

**PROSPECTING REPORT**

**on**

**GEOLOGICAL MAPPING AND LITHOGEOCHEMICAL SAMPLING**

**ERIC LAKE PROPERTY**

**THUNDER BAY MINING DIVISION**

**BLACK RIVER AREA G-0580**

**DISTRICT OF THUNDER BAY, ONTARIO**

**NTS 42C / 13**



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## **1.0 Introduction**

Between May 14, 2014 and November 25, 2014 general prospecting, geological mapping and rock sampling was conducted on the Eric Lake property. We prospected the Eric Lake property with emphasis on prospecting in order to locate significant mineralization and Kimberlite – Lamproite.

## **2.0 LOCATION AND ACCESS**

The Eric Lake Claim blocks are located in the Hemlo area, Ontario approximately 330 km east of Thunder Bay.

The property consists of 3 claim block 36 units covering an area of approximately 576 ha located on the Ontario Ministry of Natural Resources claim sheet no. G-0580, in the Thunder Bay Mining Division, Ontario.

Access to the property is gained by Ontario highway 614 which crosses the property in the eastern part of the property and with 4wheelers on old trails.

## **2.1 PROPERTY DESCRIPTION**

Eric Lake Property consists of 3 contiguous mining claim blocks ( 36 units, 576 hectare ) recorded in good standing in Thunder Bay Mining Division within Black River Area Twp. (G- 0580)

### **Claims/units**

4263458 (16), 4263460 (12), 4263467 (8)

**Total            36 units**

**Assessment Work Breakdown**

<u>Type of Work</u>	<u>Name &amp; Address</u>	<u>Dates Worked</u>	<u>Days = 8 to 10 hours</u>	<u>Signature</u>
Prospecting , Geological mapping, Hand Stripping, Rock sampling along Travers line on claim # 4263460	Rudolf Wahl Box 1022 Marathon, Ontario P0T 2E0 <u>CLN # 206079</u>	May 14, 2014 To May 16, 2014	3	R.W
Prospecting , Geological mapping, Rock sampling along Travers line on claim # 4263460	Frederick Lowndes 28 Steedman Drive Marathon, Ontario P0T 2E0 <u>CLN #410033</u>	May 14, 2014 To May 16, 2014	3	F.L.
Prospecting , Geological mapping, Rock sampling along Travers line on claim # 4263460	Rudolf Wahl Box 1022 Marathon, Ontario P0T 2E0 <u>CLN # 206079</u>	May 19, 2014 To May 23, 2014	5	R.W
Prospecting , Geological mapping, Hand Stripping, Rock sampling along Travers line on claim #4263460	Frederick Lowndes 28 Steedman Drive Marathon, Ontario P0T 2E0 <u>CLN #410033</u>	May 19, 2014 To May 23, 2014	5	F.L.
Prospecting , Geological mapping, Hand Stripping, Rock sampling along Travers line on claim #4263467	Rudolf Wahl Box 1022 Marathon, Ontario P0T 2E0 <u>CLN # 206079</u>	May 26, 2014 To May 30, 2014	5	R.W
Prospecting , Geological mapping, Rock sampling along Travers line on claim #4263467	Frederick Lowndes 28 Steedman Drive Marathon, Ontario P0T 2E0 <u>CLN #410033</u>	May 26, 2014 To May 30, 2014	5	F.L.
Prospecting , Geological mapping, Hand Stripping, Rock sampling along Travers line on claim #4263458	Rudolf Wahl Box 1022 Marathon, Ontario P0T 2E0 <u>CLN # 206079</u>	June 02, 2014 To June 06, 2014	5	R.W
Prospecting , Geological mapping, Rock sampling along Travers line on claim # 4263458	Frederick Lowndes 28 Steedman Drive Marathon, Ontario P0T 2E0 <u>CLN #410033</u>	June 02, 2014 To June 06, 2014	5	F.L.

**Total**

**36**



## Assessment Work Breakdown

A total of 36 days in between May 14, 2014 and June 06, 2014 where used for prospecting, hand stripping, geological mapping and rock sampling on the Eric Lake Property.

Dated.....*August 15*.....2014, Marathon, Ont.

Signed.....*Rudolf Wahl*.....  
( Rudolf Wahl )

Dated.....*August 17*.....2014, Marathon, Ont.

Signed.....*Frederick Lowndes*.....  
( Frederick Lowndes)

### Assessment Work Breakdown days:

#### **May 14, 2014 to May 16, 2014** prospecting on claim #4263460

We used our 4wheelers into the property on an old rail way road where the rails were removed on the eastern site of Hwy. 614. We prospected and hand stripped and geological mapped along traverse line. Most of the area is covered by glacial till with some interesting rounded boulders.

#### **May 19, 2014 to May 23, 2014** prospecting on claim #4263460

We prospected and hand stripped and geological mapped along traverse line. Most of the area is covered by sand and glacial till with some section of granite – gneisses. We took 4 samples from the northern part of the claim block and one sample from the southern part of the claim block. We notice that there allot of interesting rounded carbonated boulders within that claim block, also some of the soil looks very interesting.

