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Mines and Minerals Division

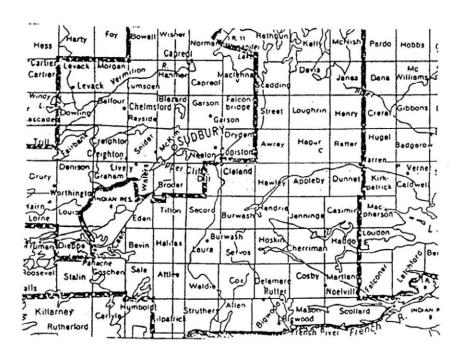
### GEOLOGICAL DATA INVENTORY FOLIO

**GDIF 543** 

## **CLELAND TOWNSHIP**

Sudbury Mining Division
41 I/7

Compiled by the staff of the Resident Geologist's Office SUDBURY



#### LOCATION MAP



This project is part of the five year Canada—Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

Mining Claim Map Number M. 722

This project was funded under the Canada Ontario Mineral Development Agreement (COMDA), 1985-1990.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1990. Cleland Township, Geological Data Inventory Folio compiled by the staff of the Resident Geologist's Office, Sudbury

Original Compilation by: Jerome, Lucille, May 1989

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Air Photographs, Mosaics, Imagery	9 - 1,2
Topographic Maps	10 - 1,2
Newspaper Clippings File	11 - 1,2
OGS/ODM General Index Search	12 - 1,2
Selected References	13 - 1,2
Notes	14 - 1,2
Addenda	15 - 1,2

### ACCOMPANYING MAPS (see map legends on outside back cover).

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B. Exploration Data Map (s) ...... Map B-1

# ABBREVIATIONS LIST

AFRO	Accommon Files Deserts Office (T
Ann. Rept. (A.R.)	Assessment Files Research Office (Toronto)
A RIP	Aggregate Beautage Inventors Description
Bull	Aggregate Resources Inventory Paper
CIMM	Consider leading a fit in the second
CIES	Canadian Institute of Mining and Metallurgy
CM I	Canadian Journal of Earth Sciences
C.M.J.	Canadian Mining Journal
Econ. Geol	
E.M.R	
E.P.B	Earth Physics Branch
G.A.C	Geological Association of Canada
GC	
GDIF	Geological Data Inventory Folio
Geol	Geology
Geol, Soc. Amer. Bull	Geological Society of American Bulletin
GR	Geoscience (Geological) Report
GSC	
	Institute on Lake Superior Geology
IMR	
	Report of the Iron Ore Committee (1923)
Jour. (or J)	
MDC	
	Mineral Deposit Inventory (Record)
Mem	
	Ministry of Northern Development and Mines
MNR	
MP	
MRC	
N.M.I	National Mineral Inventory
	Northern Ontario Engineering Geology Terrain Study
NTS	
O.B.M	
	Ontario Department of Lands and Forests
ODM	Ontario Department of Mines/Ontario Division of Mines
ODMNA	
OFR	
OGS	
P.R	
Prelim. (or P)	Preliminary
R.C	Royal Commission on Mineral Resources of Ontario (1890)
S.M.D.R	Source Mineral Deposit Record
SOEGTS	Southern Ontario Engineering Geology Terrain Study
Sum. Rept	Summary Report

## DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no': if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	No	L.J.
2	Assessment Files Research Office, Toronto	N.A.	L.J.
3	OGS/ODM General Index; 9 volumes	Yes	L.J.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	L.J.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	No	L.J.
6	ODM Industrial Mineral Reports	Yes	L.J.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	N.A.	L.J.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	L.J.
9	Newspaper Clippings File	No	L.J.
10	GSC Index to Publications	No	L.J.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	L.J.
12	OGS Index Maps	Yes	L.J.
13	Source Mineral Deposit Records (OGS)	Yeş	L.J.
14	Author - Subject Articles File	Yes	L.J.
15	ODM/OGS Miscellaneous Papers	No	L.J.
16	ODM Geological Circulars	No	L.J.
17	OGS Study Series	No	L.J.
18	ODM Preliminary Reports	No	L.J.
19	ODM Bulletins	No	L.J.
20	ODM/OGS Open File Reports	Yes	L.J.
21	OGS Northern/Southern Ontario Engineering Geology Terrain Studies	Yes	L.J.
22	OGS Aggregate Resources Inventory Papers	No	L.J.
23	OGS Mineral Potential Maps	Yes	L.J.
24	Drill Core Library Catalogue	N.A.	L.J.
25	Theses on File, Sudbury	No	L.J.
*			

