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Abstract

CJP Exploration Inc performed prospecting of the Biron Bay Property on behalf of the option holder Atacama Resources International Inc. The target was to locate the historically identified magnetite skarn. Physical Properties measurements were also performed on the collected material to determine if magnetite was present.

Atacama Resources International Inc.

**Q2343 – Biron Bay Property
Prospecting**

C Jason Ploeger, P.Geol. – January 26, 2019

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1. SURVEY DETAILS

1.1 PROJECT NAME

This project is known as the **Biron Bay Property**.

1.2 CLIENT

Atacama Resources International Inc.

1200 South Pine Island Road
Plantation, Florida
33324

1.3 LOCATION

The Biron Bay Property is located in Anstruther Township approximately 14.5 km north-northwest of Apsley, Ontario. The traverse area covers a portion of cells numbered 198657, 254753, 269858, 147382, 188586 and 182572 located in Anstruther Township and within the Southern Ontario Mining Division of Ontario.

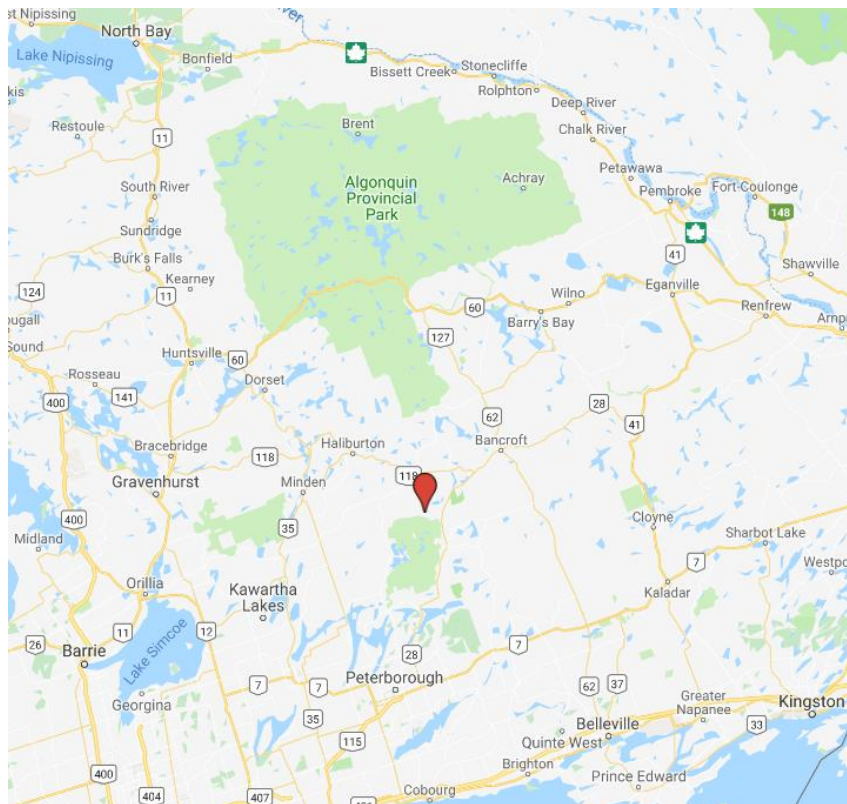


Figure 1: Location of the Biron Bay Property

1.4 ACCESS

Access to the property was attained with a 4x4 truck via the Eels Lake Road. The Eels Lake Road can be found approximately 11.5 kilometers north of Apsley, along highway 28. This Eels Lake Road is travelled for a distance of 6.5 km to the Biron Bay Property.

1.5 SURVEY AREA

An outline of the cells was uploaded to a GPS. The traversed lines were established randomly using a GPS, while staying constrained to the cell fabric.

1.6 REGIONAL GEOLOGY

The general geology is shown on Map 1957b from the Ontario Department of Mines. The property covers part of a belt of limestone rocks about 2/3 of a mile wide, which is surrounded by granitic rocks.

The iron deposit lies within the limestone near the granite contact to the south. It seems likely that it is a contact metamorphic deposit. There may therefore be other iron deposits along the remainder of the limestone-granite contact.

The deposit itself is made up of bands of heavy magnetite from 1 inch to 10 feet in width, contained within an iron-rich zone of limestone. The property is reported to contain a magnetite skarn. Historically the skarn is reported to contain 1.5 million tons of concentrate.

1.7 PREVIOUS WORK

The only reported work on the property occurred in the early 1970's.

Biron Bay Gold Mines

1972-1974

During this period Biron Bay Gold Mines drilled over 20 holes and performed a magnetic survey over the property.

2. SURVEY WORK UNDERTAKEN

2.1 PERSONNEL

Jason Ploeger and Anthony Ploeger both of Larder Lake, Ontario performed the prospecting traverse and collected GPS waypoint data.

2.2 SURVEY SPECIFICATIONS

The main purpose of the prospecting was to investigate areas of outcrop exposure for potential mineralization. The target was a historically reported magnetite skarn. Representative rock samples were collected but not assayed.

3. OVERVIEW OF SURVEY RESULTS

3.1 DAILY LOG

May 30, 2018

Mobilize to Apsley. Locate Biron Bay Property.

May 31, 2018

Perform prospecting traverses.

The road appeared to be the main dividing line between the vegetation. South of the road was generally maple with south of the road being a mixed maple and spruce combination.

June 2, 2018

De-Mobilize to Larder Lake

December 22, 2018

Perform physical property measurements.

3.2 SAMPLE DESCRIPTIONS

Sample 34155

NAD 83

UTM Zone 17

722041E 4971834N

HF 0.0
Mag Sus 0.4 SI
Cond 0.0 Mhos/m

Skarn material with biotite.