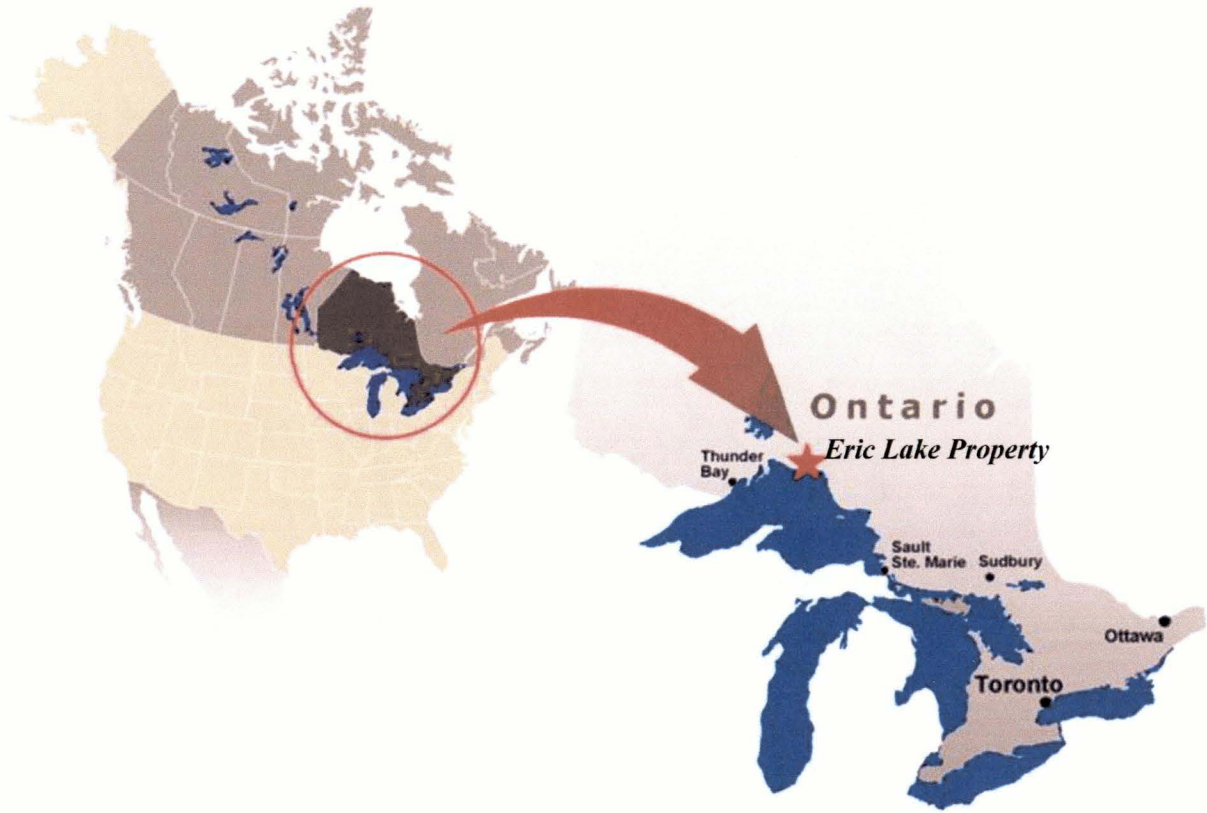
#### **May 26, 2014 to May 30, 2014** prospecting on claim #4263467

We used our 4wheelers into the property on an old rail way road where the rails were removed on the western site of Hwy. 614 and we used some of the old 4wheeler trails. We prospected and hand stripped and geological mapped along traverse line. Most of the area is covered by sand and glacial till with some section of biotite granite gneiss in the northwestern section of the claim block. We located an interesting square mafic volcanic boulder in the northwestern section of the claim block that was highly carbonated. On the magnetic maps it showed a magnetic high bull's eye within the center area of the claim block, minimal outcrop was noted with a slight elevated ridge being detected on the north edge of the magnetic high anomaly. This outcrop was a moderately foliated granite/gneiss outcrop. The remainder of the target area is covered with a sandy till that slopes off to the southeast into the main drainage.

#### **June 02, 2014 to June 06, 2014** prospecting on claim #4263458

We prospected and hand stripped and geological mapped along traverse line. Most of the area is covered by glacial till and swampy section within the Black River area. Prospecting is very time consuming within that claim block do to the way the black river crosses the property. We used a Canoe on the 06<sup>th</sup> of June 2014 to get over the Black River. Not much of bedrock to be found within the claim block. We couldn't explain the magnetic bull's eye that is showing on the magnetic map within the two claim blocks 4263460 and claim block 4263467.

