

52F05SW2005 2.18811 DOGPAW LAKE

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GOLD SUN PROPERTY

ORIENTATION SOIL GEOCHEMICAL AND VLF-EM SURVEY

for

LANDIS MINING CORPORATION

RECEIVED SEP - 7 1988 GEOSCH NOL ASSESSMENT

Douglas P. Parker

September 3, 1998





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APPENDIX I: Assay Certificates

MAPS IN BACK POCKET (1:2500 scale):

MAP	1	Soil	Geochemical	Survey

MAP 2 VLF-EM Survey

INTRODUCTION

The Gold Sun Property is located 84 kilometres northwest of Fort Francis, 68 kilometres southeast of Kenora and is underlain by rocks of the Wabigoon subprovince part of the Superior structural province of the Canadian Shield.

The Gold Sun Property and surrounding area host numerous significant occurrences, deposits and past producers of gold.

The rationale of the project was to conduct a limited soil geochemical and VLF-EM survey in order to establish the effectiveness of the surveys in identifying and delineating gold bearing structures on the property.

LOCATION

The project is located 84 kilometres northwest of Fort Francis, 68 kilometres southeast of Kenora, on the northwest shore of Emm Bay on Kakagi (Crow) Lake (Fig 1).

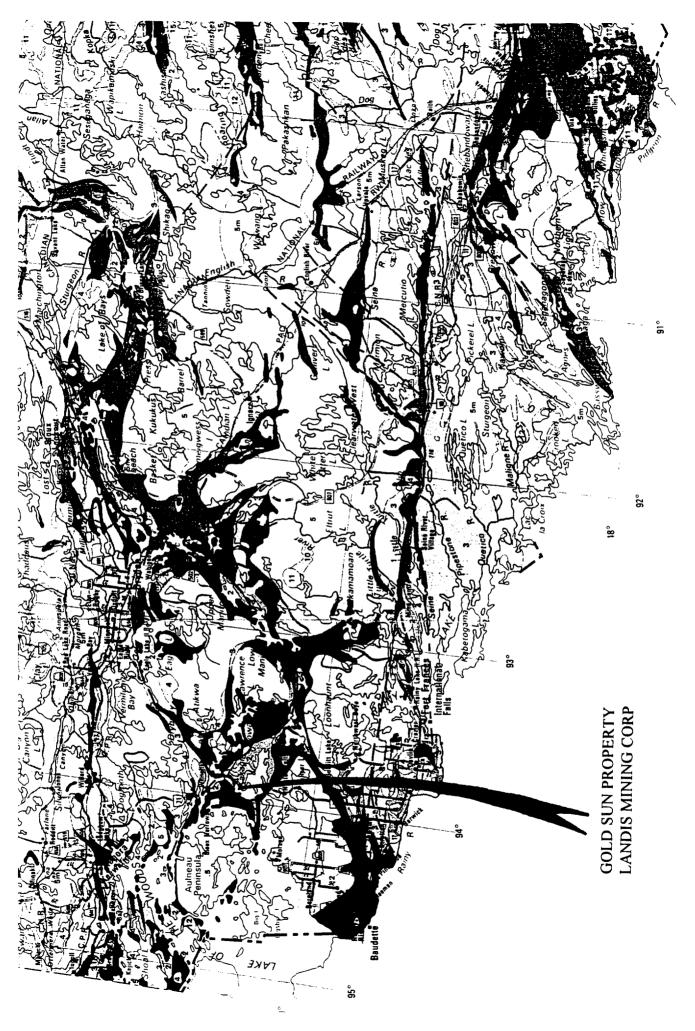
Claim Map Sheet: G-2613 Dogpaw Lake Area, Kenora Division NTS: 52F/5SW Lat. and Long.: 93° 55'W 49° 18' 15"N

ACCESS

The project area is accessed by traveling on Highway 71, a north-south link between Kenora and Fort Francis, to Nester Falls. Several tourist camps and a public government dock are located on Kakagi Lake a few kilometres north of the town of Nester Falls.