MINERAL COMMODITIES REFERENCE LIST									
anh Anhydrite ank Ankerite ap Apatite arg Argentite As Arsenic asp Arsenopyrite asb Asbestos ba Barite be Beryl Bi Bismuth bn Bornite Cd Cadmium calc Calcite carb Carbonate cc Chalcocite cp Chalcopyrite ch Chert clay Clay Co Cobalt cob Cobaltite Cu Copper cor Corundum dol Dolomite ep Epidote  It Fluorite (flurospar) fu Fuchsite gn Galena	PERAL COMMODIT  gl Gravel gyp Gypsum hem Hematite Fe Iron IF Iron Formation jas Jasper ky Kyanite Pb Lead lim Limonite Li Lithium mgst Magnesite mag Magnetite mc Malachite Mn Manganese mb Marble mar Marcasite ma Marl  mi Mica mo Molybdenum mon Monazite ne Nephelite (nepheline) Ni Nickel Nb Niobium Pd Palladium pent Pentlandite Pt Platinum   py Pyrite pyl Pyrochlore	ra Radioactive minerals RE Rare Earths sd Sand sgl Sand and gravel ss Sandstone scap Scapolite shee Scheelite serp Serpentine sh Shale sid Siderite si Silica Ag Silver sl State sm Smaltite sod Sodalite spec Specularite sp Sphalerite sp Talc Te Tellurium th Thorite Th Thorium ti Titanium tour Tourmaline W Tungsten uran Uraninite U Uranium	ADDITIONS						
gt. Garnet goe Goethite Au Gold gf Graphite	pyl	verm Vermiculite Zn Zinc zr Zircon	*						

MINERAL OCCURRENCES			REFERENCES IN	Additional References			
Ref. Letter on Map	(see Exploration Data Map)  Name(s)	Mineralization	SMDR-Source Mineral Deposit Record MDC-Mineral Deposits Circular, OGS IMR-Industrial Mineral Report, OGS MDI-Mineral Deposit Inventory NMI-National Mineral Inventory	and/or Remarks			
A	Weisman Feldspar	fel, mi	MDIR S0284 IMC 3, p.13	Fel 3 GR116, pp.133-134, Map 2271 *see N-1			
В	Elbow Creek & Wanapitei River Junction Deposit or Pelto, Oscar	fel, mi	IMC 3, p.13	Fel 2 GR116, p.134, Map 2271 *see N-2			
С	Wanup North	fel,mi,gt	MDIR S285	GR116, p.134, Map 2271 *see N-3			
D	Cleland Township Occur- rence	py, po	·	GR116, p.129, Map 2271 *see N-4			
		*					

TYPE OF WORK		Nur	nbers	below	repres	sent th	ne yea	r in wh	nich th	e wor	k was	done;	e.g., 6	8 for	1968		တတ
(see Files Index Map) EXPLORATION FILES	GICAL	GEOCHEMICAL	HING.	NG.	DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	INE TIC	AIRBORNE ELECTROMAGNETIC	AIABORNE RADIOMETRIC	4D ETIC	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	'IVITY	OTHER DATA IN THIS FILE, OR FOOTNOTES
Ref. No. COMPANY/AUTHOR on (file number) Map	GEOLOGICAL	GEOCH	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDER	PROSP	ALRBORNE MAGNETIC	AIRBOR	AIRBOF	GROUND	GROUP	GROUP	INDUC	SELF P	RESISTIVITY	OTH
		0 F	PAG	= 14-	1NO	TES	FOR	TEMS	LISTE	ED BY	NUM	BER I	N TH	9 00	IIMN		4