# Eric Lake Property Key Location Map





# Claim Location Map Eric Lake Property G-0580

BLACK RIVER AREA

Eric Lake

4263467

4263461

4263460

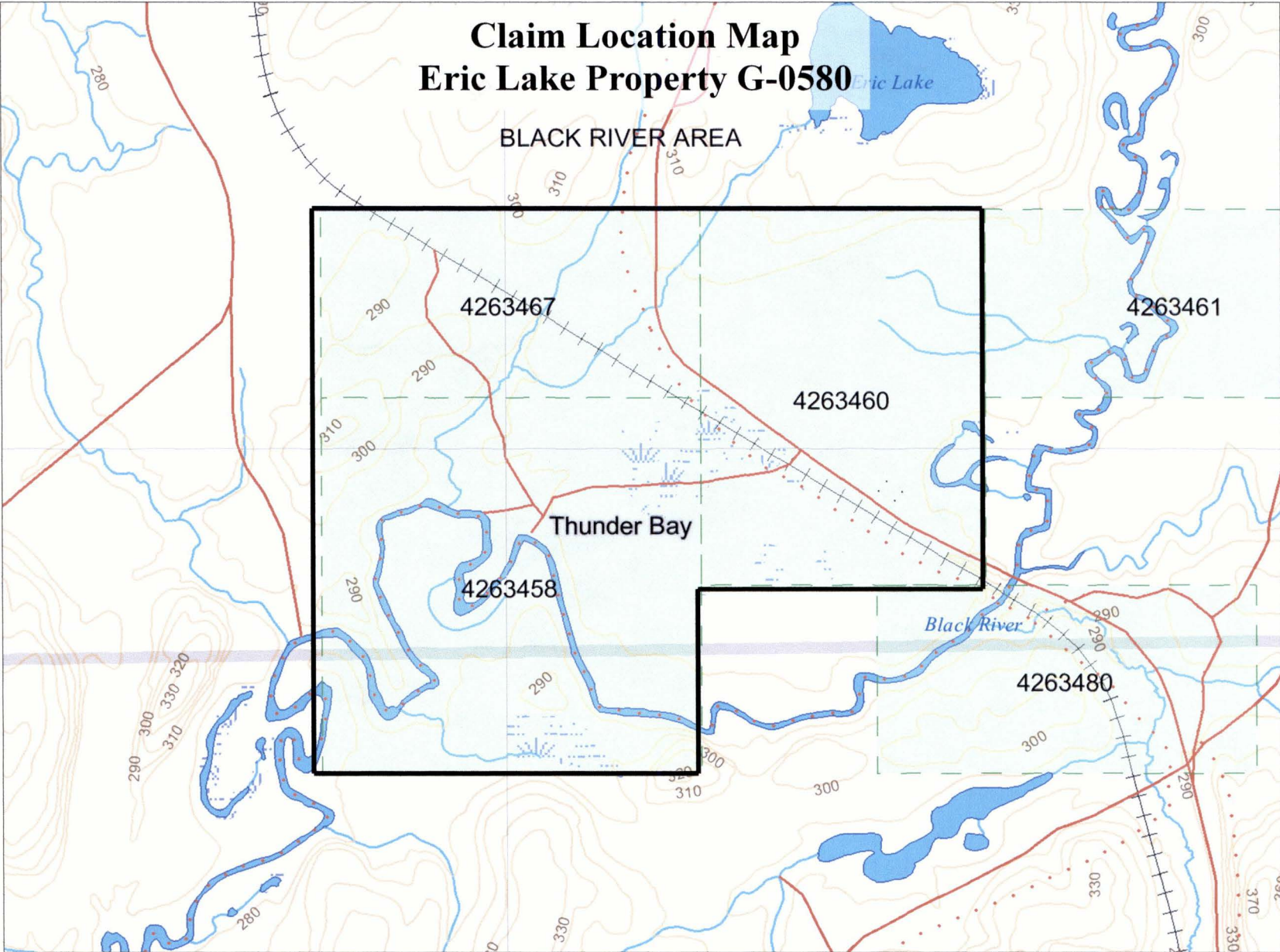
Thunder Bay

4263458

Black River

4263480

5





The project area is situated within the Superior Province, just south of the border of the Wawa Subprovince and the Quetico Subprovince. The metasedimentary-migmatitic rocks of the Quetico Subprovince structurally overlie the granitic greenstone units of the Wawa Subprovince at this tectonic division. However, it is the formations of the Wawa Subprovince that dominate the property area, specifically the Neo- to MesoArchean (2.5 to 3.4 Ga) Schreiber-Hemlo greenstone belt, Neo- to MesoArchean felsic igneous suites and the Mesoproterozoic (0.9 to 1.6 Ga) Port Coldwell intrusive complex (Santaguida 2001).

The Schreiber-Hemlo greenstone belt is represented by its 2 eastern supracrustal assemblages, the Heron Bay assemblage and the Hemlo-Black River assemblage. The Heron Bay assemblage lies to the south of the Hemlo-Black River assemblage, the two being divided by the Lake Superior-Hemlo Fault Zone. It is composed of tholeiitic mafic volcanic rocks as well as calc-alkaline, felsic to intermediate pyroclastic and equivalent volcanoclastic rocks (Williams et al 2001).

Two major lithologies, tholeiitic/calc-alkaline volcanic rocks and sedimentary rocks encompass the Hemlo-Black River assemblage (Williams et al. 1991). Mafic to intermediate metavolcanics dominate the western regions whereas felsic metavolcanics and sediments occupy the eastern portions closer to Hemlo (Muir 1982b). Comprising the mafic metavolcanics are massive to foliated flows; pillowed flows; volcanoclastic and epiclastic rocks; amphibolite, mafic schist and gneiss (Williams et al. 2001; Santaguida 2001). The felsic metavolcanics consist of pyroclastic and epiclastic rocks; massive flows; tuff and lapilli tuff; and hypabyssal intrusions. Within the mafic to intermediate metavolcanics, suites of mafic and ultramafic intrusive rocks have been identified (Santaguida 2001; Pye 1957). The mafic rocks are composed of gabbros, diorite, anorthositic gabbro and anorthosite that are serpentized in areas. The ultramafics are less observed, occurring as peridotite, pyroxenite, hornblende and dunite, with local alteration of talc, serpentine and carbonate.

Intruding the supracrustal units of the greenstone belt are felsic igneous rocks. These granitoid rocks, vary in composition from foliated to gneissic tonalites to massive granite-granodiorites (Williams et al 1991). The primary example of these complexes in the property area is the Black-Pic batholith, characterized by foliated to gneissic, tonalite to granodiorite. Additionally, the supracrustal rocks were subsequently intruded by relatively undeformed, discordant granodiorite bodies, such as the crescent shaped Gowan pluton on the southern edge of the Black-Pic batholith and the Fourbay Lake Pluton within the Black-Pic batholith (Williams et al 1991; Santaguida 2001, Beakhouse 2001).

Mesoproterozoic mafic intrusives of Keweenawan age (Santaguida 2001, Pye 1957) sharply cut the older metavolcanic and plutonic units discussed above. Consisting of gabbro, diabase, and granophyre, these dykes generally trend north to northeast, however a northwest trending incidence has been reported ((Pye 1957).

The youngest sequence of rocks found in western side of project area is that of the Port Coldwell Intrusive Complex (1108 to 1109 Ma). This triple ring intrusion is composed of alkalic and mafic rocks typified by quartz syenite granite; nepheline syenite; amphibole syenite; gabbro; diabase; as well as minor mafic volcanic and hypabyssal rocks (Sage 1991; Santaguida 2001).



#### **4.0 Prospecting / Geological Mapping**

Most of the Eric Lake property was geologically mapped and prospected / sampled with emphasis on prospecting in order to locate significant mineralization and Kimberlite – Lamproite on the property.

#### **5.0 Work conducted on the Eric Lake property.**

The Eric Lake Property consists of 3 mining claim blocks ( 36 units, 576 hectare ) recorded in good standing in Thunder Bay Mining Division within Black River Area Twp. (G- 0580)

#### **Work conducted on claim:**

#### **Claims/units**

4263458 (16), 4263460 (12), 4263467 (8)

**Total                    36 units**

#### **5.1 Work completed**

- a. Geological mapping on traverse lines.
- b. Rock sampling over mineralized out crops along traverse lines.
- c. Rock sample where collected by UTM: ZONE 16 NAD 83 locations.
- d. All sample where taking with a Geo tool.
- e. A total of 15 rock sample where obtained and send out for Au assay.
- f. Topographic features (trail, lakes, creeks) were also used to control mapping and prospecting.

