

32004SE0101 2.2446 MCFADDEN

010

Report on Magnetometer and VLF-EM Surveys, Hearst and McFadden Townships, Ontario RECEIVED

JUL 1 1 1977

Introduction

MINING LANDS SECTION

Linecutting, followed by Magnetometer and VLF-EM surveys were carried out across the lake and islands of Larder Lake in Hearst and McFadden townships. The surveys on the lake were carried out on the ice in late March and early April 1976 and on the islands during May 1976. The surveys were tied together by common base stations. The results are shown on the plans in the back pocket.

Location, Access and Ownership

The property is located on the common boundary between Hearst and McFadden townships near the 4 mile post. The claims are numbered L 396 187 to 396 197 inclusive, L 396 205 to 396 210 inclusive, L 407 268 and L 447 160 to 447 165 inclusive and are recorded in the name of Colex Explorations Inc.

Access is by way of Larder Lake from the town of Larder Lake approximately 6 miles west.

Previous Exploration

Previous work on Island 'CC' consisted of 4 diamond drill holes put down in 1946. Core logs are on file in the Privincial Geologist's office in Kirkland Lake. The core itself has been destroyed.

On Big Pete Island a number of pits have been found which were put down at an unknown date.

Geology

The two main islands are underlain by volcanic rocks. Island 'CC' is composed of rather spectacular agglomerates. The clasts are up to 2-3 feet in diameter and composed of rocks ranging from quartz porphyry to ultramafic. They are cut by feldspar porphyry and lamprophyre dykes. A large outcrop of feldspar porphyry in the centre of the island may be a plug.

Big Pete Island is largely underlain by andesite with some narrow bands of felsic tuffs. On the south west part of the island there is an ultramafic outcrop which may be intrusive.

Survey Procedure

Base lines were cut along the centre of the two main islands at approximately N 30° E. Cross lines were run at 400 foot intervals normal to the base lines. A tie line was also run on the ice between the two islands. All the lines were chained and picketed at 100 foot intervals.

Magnetometer readings were taken with a Sharpe MF-1 fluxgate magnetometer at 50 foot intervals. The looping method was used for control of diurinal variation. In this method a base station is selected and readings taken along lines describing a loop, arriving back at the starting base station in less than two hours. A second loop is then started using either the same base station or another which is tied to the previous loop. Readings are then corrected for diurinal variation by assuming the time between readings is the same and distributing any variation equally among the intervening readings. No correction was applied less than the accuracy of the base station reading.

A VLF-EM survey was carried out using a Crone Radem instrument set to the signal from Annapolis Maryland (21.4 KH₂). Readings were taken at 100 foot intervals using the procedure outlined in Appendix I. The looping method was used for control of variation, the same as described for the magnetometer survey excepting that the time was noted for each station.

Results and Conclusions

Magnetometer

The magnetics are relatively flat with only a few local magnetic highs. These are probably due to narrow bands of iron formation in the valcanics.

VLF-EM

There are a number of strong cross-overs on Big Pete Island without magnetic correlation. These may warrant ground checking.

The most interesting is a cross-over in the lake west of Big Pete island at 8+00 and 9+00NW on Line Z4SW. It appears to coincide with a 900 gamma magnetic anomaly.

Respectfully submitted

June 29, 1977

R. A. MacGregor, P. Eng.



32004SE0101 2.2446 MCFADDEN

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Report on Geochemical and VLF-EM Survey Hearst and McFadden Townships, Ontario

AUG 1 5 1977

Introduction

MINING LANDS SECTION

Linecutting, soil sampling and VLF-EM surveys were carried out on two islands in Larder Lake and adjacent lake area in the spring of 1977. Soil samples were analysed for copper, nickel and zinc.

Location, Access and Ownership

The property is located in Hearst and McFadden townships near the 4 mile post, Larder Lake Mining Division, District of Temiskaming Ontario. The claims covered are numbered L 396 187 to L 396 188; L 396 190; L 396 192; L 396 194 to L 396 195; L 396 207 to L 396 210; L 407 268 and L 447 163 to L 447 164 inclusive and are recorded in the name of Colex Explorations Inc.

Access is by way of Larder Lake from the town of Larder Lake approximately six (6) miles west.

Previous Exploration

Previous work on Island 'CC' consisted of 4 diamond drill holes put down in 1946. Core logs are on file in the Provincial Geologist's office in Kirkland Lake. The core itself has been destroyed.

On Big Pete Island a number of pits have been found.

Geology

The two main islands are underlain by volcanic rocks. Island 'CC' is composed of rather spectacular agglomerates. The clasts are up to 2-3 feet in diameter and composed of rocks ranging from quartz porphyry to ultramafic. They are cut by feldspar porphyry and lamprophyre dykes. A large outcrop of feldspar porphyry in the centre of the island may be a plug.

Big Pete island is largely underlain by andesite with some narrow bands of felsic tuffs. On the south west part of the island there is an ultramafic outcrop which may be intrusive.

Survey Procedure

Base lines were cut along the centre of the two main islands at approximately N 30° F. Cross lines were run at 400 foot intervals normal to the base lines. A tie line was also run on the ice between the two islands. All the lines were chained and picketed at 100 foot intervals.

A VLF-EM survey was carried out using a Crone Radem instrument set to the signal from Cutler Maine (17.8 KH₂). Readings were taken at 100 foot intervals using the procedure outlined in Appendix I.

Sampling Procedure

Samples were taken from the 'B' horizon at 100 foot intervals along lines cut at a spacing of 400 feet. The samples were obtained by an auger at depths which are marked on the soil survey plan. Samples were placed in plastic bags and numbered in the field. They were then shipped to a laboratory. The samples were dried, screened to -80 mesh, decomposed by hot agua regia and analysed for copper, nickel and zinc by atomic absorption at Assayers Limited, Rouyn, Quebec.

Results

The results of analysis in p.p.m are shown on the enclosed maps. In selecting threshold values the results of a geochemical survey by the Ministry of Natural Resources in Haliday and Midlothian townships was used as a guide for samples analysed by atomic absorption. This survey covers an area with very similar if not identical geology.

