

#### SURFICIAL GEOLOGY LEGEND

- 8 ORG\* Organic deposits: marsh, fen, bog, and swamp characterized by seasonal flooding, 1 - 5 m thick
- 7 ALLV Alluvial sediments: sand, gravel, and silt
- 6 MAR Marine sediments: stratified clayey to stony silt
- 5 GLIN Glaciolacustrine nearshore sediments: silt, sand and clay, commonly well-sorted, up to 3 m thick
- 4 GLIO Glaciolacustrine offshore sediments: silt, clay and sand, well-sorted, 1 to 30 m thick
- 3 GLF Glaciolacustrine sediments: gravel, sand and silt, water-sorted, stratified, includes ice-contact stratified drift, 1 - 100 m thick
- 2 TILL Glacial till: primarily bedrock derived, veneer to blanket, silty to sandy, 1 - 5 m thick, may be covered by localized boulder lag
- 1 ROCK Bedrock: predominantly exposed bedrock, commonly with a thin cover of till or organic material

Notes: Units 6 and 7 may occur in the survey area but are not indicated because of limited areal extent

\* A three or four character mnemonic code entered as part of the field data

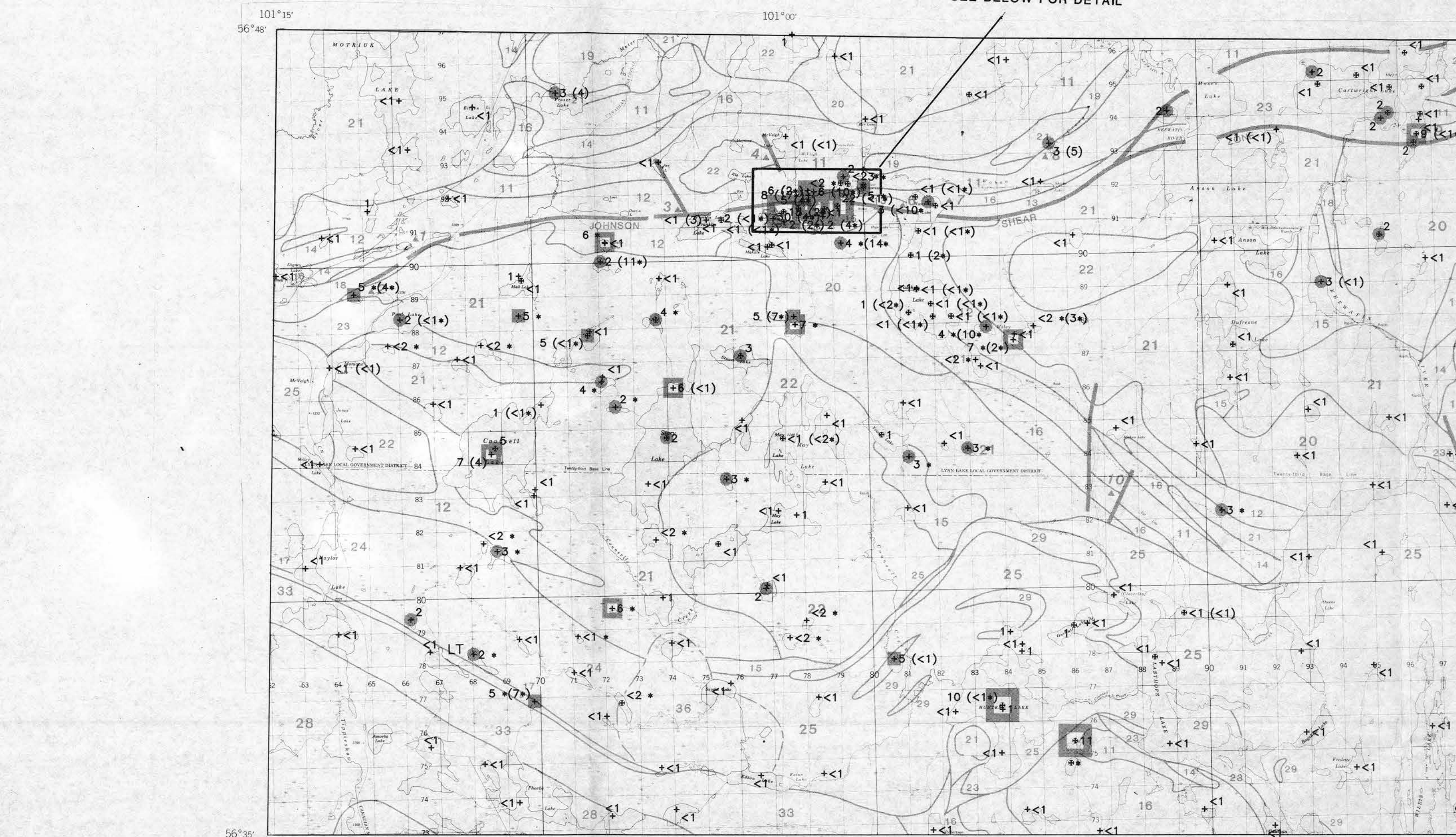
#### SYMBOLS

- Surficial unit contact .....
- Interlobate moraine .....
- Esker .....
- Striation direction, known or inferred .....
- Flute, drumlinoid form .....

#### SOURCES OF INFORMATION

- Kaszycki, C.A., and Way Nee, V.J., 1986, Surficial Geology of Granville Lake - Manitoba, MTS 64C, Geological Survey of Canada, Open File 1258, 1:100,000
- Kaszycki, C.A., and Way Nee, V.J., 1989, Surficial Geology of Uhlman Lake - Manitoba, MTS 64B, Geological Survey of Canada, Open File in preparation, 1:100,000
- Kaszycki, C.A., and Dilabio, R.N.W., 1986, Surficial geology and till geochemistry, Lynn Lake - Leaf Rapids region, Manitoba, in Current Research, Part B, Geological Survey of Canada, Paper 86-1B, p 245-256

#### SEE BELOW FOR DETAIL



Au value (ppb) ..... +17

( ) denotes an analysis performed on a sample weight <10 g.

<n identifies Au values corresponding to repeat analyses.

<n denotes a result less than detection level n (ppb).

