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N.T.S. 32D04, 31M13

**REPORT ON
PROSPECTING TRAVERSES
SMITH LAKE PROPERTY:
BOSTON CREEK AREA
LARDER LAKE MINING DIVISION
BOSTON AND PACAUD TOWNSHIPS, ONTARIO**

**By: ROBERT DILLMAN
MOUNT BRYDGES, ONTARIO**

December 23, 2021

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Summary

This report summarizes the results of two prospecting traverses on the Smith Lake Property in Pacaud and Boston Townships. The traverses were completed in two days on June 5, 2020 and June 14, 2021 by property owners: Dr. Jim Renaud and author, Robert Dillman. A total of 1.2 km was traversed using a GPS and compass to calculate distance and navigation. The areas prospected are situated west of Smith Lake, on claims 557287 and 557288, cells 32D04D301 and 32D04D302 and south of Smith Lake, on claim 568162, cell 32D04D346.

Two traverses were initiated to explore historic pits, trenches and mineral occurrences reported on the property. On the first traverse in the northwest section of the property, many trenches were found west of the property boundary on patented ground. No trenches were found on the property and only one outcrop was located during the traverse. As a result, no rock samples were collected in the area. During the second traverse, 4 rock samples were collected in the vicinity to a pit located in the southeast section of the property. Assay results were low, the highest being 0.021 ppm Au. A sample of quartz with minor pyrrhotite taken from debris by the pit reacted to Dimethylglyoxime powder but returned only 22.4 ppm Ni upon assay. Additional prospecting is required to determine the merit and mineral potential of the property.

Location and Access

The Smith Lake Property is situated in Boston Creek area of the Larder Lake Mining Division, Ontario. The property is located approximately 15 kilometres south of the town of Kirkland Lake (Figure 1). The property straddles the township boundary between Boston and Pacaud townships.

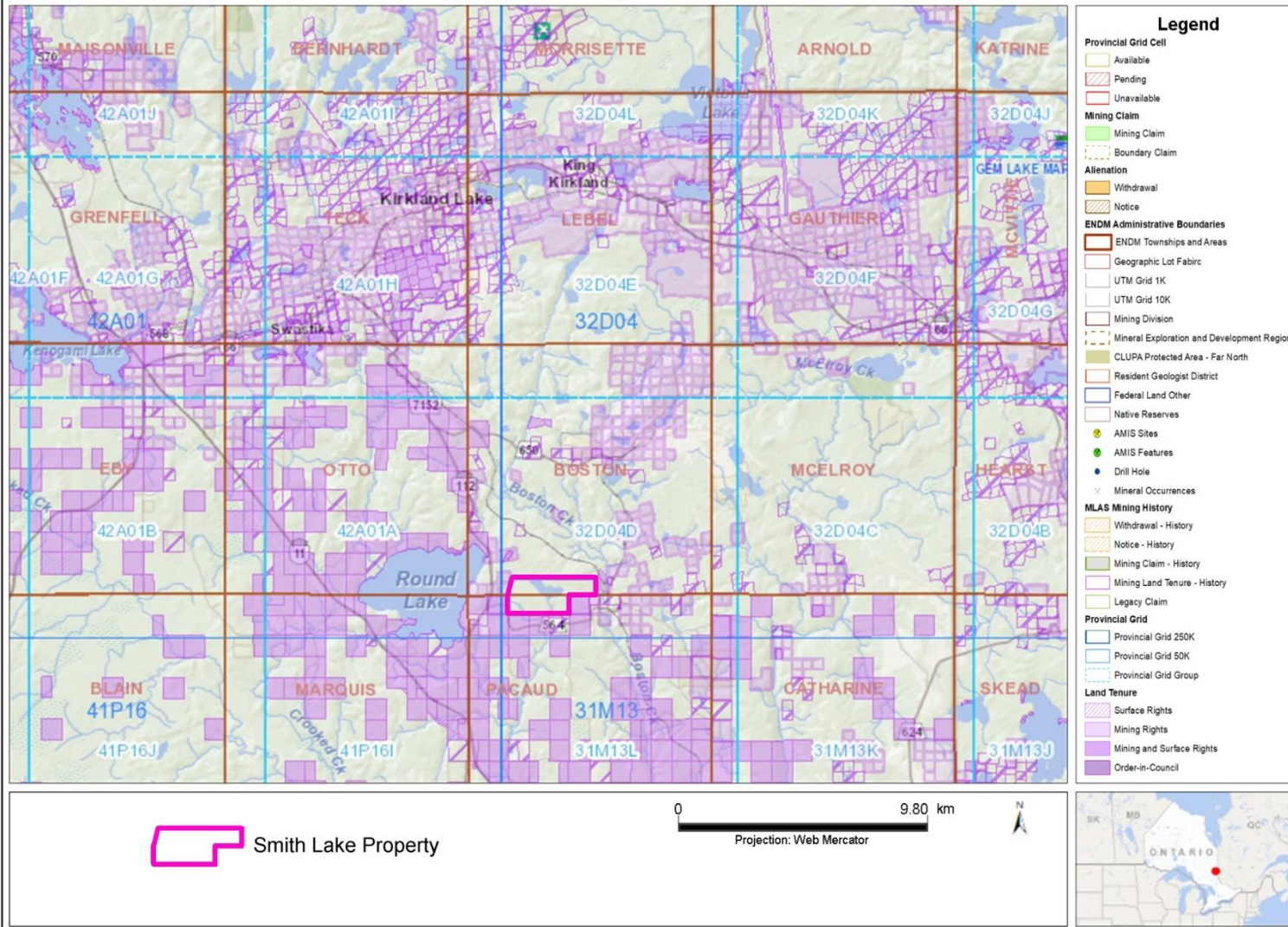
The property is accessible by truck and ATV. From the town of Kirkland Lake, the property can be reached by travelling 14 km south on Highway 112 to the intersection with provincial road 564. Turn east on road 564 towards Boston Creek. The Smith Lake Property boundary is situated on the east side of the road at the “big bend” 0.9 km from the intersection with highway 112.

Several non-maintained logging roads provide good access to various regions of the property.



Figure 1.
Property Location Map
Smith Lake Property

Notes:



Claim Logistics and Location of Work

The Smith Lake Property consists of 22 mining claim cells. The property covers an approximate area of 406 hectares (Figure 2).

All claims comprising the Smith Lake Property are held by Jim Renaud of London, Ontario and the author, Robert Dillman of Mount Brydges, Ontario.

Areas on the property where traverses were conducted are shown in Figure 5 and Figure 6. These areas include:

June 5, 2020	Claim 557287, cell 32D04D301
	Claim 557288, cell 32D04D302
June 14, 2021	Claim 568162, cell 32D04D346

Land Status and Topography

The Smith Lake Property is situated entirely on Crown Land. The property is uninhabited. There are no buildings or habitats. Approximately 500 metres south of the property, there is an electrical powerline following provincial road 564. There is an active rail line situated 150 metres northeast of the property.