Copper

Weakly anomalous values seem more numerous than would be expected from the M.N.R. survey. One high value of 375 p.p.m. at 1 + 00 S.E. on line 16 S.W. on Big Pete Island is near an old pit.

Nickel

Nickel values are uniformly low on Big Pete Island. On Island 'CC' there are a number of anomalous values which reflect the presence of ultramafic flows.

Zinc

Zinc values are uniformly higher than might be expected from the M.N.R. survey on both islands. One particu-

Tarly high value of 1677 p.p.m. at 9 + 00 N.W. on Line 8 S.W. on Big Pete Island is near an outcrop showing sulphides.

VLF-EM

The cross-overs found using the Cutler station on Big Pete Island essentially confirm those also found using the Annapolis station. These should be followed up by a more discriminating EM method and by surface prospecting.

Conclusions

The soil over the mafic volcanic rocks of Big Pete Island seems anomalously high in copper and zinc. A number of cross-overs are shown by VLF methods and sulphide showings are known. Further prospecting is indicated.

August 9, 1977

Respectfully submitted

R. A. MacGregor



OFFICE USE ONLY

Ministry of Natural Resources

GEOPHYSICAL — GEOLOGICAL — GEOCHEMICAL TECHNICAL DATA CTATEMENT

TO BE ATTACHED AS AN APPENDIFACTS SHOWN HERE NEED NOT ITECHNICAL REPORT MUST CONTAIN INTE



32D04SE0101 2.2446 MCFADDEN

900

			•			300
Type of Su	rvey(s) Mag	netomete	r and VLF-EM			
Township of	or Area Hea	rst and	McFadden		MINING CLAIM	IS TRAVERSED
Claim Hold	er(s)_Cole	x Exploi	rations, Inc.		List numerically	
	134	Palace I	rive, Sault Ste	. Marie		
Survey Con	npany_ sa m	e		···		
Author of l	Report R	A. MacG	regor		(prefix)	(number)
Address of	Author603	Queen 8	Street East, Sa	ilt Ste.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Covering D	ates of Surv	ey_ 03/23 /	/76 = 06/29/76 (linecutting to office)	Marie		
	of Line Cut		, ,			
	or Bille du					
SPECIAL	. PROVISIO	NS		DAYS		
	S REQUEST		Geophysical	per claim	seeattacheds	haet
			Electromagnetic.	_20		
1	40 days (inc	ludes	-Magnetometer_			
survey.	ng) for first		-Radiometric			
<u>'</u>	20 days for o	each	-Other			
	ıl survey usin		Geological	· 1		
same grid	•		Geochemical			
AIRRORNI	E CREDITS	(Special provi	sion credits do not apply to air	horae eurosess)		,
			netic Radiome	•		
Magnetome	1	(enter d	lays per claim)	11		
DATE:	In. e 29/	77 SIGNA	ATURE: 1 Mar	Luga		
DATE.	/	ZZ SIGIT	Author of Rep	ort or Agent		•••••
1/						
			2.110	2		
Res. Geol		Qualii	fications 2 11 0		İ	
Previous Su File No.	rveys Type	Date	Claim Holde	r	***************************************	
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			• • • • • • • • • • • • • • • • • • • •		TOTAL CLAIMS	24

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS -- If more than one survey, specify data for each type of survey

Number of Stations!!	ag - 833 VLF - 782	Number of	Readings Mag	- 833	VLF -
	feet				
	= 40°	-	-		
ontour interval 50	0 gammas				
Instrument Shar	pe MF-1				
Accuracy - Scale co	onstant 5 gammas on 10	west scale			
Diurnal correction i	method Corrected in ti	me along a loo	from base	station	<u>, </u>
	in interval (hours) 2 hours				
Base Station location	n and value	base line			
Instrument	Crone Radem				·
	Not applicable				· · · · · · · · · · · · · · · · · · ·
Coil separation	Not applicable				
Accuracy T 10					
Method:	Fixed transmitter	☐ Shoot back	☐ In line	□ Pa	rallel line
Frequency_Annap	olis, Maryland 21.4	KH2	,		
Parameters measure	d Pip Angle of the r				
Corrections made					
	nd location				
Instrument					
Method Time	Domain	☐ Fre	equency Domain		
Parameters – On tin	me	Fre	equency		·
– Off ti	me	Ra	nge		
•	time				
9	ation time				
•					
•					· · · · · · · · · · · · · · · · · · ·
Type of electrode _					

INDUCED POLARIZATIO

MINING CLAIMS TRAVERSED

Days/Claim

Claim	Magnetometer	VLF-EM
L 396 187	20	20
L 396 188	20	20
L 396 189	20	20
L 396 190	20	20
L 396 191	20	20
L 396 192	20	20
L 396 193	20	20
L 396 194	20	20
L 396 195	20	20
L 396 196.	20	20
L 396 197/	20	20
L 396 205	40	20
L 396 206	40	20
L 396 207	20	20
L 396 208	20	20
L 396 209	20	. 20
L 396 210,	20	20
L 407 268	20	20
L 447 160	40	20
L 447 161	40	20
L 447 162	40	20
L 447 163	20	20
L 447 164	20	20
L 447 165	40	20

OFFICE USE ONLY

RECEIVED

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

AUG 1 5 1977
PROJECTS UNIT.