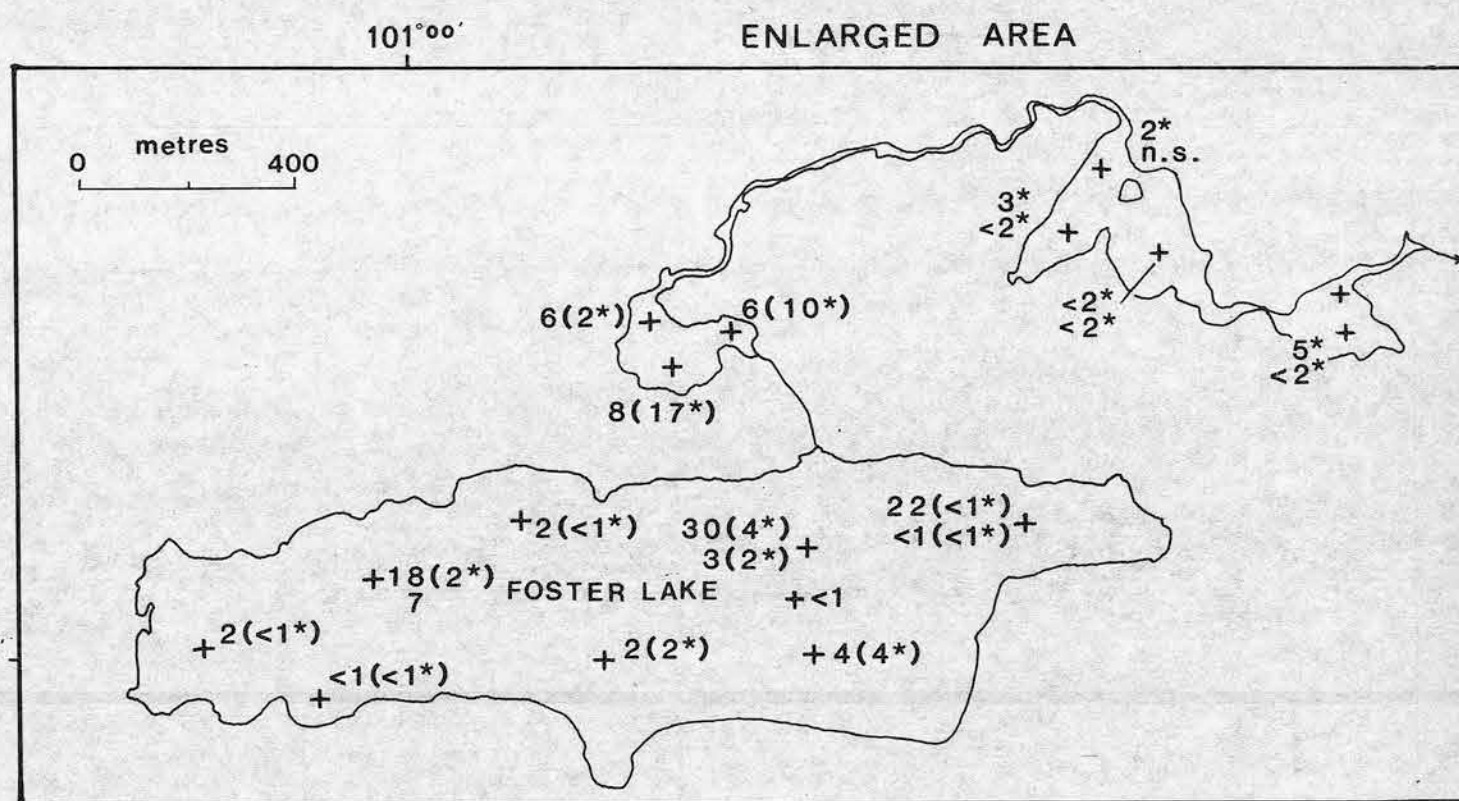
consult text for actual sample weight when Au values denoted by \* or < detection level.

Examples:

+2(5) Au value of 21 ppb determined on sample weight <10 g.

+30(27\*) Au value of 30 ppb on first analysis; Au value of 27 ppb on repeat analysis for sample weighing <10 g.

+4 Au value less than detection limit of 4 ppb.



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Manitoba Energy and Mines

Energy, Mines and Resources Canada

Canada

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GEOLOGICAL SURVEY OF CANADA COMMISSION GÉOLOGIQUE DU CANADA

#### GOLD IN LAKE SEDIMENTS

GSC OPEN FILE 1959

CANADA - MANITOBA MINERAL DEVELOPMENT AGREEMENT (1985 - 1989)

LAKE SEDIMENT AND WATER GEOCHEMICAL SURVEY NORTHWESTERN MANITOBA, 1987 - 1988

Scale 1:50 000 - Echelle 1:50 000

Universal Transverse Mercator Projection

Projection: Transverse universelle de Mercator

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Elevation in feet above mean sea level