It is evident sections of the property have been logged within the last 2 decades but to the extent is unknown. Trees within areas recently logged such as in the southeast section consist of medium sized spruce, balsam and poplar. In the northwest section, trees are more mature and consist of spruce, balsam, poplar, birch and hemlock. Uncut forest consisting of large spruce, balsam and poplar trees border streams, ponds and lakes. Alders grow in wet and lower areas.

The property is at a mean elevation ranging 305 to 310 metres above sea level. Most of the property has gentle relief with rounded hills ranging up to 10 metres in height. There are no large hills. The most significant topographic feature is Smith Lake which is situated roughly in the center of the property and is at the lowest elevation of 302 metres above sea level.

Outcrop exposure in many sections of the property is good. Outcrops are abundant in higher elevations and variable exposures in lower elevations. Overburden is generally shallow and consists of glacial till deposited by a glacier moving northwest to southeast. In the northwest section of the property there are sand deposits from glacial outwash and possibly an extension of a sand and gravel deposit situated 600 metres to the north.



MINISTRY OF ENERGY, NORTHERN
DEVELOPMENT AND MINES
MLAS Map Viewer

Figure 2.
Claim Map
Smith Lake Property

Notes: **Boston &
Pacaud Townships
Ontario**



Legend

- Provincial Grid Cell**
 - Available
 - Pending
 - Unavailable
- Mining Claim**
 - Mining Claim
 - Boundary Claim
- Alienation**
 - Withdrawal
 - Notice
- ENDM Administrative Boundaries**
 - ENDM Townships and Areas
 - Geographic Lot Fabric
 - UTM Grid 1K
 - UTM Grid 10K
 - Mining Division
 - Mineral Exploration and Development Region
 - CLUPA Protected Area - Far North
 - Resident Geologist District
 - Federal Land Other
 - Native Reserves
- AMIS Sites**
 - AMIS Sites
 - AMIS Features
 - Drill Hole
 - Mineral Occurrences
- MLAS Mining History**
 - Withdrawal - History
 - Notice - History
 - Mining Claim - History
 - Mining Land Tenure - History
 - Legacy Claim
- Provincial Grid**
 - Provincial Grid 250K
 - Provincial Grid 50K
 - Provincial Grid Group
- Land Tenure**
 - Surface Rights
 - Mining Rights
 - Mining and Surface Rights
 - Order-in-Council

● Location of Traverses



Regional and Local Geology

The Smith Lake Property is located in the Boston Creek area of Abitibi Greenstone Belt. The rocks are Archean in age and consist of metavolcanic, metasedimentary and intrusive rocks.

The Smith Lake Property is mostly underlain by compositionally banded rocks consisting of cherty quartzites and pillowed to flowed mafic metavolcanic rocks of the Pacaud Structural Complex which lie in contact with the north section of the Round Lake Batholith. These units generally strike east – west and dip vertical to steeply north. In the Smith Lake area, units of the Pacaud Structural Complex transition to pillowed and mafic metavolcanic flows of the Wawbewawa Formation. Rock units in the vicinity of Smith Lake trend northeast to southwest and dip vertical to steeply north or south. Diorite and peridotite have intruded rock units in the vicinity of Smith Lake. Syenite dikes are abundant south of the lake. Porphyry dikes occur in outcrops in the north section of the property. North trending diabase dikes also occur on the property.

The property lies between north trending structures associated with the Long Lake Fault to the west and close to northwest trending structures associated with the Pacaud Fault situated to the east. In the north central region of the property, there is extensive carbonate alteration and shearing with associated quartz veins and stringers. Shearing and alteration is especially prevalent in the vicinity of Smith Lake where the Pacaud Structural Complex transitions to the Wawbewawa Formation.