DRIL	LHOLE SUMMARY	Company			Initial	Thickness	Total	Mineralization	Assay Data
Dritting Location Number on Map	(see Exploration Data Map)  Company Name  (file number)	Drillhole Number	Date Orilled	Bearing Azimuth	Dip of Hole	of Overburden	Length of Hole	Noted in Log	Included for
			)—— i	ndicates o	core sto	red at Drill	Core Librar	у	

Number	AIRBORNE GEOPH		Flight	Flight	
File Index Map(s)	— by — for — year	Type of Survey	Flight Altitude	Line Direction	Line Spacing

Map Sample Site Reference		SURVEY DATA	Ву	Reference	
Number	Type of Survey	Analysis For	].		

Site No.		GEOCHRONOL	OCHRONOLOGY DATA - AGE DATING				
on Map	Method	Material	Reference	Result			

## AERIAL PHOTOS; MOSAICS; IMAGERY

The following items are available for inspection at the Resident Geologists Office:

(a) Aerial Photographs:

(b) Photomosaics:

(c) Satellite Imagery:

# TOPOGRAPHIC MAPS (selected)

scale	by		
	year	name and/or number	<del></del>
1:50,000	1975	Coniston Sheet, 41 I/7	EMR
1:100,000	1980	NOEGTS Data Base Map, Sudbury, Map 5003 NOEGT Study 100, Sudbury	OGS, Gartner, J.F.
1:1,200,000	1987	Surficial Geology of Northern Ontario, Map 2518	OGS, Sado, E.V. an Carswell, B.F.
			}

DATE	PAGE	TARTICLE MEADLINE OR COMPANY AND OR OUR ISST
		"ARTICLE HEADLINE" OR COMPANY AND/OR SUBJECT

## **OGS/ODM GENERAL INDEX SEARCH**

Words Searched:
Cleland Township
Cross, D.H.
Elbow Creek
Felspar
Mica
Pelto, Oscar
Wanapitei River
Wanup North
Weisman Feldspar
350 200 America 200 Tambungurinia 2 - 400 200 America

Index Volume	Listing	Report Volume	Part	Page
2	Weisman Felspar Mine, Cleland Tp. Leased Shipments	34 34	1	66 79
2	Weisman Felspar Co. Feldspar mg., Cleland Tp. Property sold to A.L. Kemp	32 33	6 7	27 21
8	Cleland Stock Petrography Cleland and Dill Tps., Sudbury Dist.	GR116		71
8	Cleland Tp., Sudbury Dist. Feldspar/mica Geology of the Burwash area	GR116 GR116		133-134
8	Pelto, Oscar Cleland Tp., Sudbury Dist. mining property, report on	GR116		134
8	Weisman Feldspar Co. Cleland Tp., Sudbury Dist. mining property, report on	GR116		133-134

		SELECTED REFERENCES		Map Scales and/or Report
Author	Date	Title	Reference	Pages
Brocoum, S.J. and Dalziel, I.W.	1974	The Sudbury Basin, the Southern Province, the Grenville Front and the Penokean Orogeny	GSA Bull.85(4)	pp.1571- 1580
Card, K.D. and Lumbers, S.B.	1974- 75	Sudbury-Cobalt Geological Compilation (revised)	OGS Map 2361	l"≈4 mi.
Dressler, B.O.	1983	Sudbury Mining Area, Eastern Part	OGS Map P.2603	1:50,000
Gupta, V.K.	1981	Bouguer Gravity and Generalized Geological Map, Sudbury-Onaping Lake Area	OGS Map P.2482	1:100,000
Henderson, J.R.	1967	Structural and Petrographic Relations Across the Grenville Province-Southern Province Boundary, Sudbury, Ontario. Ph.D., McMaster University	Sudbury Theses File	
Hewitt, D.F.	1952	Feldspar in Ontario	IMC 3	p.13
Latour, T.E.	1981	Metamorphism and Geothermometry near Coniston: a Clue to the Tectonic Evolu- tion of the Grenville Front	CJES Vol.18	pp.884-898
Lumbers, S.B.	1975	Burwash Area	ODM Map 2271	1"=2 mi.
	1967	Burwash Sheet	ODM Map P.415	1"=2 mi.
	1975	Geology of the Burwash Area	GR116	
ODM-GSC	1965	Aeromagnetic Map-Coniston	Map 1510G	1"=1 mi.
	1965	Aeromagnetic Map-Sudbury Sheet	Map 7067G	1"=4 mi.
Springer, J.	1978	Ontario Mineral Potential, Southern Part of the Sudbury Sheet	OGS Map P.1511	1:250,000