Mean magnetic declination 1989, 11°23' East, decreasing 22.7" annually

#### MINERAL DEPOSITS AND OCCURRENCES

Location Name	Commodity	Status1	Reference2
1 Gemmell 1	Au	O	1
2 Gemmell 2	Au	O	2
3 Ace Vein	Au	O	1
4 Austin Vein	Au	O	1
5 Johnson Shear	Au	D	1
6 T1A	Au	D	1
7 CL Group	Au	O	1
8 Burnt Timber	Au, Ag	D	3
9 Cartwright Lake	Au, Ag	D	1, 4
10 Lasthope	Au	D	1
11 Gold Lake	Au, Pb	O	5
12 Hughes Lake 1	Fe	O	6
13 Hughes Lake 2	Fe	O	5
14 Hughes River 1	Cu, Fe	O	5
15 Hughes River 2	Cu	O	5
16 Adam Lake	Fe	O	5
17 Farley Lake	Au, Ag	D	1
18 NL 62	Au, Ag, Cu, W	O	7, 8
19 NL 63	Cu	O	7
20 NL 64	Cu	O	7
21 NL 65	Cu?	O	7
22 Barrington Lake	Fe	O	5
23 Camp Bay	Fe	O	5
24 Island	Fe	O	5
25 Barrington Peninsula 2	Fe	O	5
26 Barrington Peninsula 2	Cu	O	5
27 Barrington Peninsula 3	Mn	O	5
28 Janet	Fe	O	5
29 Spider Lake	Au	O	9
30 MacBride Lake	Zn, Cu	O	10
31 Vermilion River	Cu	O	6
32 Eden Lake	REE	O	11
33 Gab and Cat	Fe, Cu	O	12

1 Status

O - Occurrence

D - Deposit

2 References

- 1 Manitoba Energy and Mines, 1987, Economic Geology Report ER 86-1
- 2 Manitoba Energy and Mines, 1987 Report of Field Activities, GS-1 Northern Miner Press, 31/10/1988 and Lynn Gold Resources
- 3 Manitoba Energy and Mines, 1989 Report of Field Activities, GS-8
- 4 Manitoba Energy and Mines, 1985 Report of Field Activities, GS-5
- 5 Baldwin, D.A., 1980, Manitoba Energy and Mines, Economic Geology Report ER 79-5
- 6 Manitoba Energy and Mines, 1985, Report of Field Activities, GS-6
- 7 Manitoba Energy and Mines, 1987 Report of Field Activities, GS-2
- 8 Manitoba Energy and Mines, 1986 Bedrock Geology Compilation Map Series, 1:250,000, NTS 64B - Uhlman Lake
- 9 Manitoba Energy and Mines, 1986 Bedrock Geology Compilation Map Series, 1:250,000, NTS 64C - Granville Lake
- 10 Manitoba Energy and Mines, 1986 Bedrock Geology Compilation Map Series, 1:250,000, NTS 64D - Uhlman Lake
- 11 Manitoba Energy and Mines, 1988 Report of Field Activities, GS-1
- 12 Baldwin, D.A., 1982, Manitoba Energy and Mines, Open File Report OF 81-4

