10000
12	1	Cr ppm: HClO ₄ -HNO ₃ -HF digest	AAS	2	10000
27	1	Li ppm: HClO ₄ -HNO ₃ -HF digestion	AAS	1	1000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

BRENDA EXPLORATION
DIVISION OF BRENDA MINES LTD.
2281 HUNTER RD.
KELOWNA, BC
V1X 7C5

Page Number: 1
Total Pages: 1
Invoice Date: 23-SEP-90
Invoice No.: I-9022552
P.O. Number: NONE

Project:
Comments:

CERTIFICATE OF ANALYSIS

A9022552

SAMPLE DESCRIPTION	PREP CODE		Al2O3	BaO	CaO	Fe2O3	K2O	MgO	MnO	Na2O	P2O5	SiO2	TiO2	LOI	TOTAL	Ni	Co	Cr	Li
			%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm
SILICA	208	294	0.80	0.01	0.31	0.81	0.21	0.15	< 0.01	0.09	0.06	98.13	0.03	< 0.03	100.65	5	1	580	1

CERTIFICATION:



ASSAYERS ONTARIO LABORATORIES

A DIVISION OF ASSAYERS CORPORATION LTD.

33 CHAUNCEY AVENUE, TORONTO, ONTARIO M8Z 2Z2 • TELEPHONE (416) 239-3527
FAX (416) 239-4012

Certificate of Analysis

Certificate No. MI-2799

Date: February 28, 1990

Received _____ Samples of Rocks

Submitted by Mr. William A. Hogg

WHOLE ROCK ANALYSIS

	A	C	E
%			
SiO ₂	94.91	96.26	94.47
Al ₂ O ₃	2.27	2.97	3.59
Fe ₂ O ₃	1.44	1.45	.81
CaO	.42	.16	.06
MgO	.18	.04	.04
MnO	.02	.02	.02
K ₂ O	.06	.03	.03
TiO ₂	.11	.11	.11
MnO	.01	.01	.01
P ₂ O ₅	.18	.18	.31
	.01	.01	.52

ppm

Ba	<10	<10	<10
Cr	<10	<10	<10
Nb	<10	<10	<10
Sr	<10	<10	<10
Y	<10	<10	<10
Zr	<10	<10	<10

ASSAYERS ONTARIO LABORATORIES

Per _____

J. van Engelen
J. van Engelen Mgr.



Chemex Labs Ltd.

Analytical Chemists

Geochemists

Registered Assayers

5175 Timberlea Blvd.
Mississauga, Ontario
Canada L4W 2S3
Telephone: (416) 624-2806
FAX: (416) 624-6163

October 24, 1990

Dr. William A. Hogg
22 Maxome Ave.
Willowdale, Ontario
M2M 3J9

Dear Mr. Hogg:

As per our telephone conversation we did a hi SiO₂ on the sample that Brenda Exploration submitted on W/O # A9022552, which we did as a whole rock.

The Original
Results

Re-Run

98.13% SiO₂

97.82%

The standard we used is a high grade SiO₂ (99.96%)

If you require further information, please do not hesitate to contact me at (416) 624-2806.

Yours truly,

Adriana Alexandru
Analytical Lab Manager
AA:kjh



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

HOGG, WILLIAM A.

22 MAXOME AVE.
WILLOWDALE, ON
M2M 3J9

**

INVOICE NUMBER

I 9 0 2 4 9 8 1

BILLING INFORMATION

Date: 21-OCT-90

Project:

P.O. No.:

Account: IPN

Comments:

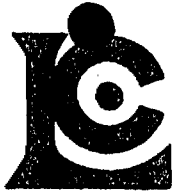
Billing: For analysis performed on
Certificate I9024981

Terms: Payment due on receipt of invoice
1.5% per month (18% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J-2C1

CHEMEX CODE	ANALYSIS DESCRIPTION	SAMPLES ANALYSED	UNIT PRICE	AMOUNT
G1	- A-12 W.R.A. ICP	3	20.00	60.00
Sample preparation and other charges.				
214	- Received as pulp	3	0.00	0.00
Total Cost \$				60.00
TOTAL PAYABLE (CDN) \$				60.00



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 416-624-2806

To: HOGG, WILLIAM A.

22 MAXOME AVE.
WILLOWDALE, ON
M2M 3J9

A9024981

Comments:

CERTIFICATE	A9024981
-------------	----------

HOGG, WILLIAM A.

Project:
P.O. #:

Samples submitted to our lab in Mississauga, ON.
This report was printed on 21-OCT-90.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	3	Received sample as pulp
200	3	Whole rock fusion

* NOTE 1:

Code 1000 is used for repeat gold analyses
It shows typical sample variability due to
coarse gold effects. Each value is
correct for its particular subsample.

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
594	3	Al2O3 %: Whole rock	ICP-AES	0.01	99.99
542	3	BaO %: Whole rock	ICP-AES	0.01	99.99
588	3	CaO %: Whole rock	ICP-AES	0.01	99.99
586	3	Fe2O3(total) %: Whole rock	ICP-AES	0.01	99.99
821	3	K2O %: Whole rock	ICP-AES	0.01	99.99
593	3	MgO %: Whole rock	ICP-AES	0.01	99.99
596	3	MnO %: Whole rock	ICP-AES	0.01	99.99
599	3	Na2O %: Whole rock	ICP-AES	0.01	99.99
597	3	P2O5 %: Whole rock	ICP-AES	0.01	99.99
592	3	SiO2 %: Whole rock	ICP-AES	0.01	99.99
595	3	TiO2 %: Whole rock	ICP-AES	0.01	99.99
475	3	L.O.I. %: Loss on ignition	FURNACE	0.01	99.99
540	3	Total %	CALCULATION	0.01	N/A



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 416-624-2806

To: HOGG, WILLIAM A.

22 MAXOME AVE.
WILLOWDALE, ON
M2M 3J9

Page Number : 1
Total Pages : 1
Invoice Date : 21-OCT-90
Invoice No. : A9024981
P.O. Number :

Project :
Comments :

CERTIFICATE OF ANALYSIS A9024981

SAMPLE DESCRIPTION	PREP CODE	Al2O3 %	BaO %	CaO %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	LOI %	TOTAL %
294528	214 200	1.72	0.08	0.20	0.74	0.06	0.06	< 0.01	0.11	0.02	94.87	0.04	0.20	98.11
294669	214 200	1.09	0.02	0.19	0.36	0.18	0.05	< 0.01	0.12	0.03	97.61	0.02	< 0.01	99.70
294685	214 200	1.43	< 0.01	0.20	0.44	0.11	0.06	< 0.01	0.14	0.03	96.99	0.03	0.03	99.47

CERTIFICATION:

B. Coughlin



Chemex Labs Ltd.

Analytical Chemists

Geochemists

Registered Assayers

5175 Timberlea Blvd.
Mississauga, Ontario
Canada L4W 2S3
Telephone: (416) 624-2806
FAX: (416) 624-6163

SiO₂ - (378)

- 0.2 gram sample is taken to dryness twice with HF (Perchloric-nitric-Hydrofluoric digestion)
- It is ignited at 800 C for 30 minutes
- Sample is cooled and weighed
- The loss in weight is equal to the SiO₂ content

APPENDIX II











ROCK 'TRENCH'
SOUTH PART OF CLAIMS



QUARTZITE OUTCROP
SOUTH PART OF CLAIMS

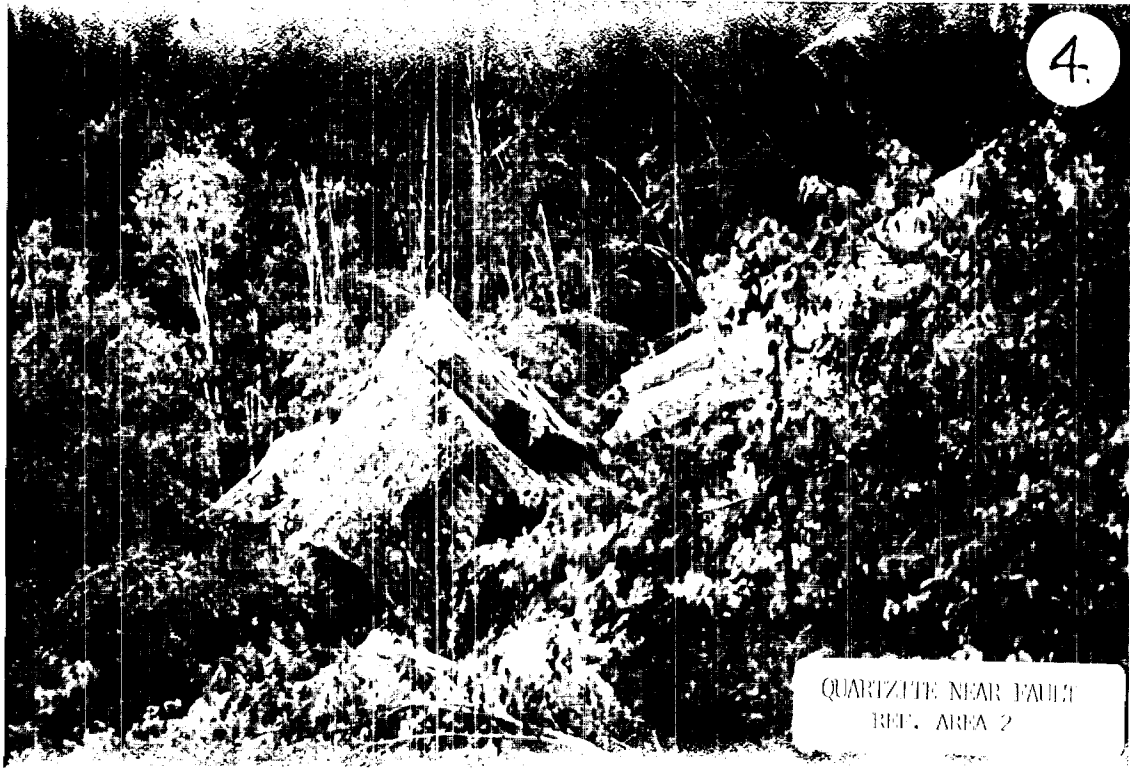


BLASTED QUARTZITE
FRAGMENT TRENCH - 1



TRENCH DRILLED & BLASTED
WINTER 1989

4.