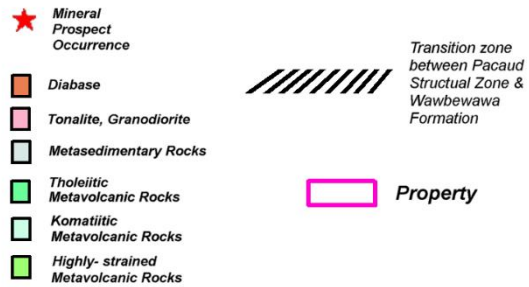
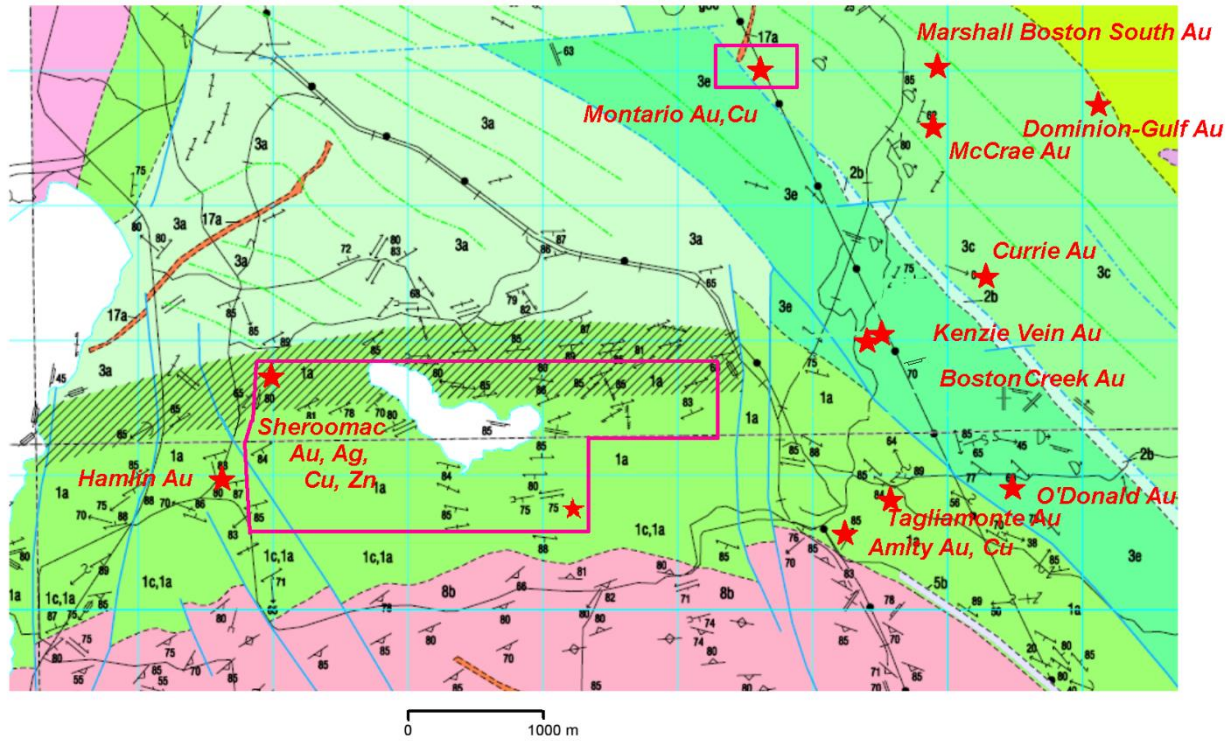
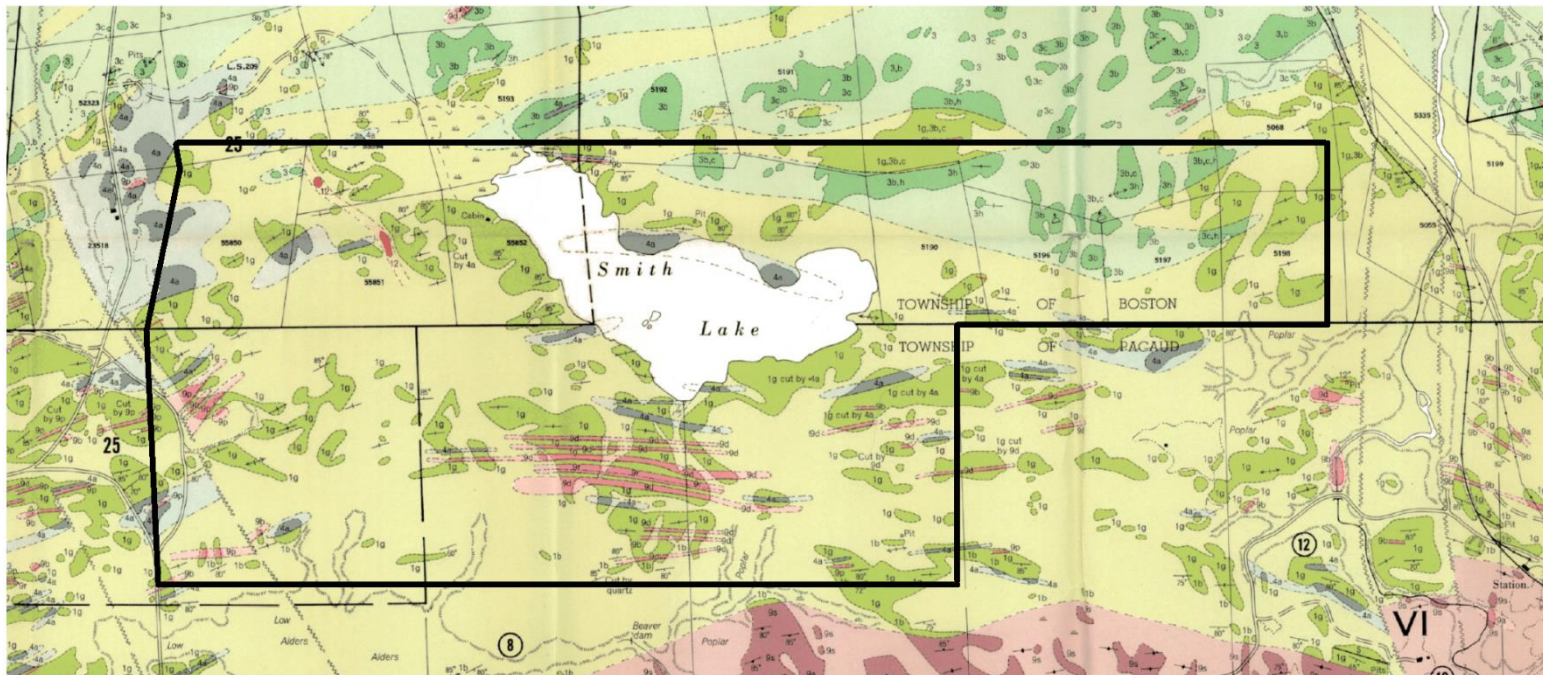


Figure 3. Regional Geology
 Boston & Pacaud Townships, Ontario
 OGS MAP: 2628



- | | |
|----|------------------------------|
| 12 | Diabase |
| 9 | Intrusive Units |
| | d granite |
| | p quartz - feldspar porphyry |
| | r felsite |
| | b syenite |
| 4 | Diorite |
| 3 | Mafic Metavolcanic Rocks |
| | b pillowed to andesite flows |
| | c gabbroic flows |
| | h tuff |
| 1 | Intermediate to Felsic Rocks |
| | a porphyritic andesite |
| | b dacite |

0 500m

Figure 4.
Geology of Smith Lake Property
Boston & Pacaud Townships, Ontario
ODM MAP: m1957 - 4

History of Exploration

In 1914, the first gold discovery in Boston Twp. was made at the “Kenzie Vein” located approximately 2 km’s east of the Smith Lake Property. Over the years, there have been numerous discoveries of gold in Boston and Pacaud townships and production has occurred at several locations (Figure 3). Copper and iron have also been mined in the area.

In 1953, the Sheromac Mining Corporation Limited held patents and claims in the southwest section of Boston and Pacaud township, some of which are now partially covered by the Smith Lake Property. Gold, copper, silver and zinc discoveries are reported in several localities on the Sheromac property including MDI MDI32D04SW00245 suggesting Au-Cu-Ag-Zn mineralization occurs in the northwest corner of the property. Also in this area, a rusty shear zone intruded by syenite and quartz and mineralized with pyrite is reported to strike S.80°E for 150 feet along the west side of Smith Lake. Additional occurrences of gold, silver and copper are reported southwest of the Smith Lake Property including the Hamelin occurrence .

In 1971, G.J. Geregthy completed a ground magnetometer survey over a claim on the west end of Smith Lake. The survey was preformed for L.A. Waddell who held the claim on behalf of Hudson Bay Mines Limited. The survey focused on an airborne magnetic anomaly shown under the lake on aeromagnetic map 47G, NTS 32 D/4, Larder Lake Sheet. Old pits and stripped areas from previous work were noted during survey. A hole was drilled under Smith Lake which intersected peridotite and syenite dikes. A 0.2 foot section assayed 0.06% Cu and 0.10% Ni.

In 1982 and 1983, Shiningtree Gold Resources Incorporated completed ground magnetometer and VLF surveys over their claim blocks. Grid G partially covered the Smith Lake area.

In 1984, the Canadian Nickel Company Limited optioned 181 claims from Shiningtree Gold Resources Incorporated in Boston and Pacaud townships. Part of this claim block extended through the Smith Lake area. Work by Canadian Nickel included: geological mapping, rock sampling, I.P. surveys and diamond drilling. No significant results are reported in the Smith Lake area.

In 2008, 6398651 Canada Inc. sampled till in various areas north of Smith Lake and identified kimberlite indicator minerals and gold grains in some of the areas. A heavy mineral concentrated derived from a till sample taken on the north side of Smith Lake is reported to have assayed 696 ppb Au.