Type of Survey Geochemical	, VLF-EM	•
Township or Area Hearst & Hearst		
Claim holder(s). Colex Explo		MINING CLAIMS TRAVERSED List numerically
Author of Report R. MacGrego	or	1/2/ (number) 1/2/ 1/2/ 1/2/
	e, Sault Ste. Marie, Ontario	(number)
Covering Dates of Survey_03/23,	/77 - 08/9/77	L 396 188 17/
Total Miles of Line cut 4.8	(linecutting to office)	L.396.190
SPECIAL PROVISIONS CREDITS REQUESTED	DAYS Geophysical	L-396-192-
ENTER 40 days (includes line cutting) for first	Electromagnetic 20Magnetometer 20	L 396 207 L 396 208 T 396 209
ENTER 20 days for each	-Radiometric	L 396 208
additional survey using same grid.	Geological Geochemical 40	T. 396 · 210 ✓
AIRBORNE CREDITS (Special pro-	vision credits do not apply to airborne surveys)	L-407-268
	gnetic Radiometric days per claim)	L.447.163
DATE:SIGN	ATURE:Author of Report or Agent	L.447.164
PROJECTS SECTION L.D		
Res. Geol.	Qualifications	
Previous Surveys		
Checked by	date	<u>l</u>
. GEOLOGICAL BRANCH		-
Approved by	date	
GEOLOGICAL BRANCH		
Annroyed by	1	TOTAL CLAIMS 13.

Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS		
Number of Stations95	Number of Readings_	97
Station intervalStation interval		
Line spacing 400 feet		
Profile scale or Contour intervals 1"-40° (specify for each typ	e of survey)	
<u>MAGNETIC</u>		
Instrument		
Accuracy - Scale constant		
Diurnal correction method	***************************************	
Base station location		
<u>ELECTROMAGNETIC</u>		West who we will be a second of the second o
Instrument Crone Radem		
Coil configuration Not applicable		
Coil separation Not applicable		
Accuracy + 1/2 °		
Method: ☐ Fixed transmitter ☐ S	shoot back	☐ Parallel line
Frequency Cutler Main 17.8 KH ₂	'.L.F. station)	
Parameters measured <u>Dip angle of the resultant</u>	,	
GRAVITY		
Instrument		
Scale constant		The second secon
Corrections made		
Base station value and location	- M-III III III III III III- I	
Elevation accuracy		
INDUCED POLARIZATION - RESISTIVITY		
Instrument		
Time domain	Frequency domain	
Frequency	Range	
Power		
Electrode array		
Electrode spacing		
Type of electrode		



GEOCHEMICAL SURVEY - PROCEDURE RECORD



Numbers of claims from which samples taken13	
Total Number of Samples 189	ANALYTICAL METHODS
Type of Sample Soil (Nature of Material) Average Sample Weight 1/2 1b Method of Collection Auger	Values expressed in: per cent p. p. m. x p. p. b.
	Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)
Soil Horizon Sampled 'B'	Others
Horizon Development Fair to Poor	Field Analysis (tests)
Sample Depth 10"-20"	Extraction Method
Terrain. Steep and Rocky	Analytical Method Reagents Used
Drainage Development. poor - islands	Field Laboratory Analysis
Estimated Range of Overburden Thickness 0 - 3'	No. (tests)
	Extraction Method
	Analytical Method
	Reagents Used
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing)	Commercial Laboratory (tests) Name of Laboratory Assayers Limited
Mesh size of fraction used for analysis	Extraction Method hot aqua regia
	Analytical Method atomic absorption
	Reagents Used
General	General

2.2446

1983 12 07

Our File: 2.2446

Mining Recorder
Ministry of Natural Resources
4 Government Road East
P.O. Box 984
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

RE:

Geophysical (Electromagnetic) Survey on Mining Claims L 396207 et al in the Hearst and McFadden Townships.

The Geophysical (Electromagnetic) Survey assessment work credits as listed with my Notice of Intent dated November 15, 1983 have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1380

R. Pichette:sc

cc: Colex Explorations Inc Sault Ste. Marie, Ontario

cc: Resident Geologist
Kirkland Lake, Ontario

cc: Mr. G.H. Ferguson
Hining & Lands Commissioner
Toronto, Ontario



Technical Assessment Work Credits

	File
	2.2446
Date	Mining Recorder's Report of Work No.

•	
Recorde	d Holder

Township or Area HEARST AND MC FADDEN	
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic 13 days	L 396207 to 210 inclusive 447163-64
Magnetometer days	
Radiometric days	
Induced polarization days	
Other days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological days	
Geochemical days	
Man days ☐ Airborne ☐	
Special provision 🖾 Ground 🖾	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
Special credits under section 77 (16) for the following m	ining claims
No credits have been allowed for the following mining cla	aims
not sufficiently covered by the survey	Insufficient technical data filed
•	
i	

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77 (19)—60:

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nov. 30/83

Your file:

Our file: 2.2446

1983 11 15

Mr. George J. Koleszar Mining Recorder Ministry of Natural Resources 4 Government Road East P.O. Box 984 Kirkland Lake, Ontario P2N 1A2

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson

Director

Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3

Phone: 416/965-1316

R. Pichette:mc

Encls:

cc: Colex Explorations, Inc 134 Palace Drive Sault Ste. Marie, Ontario P6B 5H5

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario



Notice of Intent for Technical Reports

1983 11 15

2.2446

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



Ministry of Natural Resources

Notification of recording

of assessment work credits

Recording Office
4 Gov't Road East
Kirkland Lake, Ontario
P2N 1A2
Lands Administration Branch
Mining Lands Section
Ministry of Natural Resources
Room 1617, Whitney Block
Queen's Park, Toronto
M7A 1W3

Administration Branch with this letter.

Date of recording of work:	September 15, 1	977
Recorded holder:	Colex Explorati	ons, Inc.
	134 Palace Driv	
Address:	Sault Ste. Mari	e, Ontario
Township or Area:	Hearst & McFadd	en
Type of survey a Assessment days o		Mining claims
Geophysical		20 days each:
Electromagnetic as	listeddays	L-396207 to 396210 inclusive, L-447163 & 447164.
Magnetometer	days	40 days each:
Radiometric	days	L-396187 and 407268.
Induced polarization	days	
Section 86 (18)	days	
Geological	days	
Geochemical	days	
Man days 🗖	Airborne 🗀	
Special provision	Ground 🗌	
Notice to recorded holder	r:	
	ion Branch, Toronto with-	. Mining recorder
in 60 days from the date	of recording of this work.	c.c. Colex Explorations, Inc. Attention Robert A MacGrego
Reports and maps are bei	ing forwarded to the Lands	

