



52F11NW0062 2.10957 GARNET BAY (EAGLE LA

010

PRELIMINARY REPORT ON
K 882548 and K 959739
KENORA MINING DIVISION
ONTARIO, CANADA

RECEIVED
MAR 24 1988
MINING LANDS SECTION

Prepared By:

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POV 2M0

Feb. 23, 1988

Dual
2.1942

J. W. Redden - Geologist

Introduction:

The Eagle Lake Area has been the scene of mining exploration for almost a hundred years. Numerous gold prospects have been discovered. It has only been in the last few years that systematic exploration has been undertaken. Presently, several properties in the area are being explored for gold.

This report is based on the results of field examination, review of the literature and discussions with individuals familiar with the area.

Location, Access and Physiography:

The Eagle Lake Area is located in Northwestern Ontario, 30 km west of Dryden.

The property covers the northwest corner of North Twin Island. It is most conveniently reached in summer by boat and in winter by snow machine from the north shore of Eagle Lake.

The area is rocky with sparse overburden on the higher ground. Lower ground is covered by a variable thickness of till overlain by a mantle of clay or sand.

The Property:

The property consists of claims K 882548 and K 959739.

Status of Claims:

The claims are in good standing to February 10, 1989.

Previous Work in Area:

Several partially documented exploration programmes and numerous undocumented ones have been conducted on and near the Properties.

The claim block is situated between several small Past-Producers and showings. The area has been actively prospected for gold since the 1890's. Two features of note are inherent in earlier work. Work was confined to a narrow strip of land adjacent to the lake and the exploration tended to consist of finding an occurrence of gold, digging one or two pits, sinking a shaft and installing a mill.

No records of Past exploration on the two claims are available.

Regional Geology

The only systematic geological mapping of the area was carried out by Moorhouse in 1938 for the Ont. Dept. Mines. The following description is based on that work, review of other data on the area and field work by the author.

The oldest rocks exposed on the Property are a series of mafic and felsic metavolcanics. These occupy the north part of the Property. They strike northeast to east and dip vertically to steeply north. Most outcrops expose foliated to slightly schistose rocks with considerable local shearing. Mafic rocks predominate on Net Is. and to the southwest. Felsics are more common on North Twin Is. Silicification is common within the volcanics. Carbonate alteration is highly variable.

The intrusive granitoid varies in composition from a true granite to granodiorite. Porphyritic phases are present as are varieties containing bluish opalescent quartz. All varieties are coarse to very coarse grained. Insufficient data is available to determine if the variation is due to multiple intrusions or a somewhat differentiated single event.

The contact along the channel between North Twin and Net Is. consists of several layers (sills?) of granitic material within the volcanics. The volcanics consist of chlorite schist and a dark siliceous rock, probably a felsic volcanic. The lack of a chilled contact indicates the volcanics were at a temperature similar to the intrusion during emplacement.

J. W. Redden - Geologist

Structural Geology:

Little structural data is available on the geometry of the volcanics in the area. Work by the author to the northeast indicates tight isoclinal folding of the volcanics. This folding may include the volcanics on the claims.

Shearing is the most prevalent structural data visible. Two major shear directions have been identified: NE-SW to E-W and NNW-SSE.

The northeast - southwest (NE-SW) to east - west (E-W) shearing is most pronounced in the volcanics but is also found in the granitoid intrusive. The foliation and the stratigraphy of the volcanics both have this trend. Carbonatization, silicification, sulphidation and gold mineralization are associated with this shear direction.

The north northwest - south southeast (NNW-SSE) shearing has been observed in the granitoids and to a lesser extent in the metavolcanics. Silicification, carbonatization, sulphidation and gold mineralization are associated with the shearing.

Numerous lineaments are present throughout the area. The major lineaments are readily apparent as linear topographic lows on the contour maps and air photos of the area. Many more linear features are apparent in the field. These lineaments parallel the known shear directions. It is likely that a number of these linear

Descriptions of Showings

Two areas of mineralization are exposed on the claims. These were examined and sampled.

Location 1

This showing is exposed in an old Pit on the east shore of the bay on K 882548.

The showing consists of a quartz vein 6" to 2' wide within a sheared zone 4 to 6 feet wide. The shear zone strikes north 74 degrees east and dips vertically. The quartz contains up to 5% Pyrite and chalcopyrite as streaks and blebs.

The shear zone lies within an alteration zone along a felsic/mafic contact. Overburden covers the shear away from the lake.