## 6.0 Results and Conclusion

15 Rock samples were collected from the Eric Lake property. Two samples returned some interesting results in regards to Gold mineralization, sample # 575659 returned assay results of 336 ppb Au/t and sample # 575666 returned assay results of 319 ppb Au/t. Most of the Eric Lake property was geologically mapped and prospected with emphasis on prospecting in order to locate significant mineralization including Kimberlite & Lamproite .

***Magnetic Bulls Eye on claim 4263458 & claim 4263467:*** This target was prospected during the prospecting and sampling phase. Minimal outcrop was noted with a slight elevated ridge being detected on the north edge of the magnetic high anomaly. This outcrop was a moderately foliated granite/gneiss outcrop. The remainder of the target area is covered with a sandy till that slopes off to the southeast into the main drainage. No explanation for the strong magnetic high anomaly was forth coming. This target is a circular magnetic high of 1200 nT, 300 meters in diameter. A stand of deciduous trees marks the core of the magnetic high anomaly. The area is extensively covered by till with limited outcrop exposure.

## 6.1 RECOMMENDATIONS

Because of the favorable stratigraphy on the property in regards to Kimberlite surface prospecting, mapping and sampling has located the airborne target. This target remains unexplained and has the potential to be a kimberlite pipe. The calcareous nature of the till material indicates a strong component of foreign James Bay Lowland cover which would have a masking effect. It is recommended that this unexplained ground target be tested with subsurface testing such as drilling, a soil geochemical survey should be conducted over the property to outline potential mineralization in regards to the gold – base metal potential on the property.

