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STRATHY

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### Diamond Rock Resources Inc.

Report of Geological Mapping and Prospecting in 1997 on Westin Property, East Block of Three Claims (1165517, 1165518, 1165519)

**Strathy Township, Sudbury Mining Division** 

RECEIVED

FEB 1 2 1998

GEOSCIENCE ASSESSMENT OFFICE

> by John Morgan Senior Geologist

### Geology and Prospecting, 1997 Westin Property- East Block

#### **Location and Access**

The three claims in the Strathy East block, 1165517, 1165518 and 1165519, are located 5.5 km west of Highway 11 along the Kanichee mine road (see Location Map). The road leaves the highway 4.5 km north of Temagami, at the south end of the bridge across Net Lake. The west end of the claim block intersects the gravel road 1 km south of the Kanichee mine dump and the grid baseline is accessed from a trail leading off the road near the northwest corner of claim 1165519.

### **Property Ownership**

The claims are held by Mr. Bjarne Anton Westin of New Liskeard. Until July 1997, the claims were under option to Diamond Rock Resources Ltd. of Ottawa.

#### **Previous Work**

- 1973: Kanichee Mining Inc. carried out ground magnetometer and VLF-EM surveys over a large area that included the Strathy property.
- 1992: area released from native land caution
- 1992: B.A. Westin and J.R. Ewanchuk carried out line cutting, prospecting, soil sampling and magnetometer and VLF-EM surveys. They identified several conductors and magnetic anomalies; these were interpreted mainly as ultramafic intrusions potentially hosting sulphide mineralization.
- 1996: West block of Strathy property mapped by Diamond Rock Resources Inc.

The former Kanichee mine, situated 2 km northeast of the property, is a shear-zone hosted gold-silver deposit where mafic intrusive units host magmatic sulphides.

### **Regional Geology**

The most common rock type is felsic to intermediate fragmental volcanics of Archean age (see Map- Westin Property at back). This is intruded by a series of mafic to ultramafic dykes or sills; these strike in a variety of orientations and are deformed to varying degrees. All the rocks are heavily carbonatized.

Many of the dykes have undergone shearing and alteration along their margins. In some places, the mafic intrusive rock is massive; this is usually true of the central parts of dykes over 1 m thick.

### **Structural Geology**

Most of the volcanics has undergone deformation under conditions of regional metamorphism, resulting in a northeasterly trending foliation.

Massive portions of mafic dykes are commonly jointed and this is believed to be a brittle response to the regional deformation.

Rocks on the claim are cut by a series of northeasterly to easterly trending faults and shear zones. A few faults trend northeasterly to northerly- these are widely spaced. All faults appear to be steeply dipping.

At two locations along the creek, zones of cataclastic rock (marked by faulting symbol) are exposed; they both trend northeasterly (strike about 55° to 75°). These contain quartz veining but no sulphides were seen.

### Alteration

Calcium carbonate alteration is ubiquitous in the area mapped. Where seen in outcrop, the alteration tends to be concentrated along the contacts between dykes and country rock volcanics.

Abundant quartz eyes were seen in felsic volcanics near the beaver pond on Alfreda Creek (claim 1165518). These are adjacent to a quartz porphyry dyke.

### Mineralization and Sampling

Three samples over 100 ppb (SJ97-1, SJ97-2 and SJ97-14- see table) were all collected in the westernmost claim (1165519). The sample sites are west of and approximately on strike with a northeast-trending magnetic anomaly in the centre of the claim group. Another sample (SJ97-14) was high in copper; this sample is 50 to 75 metres north of the magnetic anomaly.

#### **Conclusions and Recommendations**

The property is situated on a major, easterly trending deformation zone, with concomitant intrusion of mafic dykes and hydrothermal alteration. The hydrothermal alteration in the area should be mapped out carefully so that it can be related to the faulting, dykes and other features. This will be essential for future exploration for base metals and syngenetic gold.

The presence of sulphide nodules and sulphide-rich horizons indicates that syngenetic mineralization is present on the property. One or both sets of faults may be critical to the passage of hydrothermal fluids, which remobilize and concentrate economic minerals in this type of terrane.