Figure 2: Sample 34155 in field

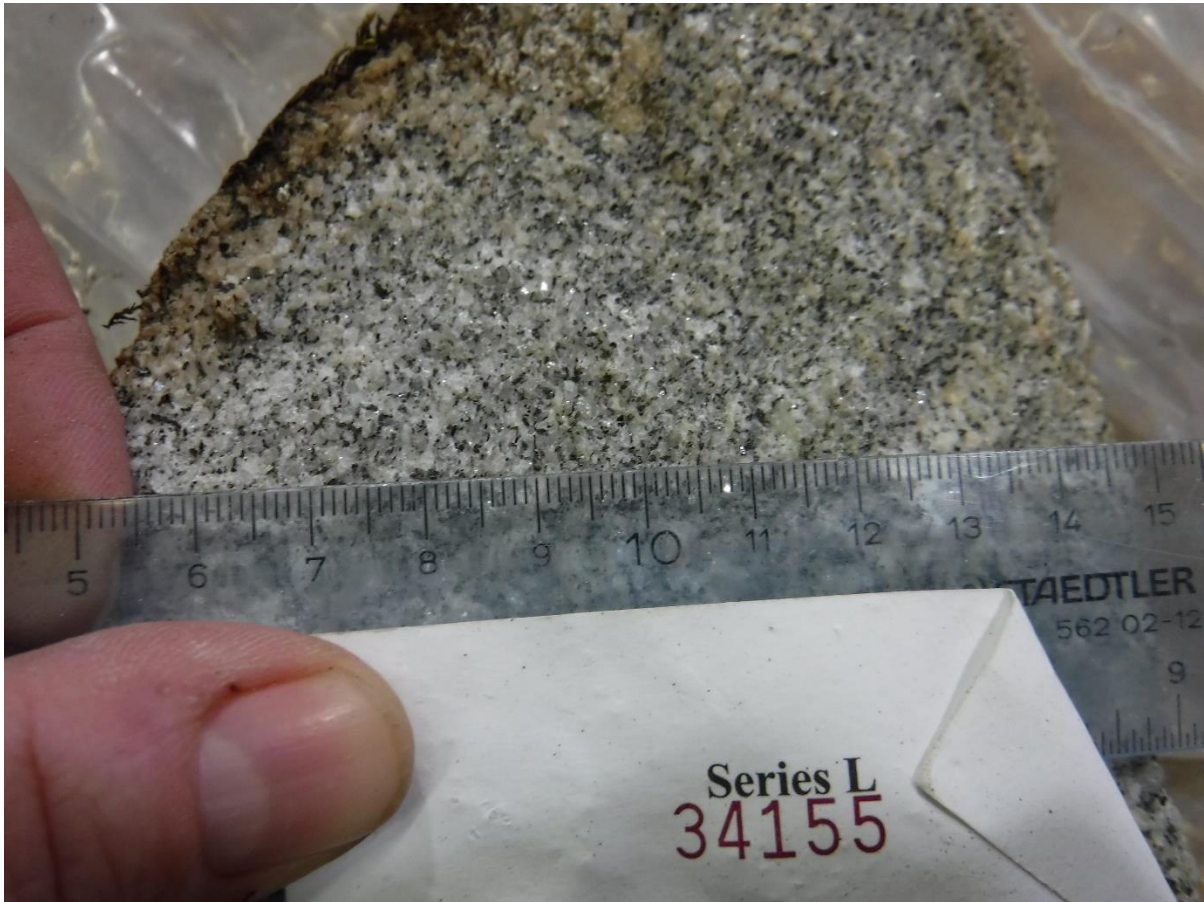


Figure 3: Sample 34155

Sample 34156

NAD 83

UTM Zone 17

722229E 4971832N

HF 0.0

Mag Sus 0.7 SI

Cond 0.0 Mhos/m

Biotite Schist.



Figure 4: Sample 34156 in field

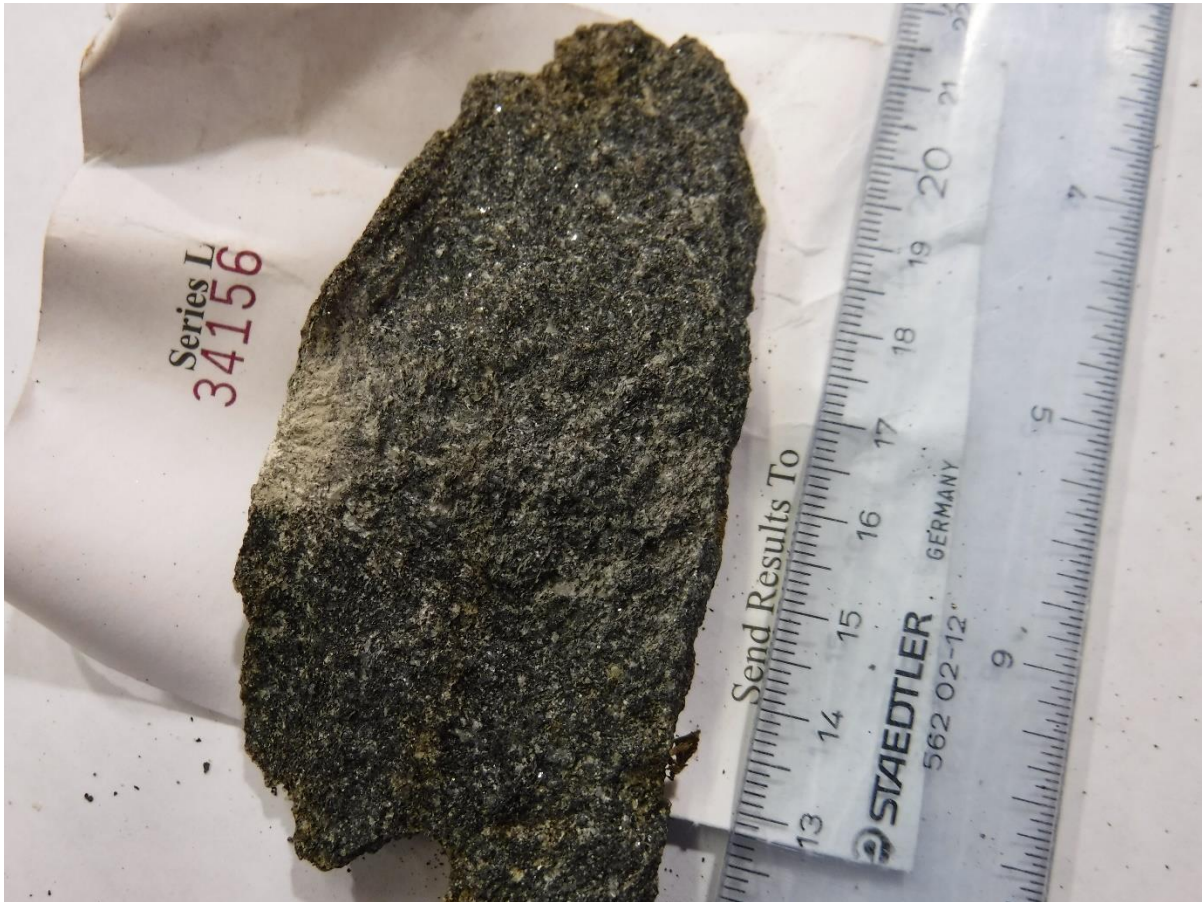


Figure 5: Sample 34156

Sample 34157

NAD 83

UTM Zone 17

722123E 4971858N

HF 0.0

Mag Sus 0.2 SI

Cond 0.0 Mhos/m

Skarn material with biotite.