**Marathon, Ontario  
November 25, 2014**

**Respectfully submitted**



**Rudolf Wahl  
Prospector**



**Ontario Geological Survey  
MAP 60 039**

**AIRBORNE MAGNETIC AND  
ELECTROMAGNETIC SUREYS**

**Second Vertical Derivative of the Magnetic  
Field and Keating Coefficients**

**Kimberlite Target on the Eric Lake Property**

SECOND VERTICAL DERIVATIVE  
OF THE MAGNETIC FIELD GRID

579000

580000

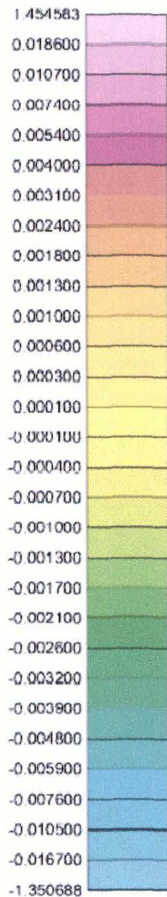
581000

582000

583000

584000

nanoteslas per metre<sup>2</sup>  
nT/m<sup>2</sup>

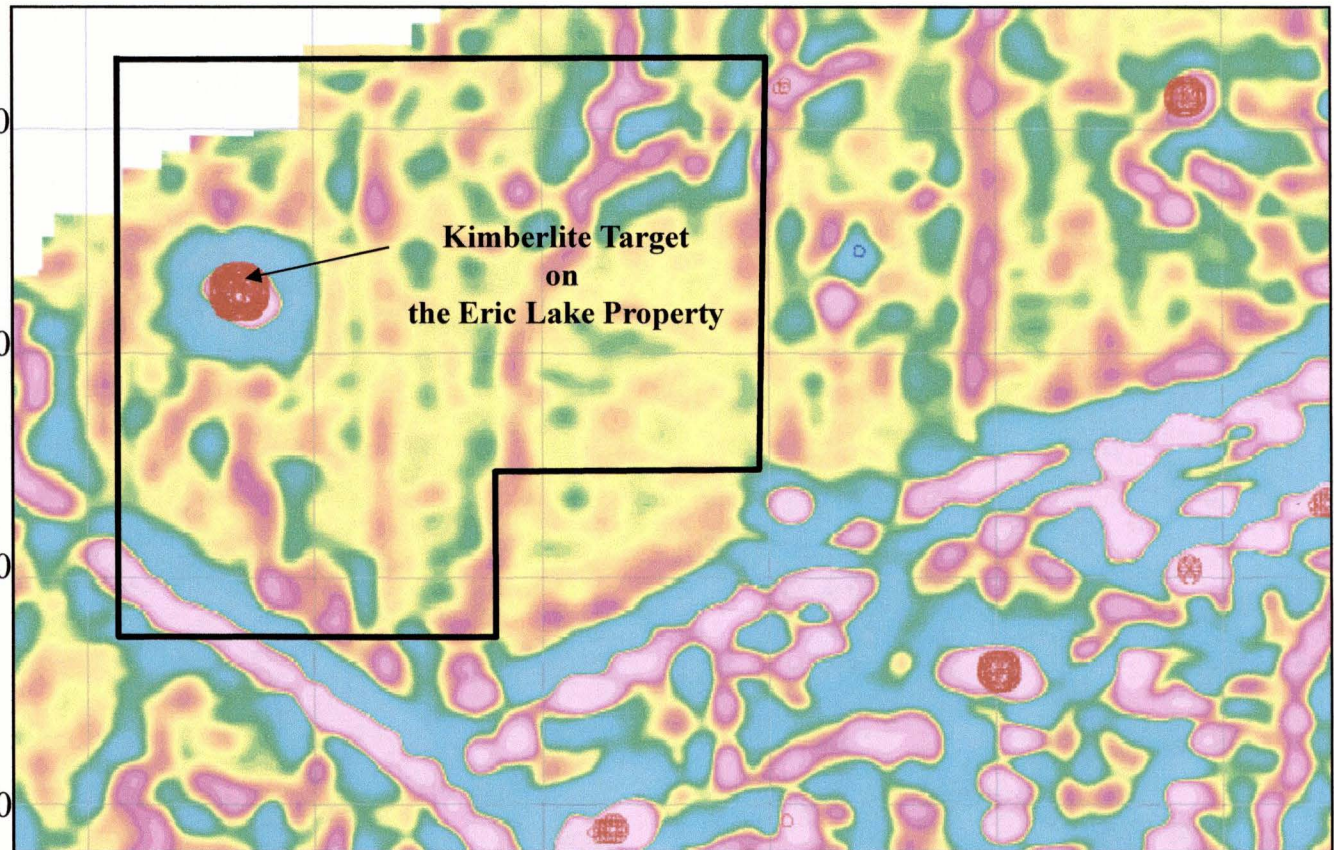


5416000

5415000

5414000

5413000



579000

580000

581000

582000

583000

584000

# Appendix I



**Sample Location Map  
Eric Lake Property G-0580**

**BLACK RIVER AREA**

*Eric Lake*

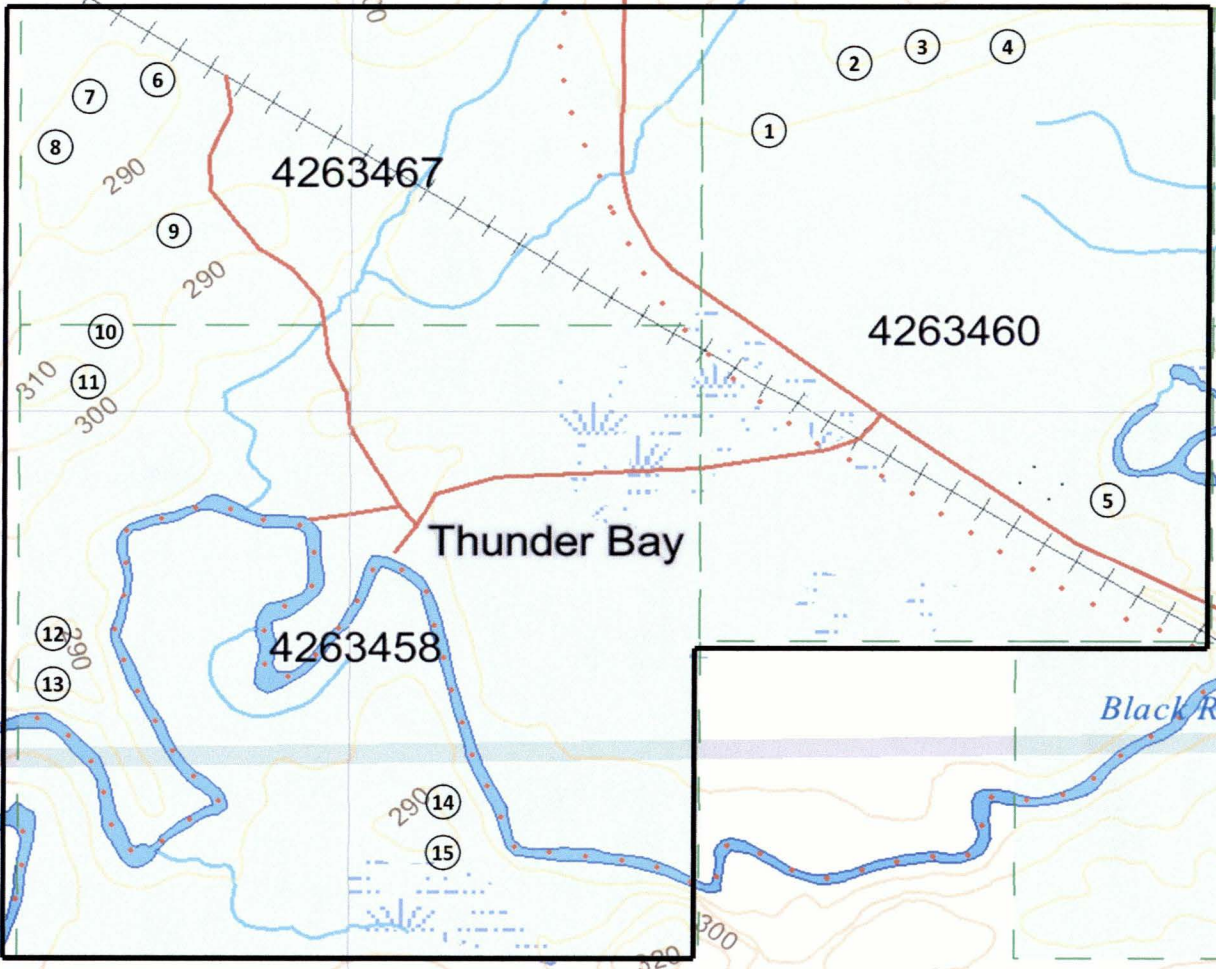
4263467

4263460

**Thunder Bay**

4263458

*Black River*



**DESCRIPTION OF ROCK SAMPLES**  
**( See Geological map for sample location )**

<i>Sample Location #</i>	<i>Sample #</i>	<i>Rock Sample Description</i>
1	575653	granite with quartz veining, 1% sulphide
2	575654	granite with quartz veining, 1 ½ % sulphide
3	575656	granite with small quartz veining, 2% sulphide
4	575657	hornblende biotite granite 1% sulphide
5	575658	granite with quartz vein, 2% sulphide
6	575659	mafic volcanic angular boulder with quartz veining, carbon staining 2 ½ % sulphide
7	575660	biotite granite with small quartz veining, light carbon staining 1 % sulphide
8	575661	biotite granite with small quartz veining, light carbon staining 1 ½ % sulphide
9	575662	biotite granite, 1% sulphide
10	575663	biotite granite, 2% sulphide
11	575664	granite / gneiss, light carbon staining ½ % sulphide
12	575665	mafic volcanic , carbon staining 1 % sulphide
13	575666	mafic volcanic with quartz veining, carbon staining 2 ½ % sulphide
14	575667	biotite granite / gneiss with quartz veining, 1 % sulphide
15	575668	biotite granite with small quartz veining, 1 % sulphide

# Appendix II



**DESCRIPTION OF ROCK SAMPLES**  
**( See Geological map for sample location )**

<i>Sample Location #</i>	<i>Sample #</i>	<i>Rock Sample Description</i>
1	575653	granite with quartz veining, 1% sulphide
2	575654	granite with quartz veining, 1 ½ % sulphide
3	575656	granite with small quartz veining, 2% sulphide
4	575657	hornblende biotite granite 1% sulphide
5	575658	granite with quartz vein, 2% sulphide
6	575659	Mafic volcanic angular boulder with quartz veining, carbon staining 2 ½ % sulphide
7	575660	biotite granite with small quartz veining, light carbon staining 1 % sulphide
8	575661	biotite granite with small quartz veining, light carbon staining 1 ½ % sulphide
9	575662	biotite granite, 1% sulphide
10	575663	biotite granite, 2% sulphide
11	575664	Granite / gneiss, light carbon staining ½ % sulphide
12	575665	Mafic volcanic , carbon staining 1 % sulphide
13	575666	Mafic volcanic with quartz veining, carbon staining 2 ½ % sulphide
14	575667	biotite granite / gneiss with quartz veining, 1 % sulphide
15	575668	biotite granite with small quartz veining, 1 % sulphide