QUARTZITE NEAR FAULT
REF. AREA 2

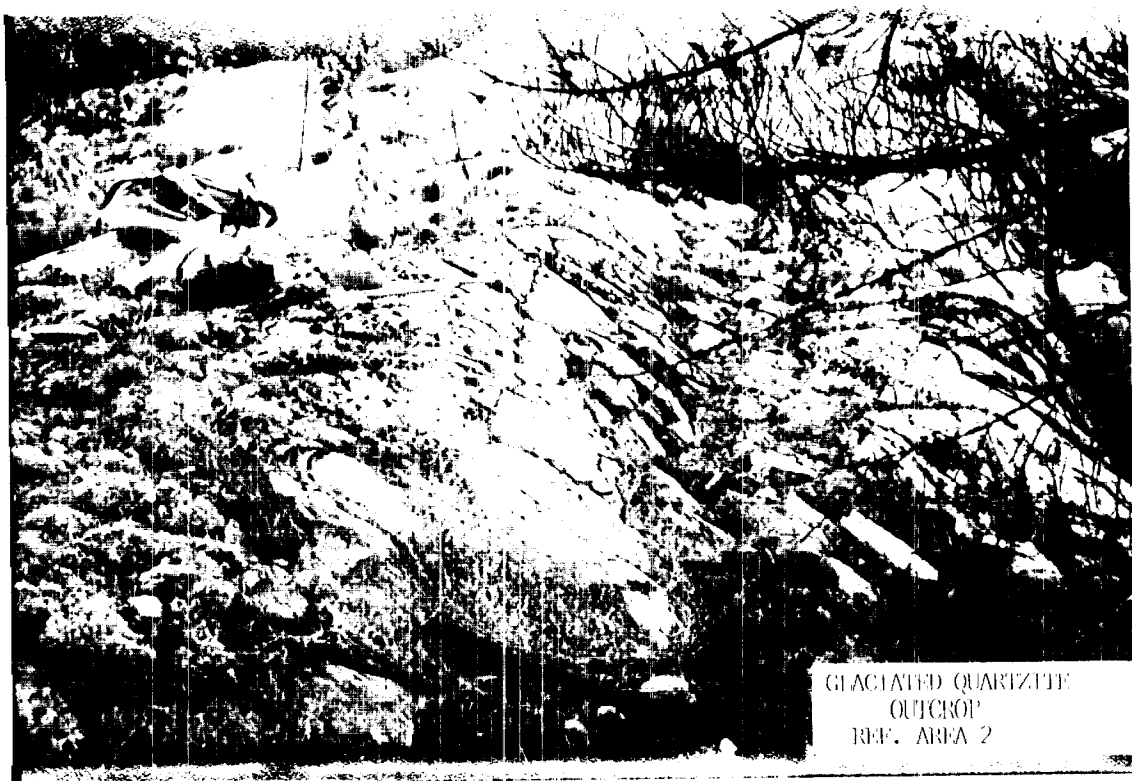


QUARTZITE NEAR
FAULT ESCARPMENT
REF. AREA 2





QUARTZITE EXPOSURE NEAR
FAULT ESCARPMENT
REF. AREA 2



GLACIATED QUARTZITE
OUTCROP
REF. AREA 2



ROSE COLORED BOULDER OF
QUARTZITE IN BEDDING



QUARTZITE
FEBLY BEDDED
REF. AREA 3



BEDDING IN QUARTZITE
NEAR BASELINE 6 + 00N

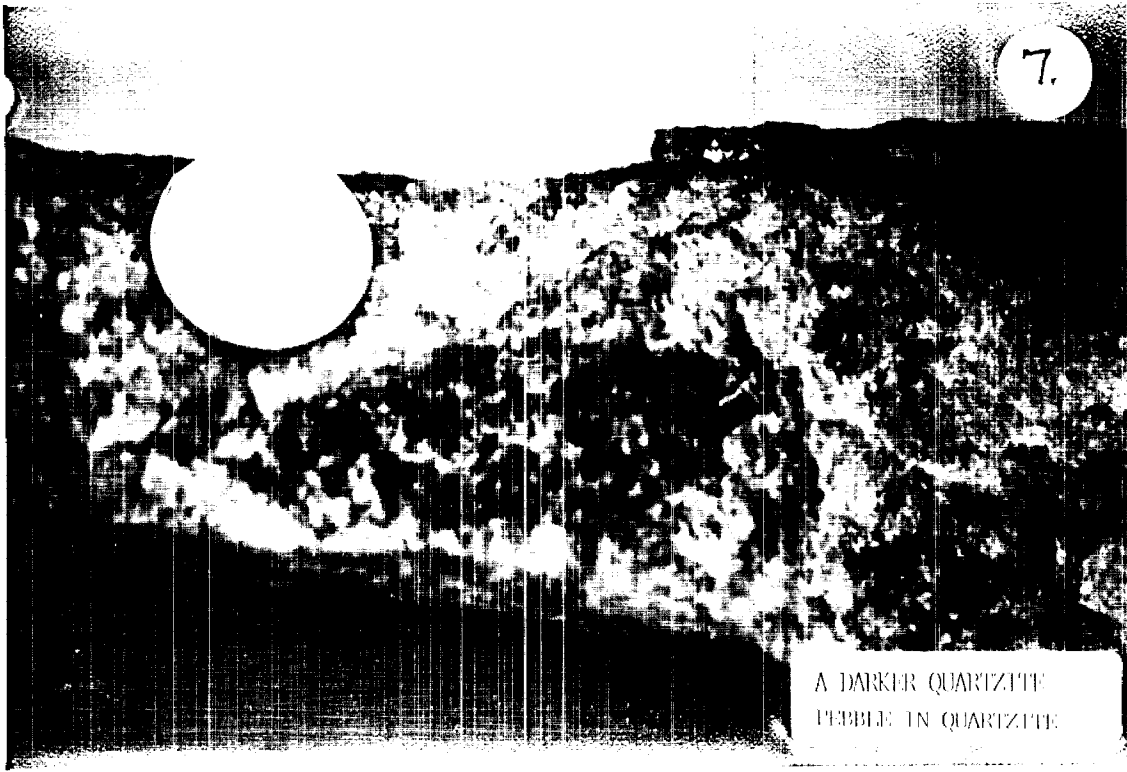


WHITE QUARTZ STRINGERS
CROSS CUTTING QUARTZITE
BEDS

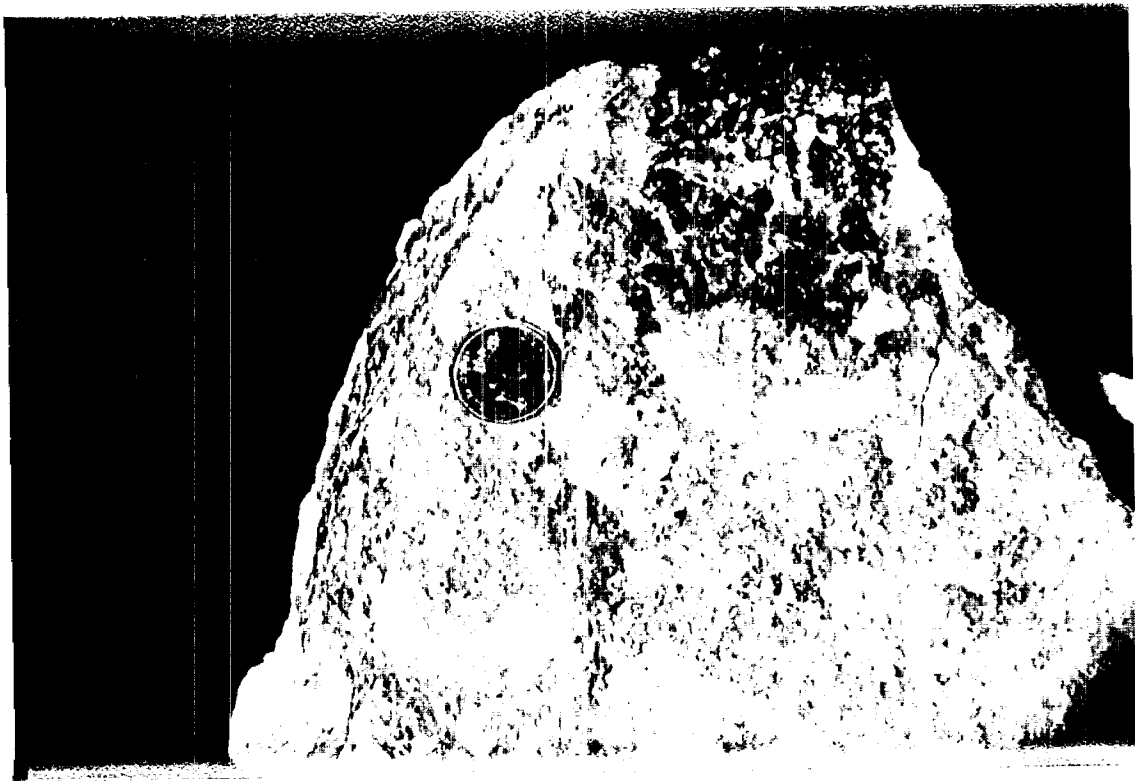
6

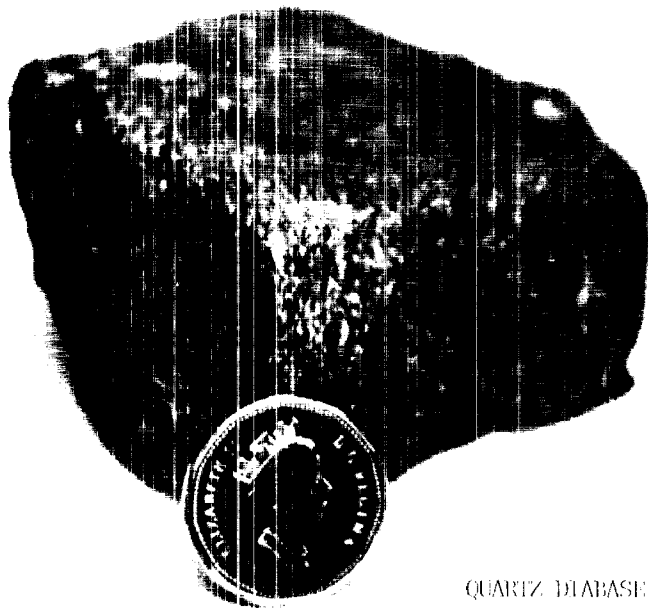
QUARTZITE BOULDERS IN
BEDDED QUARTZITE
REF. AREA 2

7.