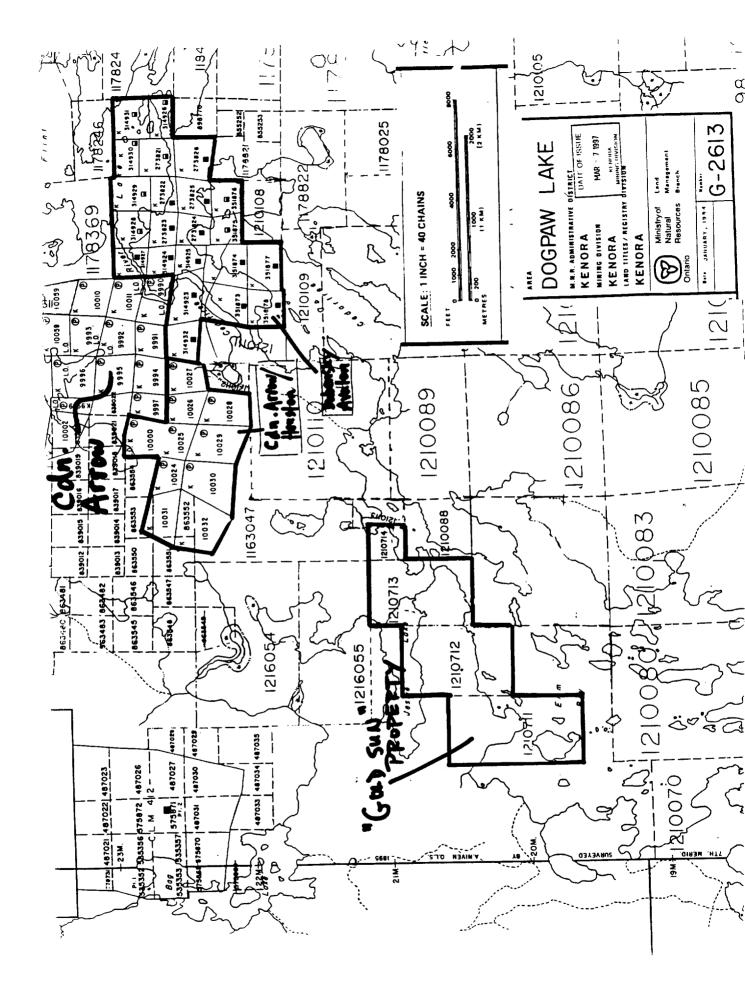
PROPERTY

The property consists of 4 contiguous unpatented mining claims (21 units, 840 acres) recorded in the Dogpaw Lake Area of the Kenora Mining Division as follows (Fig 2): K1210711, K1210712, K1210713 and K1210714



Scale 1:100000

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PREVIOUS WORK

Lavigne (1997) describes the exploration history of the area. The Dogpaw Lake area has been prospected and mined for gold since the late 1800's. This activity peaked several times, including at the turn of the century, in the 1940's, the mid 80's and 1997. In the 1980's, Nuinsco Resources Ltd. outlined a gold deposit at Cameron Lake, 15 kilometres to the east, that contains 4.3MT grading 4.0 g/t Au. In March of 1997, Houston Lake Mining Inc. announced that they had intersected 8 metres grading 36.44 g/t Au at their Canadian Arrow Property, and Avalon Ventures Ltd. announced that they had intersected 46.4 feet grading 0.742 opt Au on their Dubenski Property. Both these properties are only 3 kilometres to the northeast of the Gold Sun Property.

The earliest activity at the "Gold Sun" property was documented by J.A. Bow in the Ontario Bureau of Mines Report for 1900. A personal communication with the site manager tells of two adits, 45 and 70 feet deep being driven that year. In 1944, this area was staked by J.P. Williams and N.S. Caswell and optioned to Sylvanite Gold Mines. At this time, 8 diamond drill holes, chip sampling in the longest adit and in trenches was carried out. In 1982, an area covering the southern half of the property was optioned from B. Perry by Bigstone Minerals who in turn optioned the property to INCO. INCO conducted ground geophysical surveys, released an airborne survey flown in 1958, conducted sampling and diamond drilling. In 1984, Proteus Resources Inc. optioned from B. Perry what is the northern half of the current "Gold Sun" Property, tied to the northern boundary of the property being explored by INCO. Exploration activities consisted of an airborne geophysical survey, geological mapping, prospecting, trenching and diamond drilling. Based on a claim map included with Proteus' 1986 assessment report of work, they optioned from B. Perry the property that had been optioned to INCO.