A suite of samples should be collected from parts of outcrops lacking strong sulphide mineralization, and they should be analysed for major elements, in order to delineated and characterize the alteration.

Prospecting should be extended into areas not covered by the present report- wherever a gossan (rusty patch of outcrop) is encountered it should be analysed for gold and base metals. More work should be done in the southeast part of the claim group, which was not covered in this survey.

Quartz veins are abundant in zones of cataclasis exposed along the creek. Although no mineralization was seen, it is recommended that some hand stripping and sampling be done in these areas. This also applies to the northeast corner of claim 1165519, where there are several well-mineralized outcrops.

### **Personnel and Qualifications**

John Morgan holds a Ph.D. from the University of Toronto and a B.Sc. in Earth Science from the University of Waterloo. He has been involved in exploration-related mapping for ten years.

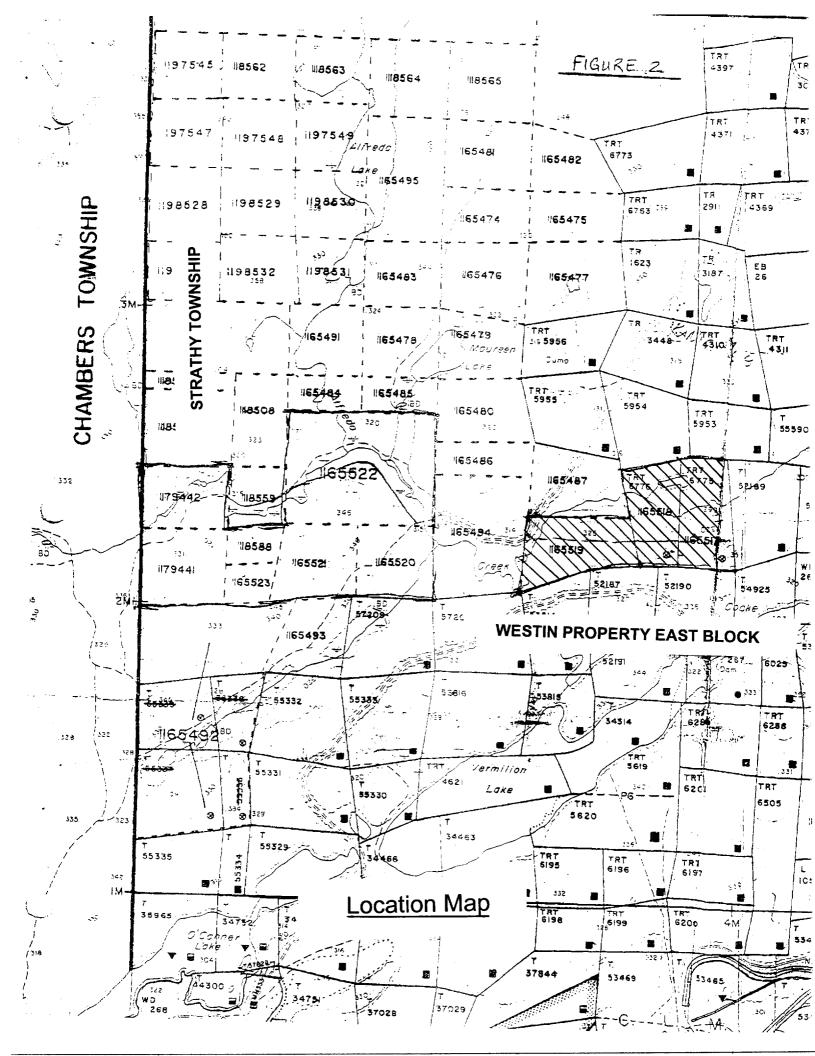
Xiangdong Wang, a recent graduate with a Ph.D. from Lund University (Sweden), has worked for several years in exploration and research in China and elsewhere.

### References

Bennett, G. 1978: Geology of the Northeast Temagami aera. OGS Report 163.

Ewanchuk, J. and B.A. Westin, 1994: OPAP Report for J. Ewanchuk- Report on Activities for (a) Strathy project; (b) EMS project.