A DARKER QUARTZITE
PEBBLE IN QUARTZITE



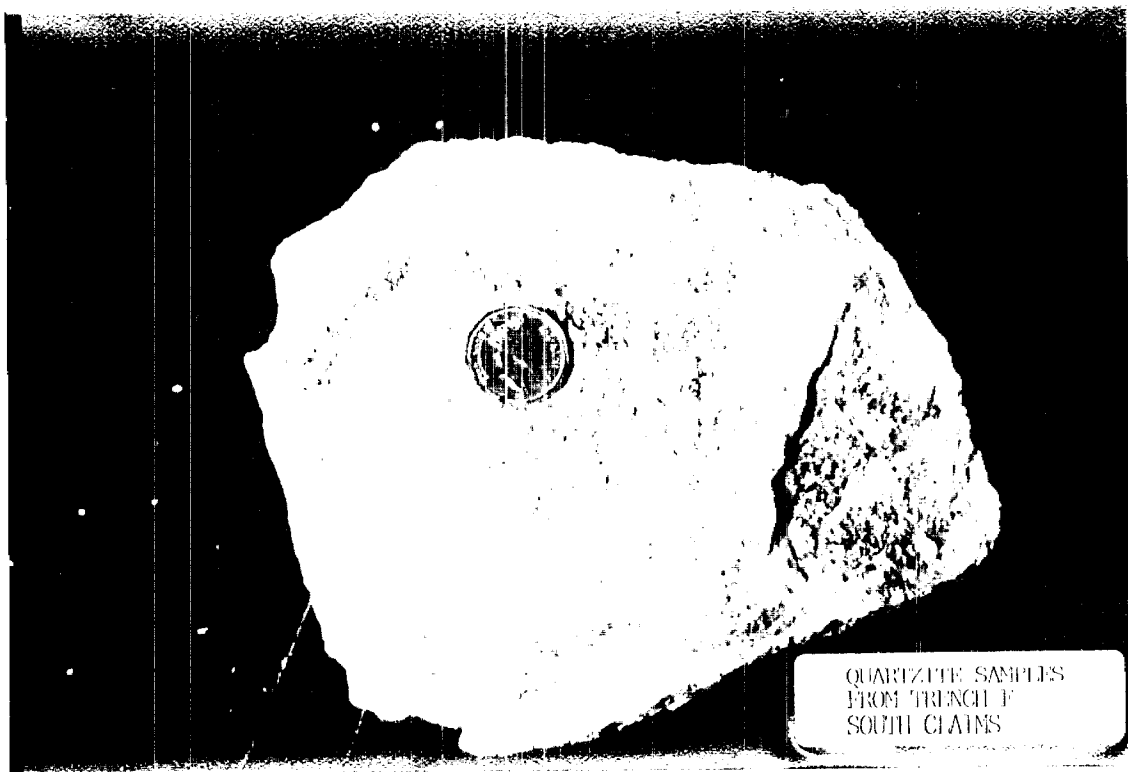


QUARTZ DIABASE
REF. AREA 2

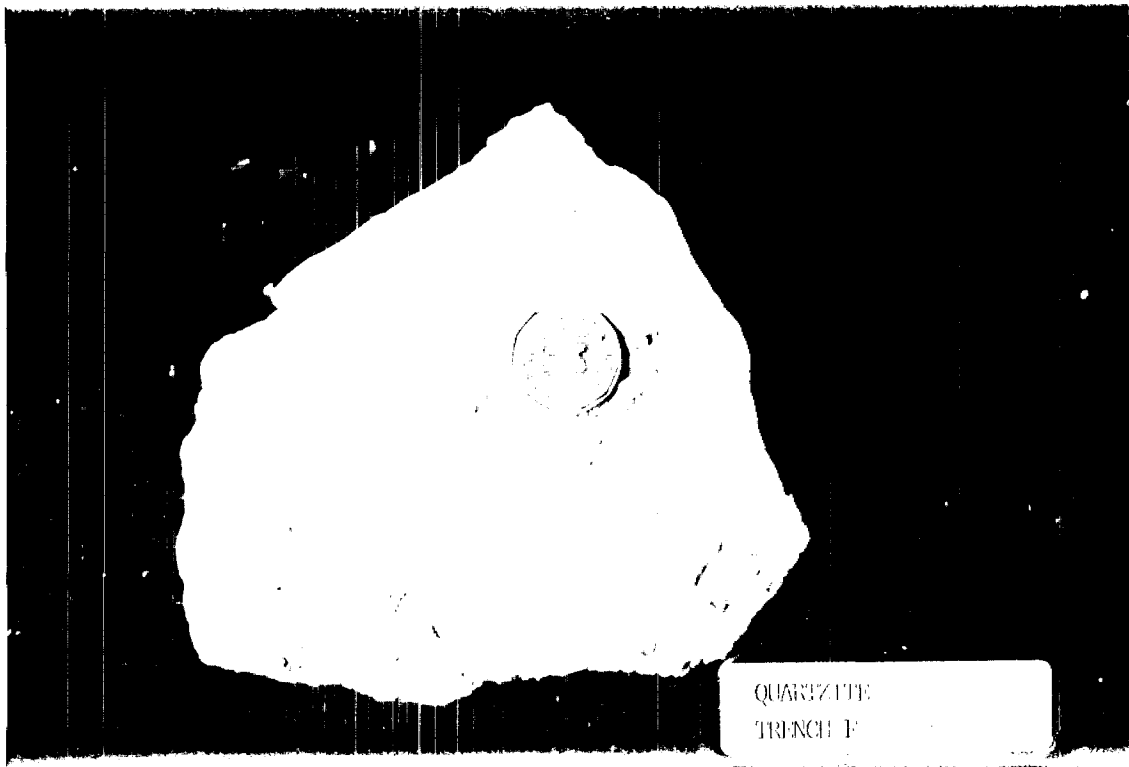


QUARTZ WITH MUSCOVITE
AND IRON OXIDE
NEAR BASELINE G-4-25N

8.



QUARTZITE SAMPLES
FROM TRENCH
SOUTH CHAINS



RECEIVED

OCT 29 1990

EXPENDITURES

MINING LANDS SECTION

EQUIPMENT REPAIRS & SUPPLIES

RENTAL TRUCK TO HANDLE BULK
ROCK SAMPLES AND GEOLOGICAL,
GEOCHEMICAL SAMPLES - 10 days

374.20

SUPPLIES & EQUIPMENT, SLEDGES
CHISELS MARKERS SAMPLE
RIBBONS AXES

50.00

ASSAY COSTS

ASSAYS ON ONTARIO LABS

84.80

CHEMEX LABS LTD

2915.00

CHEMEX LABS LTD

60.00

MICROSCOPIC SLIDES
FOR MINERALOGICAL
STUDY. Postal & handling.

44.85

TOTAL

3529.05

WILLIAM A HOGG
22 MAYOMF AVE
WILLOWDALE ONT
M2R1 3J9

TEL (416) 221-1428

W. Hogg

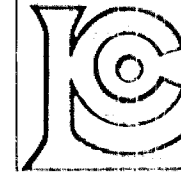


Chemex Labs

- Analytical Chemists
- Geochemists
- Registered Assayers

North Vancouver, B.C.
Mississauga, Ontario
Rouyn, Quebec
Pasadena, Nfld.

Sparks, Nevada
Elko, Nevada
Butte, Montana
Boise, Idaho
Anchorage, Alaska



Chemex Labs

- Analytical Chemists
- Geochemists
- Registered Assayers

HUGG, WILLIAM G.

22 MAXWELL AVE.
WILLOWDALE, ON
M2H 3J9

**

DAY	MO.	YR.
30	SEP	90
CODE		PAGE
11N		1

PLEASE RETURN TO:
Chemex Labs Ltd.
212 Inco Bank Avenue
North Vancouver, B.C.
Canada, V7J 2C1

DAY	MO.	YR.
30	SEP	90
CODE		PAGE
11N		1

STATEMENT OF ACCOUNT

DAY	MO.	YR.	TRANSACTION	INVOICE NUMBER	DEBIT	CREDIT	BALANCE
01	SEP	90	BALANCE FWD				.00
27	SEP	90	INVOICE	19022592	2915.00		2915.00
							BALANCE DUE \$ 2915.00
							CDN DOLLAR ACCOUNT

Please examine this statement carefully. If incorrect communicate DIRECTLY with our auditors:
MARSH & MARSH
CHARTERED ACCOUNTANTS
747 East Broadway
Vancouver, B.C. V5T 1X8
If there is no communication with our auditors, they will assume you consider this statement correct.