In 1997 and 1998, reconnaissance sampling of the property was undertaken by Landis Mining Corp. which reported significant gold values up to 4.7 g Au/t within sheared and hydrothermally altered mafic volcanics associated with a felsic dyke along a 333 metre strike length. This zone was named the Porphyry Zone by Lavigne.

CURRENT STUDY:

From August 26 to 28 an orientation soil geochemical and VLF-EM survey was undertaken on a flagged grid at the north end of the Gold Sun Property.

The flagged grid consisted of 2.5 kilometers of 100 metre spaced lines oriented @ 330^o along an 700 metre baseline oriented @ 060^o with flagged stations at 25 metre intervals.

VLF EM surveys were conducted over 1.65 kilometres on the western part of the grid. Ray Koivisto of Thunder Bay conducted the survey. Survey data is plotted at 1:2500 scale on Map #2. Instrumentation and survey procedures are described in the appendix.

88 soil samples were collected by the author and were analyzed for Au by FA with AA finish by Chemex Labs of Thunder Bay. The soil sampled was typically humus which frequently contained variable amounts of 'B' horizon silt and sand as well as minor rock chip fragments from the underlying bedrock.

The soil sampling was hindered by a lack of well developed soil horizons. Humus was by far the most extensive soil present with 'B' horizon being present at about 25% of the sites. The soil was typically very shallow 1-5 centimetres and often it was not possible to take humus without some of the 'B' horizon being included in the sample. In many cases small rock fragments were present in the soil as a result of the highly fractured nature of the bedrock surface. Attempts were made to remove rock fragments from the samples utilizing a coarse sieve at the laboratory.

RESULTS

The VLF-EM survey indicates the presence of numerous conductors. Good correlation exists with conductors at 7W 1+25N, 6W 1+15N, 5W 0+90N and 3W 0+70N and the extension of the mineralization exposed in trenches 2, 3 and 4 of the Porphyry Zone.

The humus survey resolved a zone of anomalous gold across all six lines traversed. The gold in humus anomaly corresponds closely to the inferred position of the Porphyry Zone. Of 22 anomalous assays (1-58 ppb Au), 14 directly correspond to the Porphyry Zone and half of these assays exceeded 10ppb Au. Only eight anomalous assays were returned away from the Porphyry Zone, five of these were 1 ppb Au and one exceeded 10 ppbAu. Examination of assay results from an intensive sampling program by Proteus (1985) revealed that of 404 rock samples assayed, only 24 returned results >0.5 g Au/t (0.65-16.66 g Au/t). All of these 24 anomalous samples fall within a well defined narrow linear corridor 3.2 kilometres in strike length which traverses the entire length of the property. Proteus' Trenches 2, 3, 4 and 7 and the Porphyry Zone, as defined by Lavigne, occur within this mineralized corridor. Proteus drilled 13 holes along a 2.2 kilometre strike length of this mineralized zone and intersected values up to 91.9 g Au/t but typically elevated gold values (<1g Au/t) commonly in multiple zones along the length of the zone. For simplicity this entire zone will be referred to as the Porphyry Zone. The Porphyry Zone is hosted by mafic volcanics which commonly display brecciation and shearing. Shearing orientations as measured by Proteus indicate a strike of 060-075° with steep to moderate southeasterly dips and bedding indicated on OGS Map 2319 is 060° and vertical. Felsic porphyritic dykes and peridotite have been identified along the length of the zone. Alteration accompanying the gold mineralization includes ankerite, calcite, pyrite, hematite, chlorite and silicification. The Porphyry Zone is 300 metres northwest and parallel to the gold bearing green carbonate zone that has been the focus of previous exploration programs. The high grade gold mineralization identified on the Dubenski Property is along the strike extension of the Porphyry Zone only 4.6 kilometres to the northeast (062°).