Author	Date	SELECTED REFERENCES	Reference	Map Scales and/or Report Pages
Thomson, J.E.	1960	Uranium and Thorium Deposits at the Base of the Huronian System in the District of Sudbury	GR1	
Vos, M.A., Smith, B.A., Stevenato, R.	1981 J.	Industrial Minerals of the Sudbury Area	OFR 5329	
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Note No.	NOTES
N-1	Weisman Feldspar  During 1922-24, 20 cars of feldspar were shipped from the Weisman Feldspar Property.  (ref. GR116, p.134)
N-2	Elbow CreekPelto, Oscar In 1928, one carload of feldspar was shipped from this property by an unknown party. Oscar Pelto reworked the deposit in 1935-36 and 4 carloads of feldspar and mica were shipped from the deposit.
N-3	Wanup North A pegmatite dike has been exposed on the side of a rocky ridge and has been explored by a shallow pit
N-4	Cleland Township Occurrence According to D.H. Cross (property owner), 2 shafts were put down on this deposit in 1922 (95' & 35'). The exploration shafts were sunk to search for sulphide mineralization by an unknown party.

		ADDENDA		
				,
	¥			

# MAP LEGENDS

	<del></del>
A. FILES INDEX MAP	GEOPHYSICAL ANOMALIES
FILE AREAS See pages 4-1,2 of text	Airborne Surveys: See pages 6-1,2 of text
Reference number is always inside work area outlined.	☐ ☐ AM — Airborne magnetic anomaly
See listing in text pages.	Airborne electromagnetic anomaly Length of anomaly along flight line
□ x ④ Small area of exploration data	Airborne electromagnetic anomaly
File covers whole township or area	Location of anomaly along flight line  Airborne electromagnetic anomaly
	Conductor axis: definite, probable, possible
	Airborne electromagnetic anomaly Conductor axis: Location of flight lines uncertain
B. EXPLORATION DATA MAP	□ □ ARA Airborne radiometric anomaly
MINERAL OCCURRENCES: See pages 3-1,2 of text	Ground Surveys
■ CP ▲ Mineral occurrence at surface, with reference letter	Ground magnetic anomaly
Mineral occurrence with shaft, depth given with reference letter	Ground electromagnetic anomaly (VL - Vertical loop; HL - Horizontal loop
Mineral occurrence reported but exact location uncertain, with reference letter	VLF · Very low freq.; Turam; JEM · Crone Em · 16 )
	Ground radiometric anomaly
Mineralized float with reference letter  CP A Mineral occurrence encountered in drilling, with reference	Induced polarization anomaly
letter	Self potential anomaly
	Audio-frequency magnetic anomaly (total intensity)
DRILLHOLES: See pages 5-1,2 of text	Resistivity anomaly
☐	Gravity anomaly
Location of group of closely spaced drillholes, with reference number	
Drillhole, exact location uncertain, with reference number	
Property with underground drillholes in this general area, with reference number	GEOCHRONOLOGICAL DATA: See page 8 of tex
Property with drillholes which have not been plotted on map, with reference number	Age dating material sampling site, with reference number
Reverse circulation drillhole; churn drilling, with reference number	
	MISCELLANEOUS DATA
GEOCHEMICAL: See pages 7-1,2of text	■ O □ Trenching, pit □ 😾 Rock quarry
Geochemical sample site, with reference number	☐ ☐ Adit ☐ ☐ Open pit
Area of geochemical sampling, with reference number	□ Sand and/or □ □