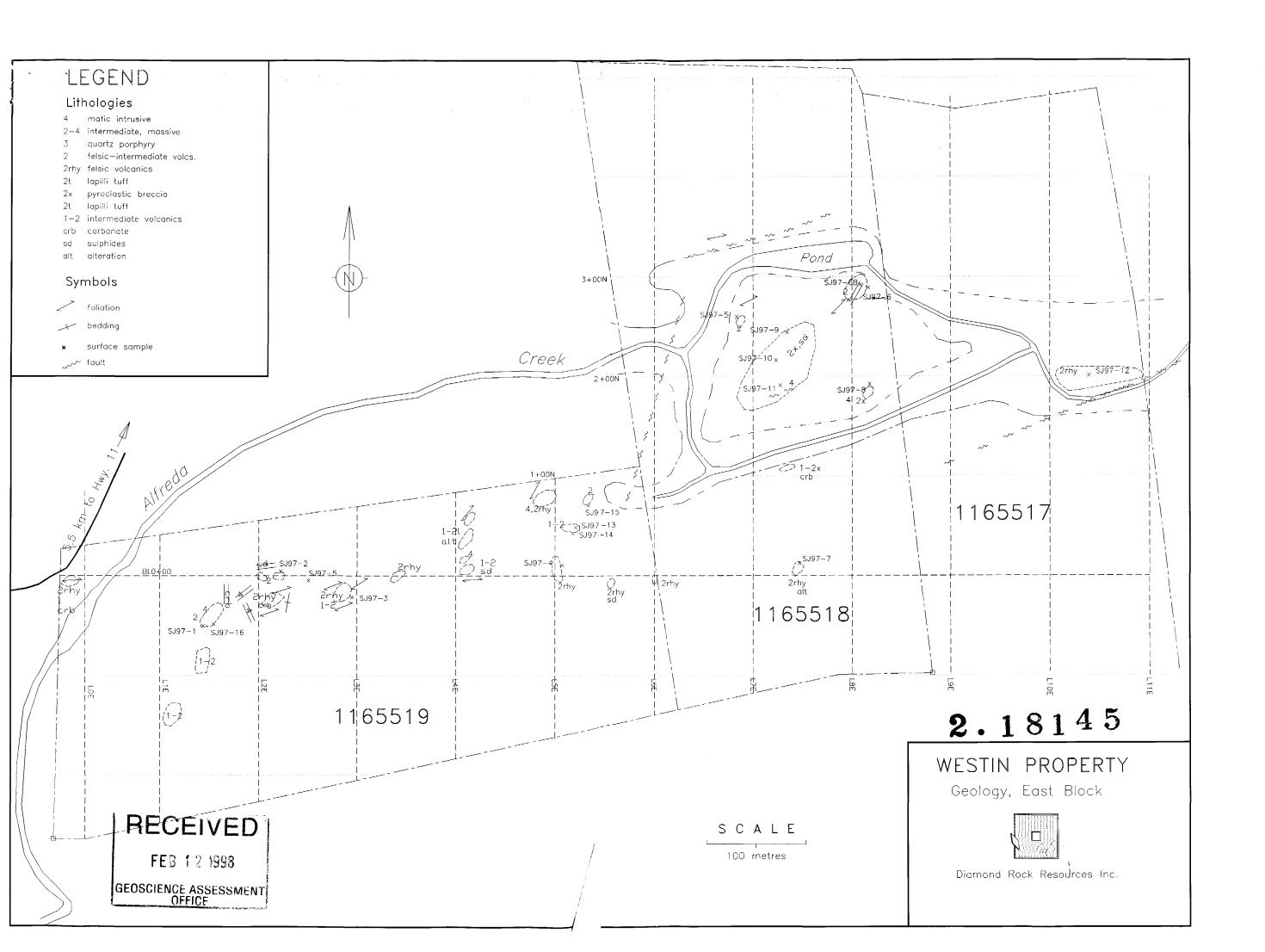
Westin, B.A. 1993: Report on exploration activities performed under OPAP 1992-93, Strathy Township.