CHECK INVOICES BEING PAID

DAY	MO.	YR.	INVOICE NUMBER	AMOUNT
01	SEP	90	BALANCE	.00
27	SEP	90	19022592	2915.00
				BALANCE DUE \$ 2915.00
				CDN DOLLAR ACCOUNT

BALANCE DUE \$ 2915.00
CDN DOLLAR ACCOUNT

PLEASE ENCLOSE THE PART OF YOUR STATEMENT WITH YOUR REMITTANCE

* 11100
1-800-387-1800

INVOICE

Rs 340

SALES PERSON

DATE OF INVOICE

TO:

SHIP TO

ACCOUNT NO

DATE SHIPPED

SHIPPED VIA

CC/P.P. F.O.B. POINT

TERMS

YOUR ORDER NUMBER

QUANTITY

DESCRIPTION

UNIT PRICE

AMOUNT

Thanks You

TOTAL

R. PALKO
CONTRACTING

DATE Sept 22nd 1990

NAME W. A. HOGG

ADDRESS 22 MAYOME AVE
WILLOWDALE ONT M2H3K4

SOLD BY	C.O.D.	CHARGE	ON ACCT.	ACCT. FWD.

1	NORTH BAY SILICA PROJECT MCHASPLANT			
2				
3	TRUCK RENTAL & ROCK HANDLING SEPT 18-22			
4	5 days @ 37.42	187	10	
5				
6	GEOLOGICAL ASSISTANT CHAINING & ROCK SAMPLING			
8	5 days @ 100/day	500	00	
9	TOTAL	687	10	
10				
11				
12				
6	SIGNATURE <u>R. Palko</u>			

3SCA-2

R. PALKO
CONTRACTING

DATE ~~Sept 22nd~~ 3rd 1990

NAME W. A. HOGG

ADDRESS 22 MAYOME AVE
WILLOWDALE ONT M2H3K4

SOLD BY	C.O.D.	CHARGE	ON ACCT.	ACCT. FWD.

1	NORTH BAY SILICA PROJECT MCHASPLANT			
2				
3	Truck rental & Rock			
4	handling Aug 29-31 Sept 2			
5	5 days @ 37.42	187	10	
6				
7	CLEAN OUT BASELINE AND ESTABLISH CROSS LINES			
8	CHAINING AND ROCK SAMPLING			
9	SAMPLING total LOG SAMPLES			
10	5 day @ 100/day	500	00	
11	TOTAL	687	10	
12				
5	SIGNATURE <u>R. Palko</u>			

3SCA-2


CANADIAN IMPERIAL
BANK OF COMMERCE
YONGE AND FINCH
TORONTO, ONTARIO

PAY TO THE
ORDER OF

Sept 24 19 90

R Palko | \$ 1374 ²⁰/₁₀₀
One Thousand Three Hundred & Seventy four ²⁰/₁₀₀ DOLLARS

RE contracting William C Hoop
⑆01812⑆010⑆ 06⑆45435⑆ ⑆0000137420⑆


CANADIAN IMPERIAL
BANK OF COMMERCE
YONGE AND FINCH
TORONTO, ONTARIO

PAY TO THE
ORDER OF

Oct 1st 19 90

CHEMEX LABS LTD | \$ 2915 ^{xx}/₁₀₀
Two Thousand - Nine Hundred & Fifteen ^{xx}/₁₀₀ DOLLARS

RE Assays William C Hoop
⑆01812⑆010⑆ 06⑆45435⑆ ⑆0000291500⑆


CANADIAN IMPERIAL
BANK OF COMMERCE
YONGE AND FINCH
TORONTO, ONTARIO

PAY TO THE
ORDER OF

March 19 19 90

Assayers Ontario Laboratories | \$ 84 ^{xx}/₁₀₀
Eighty-four ^{xx}/₁₀₀ DOLLARS

RE assays William C Hoop
Invoice # A-0525
⑆01812⑆010⑆ 06⑆45435⑆ ⑆0000008400⑆



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: HOGG, WILLIAM A.

**

22 MAXOME AVE.
WILLOWDALE, ON
M2M 3J9

INVOICE NUMBER

19022592

BILLING INFORMATION

Date: 27-SEP-90
Project:
P.O. No.:
Account: IPN

Comments:

Billing: For analysis performed on
Certificate I9022592

Terms: Payment due on receipt of invoice
1.5% per month (18% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J-2C1

CHEMEX CODE	ANALYSIS DESCRIPTION	SAMPLES ANALYSED	UNIT PRICE	AMOUNT
378	- SiO2 % fusion			
G24	- G-24 24 EL. ICP	106	23.50	2491.00
Sample preparation and other charges.				
208	- Assay - RING	106	1.75	185.50
294	- Crush and split	106	2.25	238.50
Total Cost \$				2915.00
TOTAL PAYABLE (CDN) \$				2915.00



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 5175 Timberlea Blvd., Mississauga,
 Ontario, Canada L4W 2S3
 PHONE: 416-624-2806

To: HOGG, WILLIAM A.

22 MAXOME AVE.
 WILLOWDALE, ON
 M2M 3J9

Project:
 Comments:

Page Number: 1-A
 Total Pages: 3
 Invoice Date: 27-SEP-90
 Invoice No.: I-9022592
 P.O. Number:

CERTIFICATE OF ANALYSIS A9022592

SAMPLE DESCRIPTION	PREP CODE	SiO2 % fusion	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
294501	208 294	92.23	< 0.5	0.79	50	< 0.5	< 2	0.26	< 0.5	1	192	8	0.71	0.24	0.09
294502	208 294	90.46	< 0.5	0.57	10	< 0.5	< 2	0.07	< 0.5	1	169	9	0.48	0.15	0.03
294503	208 294	93.57	< 0.5	0.29	< 10	< 0.5	< 2	0.01	< 0.5	< 1	135	1	0.37	0.07	< 0.01
294504	208 294	94.28	< 0.5	0.38	10	< 0.5	< 2	0.01	< 0.5	< 1	108	1	0.46	0.11	< 0.01
294505	208 294	92.82	< 0.5	0.41	< 10	< 0.5	< 2	< 0.01	< 0.5	< 1	127	2	0.40	0.07	< 0.01
294506	208 294	94.12	< 0.5	0.34	< 10	< 0.5	< 2	0.02	< 0.5	2	164	5	0.34	0.06	< 0.01
294507	208 294	93.08	< 0.5	0.37	10	< 0.5	< 2	< 0.01	< 0.5	< 1	140	2	0.30	0.08	< 0.01
294508	208 294	92.66	< 0.5	1.73	90	0.5	< 2	0.01	< 0.5	2	318	2	0.55	0.70	0.02
294509	208 294	92.41	< 0.5	0.83	20	< 0.5	< 2	< 0.01	< 0.5	< 1	276	1	0.45	0.24	< 0.01
294510	208 294	92.28	< 0.5	0.89	80	< 0.5	< 2	< 0.01	< 0.5	< 1	193	1	0.59	0.30	< 0.01
294511	208 294	92.41	< 0.5	2.00	140	< 0.5	< 2	< 0.01	< 0.5	3	263	2	0.52	0.84	0.01
294512	208 294	71.91	< 0.5	6.95	1310	2.0	2	0.04	< 0.5	16	239	1	2.36	3.63	0.87
294513	208 294	93.75	< 0.5	1.25	180	< 0.5	< 2	< 0.01	< 0.5	1	272	3	0.57	0.51	0.01
294514	208 294	91.21	< 0.5	1.19	110	< 0.5	< 2	< 0.01	< 0.5	< 1	258	3	0.57	0.45	0.01
294515	208 294	94.06	< 0.5	0.56	20	< 0.5	< 2	< 0.01	< 0.5	< 1	155	1	0.32	0.20	< 0.01
294516	208 294	93.58	< 0.5	0.53	40	< 0.5	< 2	< 0.01	< 0.5	1	187	1	0.37	0.18	< 0.01
294517	208 294	94.91	< 0.5	0.34	< 10	< 0.5	< 2	< 0.01	< 0.5	< 1	178	1	0.30	0.10	< 0.01
294518	208 294	89.68	< 0.5	0.75	80	0.5	< 2	< 0.01	< 0.5	< 1	345	2	0.64	0.21	< 0.01
294519	208 294	92.43	< 0.5	0.43	20	< 0.5	< 2	< 0.01	< 0.5	< 1	281	1	0.77	0.12	< 0.01
294520	208 294	88.97	< 0.5	0.46	< 10	< 0.5	< 2	< 0.01	< 0.5	< 1	306	4	0.40	0.09	< 0.01
294521	208 294	93.98	< 0.5	0.49	10	< 0.5	< 2	< 0.01	< 0.5	< 1	194	4	0.37	0.13	< 0.01
294522	208 294	94.58	< 0.5	0.79	40	< 0.5	< 2	< 0.01	< 0.5	1	229	2	0.39	0.26	< 0.01
294523	208 294	94.15	< 0.5	1.50	120	0.5	< 2	< 0.01	< 0.5	1	222	1	0.42	0.63	0.01
294524	208 294	96.33	< 0.5	0.93	110	< 0.5	< 2	< 0.01	< 0.5	< 1	252	1	0.47	0.41	< 0.01
294525	208 294	91.66	< 0.5	0.66	60	< 0.5	< 2	< 0.01	< 0.5	1	270	2	0.61	0.23	< 0.01
294526	208 294	96.54	< 0.5	0.18	< 10	< 0.5	< 2	< 0.01	< 0.5	< 1	264	1	0.36	0.04	< 0.01
294527	208 294	91.76	< 0.5	0.49	50	< 0.5	< 2	< 0.01	< 0.5	< 1	282	3	0.53	0.14	< 0.01
294528	208 294	96.52	< 0.5	0.1	< 10	< 0.5	< 2	< 0.01	< 0.5	< 1	261	1	0.34	< 0.01	< 0.01
294529	208 294	93.89	< 0.5	0.4	60	< 0.5	< 2	< 0.01	< 0.5	< 1	221	1	0.50	0.12	< 0.01
294530	208 294	94.49	< 0.5	0.55	50	0.5	< 2	< 0.01	< 0.5	1	417	1	0.64	0.16	< 0.01
294531	208 294	92.45	< 0.5	0.27	< 10	< 0.5	< 2	< 0.01	< 0.5	< 1	264	3	0.47	0.02	< 0.01
294532	208 294	93.95	< 0.5	0.58	10	< 0.5	< 2	< 0.01	< 0.5	< 1	177	1	0.40	0.17	< 0.01
294533	208 294	97.05	< 0.5	0.83	40	< 0.5	< 2	< 0.01	< 0.5	< 1	302	2	0.42	0.34	< 0.01
294534	208 294	90.80	< 0.5	2.38	140	0.5	< 2	< 0.01	< 0.5	2	299	1	0.65	0.97	0.02
294535	208 294	92.97	< 0.5	0.86	60	< 0.5	< 2	< 0.01	< 0.5	1	230	1	0.42	0.32	< 0.01
294536	208 294	91.34	< 0.5	1.03	50	< 0.5	< 2	< 0.01	< 0.5	2	278	1	0.67	0.38	0.01
294537	208 294	93.94	< 0.5	0.36	40	< 0.5	< 2	< 0.01	< 0.5	< 1	269	2	0.38	0.09	< 0.01
294538	208 294	95.04	< 0.5	0.17	< 10	< 0.5	< 2	< 0.01	< 0.5	< 1	226	< 1	0.31	0.02	< 0.01
294539	208 294	90.93	< 0.5	0.37	20	< 0.5	< 2	< 0.01	< 0.5	< 1	222	1	0.42	0.08	< 0.01
294540	208 294	92.21	< 0.5	0.35	10	< 0.5	< 2	< 0.01	< 0.5	1	217	2	0.51	0.07	< 0.01