# Appendix III

Date / Time of Issue: Sat Nov 29 08:28:22 EST 2014

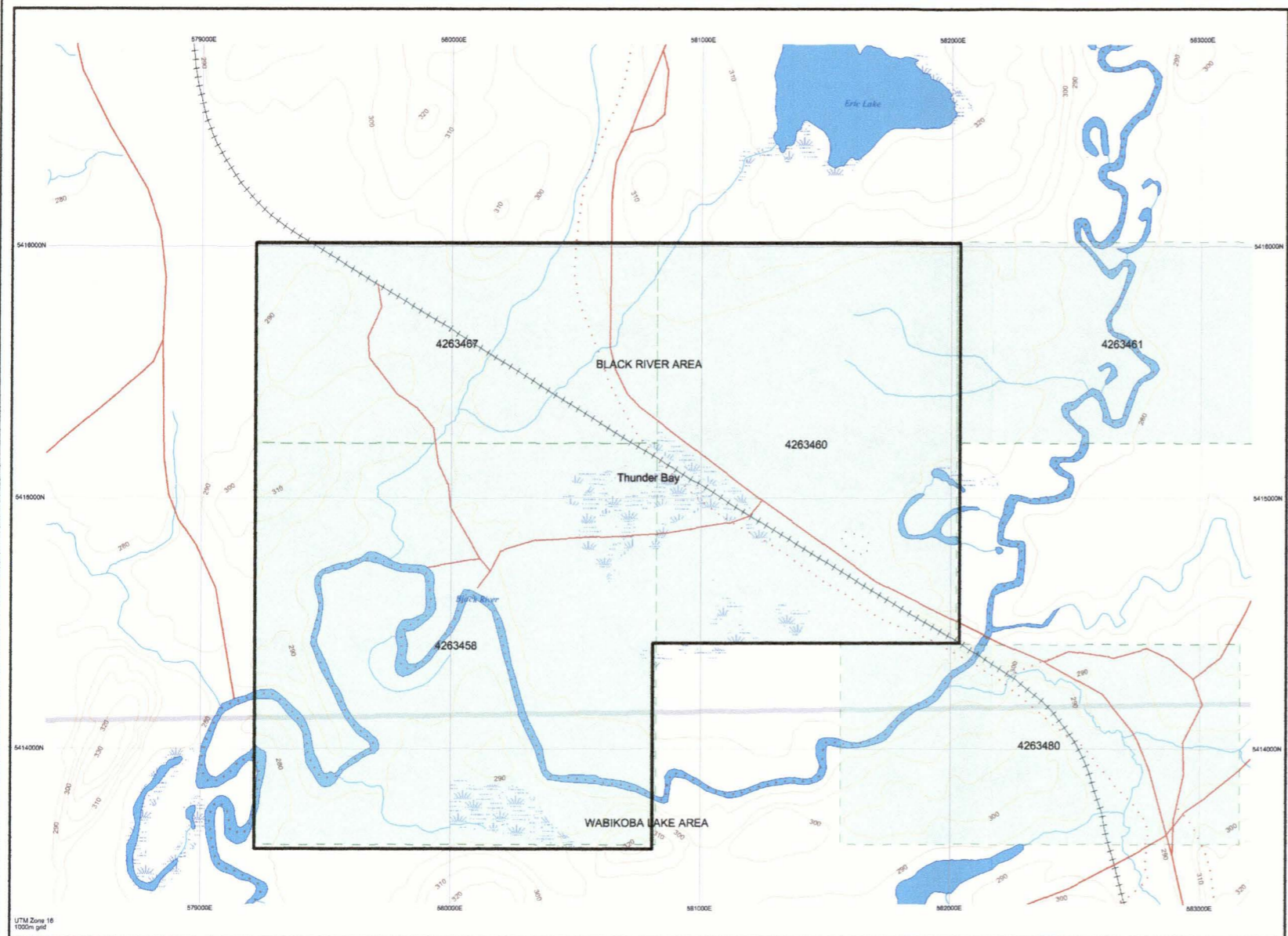
TOWNSHIP / AREA  
BLACK RIVER AREA

PLAN  
G-0580

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division  
Land Titles/Registry Division  
Ministry of Natural Resources District

Thunder Bay  
THUNDER BAY  
WAWA

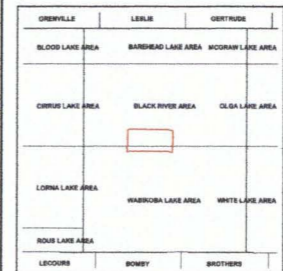


TOPOGRAPHIC

- Administrative Boundaries
- Township
- Concession Lot
- Provincial Park
- Indian Reserve
- Cliff, Pit & Pile
- Contour
- Mine Shafts
- Mine Headframe
- Railway
- Road
- Trail
- Natural Gas Pipeline
- Utilities
- Tower

Land Tenure

- Freshhold Patent**
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Leasehold Patent**
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Licence of Occupation**
  - Uses Not Specified
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
  - Land Use Permit
  - Order in Council (Not open for staking)
  - Water Power Lease Agreement



- Mining Claim
- Flad Only Mining Claims
- LAND TENURE WITHDRAWALS**
  - Areas Withdrawn from Disposition
  - Mining Act Withdrawal Types
    - W/m Surface And Mining Rights Withdrawn
    - Wa Surface Rights Only Withdrawn
    - Wm Mining Rights Only Withdrawn
  - Order in Council Withdrawal Types
    - W/m Surface And Mining Rights Withdrawn
    - Wa Surface Rights Only Withdrawn
    - Wm Mining Rights Only Withdrawn
- No **IMPORTANT NOTICES**



LAND TENURE WITHDRAWAL DESCRIPTIONS (list may not be complete)

Identifier	Type	Date	Description
2727	W/m	Jan 1, 2001	P-3288-43

Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources.