Samples

E-14	quartz vein, 4-5% Py, cp	0.110 oz/ton Au
E-15	sericite schist, 2% dissem. Py	0.060 "
E-16	sheared intermed. volc., 1% Py (cp?)	0.015 "
E-17	2"x8' qv in tension crack, 50' of shear	nil Au

Location 2

This showing is exposed in outcrop along the north side of the bay in the west part of K 959739.

The showing consists of a sheared, silicified and sulphidized zone 50 - 60' wide. The zone strikes north 65 to 70 degrees east and dips vertically. The north half of the zone consists of altered chloritic schist with minor conglomerate. The south half consists of intermediate to felsic conglomerate.

Pyrite, with minor chalcopyrite is disseminated throughout the rock with local concentrations to 2-3% along minor, discontinuous shears. A shear within the chlorite schist contains 40-50% Pyrite over a width of 4-6".

Samples

E18	mass. Py with minor Po, altered mafic volc.	trace Au
E19	dissem. Py (2-3%) with Po, alt mafic volc.	trace Au
E20	dissem. Py (.5-1%), int/felsic volc.	0.005 oz/ton Au

Summary - Economic Geology:

Gold deposits in the area are characterized by faulting or shearing. This is accompanied by carbonatization and silicification. Pyrite is usually present and chalcopyrite is often present.

Shearing, carbonatization, silicification and pyritization have been found at two locations on the claims.

Many of the shears in the area are readily identified using VLF. A VLF survey, followed by geological mapping and stripping, is the typical exploration procedure used to evaluate these structures.

Conclusions:

1. Significant gold values are present at Location 1
2. Gold is associated with a silicified sulphide-bearing shear
3. Major shear direction is NE-SW to E-W
4. Previous exploration in the area was inadequate to evaluate the potential of the claims

J. W. Redden - Geologist

Recommendations:

A thorough, methodical, systematic exploration Programme should be carried out to evaluate the mineral Potential of the claim block.

These two claims are Part of a larger claim block on which exploration is being Planned. The overall exploration Plan for the block will consist of the following:

Summer 1988

-line cutting, Geophysics, Geological mapping, stripping, sampling, assays

Winter 88/89

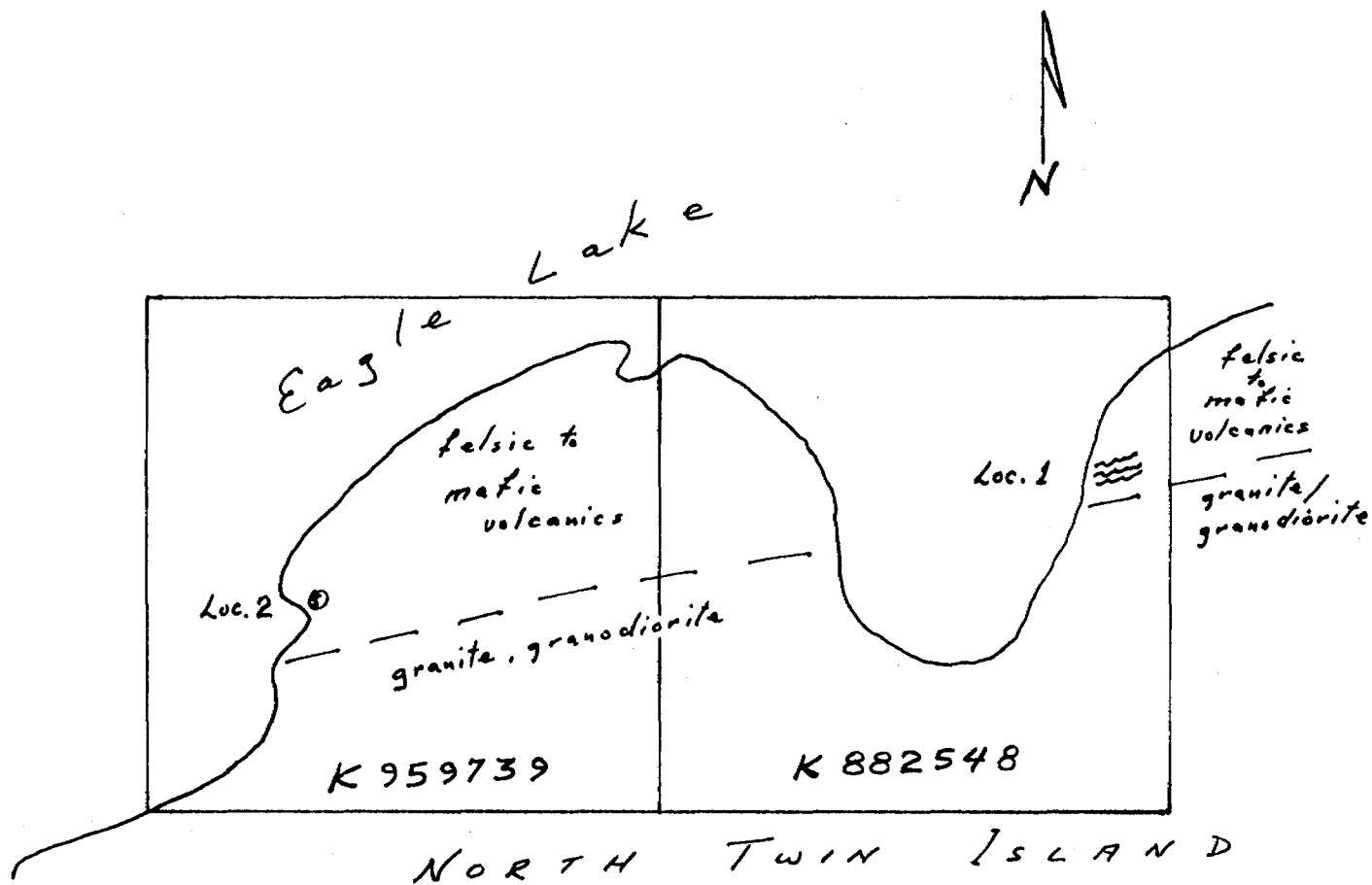
-line cutting and geophysics on the ice
-diamond drilling