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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 PHONE: 416-624-2806

To: HOGG, WILLIAM A.

22 MAXOME AVE.
 WILLOWDALE, ON
 M2M 3J9

Page Number: 1-B
 Total Pages: 3
 Invoice Date: 27-SEP-90
 Invoice No.: 1-9022592
 P.O. Number:

Project:
 Comments:

CERTIFICATE OF ANALYSIS A9022592

SAMPLE DESCRIPTION	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na ‡ (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti ‡ (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
294501	208 294	95	< 1	0.05	6	40	2	26	0.03	14	< 10	14			
294502	208 294	55	< 1	0.02	5	30	8	16	0.01	5	< 10	10			
294503	208 294	20	< 1	0.01	3	30	8	20	0.01	2	< 10	6			
294504	208 294	25	< 1	0.01	3	20	4	13	0.01	2	< 10	2			
294505	208 294	20	< 1	0.01	2	30	4	24	0.01	2	< 10	4			
294506	208 294	25	< 1	0.01	4	70	4	17	< 0.01	2	< 10	2			
294507	208 294	75	< 1	0.01	3	20	4	17	< 0.01	2	< 10	2			
294508	208 294	30	< 1	0.08	7	40	4	52	0.04	6	< 10	12			
294509	208 294	25	< 1	0.02	4	20	< 2	16	0.02	2	< 10	6			
294510	208 294	40	< 1	0.03	4	20	2	21	0.02	2	< 10	4			
294511	208 294	25	< 1	0.09	6	30	2	34	0.03	4	< 10	6			
294512	208 294	1775	< 1	0.28	24	180	2	33	0.28	57	< 10	122			
294513	208 294	170	1	0.05	5	50	< 2	25	0.03	8	< 10	2			
294514	208 294	20	< 1	0.05	4	50	< 2	26	0.03	6	< 10	4			
294515	208 294	15	< 1	0.02	4	20	< 2	18	0.01	3	< 10	2			
294516	208 294	20	< 1	0.02	3	30	< 2	16	0.01	4	< 10	2			
294517	208 294	15	< 1	0.01	3	30	< 2	29	0.01	2	< 10	10			
294518	208 294	25	< 1	0.03	4	50	< 2	33	0.02	4	< 10	6			
294519	208 294	50	< 1	0.01	6	40	< 2	25	0.02	3	< 10	4			
294520	208 294	30	< 1	0.01	4	30	< 2	18	0.01	2	< 10	6			
294521	208 294	30	< 1	0.02	4	30	< 2	21	0.01	2	< 10	6			
294522	208 294	30	< 1	0.03	3	50	2	22	0.01	2	< 10	6			
294523	208 294	20	< 1	0.07	5	20	4	29	0.02	3	< 10	4			
294524	208 294	15	< 1	0.04	3	30	< 2	11	0.02	6	< 10	4			
294525	208 294	20	< 1	0.02	4	40	< 2	16	0.02	6	< 10	6			
294526	208 294	15	< 1	0.01	4	30	< 2	23	< 0.01	2	< 10	6			
294527	208 294	30	< 1	0.01	4	70	< 2	36	0.01	3	< 10	6			
294528	208 294	20	< 1	< 0.01	3	10	4	11	< 0.01	1	< 10	14			
294529	208 294	20	< 1	0.01	4	50	2	26	0.01	2	< 10	6			
294530	208 294	30	< 1	0.02	5	30	2	18	0.01	4	< 10	10			
294531	208 294	35	< 1	0.01	5	40	4	24	0.01	2	< 10	6			
294532	208 294	30	< 1	0.02	3	30	< 2	30	0.01	2	< 10	6			
294533	208 294	25	1	0.04	5	20	< 2	25	0.01	4	< 10	8			
294534	208 294	20	< 1	0.12	6	30	< 2	41	0.05	4	< 10	4			
294535	208 294	20	< 1	0.04	3	40	< 2	29	0.02	2	< 10	4			
294536	208 294	30	< 1	0.05	4	40	< 2	27	0.03	4	< 10	4			
294537	208 294	25	< 1	0.01	3	30	< 2	19	0.01	1	< 10	6			
294538	208 294	20	< 1	< 0.01	3	20	< 2	15	< 0.01	1	< 10	4			
294539	208 294	20	< 1	0.01	5	40	< 2	19	0.01	2	< 10	4			
294540	208 294	25	< 1	0.01	4	40	< 2	19	0.01	3	< 10	4			

CERTIFICATION: _____



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22 MAXOME AVE.
 WILLOWDALE, ON
 M2M 3J9

Page Number : 2-A
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 Invoice Date : 27-SEP-90
 Invoice No. : I-9022592
 P.O. Number :

Project :
 Comments :