## Sample Table

### WESTIN PROPERTY EAST BLOCK

Sample #	Au(ppb)	Cu(ppm)	Description
SJ97-1	937	104	felsic-intermediate volcanics
SJ97-2	117	62	sulphide layer in volcanics
SJ97-3	12	140	felsic volcanics
SJ97-4	24	16	felsic volcanics
SJ97-5	9	18	felsic volcanics
SJ97-6	7	30	altered felsic volcanics, quartz eyes abundant
SJ97-6B	0	30	quartz porphyry dyke/sill
SJ97-7	3	22	felsic volcanics, strongly deformed
SJ97-8	9	12	felsic-intermediate pyroclastics
SJ97-9	7	10	pyroclastic breccia, coarse sulphide
SJ97-10	9	50	pyroclastic breccia, coarse sulphide
SJ97-11	7	1220	sheared mafic dyke
SJ97-12	3	18	felsic volcanics, nodular sulphide
SJ97-13	12	68	intermediate-mafic volcanics
SJ97-14	1136.5	50	intermediate-mafic volcanics
SJ97-15	7	12	intermediate-felsic volcanics
SJ97-16	72	48	nodular sulphide





# Swastika Laboratories

A Division of TSL/Assayers Inc.

Established 1928

Assaying - Consulting - Representation

### Geochemical Analysis Certificate

7W-2931-RG1

Company:

DIAMOND ROCK RESOURCES INC

Date: JUL-25-97

Project:

Attn:

R. Saikeley

We hereby certify the following Geochemical Analysis of 22 Rock samples submitted JUL-21-97 by .

Sample Number	Au PPB	Au Check PPB	Cu P <b>PM</b>	
SJ-97-1	1089	994	104	
SJ-97-2	117	-	62	
SJ -97 -3	12	•	140	
SJ -97 -4	24	•	16	
SJ - 97 - 5	9	-	18	
SJ-97-6	7	_	30	RECEIVED
SJ-97-6-B	Ni l	-	22	- CEIVED
SJ -97 -7	3	-	12	RECEIVE
SJ-97-8	9	•	138	1009
\$J-97-9	7	-	10	MAY 2 1998
SJ -97 - 10	9	-	50	GEOSCIENCE ASSESSMENT
SJ-97-11	7	-	1220	O E O SCIENCE AGE
SJ-97-12	3	-	18	GEOOG OFFICE
SJ-97-13	12	~	68	
SJ-97-14	1135	1138	50	
SJ-97-15	7		12	
SJ-97-16	72		48	

One assay ton portion used.

Certified by\_

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GEOSCIENCE ASSESSMENT OFFICE

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### Statement of Costs

2.18145

Time- cumulative time including commuting time-

equals 5 field days (2 geologists on site) between July 2 & July 8/97

+ 3.4 days in office plotting and writing

Total Time = 11.5 man-days = \$3450

Assays \$550

Camp and Vehicle Costs = \$1000.00

Total Cost = \$5000.00

Field Log

1997-07-02 AM XW,AH

Go to town, pick up water, gas in jerry cans, supplies

1997-07-02 PM JM, XW, AH

Go to Strathy to get oriented; muffler of car damaged

1997-07-03 AM

JM, XW, AH Check to see who can repair muffler

1997-07-04 XW,AH

Map in Wmost claim of Strathy E block.

1997-07-05 JM, XW

Map N half of Wmost claim, Strathy E

1997-07-06 AM+PM XW.AH

Fix flat tire on car; map short day due to rain

1997-07-07 JM, XW, AH

Map in Strathy

1997-07-08 JM, XW

Last day mapping Strathy E block.

1997-11-24 work on report

1997-12-10 work on report

1998-01-14 work on report

RECEIVED

FEB 1 2 1998

GEOSCIENCE ASSESSMENT

Ministry of Northern Development and Mines Ministère du Développement du Nord et des Mines

May 21, 1998

BJARNE ANTON WESTIN PO BOX 932 NEW LISKEARD, ONTARIO POJ 1P0



Geoscience Assessment Office 933 Ramsey Lake Road 6th Floor Sudbury, Ontario P3E 6B5

Telephone: (888) 415-9846 Fax: (705) 670-5881

Visit our website at: www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Dear Sir or Madam:

Submission Number: 2.18145

Status

**Subject: Transaction Number(s):** 

W9870.00019 Approval After Notice

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Lucille Jerome by e-mail at jeromel2@epo.gov.on.ca or by telephone at (705) 670-5858.