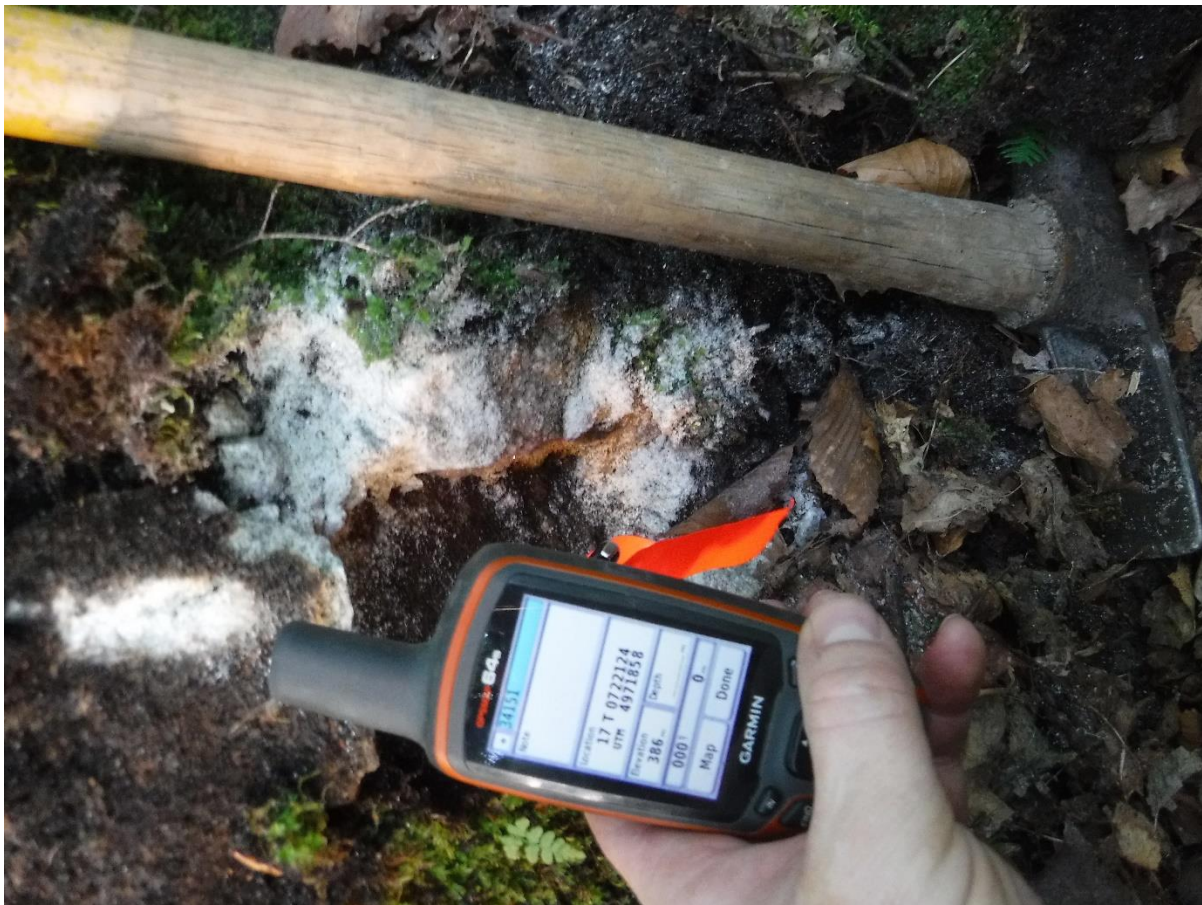


Figure 6: Sample 34157 in field



Figure 7: Sample 34157

Sample 34158

NAD 83

UTM Zone 17

722120E 4971855N

HF 0.0

Mag Sus 0.5 SI

Cond 0.0 Mhos/m

Skarn material with biotite.



Figure 8: Sample 34158 in field

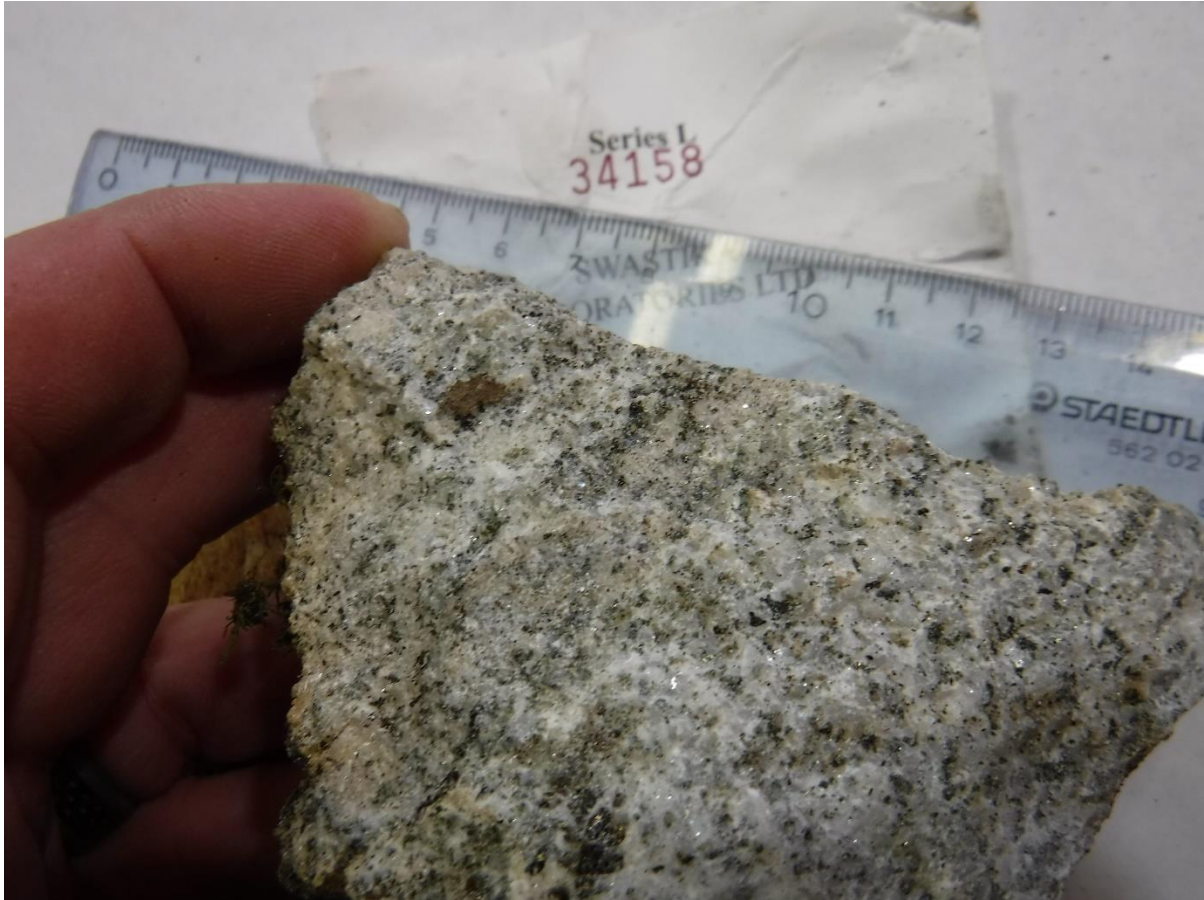


Figure 9: Sample 34158

Sample 34159

NAD 83

UTM Zone 17

722007E 4971775N

HF 0.0

Mag Sus 0.2 SI

Cond 0.0 Mhos/m

Felsic Intrusive.