CONCLUSIONS AND RECOMMENDATIONS

It appears that significant gold mineralization in this area occurs in regional northeast structures with extensive strike lengths. Two such structures have been identified on the Gold Sun Property.

Previous work indicates that significant gold mineralization occurs along the identified 3.2 kilometre strike length of the Porphyry Zone.

The VLF-EM survey was successful in resolving the extension of the Porphyry Zone on three, possibly four, out of six of the lines traversed.

The soil geochemical survey successfully resolved the Porphyry Zone on all six lines traversed.

A similar program of VLF-EM and humus geochemistry should be undertaken along the southwesternmost 2 kilometres of the Porphyry Zone which has received little previous exploration. This would provide a rapid and economic evaluation of the zone and would potentially identify priority targets for further exploration. APPENDIX I

Assay Certificates

THE 09.49 FAL 7970106

09/02/98 6:01PM CHEMEX LABS VAX-FAX2 PHONE: 604-984-0221 FROM ; CHEMEX LABS. LTD. , VANCOUVER

TO : LANDIS MINING CORPORATION ATTENTION : C/O CHEMEX LABS THUNDERBAY UDRKORDER : A9829502 PROJECT :

PRELIMINARY DATA ONLY !!

SAMPLE	3993
DESCRIPTION	Au ppb
1_7W ~ 4+00N	<1
END OF DATA	

09/03/98 THU 09:49 FAX 7970106 FROM : CHEMEX LABS LTD., VANCOLVER PHONE: 604-984-0221

TO : LANDIS MINING CORPORATION ATTENTION : C/O CHEMEX LABS THUNDERBAY WORKORDER : A9829502 PROJECT :

PRELIMINARY DATA ONLY !!

SAMPLE		3993	
DESCRIPTION		Au ppb	
L5W - 2+25N		ια μμυ ε1	
L5W - 2+50N		<1	
L5W - 2+75N		1	
L5U = 2+75N			
		<1	•
LGW - 0+255 LGW - 0+00		· <1	
L6⊔ 0+25N		<1	
		<1	
L6W - 0+50N		<1	
L6W - 0+75N		14	
L6W - 1+00N	7	58	-
L611- 1+25N		۲۱	•
L6W - 1+50N		1	
L611 - 1+75N		1	
L6W - 2+00N		<1	
L611 - 2+25N		<1	
L6Ш - 2+50N		<1	
L6W - 2+75N		<1	
L6W - 3+00N		۲۱	
L6W - 3+25N		<1	
16W - 3+50N		۲ ،	
1_761 - 1+00S		<1	
L7W - 0+75S		<1	
L7W - 0+50S		c1	
L7W - 0+25S		· <1	
L7W - D+QQ		<1	
L7W - 0+25N		<1	
L7W – O+50N		č1	
L7W - 0+75N		36	
L7W - 1+00N		1	
L7ຟ - 1+25N		<1	•
L7⊍ - 1+50N		<1	
L7W - 1+75N		<1	
L7W - 2+00N		<1	
L7⊎ - 2+25N		<1	
L7⊌ 2+50N		<1	
L7W ~ 2+75N		< 1	
L7Ш - 3+00N		ς1	
L7W - 3+25N		<1	
L7W - 3+50N		۲۱	
L7W - 3+75N		2	
		—	

09/03/98 THU 09:48 FAX 7970106 Chemex Labs Thunder Bay 09/02/98 6:00PM CHEMEX LABS VAX-FAX2 FROM : CHEMEX LABS LTD., VANCOUVER PHONE: 604-984-0221
TD : LANDIS MINING CORPORATION ATTENTION : C/O CHEMEX LABS THUNDERBAY
ATTN: DAVID BURKETT FAX: DOUG PARKER
LORKORDER : A9829502 PROJECT :
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~)
-> PRELIMINARY DATA ONLY !! *** Samples are being analyzed for: Au ppb EXT-AA