2.2446

R. A. MACGREGOR, P.ENG.

MINING ENGINEER
134 PALACE DRIVE
SAULT STE. MARIE, ONTARIO

TEL. (705) 949-4250

February 23, 1983

RECEIVED
Land Management Branch
CIRCULATE
COMMENTS PLEASE
BY

MAR - 1 1983

E. F. ANDERSON

J. R. MORTON

J. C. SMITH

G. SHERMAN

J. M. SMALL

RETURN TO R. 6450

Projects Branch
MINISTRY OF NATURAL RESOURCES
Rm. 1617, Mining Lands Section
Whitney Block
Queen's Park
TORONTO, Ontario

Dear Sirs:

Re: Mining Claims L396209 and L396210 McFadden Township

My records show that on September 15, 1977 20 days EM work was recorded on these two claims. The report was submitted to you prior to this in August of 1977 and I received notice you received same dated August 17, 1977 - file No. 2.2446. I also have a notice you received some prior reports on July 13, 1977 with the same file No. 2.2446. To date I have received nothing further, either as to approval, reduction or cancellation of this work. Perhaps the two reports became confused with the same file number.

Would you please check your records and advise, as I will shortly require a certificate of work for these claims.

Yours very truly

R.A. MacGregor, P. Eng.

RAM/jh

c.c. Mining Recorder Kirkland Lake, Ontario mining Recorder was called on Man 104h/83 will send copies of approval letter to him.

- according to record sheets of

R.A. Machingon - claims

L 396207 to 210 a 447163-64

were not approved for the

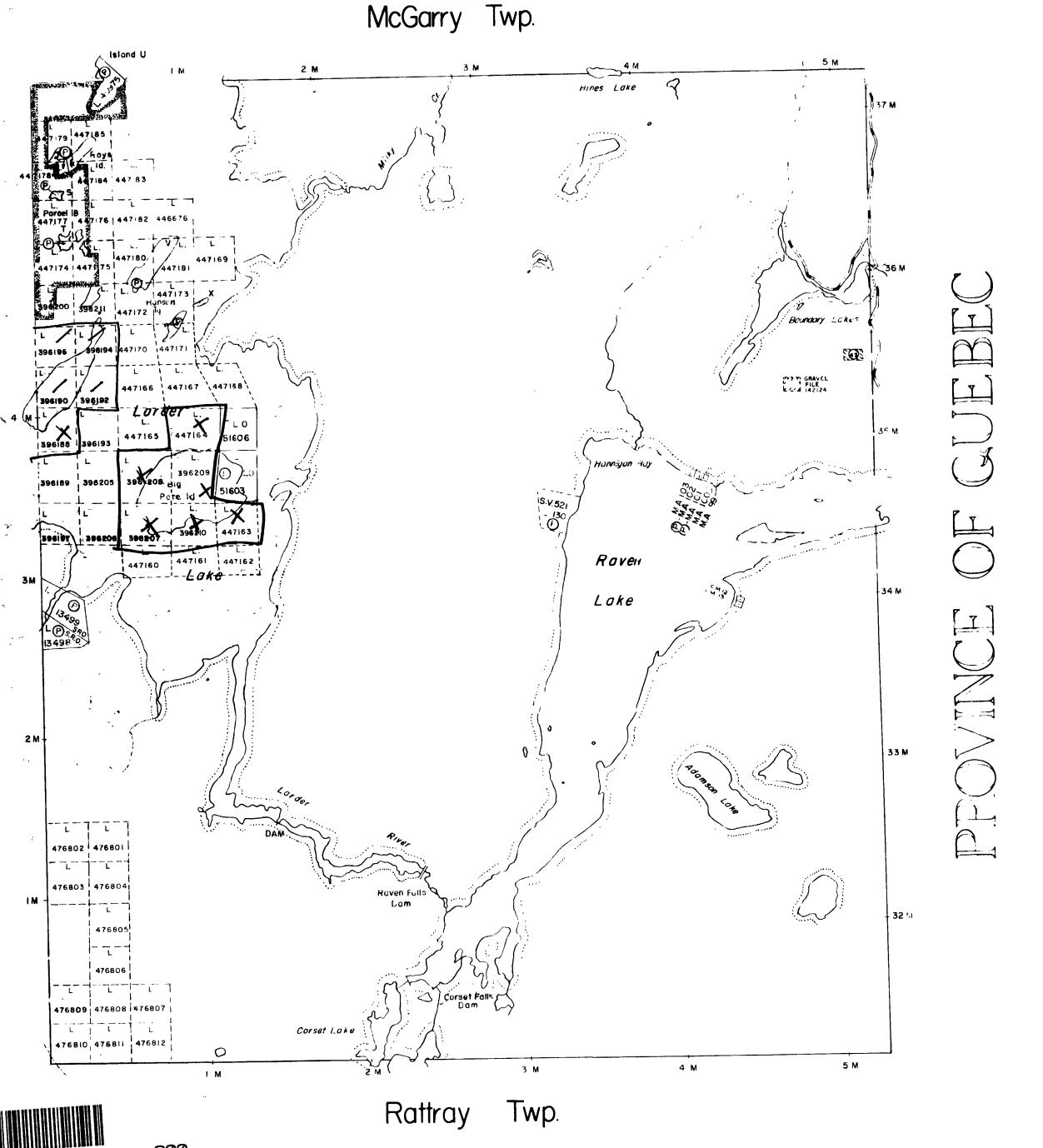
Cutter, Maine survey

(He rest have been approved

Ray.

Revun to AFRO- once approval has been sent out

Em 396207 1/2 V 208 209 1/2 447163 3.28 13 6×20 5.25



THE TOWNSHIP

OF 2.2446*

McFADDEN

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE:1-INCH=40 CHAINS

<u>LEGEND</u>

PATENTED LAND	P
CROWN LAND SALE	C. S .
LEASES	(
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.Q.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	(* * *)
AMMER	
MINES	X .