Yours sincerely,

**ORIGINAL SIGNED BY** 

**Blair Kite** 

Supervisor, Geoscience Assessment Office

- Ha

**Mining Lands Section** 

### **Work Report Assessment Results**

Submission Number:

2.18145

Date Correspondence Sent: May 21, 1998

Assessor:Lucille Jerome

**Transaction** 

First Claim

Number Number

Township(s) / Area(s)

Status

**Approval Date** 

W9870.00019

1165517

**STRATHY** 

Approval After Notice

May 21, 1998

Section:

12 Geological GEOL

The revisions outlined in the Notice dated May 08, 1998, have been corrected. Accordingly, assessment work credit has been approved as outlined on the Declaration of Assessment Work Form accompanying this submission.

**Correspondence to:** 

Resident Geologist

Sudbury, ON

**Assessment Files Library** 

Sudbury, ON

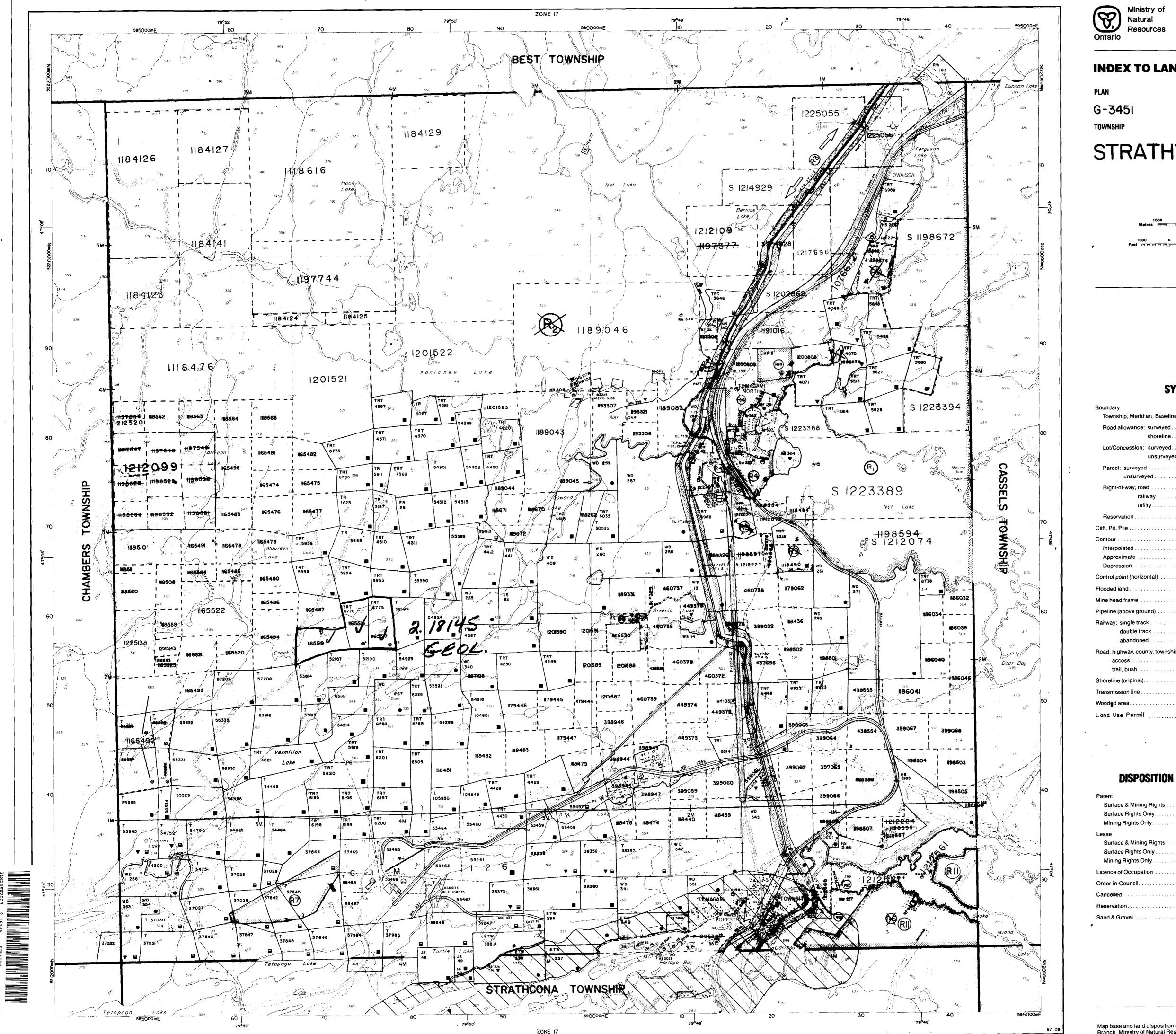
Recorded Holder(s) and/or Agent(s):