## **CONVERSION FACTORS**

Conversion from SI to Imperial			Conversion from Imperial to SI		
SI Unit	Multiplied by	Gives	Imperial Unit Multiplied by	Gives	
LENGTH					
1 mm	0.039 37	inches	1 inch 25.4	mm	
1 cm	0.393 70	inches	1 inch 2.54	cm	
1 m	3.280 84	feet	1 foot 0.304 8	m	
1 m	0.049 709 7	chains	1 chain 20.116 8	m	
1 km	0.621 371	miles (statute)	1 mile (statute) 1.609 344	km	
AREA					
1 cm <sup>2</sup>	·0.155 0	square inches	1 square inch 6.451 6	cm <sup>2</sup>	
1 m <sup>2</sup>	10.763 9	square feet	1 square foot 0.092 903 04		
1 km²	0.386.10	square miles	1 square mile 2.589 988	km²	
1 ha	2.471 054	acres	1 acre 0.404 685 6	ha	
VOLUME					
13	0.061.02				
1 cm <sup>3</sup>	0.061 02 35.314 7	cubic inches	1 cubic inch 16.387 064	cm <sup>3</sup>	
1 m <sup>3</sup>	1.308 0	cubic feet	1 cubic foot 0.028 316 85	m <sup>3</sup>	
I III	1.308 0	cubic yards	1 cubic yard 0.764 555	m <sup>3</sup>	
CAPACITY					
1 L	1.759 755	pints	1 pint 0.568 261	L	
1 L	0.879 877	quarts	1 quart 1.136 522	L	
1 L	0.219 969	gallons	1 gallon 4.546 090	L	
MASS					
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp) 28.349 523	g	
1 g	0.032 150 75	ounces (tray)	1 ounce (troy) 31.103 476 8	g	
1 kg	2.204 62	pounds (avdp)	1 pound (avdp) 0.453 592 37	kg	
1 kg	0.001 102 3	tons (short)	1 ton (short) 907.184 74	kg	
1 t	1.102 311	tons (short)	1 ton (short) 0.907 184 74	t	
1 kg	0.000 984 21	tons (long)	1 ton (long) 1016.046 908 8	kg	
1 t	0.984 206 5	tons (long)	1 ton (long) 1.016 046 908		
CONCENTRATION					
1 g/t	0.029 166 6	ounce (troy)/	1 ounce (troy)/ .34.285 714 2	g/t	
	0.027 100 0	ton (short)	ton (short)	8,,	
1 g/t	0.583 333 33	pennyweights/	1 pennyweight/ 1.714 285 7	g/t	
- 6		ton (short)	ton (short)	B. 1	
Constitution of American Constitution (Constitution Constitution Const					
OTHER USEFUL CONVERSION FACTORS					
1 ounce (troy) per ton (short) 20.0 pennyweights per ton (short)					
1 pennyweight per ton (short) 0.05 ounces (troy) per ton (short)					