Survey Dates and Personnel

Field work for this report was completed in 2 days: June 5, 2020 and June 14, 2021. The traverses were completed by: Jim Renaud of London, Ontario and author, Robert Dillman of Mount Brydges, Ontario.

Survey Logistics

Two prospecting traverses were initiated to investigate two separate areas of mineralization reported on the property. The first traverse focused on an area of Au-Cu-Ag-Zn mineralization reported as the “Sheroomac Occurrence” and shown to be in the northwest corner of the property in the Mineral Deposit Inventory (MDI). The second traverse focused on relocating a pit shown to be in the southeast section of the property on ODM Map 1951-4 (Figure 4). The traverses are plotted at a scale of 1 : 5,000 in Figure’s 5 & 6. A total of 1.2 km was traversed.

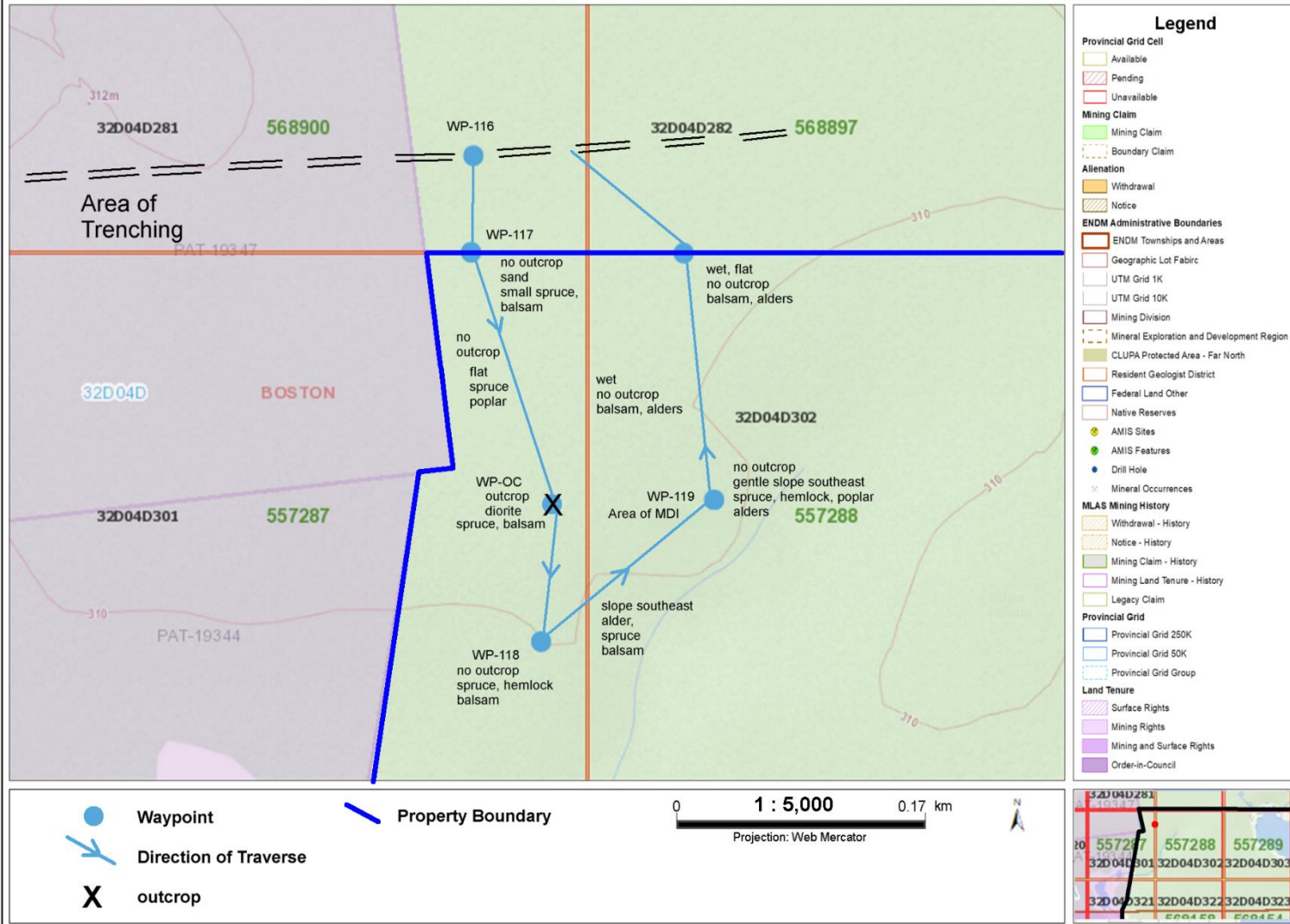
A compass and GPS were used to navigate. A Garmin RINO 750 model was used for the June 5, 2020 traverse. A Garmin GPS model GPSMAP 66st were used to navigate during the June 14, 2021 traverse. A CAT S42 Smartphone equipped with MapInfo Discovery software was also used during the second traverse. The GPS and CAT S42 were set to NAD83, Zone 17. Waypoints were periodically recorded during each traverse and are listed in Table 1.

Four rock samples have been collected on the property. All the samples were taken during the traverse on June 14, 2021. The rock samples were delivered to AGAT Laboratory for analyses. The lab is in Mississauga, Ontario. All samples were Fire Assayed for gold using a 50 gram charge and finished by Inductively Coupled Plasma – Optical Emission Spectroscopy (ICP-OES) to measure the gold concentration. In addition, one sample was assayed for 45 elements by Aqua Regia Digestion and ICP-OES to measure the 45 elements. An assay certificate from the lab is appended to this report.

Rock sample locations, descriptions and assay results are presented in Table 1 .