CERTIFICATE OF ANALYSIS A9022592

SAMPLE DESCRIPTION	PREP CODE	SiO2 % fusion	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
294541	208 294	94.89	< 0.5	0.35	40	< 0.5	< 2	< 0.01	< 0.5	< 1	156	2	0.33	0.10	< 0.01
294542	208 294	92.74	< 0.5	0.73	40	< 0.5	< 2	< 0.01	< 0.5	< 1	246	2	0.39	0.26	< 0.01
294543	208 294	94.71	< 0.5	0.60	70	< 0.5	< 2	< 0.01	< 0.5	1	182	2	0.42	0.24	< 0.01
294544	208 294	95.39	< 0.5	0.36	170	< 0.5	< 2	< 0.01	< 0.5	< 1	214	1	0.39	0.12	< 0.01
294545	208 294	95.25	< 0.5	1.37	50	< 0.5	< 2	< 0.01	< 0.5	1	197	< 1	0.38	0.62	< 0.01
294546	208 294	90.88	< 0.5	2.60	210	< 0.5	< 2	0.01	< 0.5	4	252	< 1	0.87	1.27	0.01
294547	208 294	92.15	< 0.5	2.14	300	< 0.5	< 2	< 0.01	< 0.5	< 1	209	1	0.58	0.93	0.01
294548	208 294	93.77	< 0.5	0.57	40	< 0.5	< 2	< 0.01	< 0.5	< 1	191	1	0.82	0.20	< 0.01
294549	208 294	94.57	< 0.5	0.50	50	< 0.5	< 2	< 0.01	< 0.5	< 1	163	2	0.44	0.16	< 0.01
294550	208 294	93.10	< 0.5	0.31	10	< 0.5	< 2	< 0.01	< 0.5	< 1	179	< 1	0.38	0.09	< 0.01
294601	208 294	93.84	< 0.5	0.47	10	< 0.5	< 2	< 0.01	< 0.5	< 1	156	2	0.39	0.12	< 0.01
294602	208 294	92.56	< 0.5	0.51	40	< 0.5	< 2	< 0.01	< 0.5	1	150	1	0.52	0.15	< 0.01
294603	208 294	93.22	< 0.5	0.48	10	< 0.5	< 2	< 0.01	< 0.5	< 1	162	1	0.62	0.17	< 0.01
294604	208 294	93.82	< 0.5	0.42	20	< 0.5	< 2	< 0.01	< 0.5	< 1	260	1	0.60	0.12	< 0.01
294605	208 294	95.43	< 0.5	1.42	40	< 0.5	< 2	< 0.01	< 0.5	< 1	227	1	0.45	0.63	< 0.01
294606	208 294	98.58	< 0.5	0.20	50	< 0.5	< 2	< 0.01	< 0.5	< 1	293	< 1	0.29	0.08	< 0.01
294651	208 294	92.40	< 0.5	0.49	10	< 0.5	< 2	< 0.01	< 0.5	< 1	286	1	0.67	0.17	< 0.01
294652	208 294	96.14	< 0.5	0.36	10	< 0.5	< 2	< 0.01	< 0.5	< 1	200	1	0.30	0.11	< 0.01
294653	208 294	94.13	< 0.5	0.33	20	< 0.5	< 2	< 0.01	< 0.5	< 1	200	1	0.36	0.08	< 0.01
294654	208 294	92.15	< 0.5	0.59	30	< 0.5	< 2	< 0.01	< 0.5	1	107	2	0.38	0.19	< 0.01
294655	208 294	95.79	< 0.5	0.57	30	< 0.5	< 2	0.01	< 0.5	1	199	1	0.44	0.13	< 0.01
294656	208 294	93.62	< 0.5	1.77	100	0.5	< 2	< 0.01	< 0.5	2	174	4	0.59	0.78	0.01
294657	208 294	86.69	< 0.5	4.05	260	1.0	< 2	0.03	< 0.5	5	274	< 1	1.38	1.74	0.04
294658	208 294	89.21	< 0.5	3.26	160	1.0	< 2	< 0.01	< 0.5	3	237	< 1	0.66	1.40	0.02
294659	208 294	96.47	< 0.5	0.48	10	< 0.5	< 2	< 0.01	< 0.5	1	206	1	0.36	0.17	< 0.01
294660	208 294	91.86	< 0.5	0.84	50	< 0.5	2	< 0.01	< 0.5	< 1	161	< 1	0.51	0.28	< 0.01
294661	208 294	88.73	< 0.5	0.98	70	0.5	< 2	< 0.01	< 0.5	1	183	1	0.72	0.35	0.01
294662	208 294	94.80	< 0.5	0.16	< 10	< 0.5	< 2	< 0.01	< 0.5	1	184	1	0.36	< 0.01	< 0.01
294663	208 294	94.17	< 0.5	0.29	< 10	< 0.5	< 2	< 0.01	< 0.5	1	167	2	0.50	0.06	< 0.01
294664	208 294	96.00	< 0.5	0.32	10	< 0.5	< 2	< 0.01	< 0.5	2	183	2	0.36	0.08	< 0.01
294665	208 294	95.93	< 0.5	0.44	30	< 0.5	< 2	< 0.01	< 0.5	1	213	3	0.38	0.14	< 0.01
294666	208 294	96.20	< 0.5	0.28	10	< 0.5	< 2	< 0.01	< 0.5	1	190	2	0.34	0.08	< 0.01
294667	208 294	94.99	< 0.5	0.67	70	< 0.5	< 2	< 0.01	< 0.5	1	272	2	0.50	0.25	< 0.01
294668	208 294	97.81	< 0.5	0.38	20	< 0.5	< 2	0.01	< 0.5	2	337	4	0.40	0.12	< 0.01
294669	208 294	98.20	< 0.5	0.25	20	< 0.5	< 2	0.01	< 0.5	1	165	3	0.22	0.10	< 0.01
294670	208 294	92.00	< 0.5	0.69	40	< 0.5	< 2	0.01	< 0.5	2	342	4	0.60	0.18	< 0.01
294671	208 294	92.35	< 0.5	0.58	40	< 0.5	< 2	0.01	< 0.5	3	376	4	0.73	0.14	< 0.01
294672	208 294	78.11	< 0.5	1.13	50	< 0.5	< 2	0.01	< 0.5	9	499	1	3.12	0.24	0.01
294673	208 294	93.67	< 0.5	0.43	30	< 0.5	< 2	< 0.01	< 0.5	1	165	3	0.40	0.12	< 0.01
294674	208 294	98.39	< 0.5	0.06	< 10	< 0.5	< 2	0.02	< 0.5	1	344	5	0.41	< 0.01	< 0.01

CERTIFICATION: _____



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To: HOGG, WILLIAM A.

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WILLOWDALE, ON
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Page Number : 2-B
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CERTIFICATE OF ANALYSIS A9022592

SAMPLE DESCRIPTION	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
294541	208 294	20	< 1	0	4	40	< 2	22	0.01	2	< 10	6			
294542	208 294	30	< 1	0.01	4	50	< 2	14	0.01	3	< 10	4			
294543	208 294	15	< 1	0.02	4	30	< 2	8	0.02	6	< 10	2			
294544	208 294	10	< 1	0.01	3	20	< 2	9	0.01	4	< 10	4			
294545	208 294	10	< 1	0.06	3	20	< 2	14	0.02	8	< 10	2			
294546	208 294	20	< 1	0.11	6	50	< 2	22	0.09	12	< 10	4			
294547	208 294	15	< 1	0.10	4	80	< 2	25	0.05	25	< 10	4			
294548	208 294	15	< 1	0.02	3	50	< 2	29	0.02	6	< 10	2			
294549	208 294	15	< 1	0.01	4	20	< 2	9	0.02	5	< 10	4			
294550	208 294	15	< 1	0.01	1	20	< 2	9	0.01	1	< 10	4			
294601	208 294	15	< 1	0.02	3	30	< 2	21	0.01	3	< 10	6			
294602	208 294	20	< 1	0.01	3	40	< 2	16	0.01	10	< 10	8			
294603	208 294	60	< 1	0.01	5	30	< 2	22	0.02	6	< 10	4			
294604	208 294	15	< 1	0.01	4	50	< 2	33	0.02	4	< 10	6			
294605	208 294	20	< 1	0.06	4	20	< 2	25	0.03	5	< 10	4			
294606	208 294	20	< 1	0.01	4	10	< 2	2	< 0.01	2	< 10	4			
294651	208 294	25	< 1	0.01	5	20	< 2	14	0.02	3	< 10	6			
294652	208 294	20	< 1	0.01	3	10	< 2	9	< 0.01	2	< 10	< 2			
294653	208 294	25	< 1	0.01	4	20	< 2	15	0.01	2	< 10	6			
294654	208 294	35	< 1	0.02	4	40	< 2	23	0.01	2	< 10	2			
294655	208 294	25	< 1	0.02	5	40	< 2	25	0.01	2	< 10	6			
294656	208 294	20	< 1	0.08	3	50	< 2	38	0.04	4	< 10	4			
294657	208 294	30	< 1	0.22	9	90	< 2	73	0.14	17	< 10	8			
294658	208 294	15	< 1	0.17	6	40	< 2	48	0.05	10	< 10	2			
294659	208 294	30	< 1	0.02	4	50	< 2	25	0.01	2	< 10	2			
294660	208 294	25	< 1	0.03	3	40	< 2	29	0.03	2	< 10	2			
294661	208 294	105	< 1	0.03	7	60	< 2	50	0.03	4	< 10	4			
294662	208 294	25	< 1	< 0.01	4	30	< 2	10	< 0.01	< 1	< 10	6			
294663	208 294	25	< 1	0.01	4	30	< 2	12	0.01	2	< 10	2			
294664	208 294	20	< 1	0.01	3	40	< 2	7	0.01	2	< 10	4			
294665	208 294	20	< 1	0.01	5	30	< 2	6	0.01	5	< 10	4			
294666	208 294	15	< 1	0.01	3	30	< 2	6	0.01	3	< 10	6			
294667	208 294	20	< 1	0.02	5	40	< 2	17	0.02	6	< 10	8			
294668	208 294	20	< 1	0.01	3	60	< 2	35	< 0.01	4	< 10	6			
294669	208 294	40	< 1	0.01	3	30	< 2	10	< 0.01	2	< 10	8			
294670	208 294	30	< 1	0.02	7	60	< 2	28	0.02	4	< 10	6			
294671	208 294	40	< 1	0.02	10	50	< 2	20	0.02	4	< 10	4			
294672	208 294	150	< 1	0.03	17	100	< 2	31	0.22	10	< 10	14			
294673	208 294	30	< 1	0.02	3	40	< 2	11	0.01	1	< 10	2			
294674	208 294	60	< 1	< 0.01	8	90	< 2	14	< 0.01	2	< 10	10			

CERTIFICATION:



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 5175 Timberlea Blvd., Mississauga,
 Ontario, Canada L4W 2S3
 PHONE: 416-624-2806

To: HOGG, WILLIAM A.

22 MAXOME AVE.
 WILLOWDALE, ON
 M2M 3J9

Page Number : 3-A
 Total Pages : 3
 Invoice Date : 27-SEP-90
 Invoice No. : I-9022592
 P.O. Number :

Project :
 Comments :