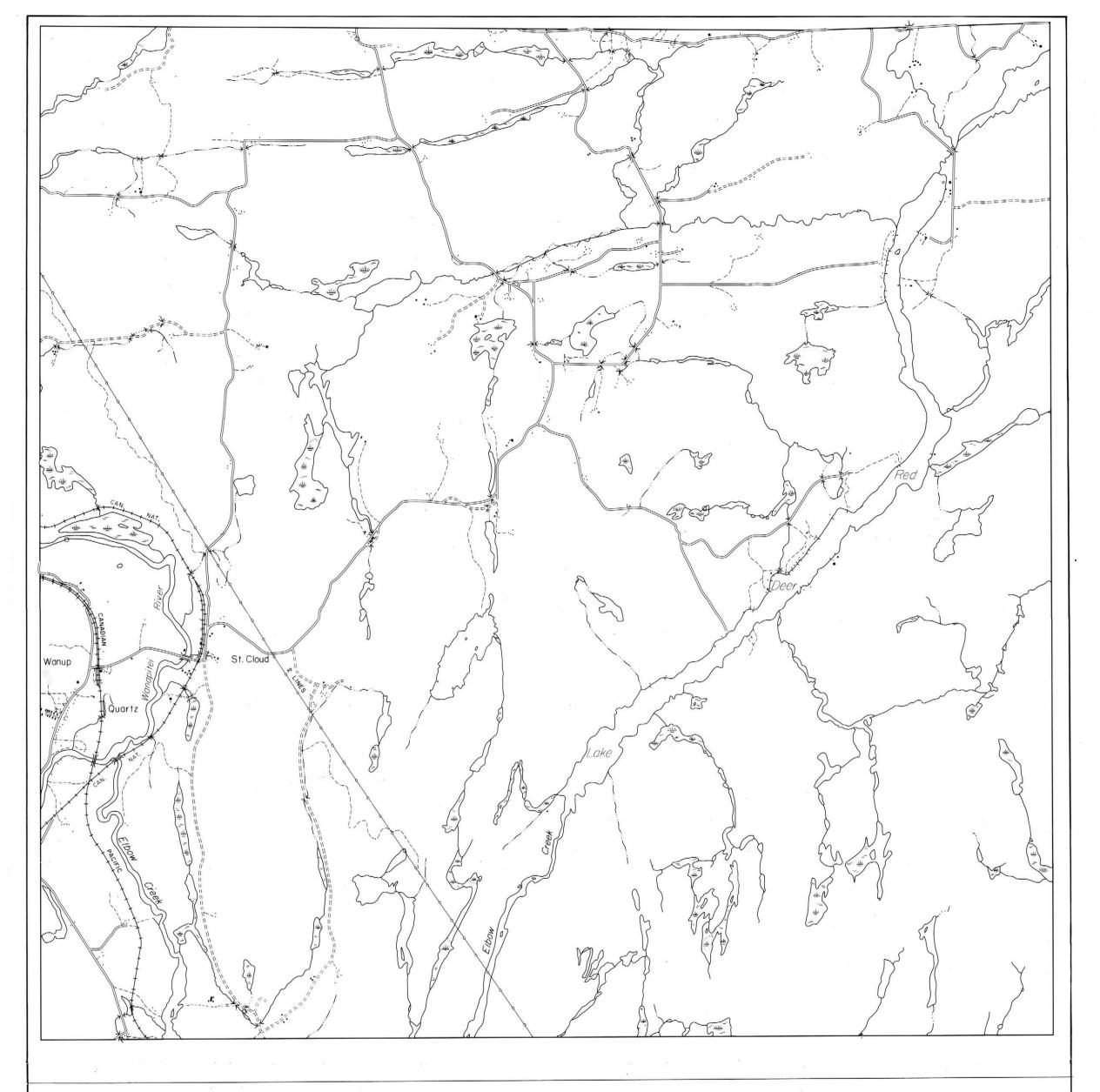
One gram(g) per tonne is equivalent to one part per million (1 ppm).

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in cooperation with the Coal Association of Canada.

#### For further information please contact:

Resident Geologist's Office Ministry of Northern Development and Mines 200 Brady Street 6th Floor Sudbury, ON P3A 5W2