NOTES

400 Surface rights reservation around all lakes and rivers.

L.O. 12010 shown thus:

Areas withdrawn from
43 of the Mining Act (
Order No. File Day
43 w52/74 142124 15/

DATE OF ISSUE

AUG 1 0 1977

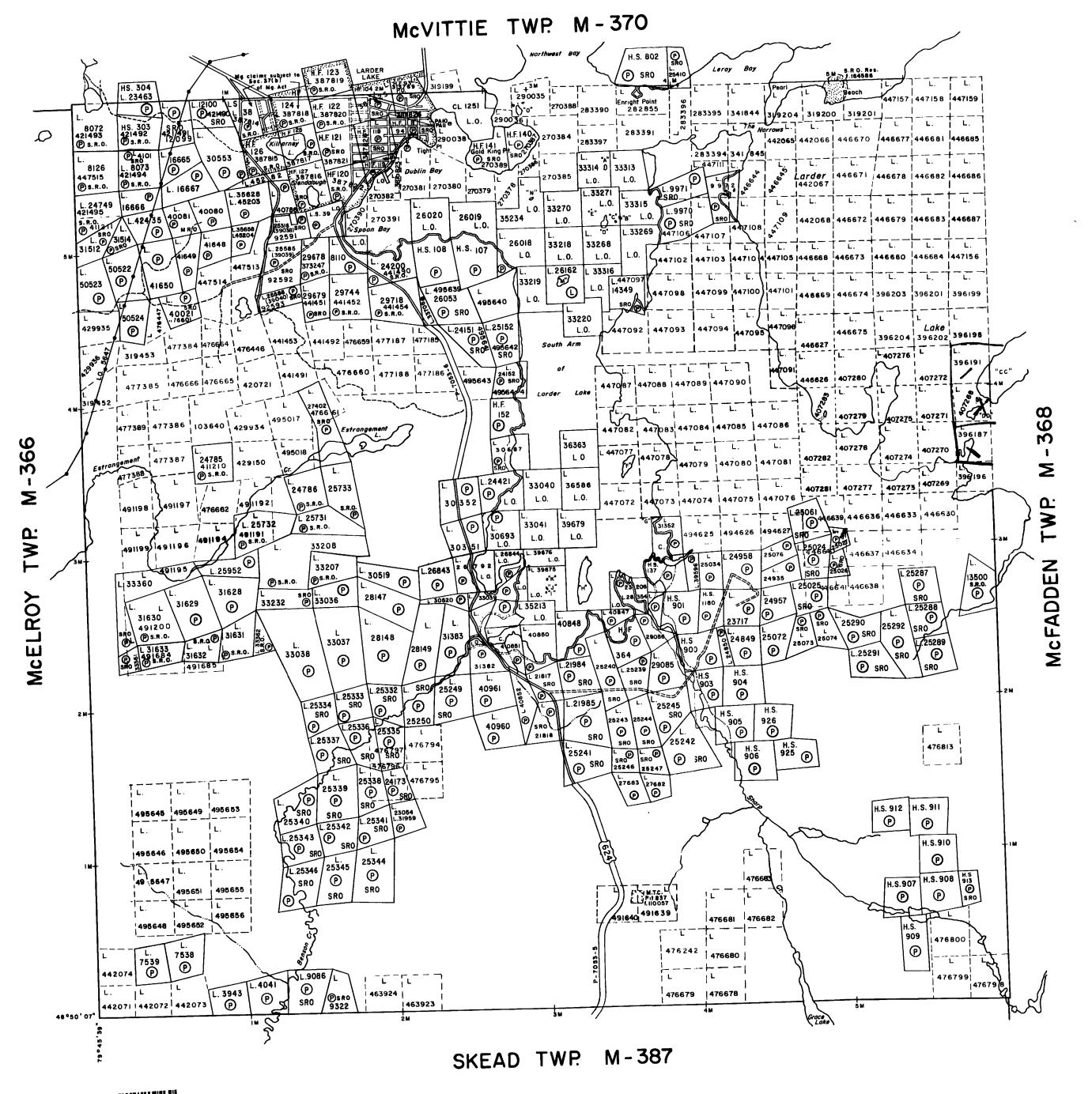
SURVEYS AND MAPPING

PLAN NO.-**M.368**

MINISTRY OF NATHRA HIS DURCES

KVI J

200



THE TOWNSHIP

0F

2.2446*

HEARST

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH - 40 CHAINS

LEGEND

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

NOTES

400' Surface Rights reservation along the shores of all lakes and rivers.

Township of Hearst lies entirely within the CORPORATION of the TOWNSHIP of LARDER LAKE.

Staking of mining claims within the Town of Larder Lake shown thus <u>reserved by</u> subject to Sec 37(b) of the Mining Act (R.S.O. 1970).

1 georhen EM

DATE OF ISSUE

AUG 1 6 1977

SURVEYS AND MAPPING

BRANCH

PLAN NO. M - 354

ONTARIO

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

McGarry Twp. E C FILE L CA 142124 Roven Lake 33 M 476802 476801 476803 476804 476805 **4768**06 Corset Falls 4768IO 4768II 4768I2 Corset Lake Twp. Rattray

THE TOWNSHIP OF2.2446

McFADDEN

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH=40 CHAIN

LEGEND

PATENTED LAND CROWN LAND SALE LEASES LOCATED LAND LICENSE OF OCCUPATION MINING RIGHTS ONLY SURFACE RIGHTS ONLY **ROADS** IMPROVED ROADS KING'S HIGHWAYS RAIL WAYS POWER LINES MARSH OR MUSKEG MINES CANCELLED

NOTES

E P

400 Surface rights reservation around all lakes and

L.O. 12010 shown thus:

Areas withdrawn from 43 of the Mining Act (Orger No File

DATE OF ISSUE

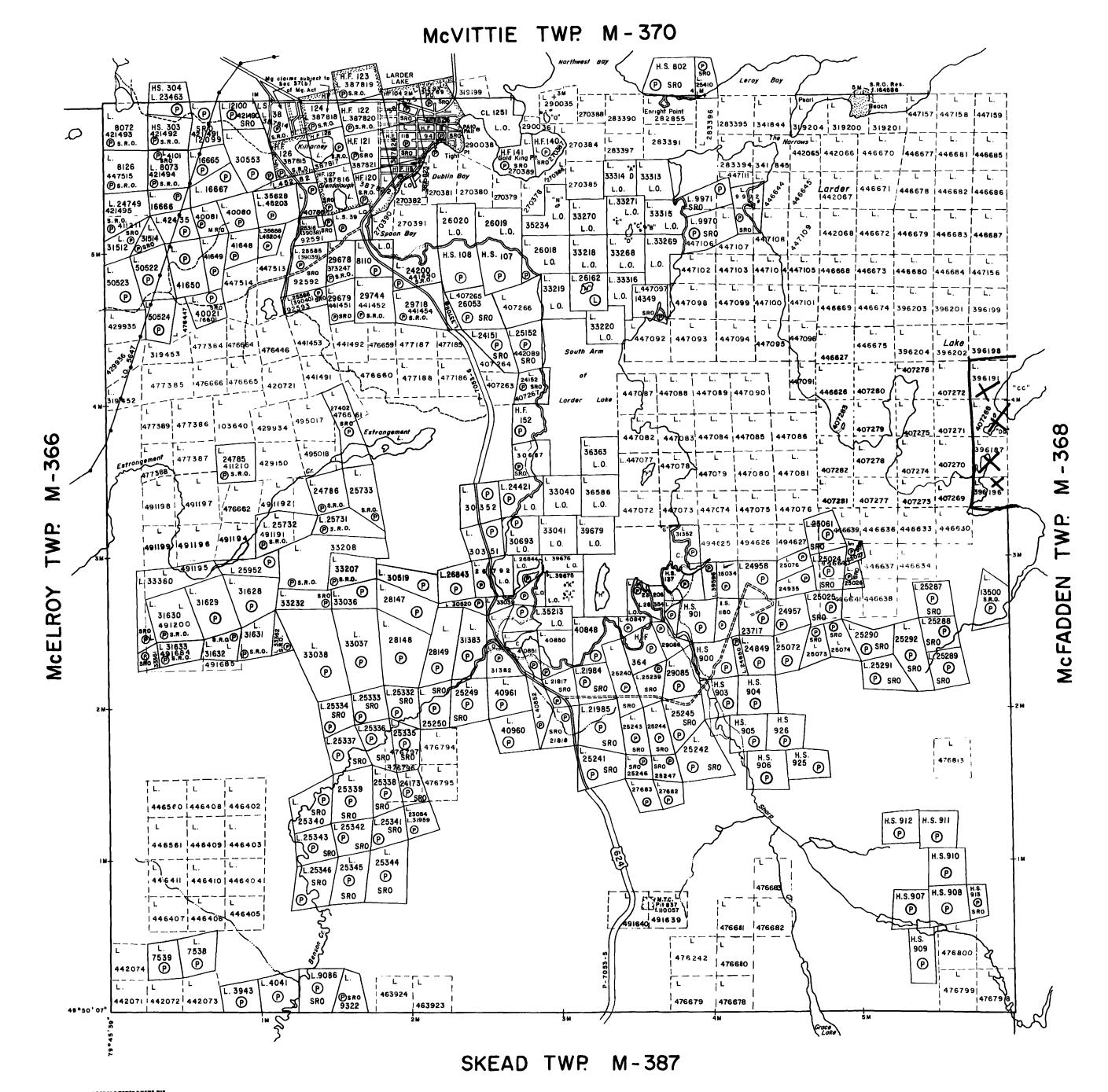
JUL 1 2 1977

SURVEYS AND MAPPING BRANCH

PLAN NO-**M.368**

MINISTRY OF N.A. - A - - > DURCI RVt >

220



THE TOWNSHIP

OF 2.2446

HEARST

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH - 40 CHAINS

LEGEND

PATENTED LAND	or (P)
CROWN LAND SALE	C.S.
LEASES	(
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
ROADS Improved roads	

IMPROVED ROADS	
IMPROVED ROADS KING'S HIGHWAYS	
IMPROVED ROADS KING'S HIGHWAYS RAILWAYS	
IMPROVED ROADS KING'S HIGHWAYS RAILWAYS POWER LINES	
IMPROVED ROADS KING'S HIGHWAYS RAILWAYS POWER LINES MARSH OR MUSKEG	€ C.

NOTES

400' Surface Rights reservation along the shores of all lakes and rivers.

Township of Hearst lies entirely within the CORPORATION of the TOWNSHIP of LARDER LAKE. File: 129282.

Staking of mining claims within the Town of Larder Lake shown thus <u>Crestageness</u> subject to Sec. 37(b) of the Mining Act (RS.O 1970).