#### LEGEND

- QUATERNARY
- 36 Q Unconsolidated glacial sediments
- PRECAMBRIAN
- 35 X Pegmatite
- 34 EZ Aegerine-augite monzonite
- 33 G Granite, megacrystic to seriate porphyritic
- 32 GA Granodiorite, seriate-porphyritic to hornblende
- 31 GB Granite, undivided
- 30 GC Granodiorite, granite
- 29 GT Diorite, quartz diorite - Black Trout diorite
- 28 T Tonalite, granodiorite, gneissic tonalite
- 27 ZM Monzodiorite
- 26 D Diorite, quartzdiorite, amphibolite
- LYNN LAKE DOMAIN
- SICKLE GROUP
- 25 SS Sandstone, quartzofeldspathic gneiss
- 24 SSH Calcareous sandstone, hornblende-quartzofeldspathic gneiss
- 23 SC Polymictic conglomerate
- PLUTONIC ROCKS
- 22 PG Granite, granodiorite
- 21 PT Tonalite, granodiorite - Pool Lake intrusive suite
- 20 PD Diorite, quartz diorite
- 19 B Gabbro, diorite
- WASEKAN GROUP
- 18 C Conglomerate
- 17 W Feldspathic greywacke, conglomerate
- 16 WW Volcanic sandstone, siltstone and mafic mudstone, iron formation (dotted line)
- 15 WA Wasekan Group undivided
- 14 WV Rhyolite, dacite, pyroclastics
- 13 WVA Andesite, porphyritic and aphyric basalt, tuff
- 12 WV Basalt, porphyritic and aphyric, iron formation (dotted line), mafic tuff
- 11 WVP Basalt, pillow basalt, porphyritic and aphyric basalt, mafic tuff
- LEAF RAPIDS DOMAIN
- PLUTONIC ROCKS
- 10 LBD Gabbro
- UNNAMED METASEDIMENTARY AND METAVOLCANIC ROCKS
- 9 LRW Greywacke, calc-silicate rock, iron formation (dotted line)
- 8 LRC Polymictic conglomerate and interbedded sandstone
- 7 K Chemical sedimentary rock
- 6 V Aphyric pillowed basalt
- 5 LRA Amphibolite, includes gabbro, sedimentary and volcanic rocks
- RUTTAN GROUP
- 4 RVf Mafic volcanoclastic rock, minor quartz diorite
- 3 RVr Basalt, aphyric and porphyritic
- SOUTHERN INDIAN DOMAIN
- 2 N Quartzofeldspathic gneiss ± hornblende, may include meta-sandstone
- 1 SW Quartz-biotite gneiss, amphibolite, migmatite

- Geological boundary .....
- Area of little or no outcrop .....
- Fault, shear zone .....
- Mineral deposit or occurrence .....
- Lake sediment and water sample location .....
- Field duplicate sample site .....

Geology base derived from:

Cameron, H.D.M., 1988, Geology of the Eden Lake Area, Manitoba Energy and Mines, Geological Report GS 84 - 2, 1:50,000

Manitoba Energy and Mines, 1986, Bedrock Geology Compilation Map Series, 1:250,000, NTS 64B Uhlman Lake.

Manitoba Energy and Mines, 1986, Bedrock Geology Compilation Map Series, 1:250,000, NTS 64C Granville Lake.

#### GEOLOGICAL SURVEY OF CANADA

#### EXPLORATION GEOCHEMISTRY SUBDIVISION

#### PROJECT COORDINATORS

H.R. Schmitt, P.W.B. Friske

#### CONTRACTORS

- Collection:
- 64B - Marshall Macklin Monaghan, Toronto (1984)
- 64C - Wollex Exploration, Calgary (1983)
- 64D - H.R. Schmitt, GSC (1985, 1986, 1987)
- Preparation:
- 64B - Golder Associates, Ottawa (1984 - 1988)
- Sediment Analysis:
- 64B - Barringer Magenta Ltd., Rexdale (1984 - 1985)
- 64B - Bondar, Clegg and Company Ltd., Ottawa (1987)
- 64B - Chemex Labs Ltd., Vancouver (Au only) (1985, 1987, 1988)
- 64C - Acme Analytical Laboratories Ltd., Toronto (1983)
- 64C - Barringer Magenta Ltd., Rexdale (Sb only) (1985)
- 64C - Chemex Labs Ltd., Vancouver (1983, 1987)
- 64C - Chemex Labs Ltd., Vancouver (Au only) (1985, 1987, 1988)
- Water Analysis:
- 64B - Barringer Magenta (Alberta) Ltd., Calgary (pH, U, F) (1984)
- 64B - Ward TSL, Winnipeg (1985)
- 64C - Chemex Labs Ltd., Vancouver (1987)
- 64C - Chemex Labs Ltd., Vancouver (1983, 1987)
- 64C - Ward TSL, Winnipeg (Cond, HCO<sub>3</sub>, Ca, Mg, Fe - 1984)

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601 Booth Street

Ottawa, Ontario K1A 0E8

Tel: (613) 995-4342

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