Figure 10: Sample 34159 in field

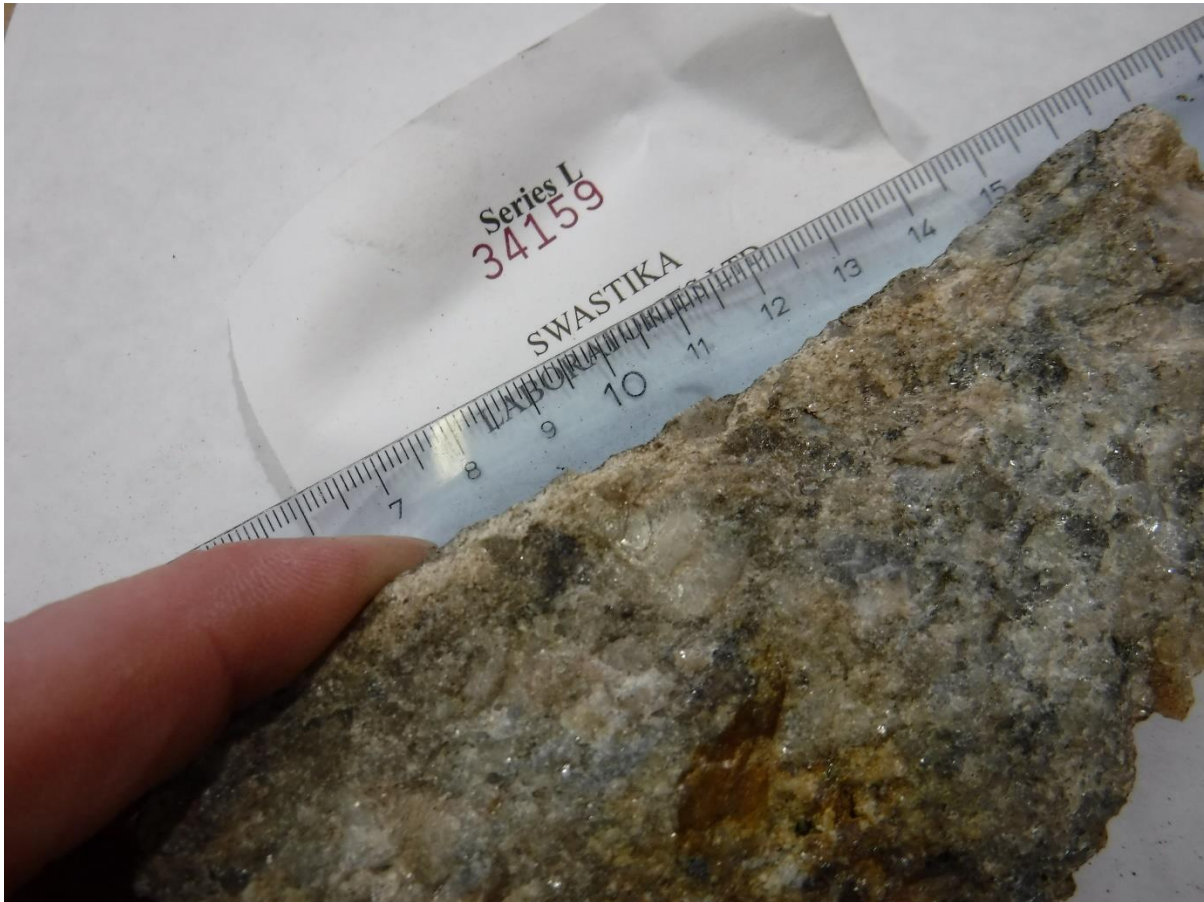


Figure 11: Sample 34159

Sample 34160

NAD 83

UTM Zone 17

722033E 4971613N

HF 0.0

Mag Sus 0.2 SI

Cond 0.0 Mhos/m

Biotite Schist.



Figure 12: Sample 34160 in field

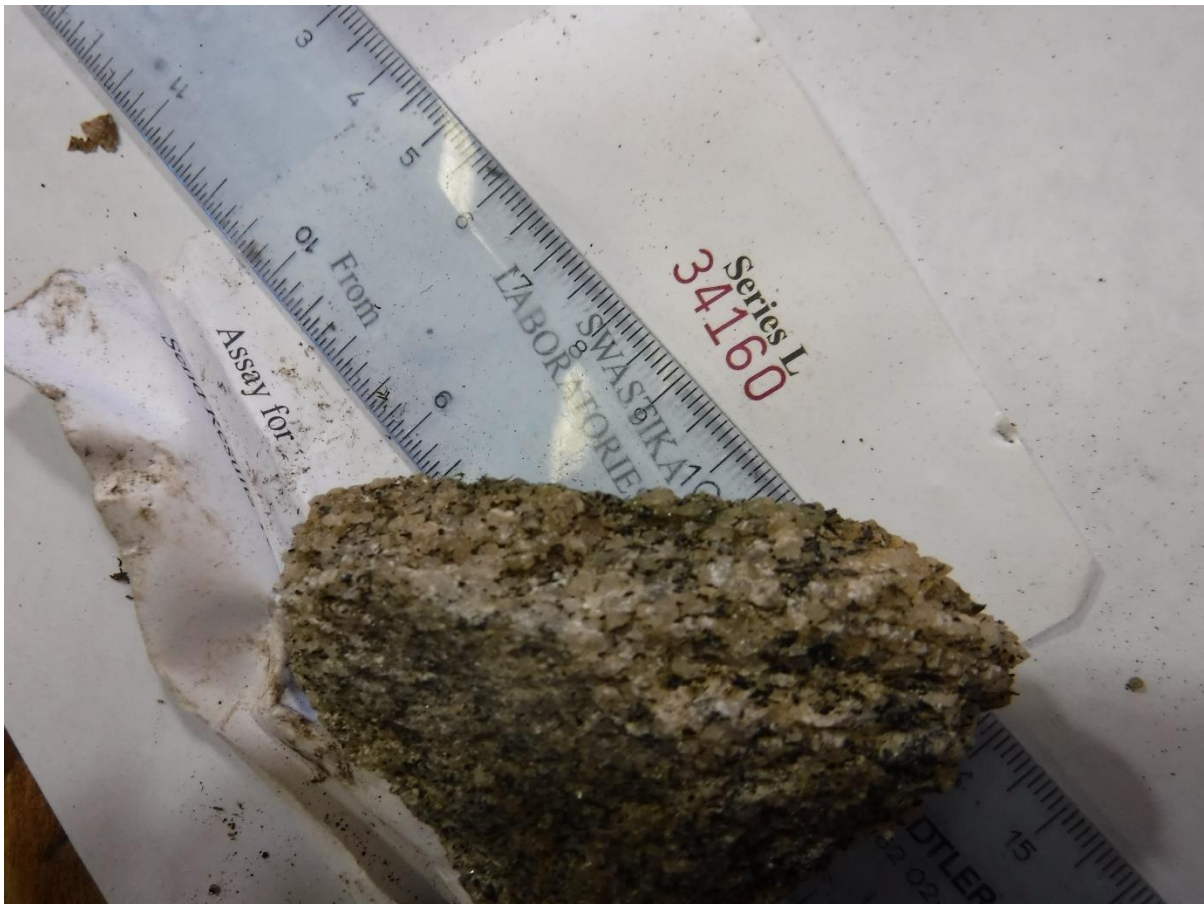


Figure 13: Sample 34160

Sample 34161

NAD 83

UTM Zone 17

722118E 4971601N

HF 0.0

Mag Sus 0.2 SI

Cond 0.0 Mhos/m

Felsic Intrusive.



Figure 14: Sample 34161 in field



Figure 15: Sample 34161

Sample 34162

NAD 83

UTM Zone 17

722201E 4971637N

HF 0.0

Mag Sus 0.1 SI

Cond 0.0 Mhos/m

Biotite Schist.