Figure 5.
June 5, 2020 Traverse

Notes: Smith Lake Property
Boston & Pacaud Twp.'s
Ontario



- Waypoint
- Direction of Traverse
- X** outcrop
- Property Boundary

0 1 : 5,000 0.17 km
Projection: Web Mercator

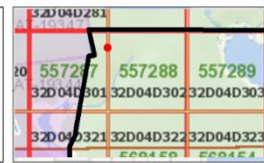


Figure 6.
June 14, 2021 Traverse

Notes: Smith Lake Property
Boston & Pacaud Twp.'s
Ontario

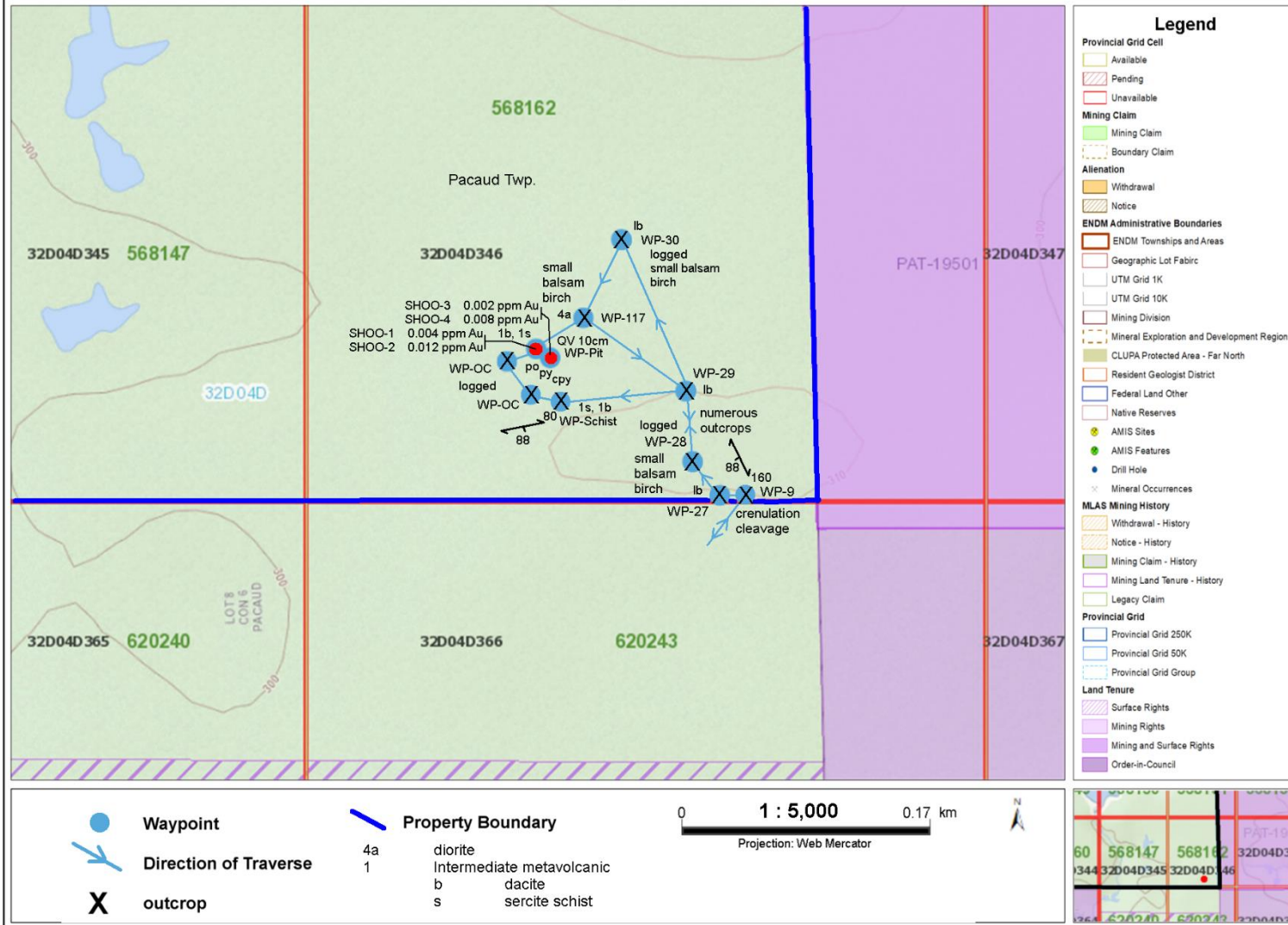
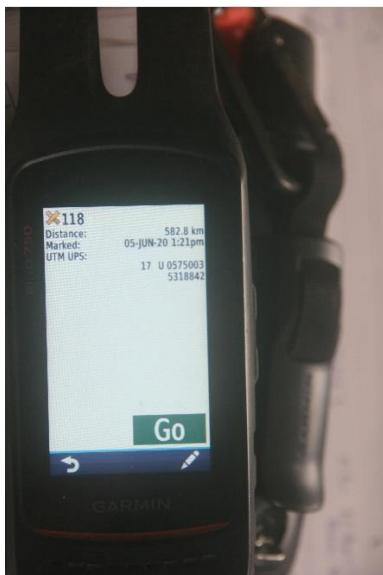


Table 1. Waypoint & Rock Sample Locations, NAD 83 Zone 17

Waypoint	Easting	Northing	Claim Cell	Rock Sample Number	Assays Gold ppm	Notes
117	574950	5319105	557287 32D04D301			Property boundary, flat, no outcrop, sand, small spruce & balsam
OC	575007	5318897	557287 32D04D301			Gabbro/ diorite
118	575003	5318842	557287 32D04D301			Gentle slope southeast to creek, no outcrop, spruce, balsam, poplar.
119	575118	5318941	557288 32D04D302			Flat to gentle slope southeast to creek, no outcrop, spruce, balsam, poplar, hemlock. Area of MDI32D04SW00245
120	575113	5319109	557288 32D04D302			Property boundary, flat, no outcrop, wet, alders, spruce & balsam
Schist 80°, 88°S	577085	5317810	568162 32D04D346			Sericite schist strike 80°, dip 88°S
OC	577066	5317814	568162 32D04D346			Silicified metavolcanic
OC	577050	5317836	568162 32D04D346			Silicified metavolcanic
SHOO-1	577069	5317842	568162 32D04D346	SHOO-1	0.004	Debris, Qtz Sericite schist possibly was rhyolite with sugary qtz with anhedral blebs of pyrrhotite
PIT	577070	5317844	568162 32D04D346			1.5 m x 1 m x 0.5 m deep. Debris filled. Loose pieces of sugary quartz with spare pyrrhotite, pyrite and chalcocopyrite. Vein strike? 82°, dip 86°S.
SHOO-2	577075	5317841	568162 32D04D346	SHOO-2	0.012	Debris. Sericite schist with trace pyrrhotite and pyrite
SHOO-3	577079	5317839	568162 32D04D346	SHOO-3	0.002	Trench debris, grey quartz with trace cpy & po, po reaction to Dimethylglyoxime powder, 22.4 ppm Ni
SHOO-4	577080	5317839	568162 32D04D346	SHOO-4	0.008	Trench debris. Banded rhyolite? With trace pyrite
177	577102	5317866	568162 32D04D346			diorite
27	577197	5317748	568162 32D04D346			Silicified metavolcanic, property boundary
28	577178	5317771	568162 32D04D346			Silicified metavolcanic
29	577173	5317818	568162 32D04D346			Silicified metavolcanic
30	577127	5317919	568162 32D04D346			Silicified metavolcanic



WP-118

Survey Results

The June 5, 2020 traverse was conducted on claims 557287 and 557288, cells 32D04D301 and 32D04D302 (Figure 5). The traverse focused on the northwest corner of the property where in 1957, the Sheromac Mining Corporation Limited is believed to have trenched areas of gold, silver, copper and zinc mineralization. Approximately 600 metres were traversed. Several trenches and outcrops were observed on the patented ground to the west of the property. The mineralization appears to strike northeast and trends north of the Smith Lake Property.