(705) 675-4441





Ministry of Northern Development and Mines Mines and Minerals Division

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

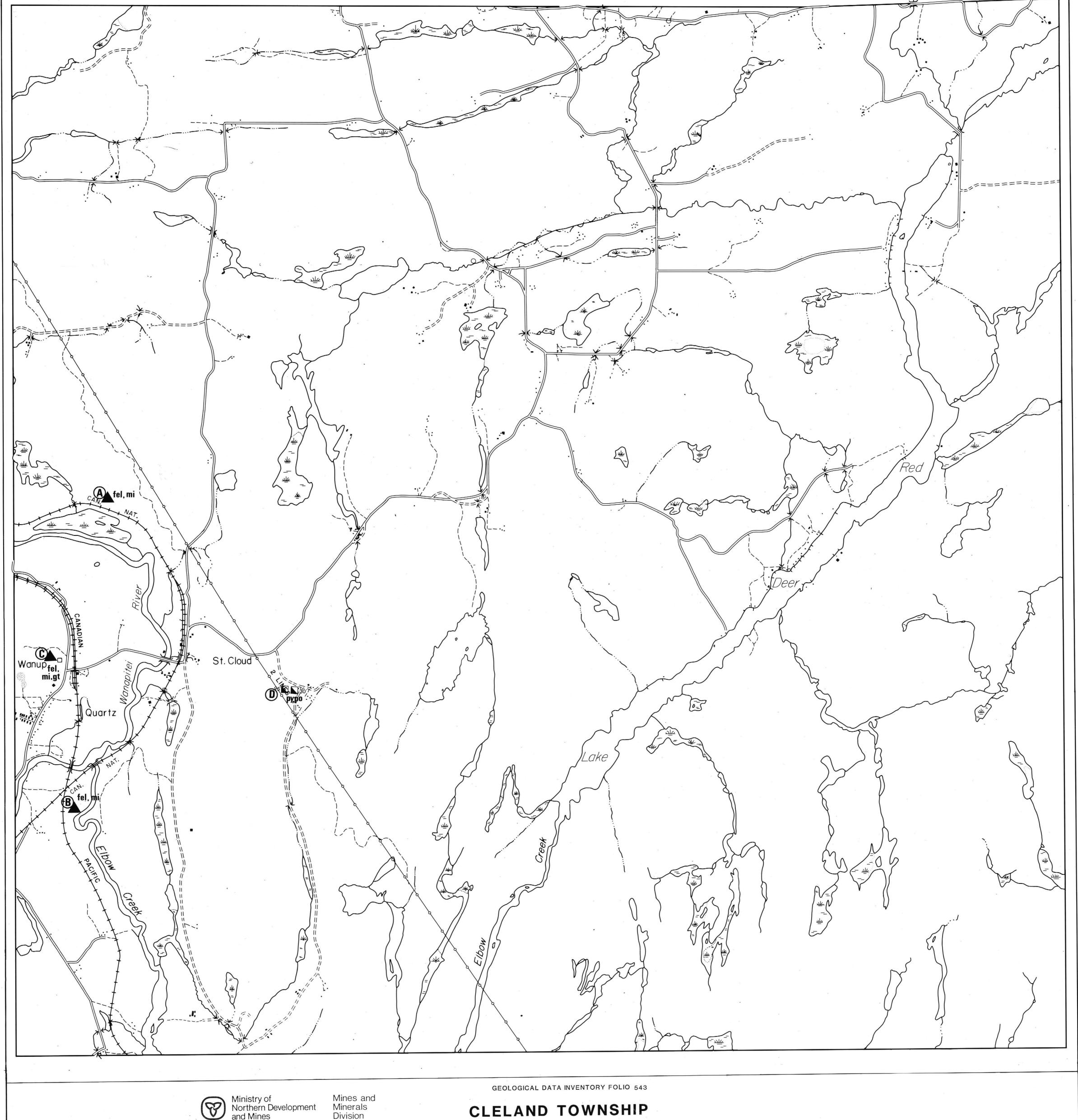
Mile 0.5 0 0.5 1 Mile

GEOLOGICAL DATA INVENTORY FOLIO 543

## CLELAND TOWNSHIP

A. FILES INDEX MAP (Map A-1)

SEE MAP LEGENDS ON BACK COVER OF ACCOMPANYING TEXT



Ministry of Northern Development and Mines

Scale 1:15 840

Mines and Minerals Division

B. EXPLORATION DATA MAP (Map B-1)

SEE MAP LEGENDS ON BACK COVER OF ACCOMPANYING TEXT