CERTIFICATE OF ANALYSIS A9022592

SAMPLE DESCRIPTION	PREP CODE	SiO2 % fusion	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
294675	208 294	91.17	< 0.5	2.31	130	1.0	< 2	0.01	< 0.5	4	392	3	0.82	0.82	0.02
294676	208 294	96.66	< 0.5	0.76	80	< 0.5	< 2	0.01	< 0.5	2	428	3	0.45	0.31	0.01
294677	208 294	91.65	< 0.5	0.86	40	< 0.5	< 2	< 0.01	< 0.5	2	133	1	0.61	0.32	< 0.01
294678	208 294	91.42	< 0.5	1.09	50	< 0.5	< 2	< 0.01	< 0.5	3	384	2	1.05	0.35	< 0.01
294679	208 294	95.29	< 0.5	0.39	10	< 0.5	< 2	< 0.01	< 0.5	1	158	2	0.30	0.11	< 0.01
294680	208 294	96.35	< 0.5	0.54	< 10	< 0.5	< 2	< 0.01	< 0.5	1	307	3	0.39	0.03	< 0.01
294681	208 294	92.97	< 0.5	0.43	30	< 0.5	< 2	< 0.01	< 0.5	1	150	3	0.68	0.09	< 0.01
294682	208 294	94.69	< 0.5	0.42	20	< 0.5	< 2	0.01	< 0.5	3	190	3	0.41	0.10	< 0.01
294683	208 294	92.38	< 0.5	0.45	60	< 0.5	< 2	< 0.01	< 0.5	1	130	4	0.28	0.14	< 0.01
294684	208 294	93.57	< 0.5	0.93	100	< 0.5	< 2	0.01	< 0.5	2	400	4	0.52	0.32	0.01
294685	208 294	97.57	< 0.5	0.57	20	< 0.5	< 2	0.02	< 0.5	1	158	11	0.21	0.07	0.02
294686	208 294	94.99	< 0.5	0.77	40	< 0.5	< 2	0.02	< 0.5	2	426	8	0.49	0.20	0.01
294687	208 294	94.90	< 0.5	0.69	10	< 0.5	< 2	< 0.01	< 0.5	< 1	137	2	0.35	0.27	< 0.01
294688	208 294	95.62	< 0.5	0.34	< 10	< 0.5	< 2	< 0.01	< 0.5	2	310	3	0.53	0.09	< 0.01
294689	208 294	93.90	< 0.5	0.47	10	< 0.5	< 2	< 0.01	< 0.5	2	113	3	0.33	0.16	< 0.01
294690	208 294	95.43	< 0.5	0.31	30	< 0.5	< 2	< 0.01	< 0.5	1	278	4	0.44	0.06	< 0.01
294691	208 294	93.78	< 0.5	0.44	50	< 0.5	< 2	< 0.01	< 0.5	1	117	5	0.27	0.13	< 0.01
294692	208 294	90.32	< 0.5	0.51	20	< 0.5	< 2	0.01	< 0.5	3	338	4	0.94	0.07	< 0.01
294693	208 294	91.03	< 0.5	1.24	30	0.5	< 2	0.01	< 0.5	3	584	7	0.85	0.26	0.01
294694	208 294	95.59	< 0.5	0.32	10	< 0.5	< 2	< 0.01	< 0.5	1	225	3	0.51	0.06	< 0.01
294695	208 294	95.00	< 0.5	1.01	130	< 0.5	< 2	< 0.01	< 0.5	1	140	2	0.29	0.40	0.01
294696	208 294	79.52	< 0.5	1.84	170	0.5	< 2	0.01	< 0.5	5	234	2	1.39	0.61	0.01
294697	208 294	90.33	< 0.5	1.35	110	0.5	< 2	0.01	< 0.5	3	268	3	0.78	0.50	0.01
294698	208 294	92.34	< 0.5	0.5	40	< 0.5	< 2	0.01	< 0.5	3	382	4	0.71	0.12	< 0.01
294699	208 294	94.30	< 0.5	0.5	20	< 0.5	< 2	< 0.01	< 0.5	2	250	4	0.55	0.08	< 0.01
294700	208 294	94.17	< 0.5	0.92	60	0.5	< 2	< 0.01	< 0.5	2	233	5	0.50	0.29	< 0.01

CERTIFICATION: _____



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 5175 Timberlea Blvd., Mississauga,
 Ontario, Canada L4W 2S3
 PHONE: 416-624-2806

To: HOGG, WILLIAM A.

22 MAXOME AVE.
 WILLOWDALE, ON
 M2M 3J9

Project :
 Comments :

Page Number : 3-B
 Total Pages : 3
 Invoice Date : 27-SEP-90
 Invoice No. : I-9022592
 P.O. Number :

CERTIFICATE OF ANALYSIS A9022592

SAMPLE DESCRIPTION	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)			
294675	208 294	40	< 1	0.11	9	80	2	57	0.06	8	< 10	6			
294676	208 294	25	< 1	0.03	8	30	< 2	21	0.01	8	< 10	10			
294677	208 294	20	< 1	0.03	5	60	< 2	25	0.04	5	< 10	6			
294678	208 294	30	< 1	0.04	7	60	< 2	28	0.07	8	< 10	6			
294679	208 294	25	< 1	0.01	4	30	4	17	0.01	3	< 10	2			
294680	208 294	20	< 1	0.01	5	40	< 2	36	< 0.01	2	< 10	4			
294681	208 294	30	< 1	0.01	4	30	< 2	12	0.01	2	< 10	10			
294682	208 294	20	< 1	0.01	3	40	< 2	12	0.01	3	< 10	2			
294683	208 294	25	< 1	0.02	2	50	< 2	24	0.01	2	< 10	2			
294684	208 294	30	< 1	0.04	7	50	< 2	14	0.02	5	< 10	4			
294685	208 294	10	< 1	0.02	4	30	< 2	16	< 0.01	1	< 10	4			
294686	208 294	30	< 1	0.03	7	80	< 2	33	0.01	4	< 10	12			
294687	208 294	15	< 1	0.02	3	40	< 2	18	0.01	5	< 10	< 2			
294688	208 294	20	< 1	0.01	4	60	< 2	26	0.01	4	< 10	4			
294689	208 294	15	< 1	0.02	4	60	< 2	25	0.01	4	< 10	< 2			
294690	208 294	20	< 1	0.01	5	60	< 2	34	< 0.01	3	< 10	4			
294691	208 294	10	< 1	0.01	3	50	< 2	17	0.01	4	< 10	2			
294692	208 294	40	< 1	0.01	7	80	< 2	37	0.02	3	< 10	6			
294693	208 294	65	1	0.05	10	70	< 2	41	0.03	5	< 10	10			
294694	208 294	40	< 1	0.01	6	30	< 2	9	0.01	3	< 10	4			
294695	208 294	15	< 1	0.05	3	40	< 2	30	0.02	3	< 10	4			
294696	208 294	35	< 1	0.07	12	90	< 2	63	0.07	7	< 10	6			
294697	208 294	20	< 1	0.05	8	80	< 2	34	0.04	6	< 10	6			
294698	208 294	45	< 1	0.02	9	50	< 2	19	0.02	4	< 10	10			
294699	208 294	30	< 1	0.01	6	30	< 2	16	0.01	5	< 10	6			
294700	208 294	25	< 1	0.04	6	50	< 2	17	0.02	13	< 10	8			

CERTIFICATION: _____



W. 90



31L11NW0006 2.13635 MCAUSLAN

900

W9007-00294

Type Survey(s) **GEOLOGICAL & GEOCHEMICAL**

Claim Holder(s) **WILLIAM A. HOGG**

Address **22 MAXOME AVE WILLOWDALE ONT M2M3J9**

Survey Company

Date of Survey (from & to) **03 08 90** to **10 10 90**

Total Miles of line Cut

Name and Address of Author (of Geo-Technical report) **WILLIAM A. HOGG 22 MAXOME AVE WILLOWDALE, ONT M2M3J9**

Prospector's Licence No. **A 503 44**

McAUSLAN TWP (G-1630)

Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Geological	
	Geochemical	
Electromagnetic		
	Magnetometer	
	Radiometric	

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
S	1017435				
	1017436				
	1017437				
	1017438				
	1017439				
	1017440				

RECEIVED
MINE DIV.
OCT 29 1990
SUDBURY

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date **Oct. 29/90** Recorded Holder or Agent (Signature) *William A. Hogg*

For Office Use Only

Total Days Cr. Recorded **348** Date Recorded **Oct. 29/90**

Date Approved as Recorded **Jan 8/91**

Mining Recorder *V.C. Miller*

Branch Director *James G. Gault*

Certification Verifying Report of Work I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying **WILLIAM A. HOGG 22 MAXOME AVE WILLOWDALE ONT M2M3J9**

Date Certified **Oct 29 1990** Certified by (Signature) *William A. Hogg*

416-221-7428.



W. 9007. 00295

Instructions

- Please type or print.
- Refer to Subsection 77(19), the Mining Act for assessment work requirements and maximum credits allowed under this Subsection.
- Technical Reports, maps and proof of expenditures in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

Mining Act

Report of Work
(Expenditures, Subsection 77(19))

219635

Type of Work Performed GEOLOGICAL & ROCK GEOCHEMISTRY	Mining Division SUDBURY	Township or Area Mc AUSLAN (G. 1630)
Recorded Holder WILLIAM A HOGG	Prospector's Licence No. A 50344	
Address 22 MAXOME AVE WILLOWDALE ONT M2M3J9		Telephone No. 416-221-7428
Work Performed By WILLIAM A. HOGG		
Name and Address of Author (of Submission) 22 MAXOME AVE WILLOWDALE ONT M2M 3J9		Date When Work was Performed From: 03 AUG 90 To: 10 OCT 90 Day Mo Yr Day Mo Yr

All the work was performed on Mining Claim(s): Indicate no. of days performed on each claim. *See Note No. 1 on reverse side				Mining Claim S1017435	No. of Days 18	Mining Claim S1017436	No. of Days 18	Mining Claim S1017437	No. of Days 8	Mining Claim S1017438	No. of Days 8
Mining Claim S1017439	No. of Days 2	Mining Claim S1017440	No. of Days 2								

Instructions Total days credits may be distributed at claim holder's choice. Enter number of days credits per claim in the expenditure days credit column (below).	Calculation of Expenditure Days Credits		Total Number of Mining Claims Covered by this Report of Work
	Total Expenditures \$ 3528.05	÷ 15 =	Total Days Credits 235
			6

Mining Claims (List in numerical sequence). If space is insufficient, attach schedules with required information

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
S	1017435	39									
S	1017436	39									
S	1017437	39									
S	1017438	39									
S	1017439	39									
S	1017440	39									

Total Number of Days Performed 235	Total Number of Days Claimed 235	Total Number of Days to be Claimed at a Future Date
--	--	---

Certification of Beneficial Interest *See Note No. 2 on reverse side

I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder.	Date Oct 29th 1990	Recorded Holder or Agent (Signature) William A. Hogg
--	---	--

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.			
Name and Address of Person Certifying WILLIAM A. HOGG 22 MAXOME AVE, WILLOWDALE, ONT. M2M 3J9			
Telephone No. 416-221-7428	Date Oct 29th 1990	Certified By (Signature) William A. Hogg	