Figure 16: Sample 34162 in field

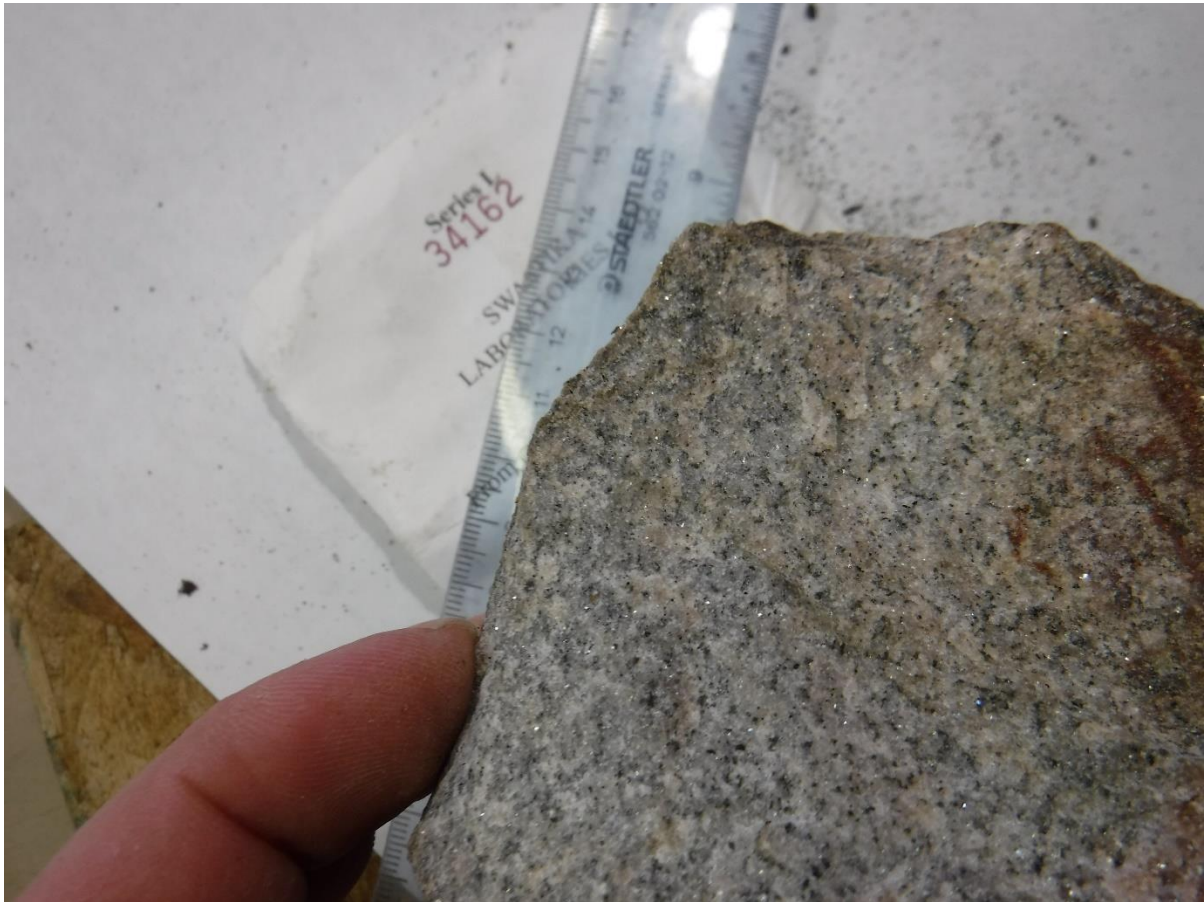


Figure 17: Sample 34162

Sample 34163

NAD 83

UTM Zone 17

722724E 4971696N

HF 0.0

Mag Sus 0.3 SI

Cond 0.0 Mhos/m

Biotite Schist.



Figure 18: Sample 34163 in field



Figure 19: Sample 34163

Sample 34164

NAD 83

UTM Zone 17

722303E 4971769N

HF 0.0

Mag Sus 0.5 SI

Cond 0.0 Mhos/m

Biotite Schist.



Figure 20: Sample 34164 in field



Figure 21: Sample 34164

Sample 34165

NAD 83

UTM Zone 17

722248E 4972423N

HF 0.0

Mag Sus 0.6 SI

Cond 0.0 Mhos/m

Biotite Schist.



Figure 22: Sample 34165 in field

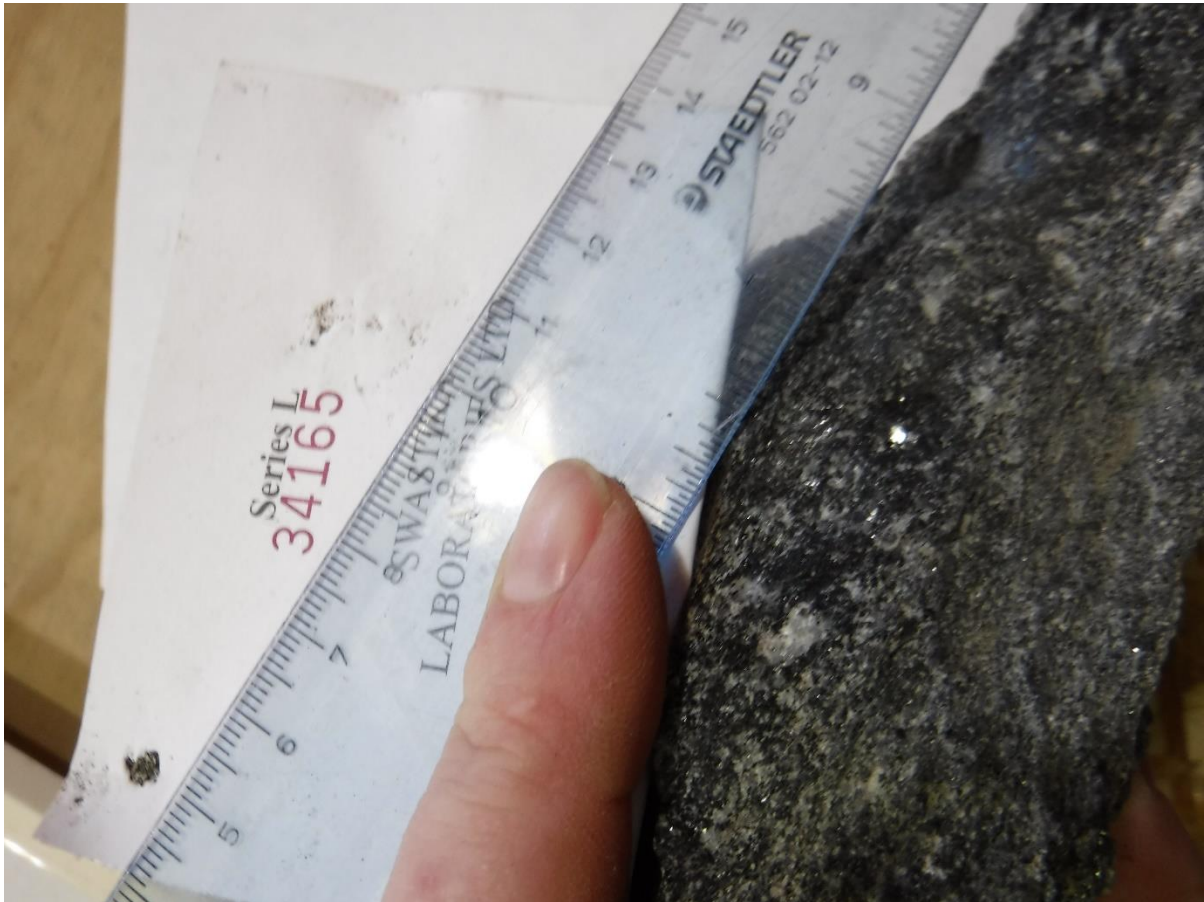


Figure 23: Sample 34165

Sample 34166

NAD 83

UTM Zone 17

721996E 4972581N

HF 0.0

Mag Sus 0.3 SI

Cond 0.0 Mhos/m

Biotite Schist.