	•		
••	•	- ···	
SAMPLE	3993		
DESCRIPTION	Au ppb		
LOW - 1+005	د1	,	
LOW - 0+75S	3		
10W - 0+505	1 <1		
LOW - 0+25S LOW - 0+00	32		
LOW - 0+25N	32		
LOW - 0+50N	د <u>1</u>		
L1W - 1+005	<1		
L1W - 0+755	<1		
L1W - 0+50S	· <1		
L1W - 0+255	· <1		
L1W - 0+00	1		
L111 - 0+25N L111 - 0+50N	۲۱ ۲۱		
L1W - 0+75N	<1		
L1W - 1+00N			
L2W - 1+255	· <1	•	
L2ຟ - 1+00S	4		
L2W - 0+755	<1		
L2W - 0+50S	1		
L2W - 0+255	<1		
L2W - 0+00 L2W - 0+25N	<1 22		
L2W - 0+25N	22 4		
L2W - 0+75N	27		
L2W - 1+00N	1		
L2W - 1+25N	<1		
L2W - 1+50N	<1		
L5W - 0+75S	1	-	
L5W - 0+50S	. (1		
L511 - 0+25\$ L511 - 0+00	14 <1		
L5W - 0+25N	<1		
L5W - 0+50N	د1		
1.5W - 0+75N	, 2		
L5W - 1+00N	<1 <1	•	
LSU - 1+25N	<1		
L5Ш - 1+50N	<1		
L5W - 1+75N L5W - 2≁00N	<1 <1		
L5W - 2 ≁00N	C I		

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STATEMENT OF QUALIFICATIONS

I, Douglas P. Parker do hereby certify:

I am a resident of 365 Lark Street, Thunder Bay, Ontario, P7B 1P4.

I am a graduate of Lakehead University, Thunder Bay, Ontario (HBSc Geology 1985).

I have been employed as an exploration geologist for government and industry since 1985.

I am a member in good standing of the Canadian Institute of Mining and Metallurgy and the Northwestern Ontario Prospectors Association.

I have not received nor do I expect to receive any direct or indirect interest in the company or its properties.

Douglas P. Parker

EDTEN

and Mines Performed on I	Assessment Files Research Ir
of s rev	65(2) and 66(3), R.S.O. 1990 subsections 65(2) and 66(3) of the Mining Act. Under section 8 view the assessment work and correspond with the mining land l ecorder, Ministry of Northern Development and Mines, 6th ecording a claim, use form 0240.
1. Recorded holder(s) (Attach a list if necessary) Name GEORGE STANKEY Address 92 PENFORD ST.	Client Number 197195 Telephone Number (807) 344 - 4923
THUNDER BAY, ON P7A-3K2 Name	Fax Number
Address	Telephone Number Fax Number
2. Type of work performed: Check () and report on only Geotechnical: prospecting, surveys, assays and work under section 18 (regs) Work Type GEOCHEMICAL SURVEY SURVEY	cal: drilling, stripping, ning and associated assays
Dates Work Performed From 25 08 98 To 03 09 09 Global Positioning System Data (if available) Month Year Day Month Year Day Month Month	Work Claimed #4229 98 Vear NTS Reference E Mining Division Resident Geologist District
Please remember to: - obtain a work permit from the Ministry o - provide proper notice to surface rights h - complete and attach a Statement of Cos - provide a map showing contiguous mini - include two copies of your technical rep	nolders before starting work; sts, form 0210 Finked for assigning work; nort. 0 1990 ADM
3. Person or companies who prepared the technical report Name Douglas P. TAPKER	t (Attach a Red Science Assessment)
365 LARK ST THUDER BAY D	2 (807) 345-3860 Telephone Number
Address Address Address	Fax Number Telephone Number Fax Number
forth in this Declaration of Assessment Work having caused the	
or after its completion and, to the best of my knowledge, the and Signature of Becorded Holder or Agent Agent's Address 365 CARK ST THUDER BAY	Image: minexed report is true. Date SEP 4/92 Telephone Number (807) 345-3760 ION

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (aujoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous Pik must accompany this form.