The area traversed followed close to the property boundary with the patented ground to the west where trenches were observed. Initially, the traverse started on sandy overburden which appeared to have been bulldozed in the past but now is covered with small spruce and balsam trees. Going south, the overburden changes to forest loam. A small outcrop of diorite was found between the north boundary of the property and the small creek located 300 m to the south. No mineralization was observed, and no rock samples were collected.

The June 14, 2021 traverse was initiated to investigate a pit shown on ODM Map 1957-4 and projected to be in southeast corner of the property in cell 32D04D346, claim 568162. The property boundary is approximately 380 metres north of road 564 and can only be accessed by foot. Approximately 600 metres was traversed on the property.

Numerous outcrops were observed during the traverse. Most outcrops consisted of fine-grained silicified metavolcanic rock shown as dacite on ODM Map 1957-4. Outcrops are weakly schistose, generally trending 80° and dipping steeply south. Sericite occurs where schistosity is stronger. Diorite also occurs in the area.

A small pit was found at 577070mE, 5317844mN (Figure 7) and is believed to be the pit shown on ODM Map 1957-4. The pit is overgrown and measures roughly 1.5 m x 1 m in size and 0.5 m deep. The pit exposes a small, fracture-filling quartz vein in sericite and silicified metavolcanic. The vein has an apparent strike of 82° , dips 86° south. It measures approximately 10 cm wide and can be traced at least 10 metres in outcrop and rubble from excavation along strike. The quartz is white, sucrosic and only sparsely mineralized with pyrrhotite, chalcopyrite and pyrite. Very fine pyrite and small clots of pyrrhotite and chalcopyrite occur in the wallrock adjacent to the vein. Potassic alteration and silicification occur in the wallrock adjacent to the vein. No other mineralization or veining was found in outcrops proximal to the pit.



Pit 577070mE, 5317844mN cell 32D04D346



SHOO-1



SHOO-2

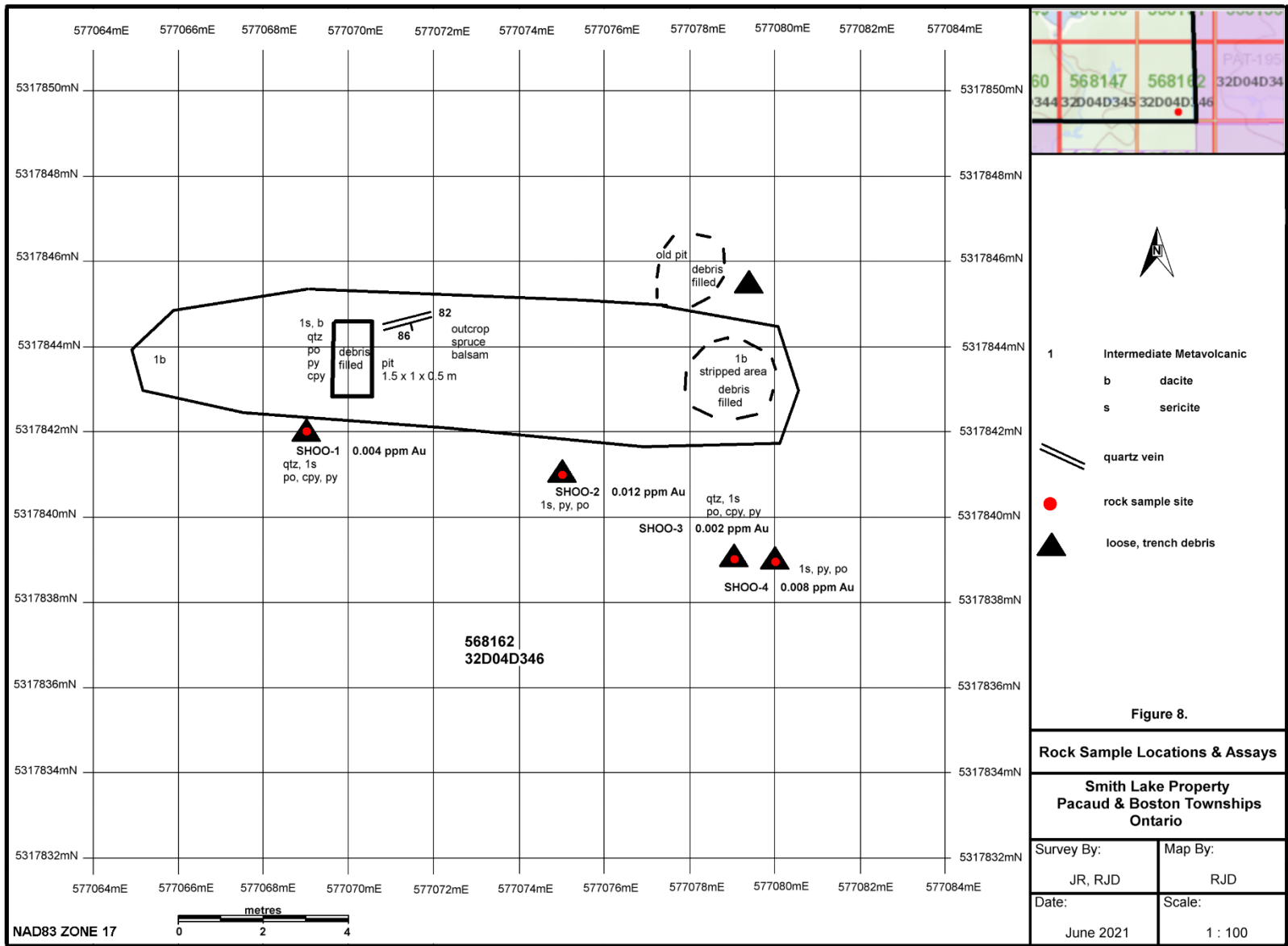


SHOO-3



SHOO-4

Figure 7. Pit and Rock Samples



Four rock samples were collected around the pit and assayed for gold. Unfortunately, assays were low, the best being 0.012 ppm Au in sample SHOO-2 which consisted of grey sericite with very fine pyrite and pyrrhotite. A 1cm bleb of pyrrhotite in SHOO-3 reacted to Dimethylglyoxime powder (nickel test powder) but only returned 22.4 ppm Ni upon a multi-element assay.

Discussion of Results

No mineralization of merit was found during the two traverses on the property. The MDI marking the Sheromac occurrence is possibly in the wrong area and maybe referring to the area of trenching on the patented ground to the west. Additional prospecting in the area is necessary to confirm this.

The pit in the southeast corner is close and on strike from an airborne EM conductor situated on patented ground to the east. The mineralization observed in the pit could be associated with the conductor. Additional prospecting in the area is necessary to explore this possibility.