DATE OF ISSUE

JUL 1 2 1977

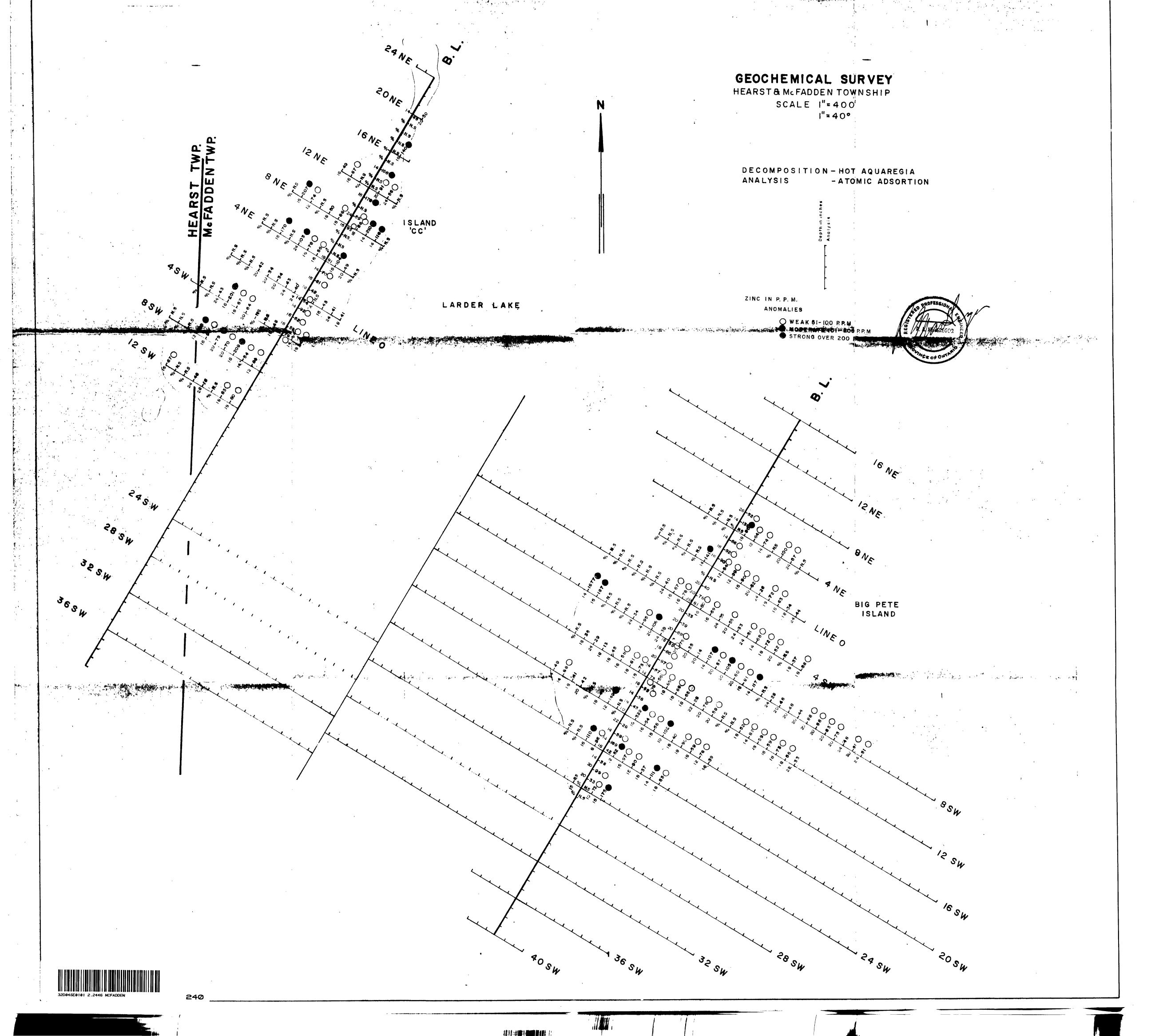
SURVEYS AND MAPPING BRANCH

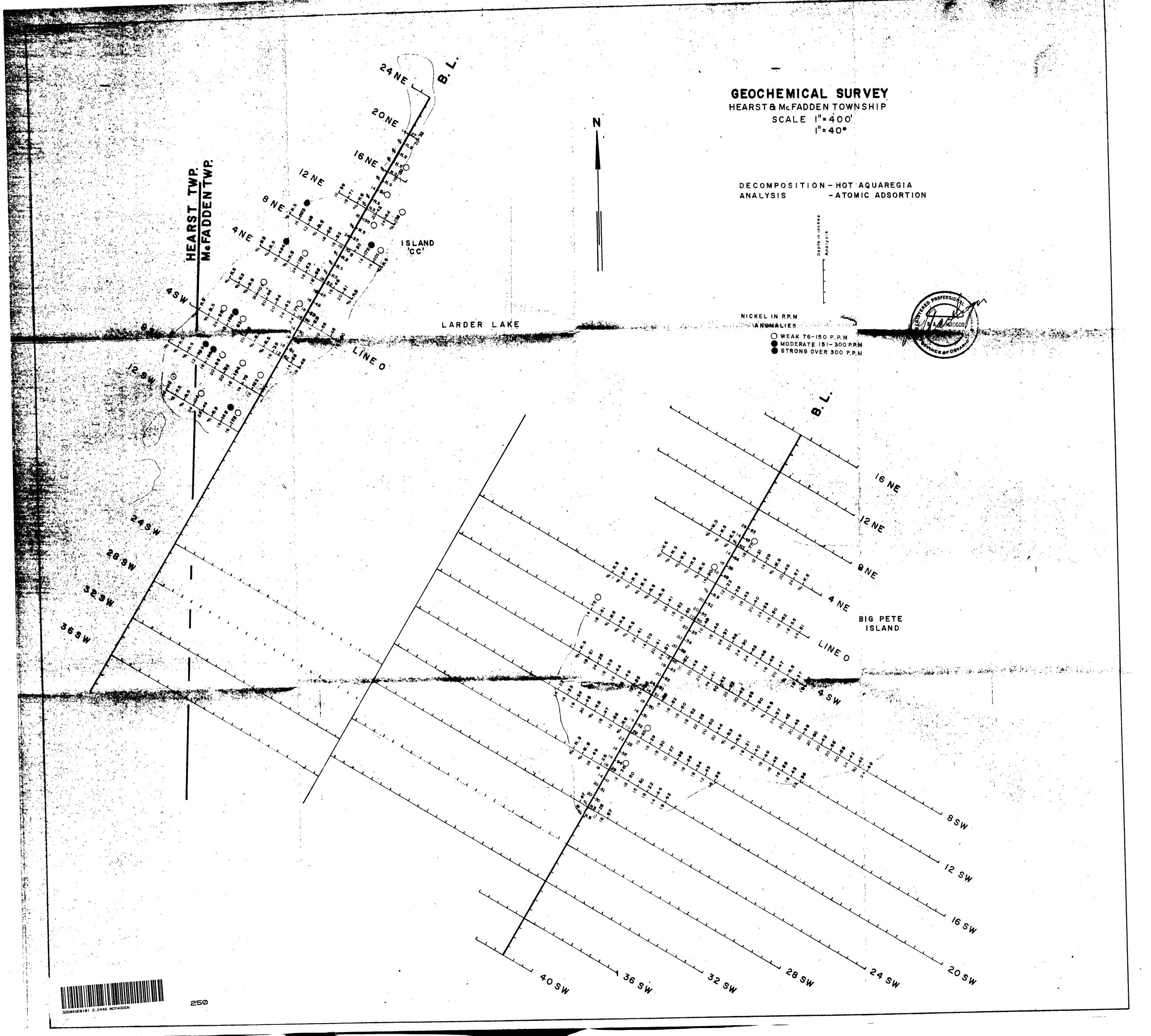
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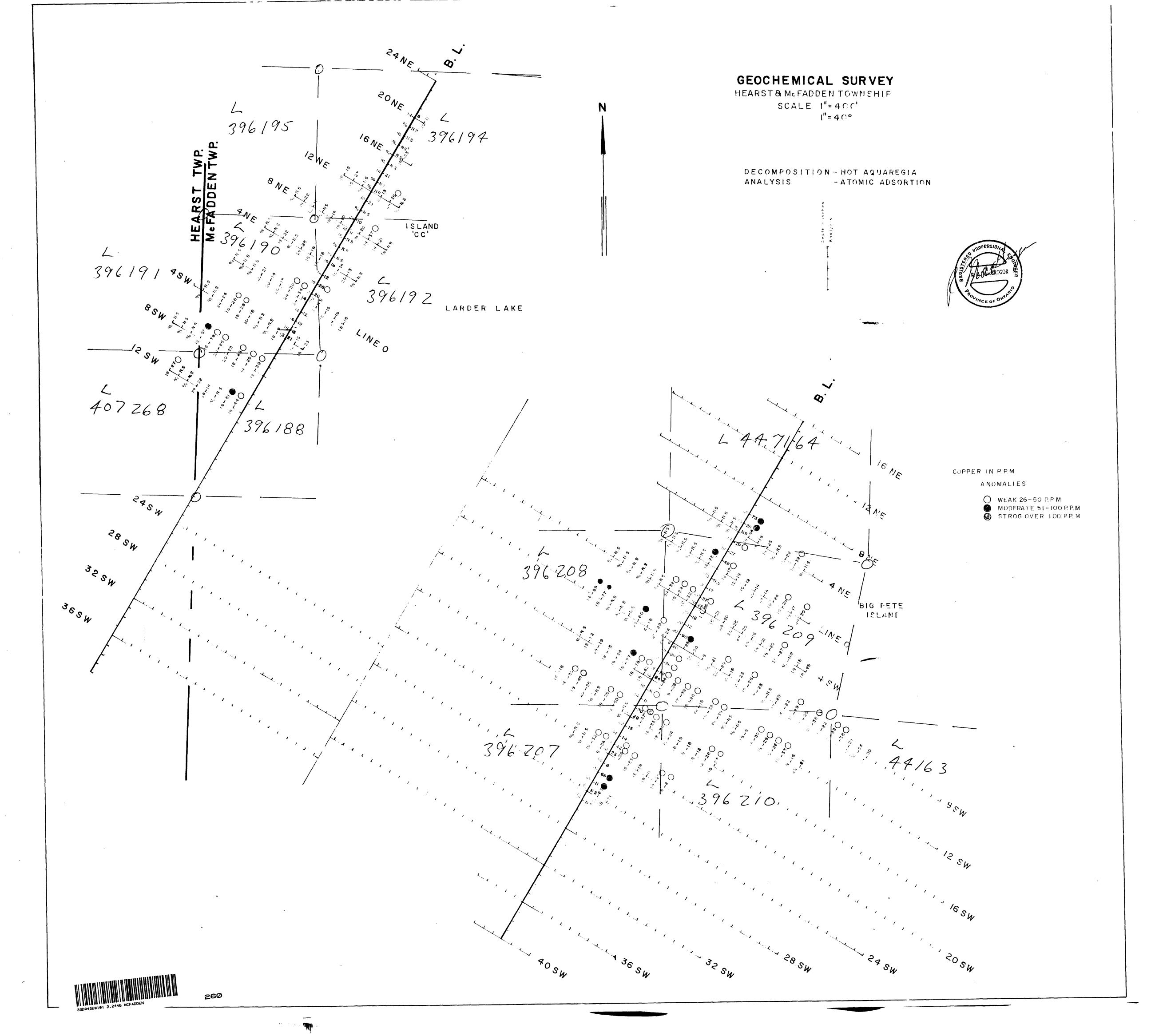
ONTARIO

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH







ZANE MAGNETOMETER SURVEY HEARST & MCFADDEN TOWNSHIPS SCALE I"=400" ZONE INSTRUMENT: SHARPE MF-1 396 195 READINGS IN GAMMAS CONTOUR INTERVAL - 500 GAMMAS 16 NE 396194 ONE 396191 125h 394192 7 Sn 447165 396/93 Esn 407268 2 gsn E8sn 205m 1396197 3254 Rosh 36 Sh

VLF-EM SURVEY HEARST & McFADDEN TOWNSHIPS SCALE | "= 400' | "= 40° PONE INSTRUMENT: CRONE RADEM STATION: CUTLER MAINE 17.8KHz. DIP ANGLE OF THE RESULTANT FIELD IN DEGREES. ISLAND ' C C' 4 NE LARDER LAKE 407268 s/12sh 396188 12NE 403961877 396208 36SW, BIG PETE ISLAND 396 396 210 ROSW 285W 36SW 24SW 32sw

VLF-EM SURVEY HEARST & MCFADDEN TOWNSHIPS SCALE I"=400' I"=40° INSTRUMENT: CRONE RADEM STATION: ANNA POLIS, MARYLAND 21.4 KHz DIP ANGLE OF THE RESULTANT FIELD IN DEGREES 394192 396191 LARDER LAKE 407268 396193 396187285m 396205 325h John 365h Josh or war wo or war 396197 5 394

Sold of the state of the ion marine 28 5 m 36 Sa 2 x sh 70 Su 3259

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