For Office Use Only

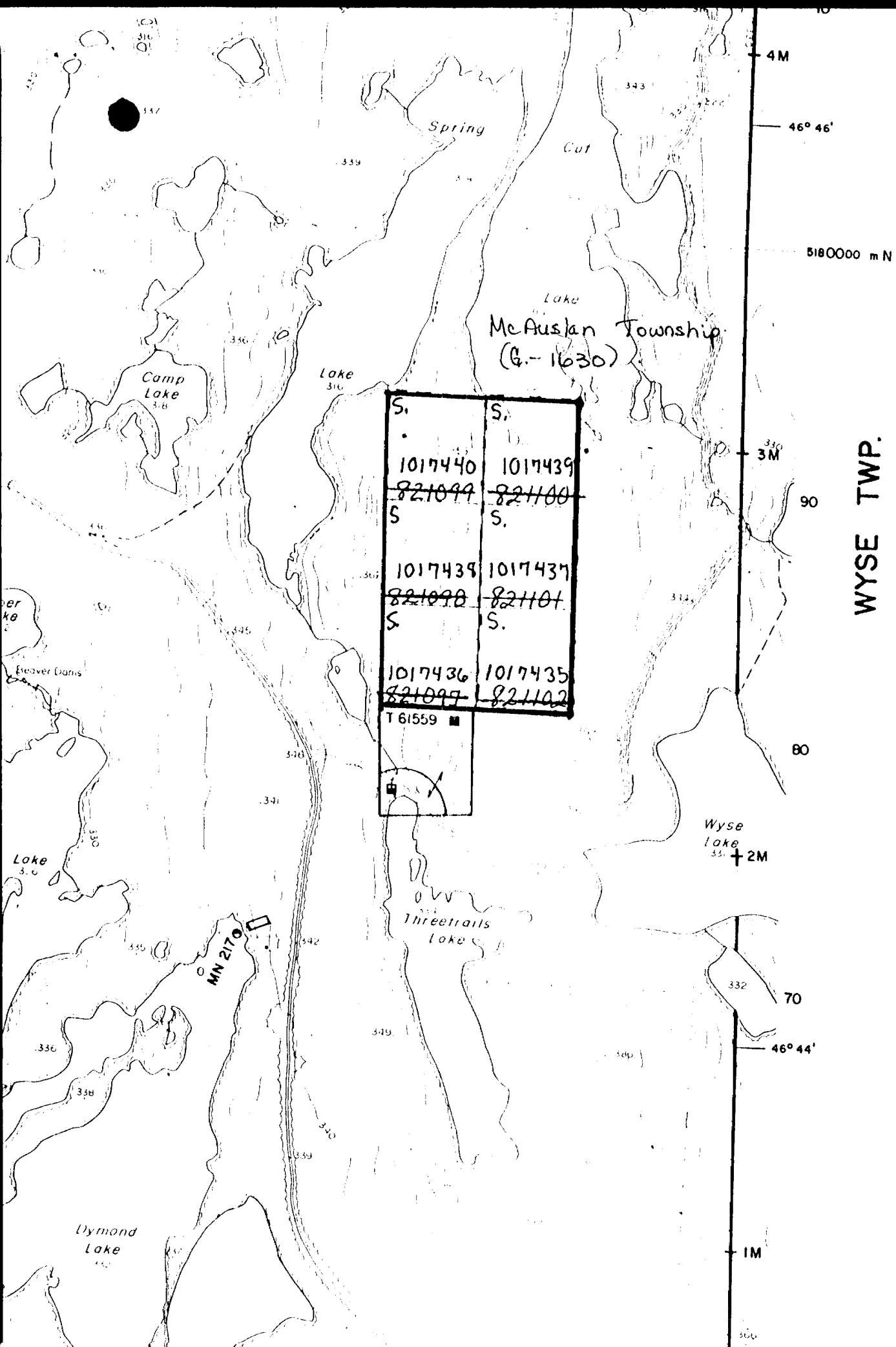
Total Days Cr. Recorded 234	Date Recorded Oct. 29/90	Mining Recorder V.C. Miller
	Date Approved as Recorded Jan 8/91	Provincial Manager, Mining Lands Ron C. Gashli

Received Stamp

RECEIVED

OCT 29 1990

12:00 P.M.



S.	S.
1017440	1017439
821099	821100
S.	S.
1017439	1017437
821098	821101
S.	S.
1017436	1017435
821097	821102
T 61559	

WYSE TWP.

NOTE: MIP
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Metres

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Chains

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0.2/83

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TOWNSHIP

MCAL

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: HOGG, WILLIAM A.

**

22 MAXOME AVE.
WILLOWDALE, ON
M2M 3J9

INVOICE NUMBER

I 9 0 2 4 9 8 1

BILLING INFORMATION

Date: 21-OCT-90
Project:
P.O. No.:
Account: IPN

Comments:

Billing: For analysis performed on
Certificate I9024981

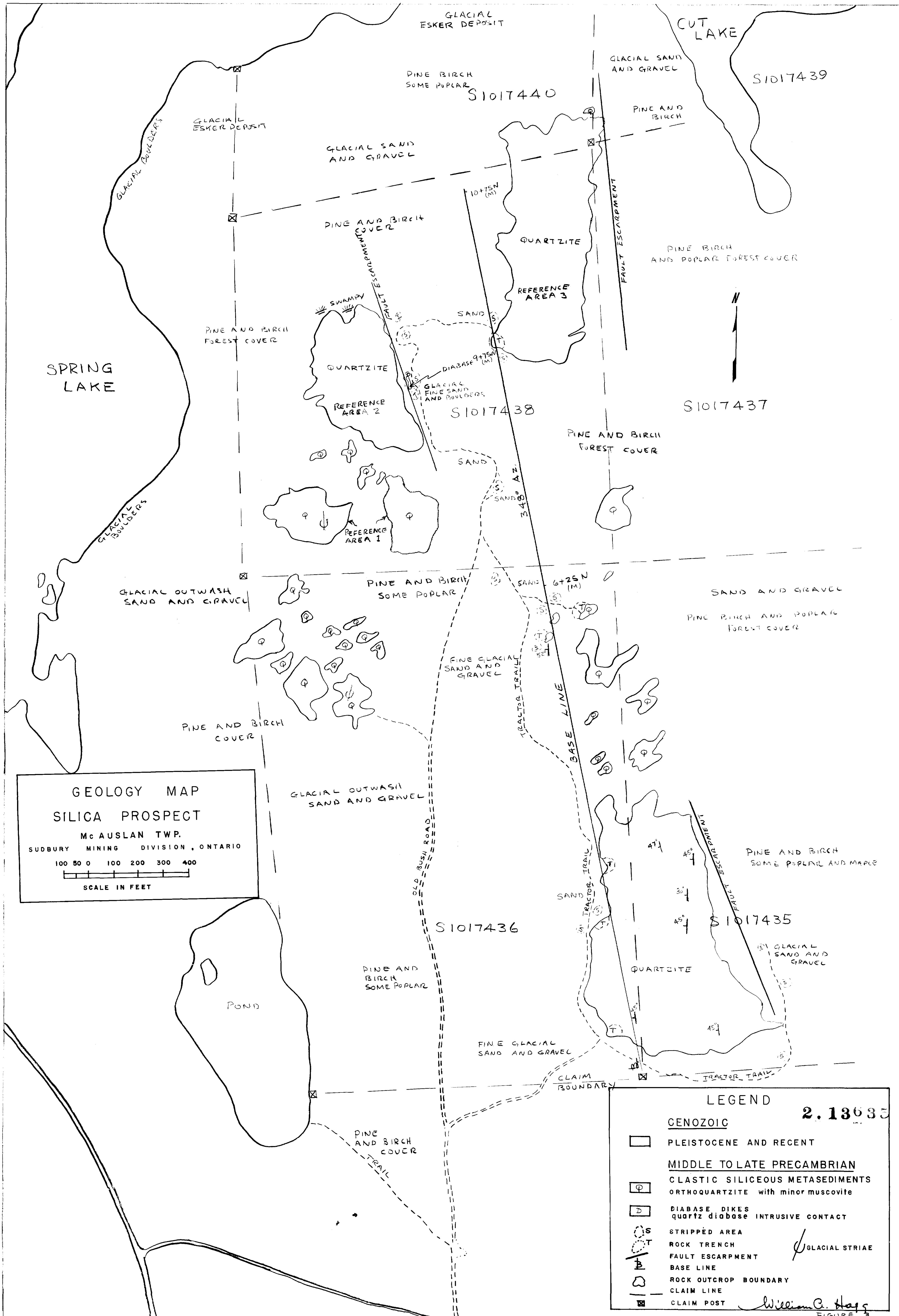
Terms: Payment due on receipt of invoice
1.5% per month (18% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS LTD.
212 Brooksbank Ave.,
North Vancouver, B.C.
Canada V7J-2C1

CHEMEX CODE	ANALYSIS DESCRIPTION	SAMPLES ANALYSED	UNIT PRICE	AMOUNT
G1	- A-12 W.R.A. ICP	3	20.00	60.00
	Sample preparation and other charges.			
214	- Received as pulp	3	0.00	0.00
			Total Cost \$	60.00
			TOTAL PAYABLE (CDN) \$	60.00

PAID
PK.



GEOLOGY MAP
SILICA PROSPECT
 Mc AUSLAN TWP.
 SUDBURY MINING DIVISION, ONTARIO

100 50 0 100 200 300 400
 SCALE IN FEET

LEGEND **2.13635**

GENOZOIC

- PLEISTOCENE AND RECENT
- MIDDLE TO LATE PRECAMBRIAN**
- ⊕ CLASTIC SILICEOUS METASEDIMENTS
ORTHOQUARTZITE with minor muscovite
- ▭ DIABASE DIKES
quartz diabase INTRUSIVE CONTACT
- STRIPPED AREA
- ⊖ ROCK TRENCH
- ▬ FAULT ESCARPMENT
- BASE LINE
- ⊕ ROCK OUTCROP BOUNDARY
- CLAIM LINE
- ⊠ CLAIM POST

William C. Hays
 FIGURE 3