The information shown is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Northern Development and Mines web site.

General Information and Limitations  
 Contact Information:  
 Provincial Mining Recorders' Office  
 Wilket Green Millar Centre 933 Ramsey Lake Road  
 Sudbury ON P2E 8S5

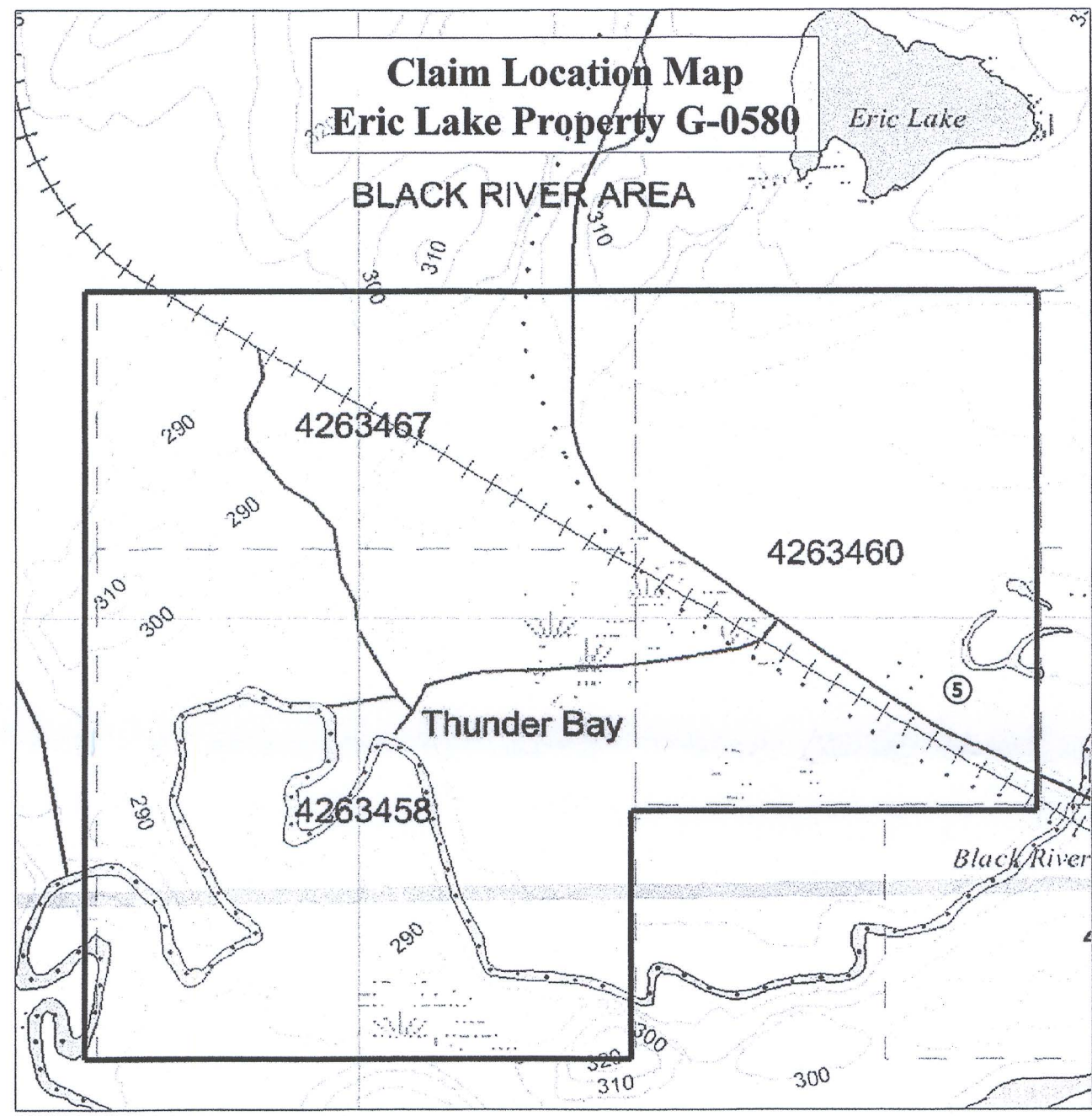
Toll Free  
 Tel: 1 (888) 415-8845 ext 574  
 Fax: 1 (877) 970-1444

Map Datum: NAD 83  
 Projection: UTM (8 degree)  
 Topographic Data Source: Land Information Ontario  
 Mining Land Tenure Source: Provincial Mining Recorders' Office

This map may not show unregistered land tenure and interests in land including certain patents, leases, easements, right of way, flooding rights, licences, or other forms of disposition of rights and interest from the Crown. Also certain land tenure and land uses that restrict or prohibit free entry to stake mining claims may not be illustrated.

Home Page: [www.mdmn.gov.on.ca/MNDM/MINES/LANDS/ntsmappg.htm](http://www.mdmn.gov.on.ca/MNDM/MINES/LANDS/ntsmappg.htm)