Summer 1989

-additional surface work

Winter 89/90

-additional drilling



SKETCH MAP
 K 882548 + K 959739
 North West Part of
 North Twin Island
 Garnet Bay Area Claim Map
 Eagle Lake
 Ontario

June Feb '83

June



W8801.00032

Ministry of Northern Development and Mines

Report of Work (Geophysical, Geological, Geochemical and Expenditures)

DOC WG



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900

29

Type of Survey(s) **PRELIMINARY EVALUATION (EXPENDITURE)** Township or Area **GARNET BAY AREA M-1729**

Claim Holder(s) **J. HARRISON** Prospect's Licence No. **H 6810**

Address **GENERAL DELIVERY, EAGLE RIVER, ONT.**

Survey Company **J. W. REDDEN** Date of Survey (from & to) **10 87** Total Miles of line Cut **—**

Name and Address of Author (of Geo Technical report) **J. W. REDDEN, Box 117 Wabigoon Out P0V2W0**

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
RECEIVED FEB 19 1988	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
MINING LANDS SECTION	Geological	
	Geochemical	
	Airborne Credits	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
K	882548	20			
	959739	20			

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
APR 28 1988
RECEIVED

RENORA MINING DIV.
RECEIVED
FEB 3 1988
AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

882548

Total number of mining claims covered by this report of work. **2**

Expenditures (excludes power stripping)

Type of Work Performed **prelim. evaluation**

Performed on Claim(s) **both**

Calculation of Expenditure Days Credits

Total Expenditures **\$ 600.00** ÷ **15** = **40** 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 **JAN 31/88** Recorded Holder's Report (S. name) **JWR**

For Office Use Only

Total Days Cr. Recorded **40** Date Recorded **Feb 3/88** Mining Order **with Rivett**

Date Approved as Recorded **19 April 88** Branch Director **W. L. ...**

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 **J. W. Redden**
Box 117, Wabigoon, Ont. P0V2W0