Figure 24: Sample 34166 in field

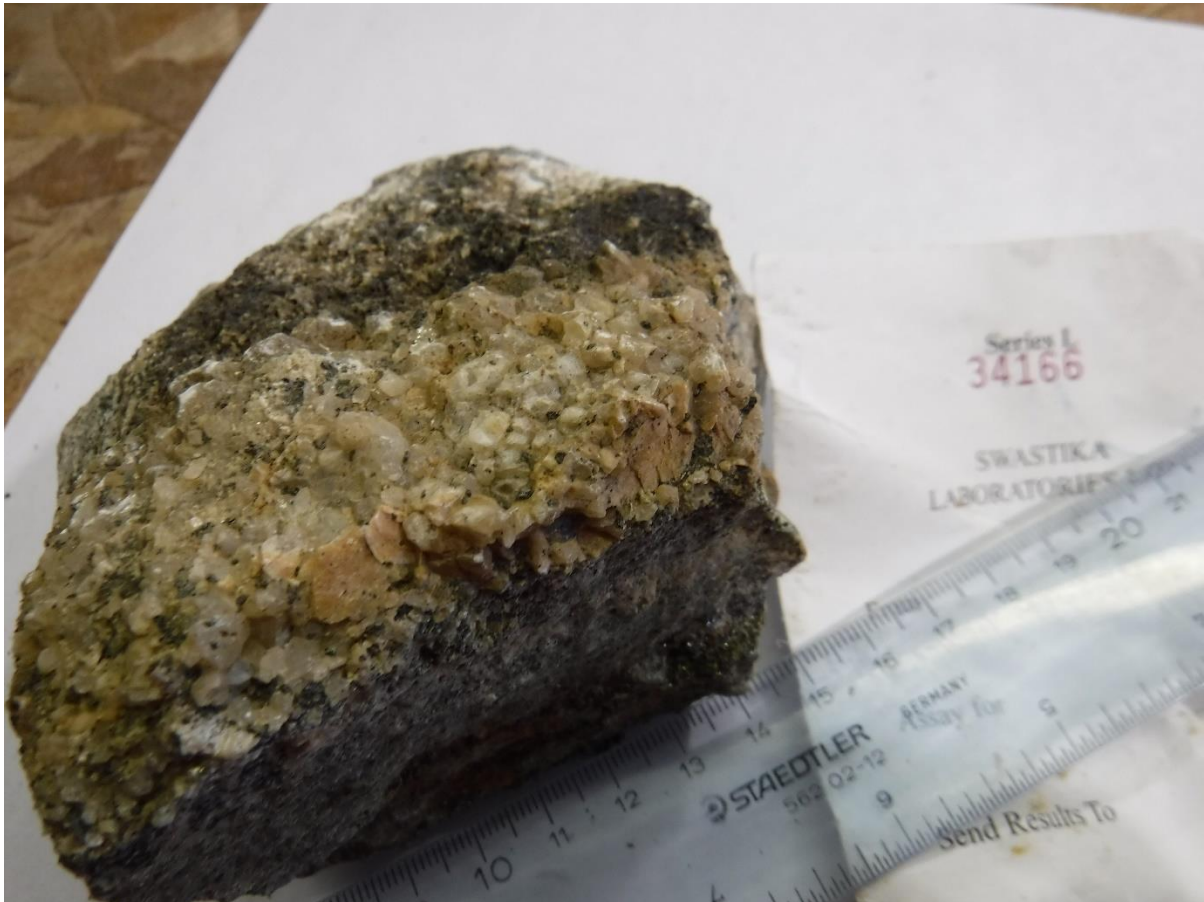


Figure 25: Sample 34166

Sample 34167

NAD 83

UTM Zone 17

722001E 4972577N

HF 0.0

Mag Sus 0.7 SI

Cond 0.0 Mhos/m

Biotite Schist.



Figure 26: Sample 34167 in field

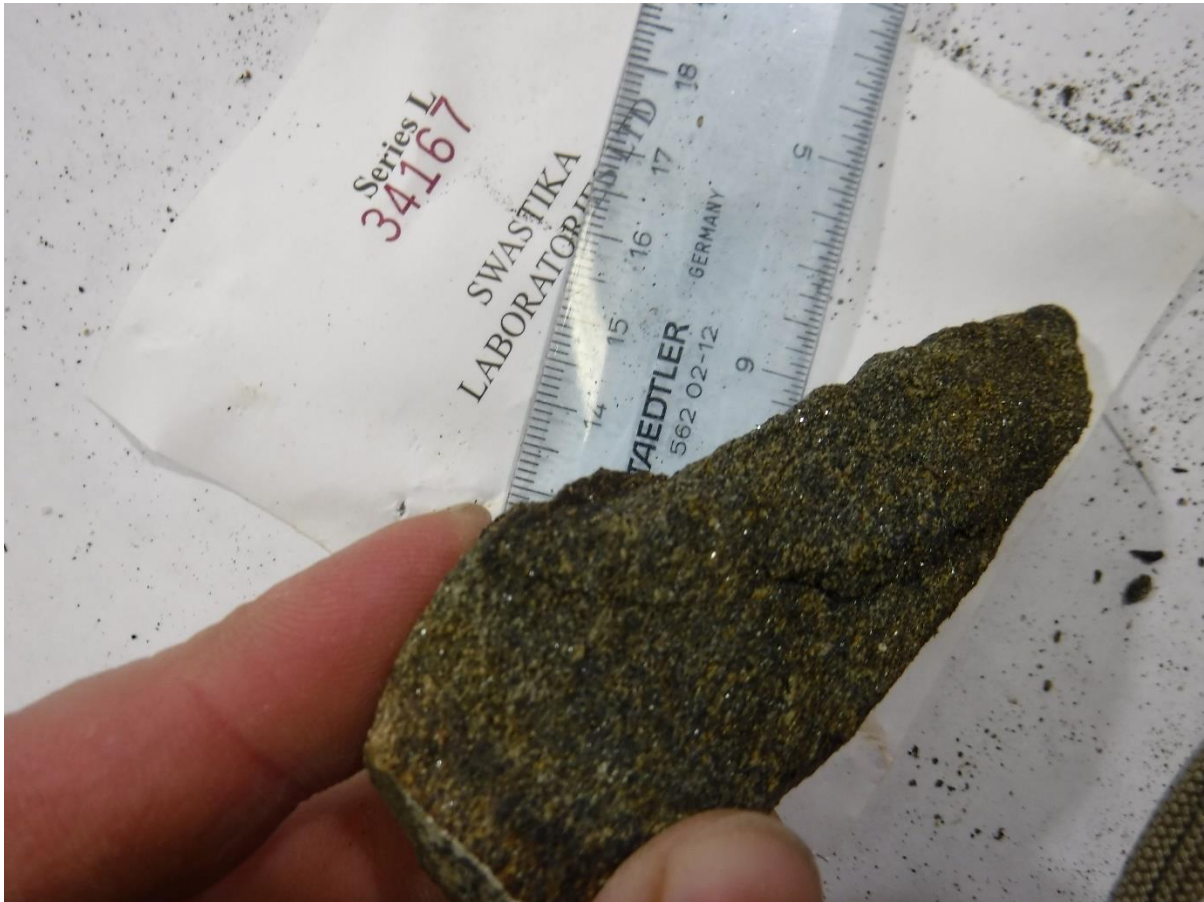


Figure 27: Sample 34167

3.3 CONCLUSIONS AND RECOMMENDATIONS

No magnetite skarn was located during the prospecting campaign. Skarn material was located in samples 34155, 34157 and 34158, however known of these samples registered on the magnetic susceptibility meter. The locations of these can be seen in the figure below, which helps vector in on the reported magnetite skarn.