work wa mining column	Claim Number. Or if as done on other eligible land, show in this the location number d on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of wor to be distributed at a future date.
eg	TB 7827	16 ha	\$26, 825	N/A	\$24,000	\$2,825
eg	1234567	12	0	\$24,000	0	0
eg	1234568	2	\$ 8, 892	\$ 4,000	0	\$4,892
1	K1210711	8	ø	2429.00	ø	ø
2	K1210712	6	ø	1800.00	Ø	ø
3	K1210713	6	2429.00	ø	2429.00	ø
4	K1210714	1	1800.00	ø	1800.00	ø
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
		Column Totals	\$4229.00	\$4229.00	\$4229.00	ø

I, <u>LOUGAS</u> <u>(Print Full Name)</u>, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signeture of Recorded Helder or Agent Authorized in Writing	Date	
	0	11 10-
	1 JEP	7/98
	1001	1110

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (\sim) in the boxes below to show how you wish to prioritize the deletion of credits:

1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.

2. Credits are to be cut back starting with the claims listed last, working backwards; or

3. Credits are to be cut back equally over all claims listed in this declaration; or

4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only		, ·
Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining R	lecorder (Signature)
0241 (02/96)		

Untario

Northern Development and Mines

for Assessment Credit

Fansaction Humber toilice use 00 10

Personal Information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontarlo, P3E 6B5.

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilo- metres of grid line, number of samples, etc.	Cost Per Unit	Total Cost
Sr. Geologist	6 days	\$275./day	1650.00
supervision (field	, 	l (
and report)			
Sr. Technician	3 days	\$ 175./day	525.00.
Assays	81 minus	\$ 14./ea.	1127.00.
		•	
Associated Costs (e.g. supplies,	mobilization and demobilization).		
_ Boat rental, f	-ield supplies		265.00.
_ (flagging, bags,	tagel report	(FD)	
binding	RECEI	VED	
J	SEP - 8	1998	
	GEOSCIENCE A	SSESSMENT	
Transpo	rtation Costs		
Pickup truck	1115km.	\$0.35/km	390.25
		,	
	d Lodging Costs		
Bullmoose hodge, 1 all meals	lestor Falls +		272.00
all mea(s			
	Total Value of	Assessment Work	4229.25.

Calculations of Filing Discounts:

- 1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work. 2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total
- Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK	× 0.50 =	Total \$ value of worked claimed.

Note:

- Work older than 5 years is not eligible for credit.

- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs;

I, Doccas 1. 14 (please print full name)) RKER, do he	ereby certify, that t	the amounts shown	are as accur	ate as may
reasonably be determined and th	e costs were incur	red while conducti	ng assessment wor	k on the lands	indicated on
the accompanying Declaration of	Work form as	AGEA corded holder, agent, or at) late company position with a	igning authority)	am authorized
to make this certification.	ي. الأحراب الم	881)		
		Signature			u/ap

Ministry of Northern Development and Mines

October 16, 1998

GEORGE STANKEY 92 PENFOLD ST. THUNDER BAY, Ontario P7A-3K2 Ministère du Développement du Nord et des Mines 🐨 Ontario

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

Telephone: (888) 415-9846 Fax: (877) 670-1555

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

Dear Sir or Madam:

Subject: Transaction Number(s):

Submission Number: 2.18811

Status W9810.00119 Deemed Approval

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 Bruce Gates by e-mail at gatesb2@epo.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,

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ORIGINAL SIGNED BY Blair Kite Supervisor, Geoscience Assessment Office Mining Lands Section

Work Report Assessment Results

Date Correspondence Sent: October 16, 1998		Assessor:Bruce Gates			
Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date	
W9810.00119	1210713	DOGPAW LAKE	Deemed Approval	October 16, 1998	
13 Geochemical (14 Geophysical V					
Correspondence to:		Recorded Holder(s) and/or Agent(s):			
Resident Geologist			Douglas P. Parker		
Kenora, ON		THUNDER BAY, ONTARIO			
Assessment Files Library		GEORGE STANKEY			
Assessment Files	Library		GLONGE STANKE	I	