John Morgan

OTTAWA, ONTARIO, CANADA

BJARNE ANTON WESTIN

NEW LISKEARD, ONTARIO





Northern Development and Mines

PUT INTO SERVICE MARCH 23 1994

## **INDEX TO LAND DISPOSITION**

**SYMBOLS** 

G-3451

STRATHY

M.N.R. ADMINISTRATIVE DISTRICT

**TEMAGAMI** MINING DIVISION SUDBURY

**NIPISSING** 

LAND TITLES/REGISTRY DIVISION

DATE OF ISSUE MAY 2 1 1998 PROVINCIAL RECURDING OFFICE - SUDBURY

### **AREAS WITHDRAWN FROM DISPOSITION**

MRO - Mining Rights Only

SRO - Surface Rights Only

NOTICE RECEIVED 92/JAN/06

8 SEC.35/90 W-S 30 /94 April 15/94 M S 8 19660 \$EC.35/90 O-S-18/95 AUG,II/95 M S 95150

63 -SEC.35/80 W 8 70/94 OR -MAY 27, 1004 - M 8 8

SEC.35/90 0-3-31/94 AUG,11/94 MAS 195150 \$EC.35/90 W<sub>-5</sub>-32/95 JUNE 1/95 M 8 5 195150 W-3-77/98 09/13/86 RIII SEC.35/90 W-5-15/98 APR.16/96 M 8 5 195150

Pending Disposition MNR Not Open For Staking

RB Pending Disposition MNR Not Open For Staking 3EC,35/90 W-8-60/96 09/13/96 M & 3 195150

THIS TOWNSHIP FALLS WITHIN THE TEMAGAMI COMPREHENSIVE PLANING AREA. SPEACIAL WORKING CONDITIONS MAY APPLY TO EXPLORATION ACTIVITIES. FOR MORE DETAILS PLEASE CONTACT: DISTRICT MANAGER, NORTH BAY DISTRICT MINISTRY, NATURAL RESOURSES

## **DISPOSITION OF CROWN LANDS**

Surface & Mining Rights Surface Rights Only Mining Rights Only. Surface & Mining Right: Surface Rights Only Mining Rights Only Licence of Occupation Order-in-Council Cancelled

## NOTES

ISLAND 27 BELONGS WITH STRATHCONA TWP. (SLANDS in LAKE TEMAGAMI - NOT OPEN FOR STAKING SFC.35/90- 1-2-44-85 03/05/35 M & 5 )95/50 W-S-72/96 09/3/96 # JUNE I, 1994 OPENINGS ONTARIO GAZETTE-VGL.127-20 MAY 14, 1994 PAGE 1579

SKYLINE RESERVE AREA DEEMED IN NEED OF PROTECTION BY THE CROWN AND WILL REMAIN

# LAKE TEMAGAMI (14)

LAND COVERED BY THE WATERS OF LAKE TEMAGAMI IS WITHDRAWN FROM PROSPECTING AND STAKING OUT

WITHDRAWN

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MIN-ING CLAIMS SHOULD CON-SULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOP-MENT AND MINES, FOR AD-DITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

Map base and land disposition drafting by Surveys and Mapping Branch, Ministry of Natural Resources.

The disposition of land, location of lot fabric and parcel boundaries on this index was compiled for administrative purposes only.