**LEGEND**

**GRANITIC GNEISSES**

6 Granite  
 6a Biotite granite gneiss.  
 6b Hornblende granite gneiss.  
 6c Biotite-hornblende-felspar gneiss.

**MAFIC TO INTERMEDIATE METAVOLCANIC**

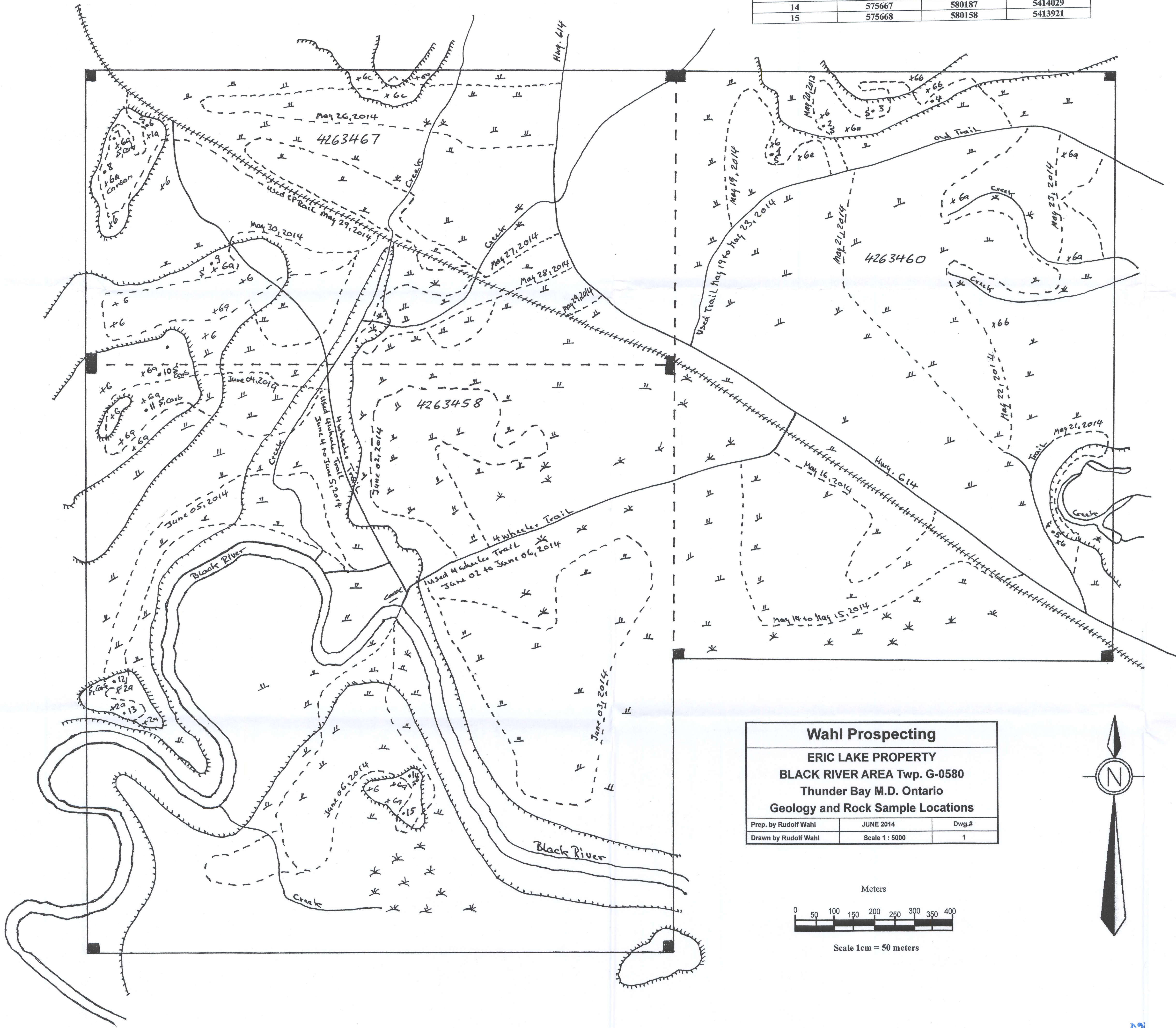
1a Medium to fine grained, massive and gneissic amphibolite  
 2a Medium to coarse grained, massive and gneissic amphibolite

**SYMBOLS**

Downslope  
 X Bedrock  
 \* \* Muskeg or swamp  
 Claim Post  
 - - - - - Traverse Line  
 4 Wheeler Trail  
 1 to 15 Rock sample location and Assay number  
 Glacial Till  
**ABBREVIATIONS**  
 S - Sulphides  
 Carb - Carbonate

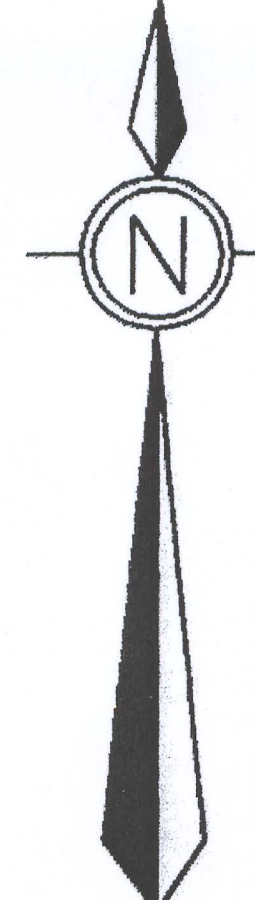
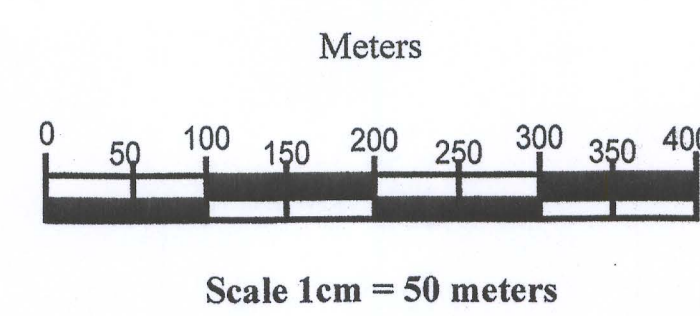
Erik Lake Property Sample Location, UTM 16 NAD 83

Sample Location #	Sample #	Easting	Northing
1	575653	580939	5415728
2	575654	581198	541590
3	575656	581347	5415915
4	575657	581574	5415952
5	575658	581768	5414743
6	575659	579544	5415866
7	575660	579384	5415819
8	575661	579304	5415670
9	575662	579602	5415448
10	575663	579419	5415196
11	575664	579369	5415048
12	575665	579325	5414436
13	575666	579346	5414329
14	575667	580187	5414029
15	575668	580158	5413921



**Wahl Prospecting**  
**ERIC LAKE PROPERTY**  
**BLACK RIVER AREA Twp. G-0580**  
**Thunder Bay M.D. Ontario**  
**Geology and Rock Sample Locations**

Prep. by Rudolf Wahl	JUNE 2014	Dwg.#
Drawn by Rudolf Wahl	Scale 1 : 5000	1



2-55509