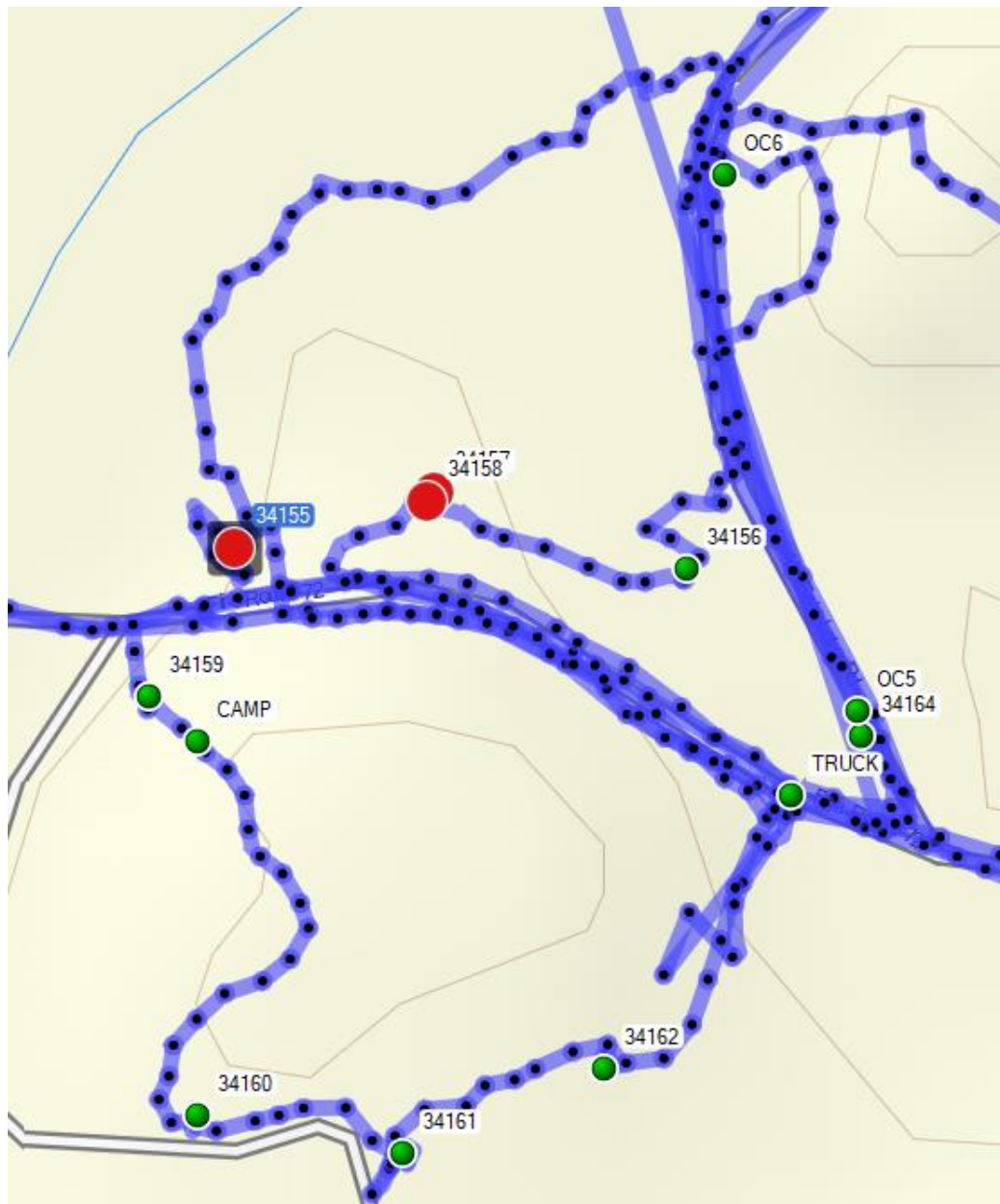


Figure 28: Samples of Skarn

Location OC 6 represented an outcrop location located that could not be sampled, due to its smoothness. This outcrop remained unidentified and can only be described as a smooth dark outcrop. This may also represent Skarn and should be investigated further.



Figure 29: Location OC6

With Skarn material located, I would recommend further prospecting in the region of the skarn. The physical property measurements of the samples indicate very low magnetic susceptibility. The magnetite skarn would be a high magnetic susceptibility, therefore I would also recommend a magnetic survey be conducted over the property. This would help isolate the magnetite skarn.

The samples collected show no mineralization. I would consult a geologist to determine if they merit assaying.

APPENDIX A

STATEMENT OF QUALIFICATIONS

I, C. Jason Ploeger, hereby declare that:

1. I am a professional geophysicist with residence in Larder Lake, Ontario and am presently employed as a Geophysicist and Geophysical Manager of Canadian Exploration Services Ltd. of Larder Lake, Ontario.
2. I am a Practising Member of the Association of Professional Geoscientists, with membership number 2172.
3. I graduated with a Bachelor of Science degree in geophysics from the University of Western Ontario, in London Ontario, in 1999.
4. I have practiced my profession continuously since graduation in Africa, Bulgaria, Canada, Mexico and Mongolia.
5. I am a member of the Ontario Prospectors Association, a Director of the Northern Prospectors Association and a member of the Society of Exploration Geophysicists.
6. I do have an interest in the properties and securities of **Atacama Resources International Inc.**
7. I am responsible for the final processing and validation of the survey results and the compilation of the presentation of this report. The statements made in this report represent my professional opinion based on my consideration of the information available to me at the time of writing this report.



C. Jason Ploeger, P.Geo., B.Sc.
Geophysical Manager
Canadian Exploration Services Ltd.

Larder Lake, ON
January 26, 2019

APPENDIX B

GARMIN GPS MAP 62S



Physical & Performance:	
Unit dimensions, WxHxD:	2.4" x 6.3" x 1.4" (6.1 x 16.0 x 3.6 cm)
Display size, WxH:	1.43" x 2.15" (3.6 x 5.5 cm); 2.6" diag (6.6 cm)
Display resolution, WxH:	160 x 240 pixels
Display type:	transflective, 65-K color TFT
Weight:	9.2 oz (260.1 g) with batteries
Battery:	2 AA batteries (not included); NiMH or Lithium recommended
Battery life:	20 hours
Waterproof:	yes (IPX7)
Floats:	no
High-sensitivity receiver:	yes

Interface:	high-speed USB and NMEA 0183 compatible
Maps & Memory:	
Basemap:	yes
Preloaded maps:	no
Ability to add maps:	yes
Built-in memory:	1.7 GB
Accepts data cards:	microSD™ card (not included)
Waypoints/favorites/locations:	2000
Routes:	200
Track log:	10,000 points, 200 saved tracks
Features & Benefits:	
Automatic routing (turn by turn routing on roads):	yes (with optional mapping for detailed roads)
Electronic compass:	yes (tilt-compensated, 3-axis)
Touchscreen:	no
Barometric altimeter:	yes
Camera:	no
<u>Geocaching-friendly:</u>	yes (paperless)
<u>Custom maps compatible:</u>	yes
Photo navigation (navigate to geotagged photos):	yes
Outdoor GPS games:	no
Hunt/fish calendar:	yes
Sun and moon information:	yes
Tide tables:	yes

Area calculation:	yes
Custom POIs (ability to add additional points of interest):	yes
Unit-to-unit transfer (shares data wirelessly with similar units):	yes
Picture viewer:	yes
Garmin Connect™ compatible (online community where you analyze, categorize and share data):	yes

- Specifications obtained from www.garmin.com

APPENDIX B

MPP-EM2



Thanks to the MPP-EM2S+, users are now able to instantly confirm the properties of the sulphides contained in rock samples picked up at the surface or in old or new drilled cores.