Conclusions and Recommendations

The Smith Lake Property has favorable geology for the discovery of new zones of gold mineralization. In most areas, outcrop exposure is good and additional exploration is warranted. Geological mapping and prospecting are recommended over the entire property.

An estimated cost for the surveys is \$55,000. A budget for the proposed work is:

Geological mapping & prospecting	\$50,000
Rock Assays	<u>5,000</u>
	\$55,000

Respectfully Submitted,


Robert James Dillman P.Geol.
Arjadee Prospecting



Robert Dillman B.Sc. P.Geol.
December 23, 2021

References

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6398651 Canada Inc. 20005017
- Forbes, C. P. 1983.** Report on Magnetometer Surveys and VLF Electromagnetic Surveys, From December 1982 to April 1983. Completed on "The West Group". Boston and Pacaud Township's. *For:* Shiningtree Gold Resources Inc. Unpublished assessment report: 32D04SW0314
- Gereghy, G. J. 1971.** Unpublished assessment report for: Magnetometer Survey. Smith Lake. *For:* Lloyd Waddell, Hudson Bay Mines Limited. 32D0SW0357
- Manson, W. O., 1984.** Geological, Geochemical and Diamond Drilling. Report On Canico-Shiningtree Resources Joint Venture, Boston and Pacaud Townships, Ontario. Larder Lake Mining Division. N.T.S. 32-D-4
Dates: May 27 - September 15, 1984. *For:* Canadian Nickel Company Limited. 32D04SW0307
- Ontario Geological Survey, 1957.** AR Vol 66 Pt 5, P41-42, Geology of Boston Twp And Part of Pacaud.
- Waddell, L. A. 1971.** Unpublished assessment report for: Diamond Drilling, Ground Magnetometer and VLF Surveys. Smith Lake Area. 32D04SW0343

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ARJADEE PROSPECTING
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Phone/ fax (519) 264-9278

CERIFICATE of AUTHOR

I, Robert J. Dillman, Professional Geologist, do certify that:

1. I am the President and the holder of a Certificate of Authorization for:

ARJADEE PROSPECTING
8901 Reily Drive, Mount Brydges, Ontario, Canada N0L1W0

2. I graduated in 1991 with a Bachelor of Science Degree in Geology from the University of Western Ontario.

3. I am an active member of:

Professional Geoscientists of Ontario, PGO
Prospectors and Developers Association of Canada, PDAC

4. I have been a licensed Prospector in Ontario since 1984.

5. I have worked continuously as a Professional Geologist for 30 years.

6. Unless stated otherwise, I am responsible for the preparation of all sections of the Assessment Report titled:

REPORT ON PROSPECTING TRAVRSES SMITH LAKE PROPERTY:
BOSTON CREEK AREA LARDER LAKE MINING DIVISION,
BOSTON AND PACAUD TOWNSHIPS, ONTARIO
dated, December 23, 2021

7. I am not aware of any material fact or material change with respect to the subject matter of the Assessment Report that is not contained in the Assessment Report omission to disclose makes the Assessment Report misleading.

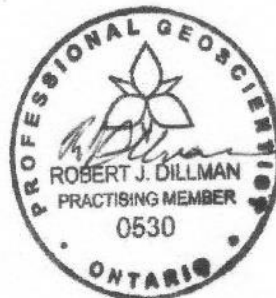
and its

Dated this 23rd day of December, 2021



Robert James Dillman
Arjadee Prospecting

P.Ge





CLIENT NAME: ROBERT DILLMAN
8901 REILY DRIVE
MOUNT BRYDGES, ON N0L 1W0
519-264-9278

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

PROJECT:

AGAT WORK ORDER: 21T767121

SOLID ANALYSIS REVIEWED BY: Jing Xiao, Data Reviewer

DATE REPORTED: Aug 04, 2021

PAGES (INCLUDING COVER): 11

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 21T767121

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

(200-) Sample Login Weight

DATE SAMPLED: Jun 27, 2021

DATE RECEIVED: Jun 28, 2021

DATE REPORTED: Aug 04, 2021

SAMPLE TYPE: Rock

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID)	RDL:
	0.005
SHOO-1 (2667971)	2.44
SHOO-2 (2667972)	2.76
SHOO-3 (2667973)	1.74
SHOO-4 (2667974)	3.45

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 21T767121

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

(201-073) Aqua Regia Digest - Metals Package, ICP-OES finish															
DATE SAMPLED: Jun 27, 2021		DATE RECEIVED: Jun 28, 2021					DATE REPORTED: Aug 04, 2021					SAMPLE TYPE: Rock			
	Analyte:	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe
	Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID)	RDL:	0.2	0.01	1	5	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01
SHOO-3 (2667973)		<0.2	1.64	<1	<5	5	<0.5	<1	0.37	<0.5	21	11.2	66.7	75.3	2.58
	Analyte:	Ga	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb
	Unit:	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
Sample ID (AGAT ID)	RDL:	5	1	1	0.01	1	1	0.01	1	0.5	0.01	0.5	10	0.5	10
SHOO-3 (2667973)		<5	<1	<1	0.01	11	24	1.02	277	1.3	0.03	22.4	527	22.7	<10
	Analyte:	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Sample ID (AGAT ID)	RDL:	0.01	1	0.5	10	5	0.5	10	10	5	0.01	5	5	0.5	1
SHOO-3 (2667973)		0.34	1	1.7	<10	<5	5.5	<10	<10	<5	0.02	<5	<5	11.2	<1
	Analyte:	Y	Zn	Zr											
	Unit:	ppm	ppm	ppm											
Sample ID (AGAT ID)	RDL:	1	0.5	5											
SHOO-3 (2667973)		5	72.0	<5											

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by *)

Certified By:



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 21T767121

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Jun 27, 2021

DATE RECEIVED: Jun 28, 2021

DATE REPORTED: Aug 04, 2021

SAMPLE TYPE: Rock

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Au	ppm	0.001	
SHOO-1 (2667971)				0.004
SHOO-2 (2667972)				0.012
SHOO-3 (2667973)				0.002
SHOO-4 (2667974)				0.008

Comments: RDL - Reported Detection Limit

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CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

Sieving - % Passing (Crushing)			
DATE SAMPLED: Jun 27, 2021	DATE RECEIVED: Jun 28, 2021	DATE REPORTED: Aug 04, 2021	SAMPLE TYPE: Rock
Analyte: Crush-Pass	Unit: %	RDL: 0.01	
Sample ID (AGAT ID)			
SHOO-1 (2667971)		77.35	

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by *)

Certified By:



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 21T767121
PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

Sieving - % Passing (Pulverizing)			
DATE SAMPLED: Jun 27, 2021	DATE RECEIVED: Jun 28, 2021	DATE REPORTED: Aug 04, 2021	SAMPLE TYPE: Rock
Analyte: Pul-Pass %	Unit: %		
Sample ID (AGAT ID)	RDL: 0.01		
SHOO-1 (2667971)	85.19		