Date Certified **Feb. 1/88** Certified by (Signature) **JWR**

AREA OF

GARNET BAY

EAGLE LAKE

DISTRICT OF
KENORA

KENORA
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

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

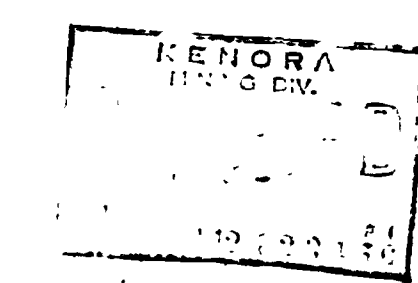
NOTES

400 Surface Rights Reservation along the shores of all lakes and rivers

AREAS WITHDRAWN FROM DISPOSITION

S.R. - SURFACE RIGHTS M.R. - MINING RIGHTS

Description	Order No.	Date	Disposition	File
RESERVE				163473



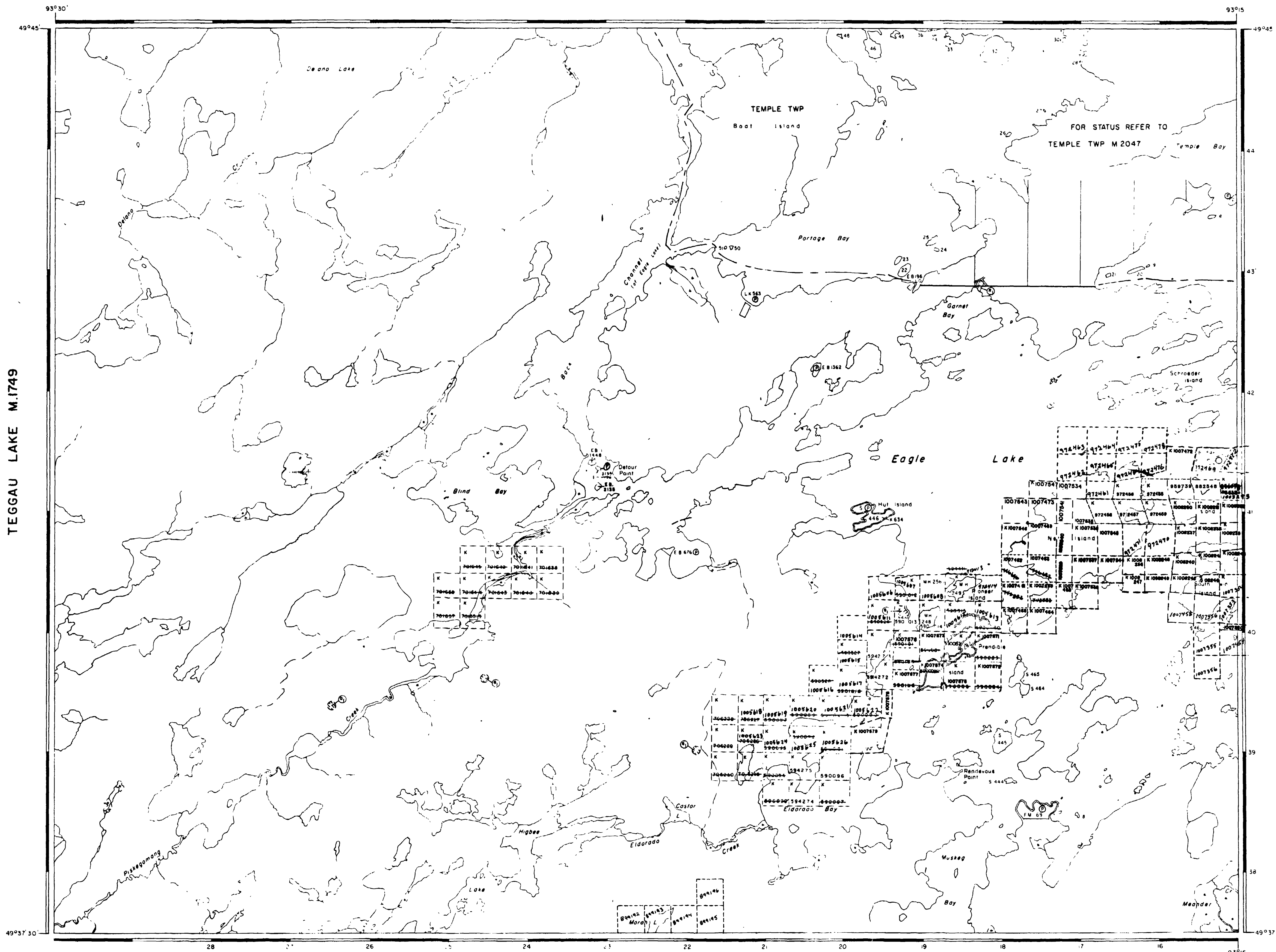
SAND & GRAVEL

GRAVEL	FILE 35539
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NATIONAL TOPOGRAPHIC SERIES 52F11

PLAN NO. **M.1729**

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



TEGGAU LAKE M.1749

BUCHANAN BAY M.1288

LINE LAKE M.2693



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