Comments: RDL - Reported Detection Limit
Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by *)

Certified By:



CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

(201-073) Aqua Regia Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				RPD																
	Sample ID	Original	Replicate	RPD																	
Ag	2667973	< 0.2	< 0.2	0.0%																	
Al	2667973	1.64	1.61	1.8%																	
As	2667973	< 1	< 1	0.0%																	
B	2667973	< 5	< 5	0.0%																	
Ba	2667973	5	5	0.0%																	
Be	2667973	< 0.5	< 0.5	0.0%																	
Bi	2667973	< 1	< 1	0.0%																	
Ca	2667973	0.37	0.37	0.0%																	
Cd	2667973	< 0.5	< 0.5	0.0%																	
Ce	2667973	21	21	0.0%																	
Co	2667973	11.2	11.0	1.8%																	
Cr	2667973	66.7	67.3	0.9%																	
Cu	2667973	75.3	73.9	1.9%																	
Fe	2667973	2.58	2.58	0.0%																	
Ga	2667973	< 5	< 5	0.0%																	
Hg	2667973	< 1	< 1	0.0%																	
In	2667973	< 1	< 1	0.0%																	
K	2667973	0.01	0.01	0.0%																	
La	2667973	11	10	9.5%																	
Li	2667973	24	24	0.0%																	
Mg	2667973	1.02	1.00	2.0%																	
Mn	2667973	277	275	0.7%																	
Mo	2667973	1.30	1.13	14.0%																	
Na	2667973	0.03	0.03	0.0%																	
Ni	2667973	22.4	22.1	1.3%																	
P	2667973	527	501	5.1%																	
Pb	2667973	22.7	20.1	12.1%																	
Rb	2667973	< 10	< 10	0.0%																	
S	2667973	0.338	0.332	1.8%																	
Sb	2667973	1	1	0.0%																	
Sc	2667973	1.7	1.7	0.0%																	



CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

Se	2667973	< 10	< 10	0.0%												
Sn	2667973	< 5	< 5	0.0%												
Sr	2667973	5.5	5.5	0.0%												
Ta	2667973	< 10	< 10	0.0%												
Te	2667973	< 10	< 10	0.0%												
Th	2667973	< 5	< 5	0.0%												
Ti	2667973	0.02	0.02	0.0%												
Tl	2667973	< 5	< 5	0.0%												
U	2667973	< 5	< 5	0.0%												
V	2667973	11.2	10.3	8.4%												
W	2667973	< 1	< 1	0.0%												
Y	2667973	5	4	22.2%												
Zn	2667973	72.0	69.5	3.5%												
Zr	2667973	< 5	< 5	0.0%												
(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)																
REPLICATE #1																
Parameter	Sample ID	Original	Replicate	RPD												
Au	2667971	0.004	0.006													



CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

(201-073) Aqua Regia Digest - Metals Package, ICP-OES finish														
CRM #1 (ref.ME-1303)														
Parameter	Expect	Actual	Recovery	Limits										
Ag	152	151	99%	80% - 120%										
Cu	3440	3591	104%	80% - 120%										
Pb	12200	11593	95%	80% - 120%										
Zn	9310	8950	96%	80% - 120%										
(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)														
CRM #1 (ref.GS1P5T)														
Parameter	Expect	Actual	Recovery	Limits										
Au	1.75	1.88	108%	90% - 110%										

Method Summary

CLIENT NAME: ROBERT DILLMAN

AGAT WORK ORDER: 21T767121

PROJECT:

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Al	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
As	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
B	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Ba	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Be	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Bi	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Ca	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Cd	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Ce	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Co	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Cr	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Cu	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Fe	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Ga	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Hg	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
In	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
K	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
La	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Li	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Mg	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Mn	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Mo	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Na	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Ni	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
P	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Pb	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES



Method Summary

CLIENT NAME: ROBERT DILLMAN

AGAT WORK ORDER: 21T767121

PROJECT:

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Rb	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
S	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Sb	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Sc	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Se	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Sn	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Sr	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Ta	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Te	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Th	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Ti	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Tl	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
U	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
V	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
W	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Y	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Zn	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Zr	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Au	MIN-12006, MIN-12004		ICP/OES
Crush-Pass %			BALANCE
Pul-Pass %			BALANCE

June 14 2021 - Traverse Notes

SAMPLES

SampleNo	UTM_X	UTM_Y	Elevation
Shoo-1	577073.4119	5317842.509	300.4
Shoo-3	577076.0176	5317836.99	300.6

STRUCTURE

KeyID	GPSX	GPSY	Elevation
9	-79.96486667	48.00833167	313.4

GEOLOGY OBSERVATIONS

ObservationID	Sampler	Elevation (m)	GPS_X
27	Jim	312.3	-79.96495
28	Jim	311.7	-79.96519833
29	Jim	311.3	-79.965255
30	Jim	314.1	-79.965855

CULTURAL OBSERVATIONS

KEY_ID	Culture	Sampler	Comment
34	Trench	Jim	qtz Sericite schist with sulphides

GPS_X	GPS_Y	Date
-79.96659167	48.00922833	June 14 2021
-79.96655833	48.00917833	June 14 2021

Structure	Strike	Dip
CrenulationCleavage	160	88 SW

GPS_Y	Date	Weather
48.00836167	June 14 2021	Clear
48.00857167	June 14 2021	Clear
48.00899167	June 14 2021	Clear
48.00990667	June 14 2021	Clear

Photo	GPSX	GPSY
C:\Users\Jim\Documents_Ontario\WorkingPlans\DiscoverField\Photos\1623688289300 (1) (1).jpg	-79.96662667	48.00922167

Weather	SampleType	Sampler	Colour	Lithology	Mineralization
Clear	TrenchHighGrade	Jim	Light Grey	Rhyolite	qtz Sericite schi:
Clear	FloatGrab	Jim	Light Grey	Quartz Vein	Chalcopyrite

Comment	UTM_EAST	UTM_NORTH
silicified metavolcanic	577203.3994	5317744.658

Temperature	ObservationType	Colour	Lithology	AltType1	Photo1
26	Outcrop		Metavolcanics		
26			Metavolcanics		
26	Outcrop		Metavolcanics		
26	Outcrop	Grey	Metavolcanics	Silicification	C:\Users\Jim\Documents_Ontar

Elevation (m)	Date	UTM_EAST	UTM_NORTH
302.9	June 14 2021	577070.8062	5317841.809

Description

st possibly was rhyolite with sugary qtz with anhedral blebs of pyrrhotite

boulder next to outcrop

Comment	UTM_EAST	UTM_NORTH
silicified metavolcanic	577197.2	5317748
silicified	577178.4	5317771
silicified	577173.5	5317818
io\WorkingPlans\DiscoverField\Photos\1623686843483	577127.4	5317919