The MPP-EM2S+ detects the magnetic susceptibility (10^{-6} SI) as well as the relative and absolute conductivity (MHOS/M) values of small and large objects such as drilling cores, field samples, floats, showings, etc.

The MPP-EM2S+ consists of a handy gun-shaped probe connected to a PDA reading unit. The MPP-EM2S+ probe measures simultaneously up to ten times per second the magnetic susceptibility (10^{-6} SI) and the relative and absolute conductivity (MHOS/M). Easy to use, one can scan drill cores, field samples, floats or showings

Features

- Provides real time feedback.
- Offers the possibility to use the probe either with Bluetooth (wireless) or a cable RS-232.

-
- Logs cores properties & position in the PDA.
 - Saves time by logging both properties in one pass; the Mag susceptibility as well as the relative conductivity values displayed in real time.
 - Measures magnetic susceptibility with precision in all conditions. Detects conductors at all time.
 - Records and dumps data (almost infinite readings) in ASCII format: hole identification, depth, recorded values, date, time, etc.
 - Transfers data to a PC via USB.
 - Emits a modulated sound signal for conductors.
 - Calibrated at 10^{-6} SI & MHOS/M.
 - Easy to use and inexpensive.
 - Possibility to supply the probe with 120-240V power supply
 - Possibility to clip the probe to your belt to free your hands

The operator can record data one reading at a time or in a continuous scanning mode (10 times/second) to make a profile. The recorded data from the PDA or PC are stored in ASCII file: hole identification, depth, recorded values, date, time, etc. Afterward, the ASCII format can be imported to a drafting software (Excel, Microstation, Autocad, etc). For example, the susceptibility and the conductivity can be plot along a DDH with the laboratories assays. A software designed by Instrumentation GDD helps the end user to draw quickly the profiles and interpret the geophysical properties using an Excel Macro.

Specifications

- Three modes: manual, automatic and graphic.
- Sample rate: 10 times per second.
- Displayed rate: every 0.5 second.
- Manual sampling by pressing display.
- Auto sampling: 0.1 to 60 seconds range- continuous mode.
- Improved hardware to record data with special button on the latest MPP-EM2S+ probe

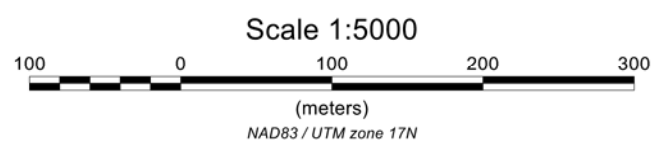
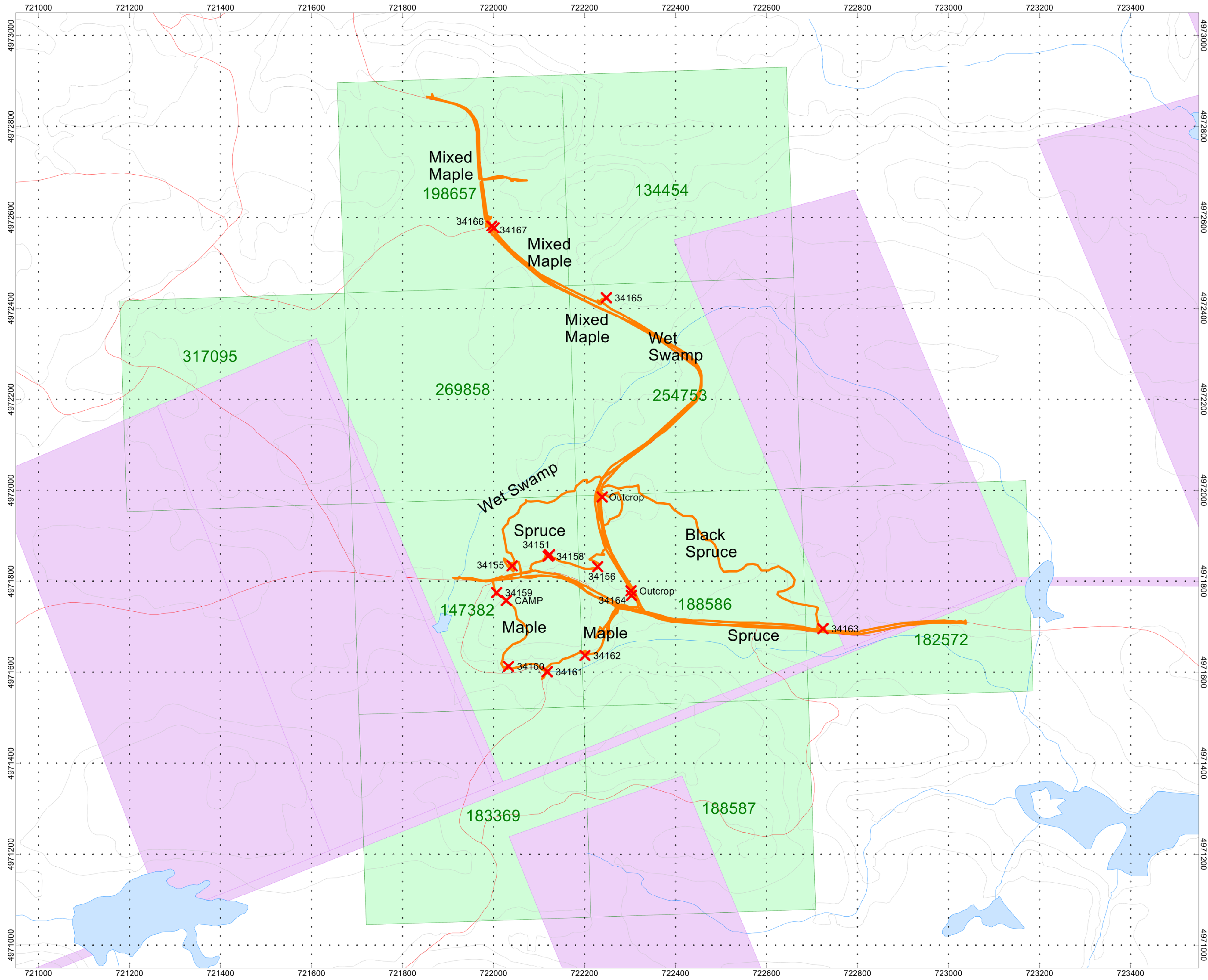
APPENDIX C

LIST OF MAPS (IN MAP POCKET)

Posted Traverse Plan Map (1:5000)

1) ATACAMA-BIRONBAY-PROSPECTING

TOTAL MAPS = 1



Atacama
RESOURCES INTERNATIONAL

Biron Bay Property
Anstruther Township, Ontario

Prospecting Traverse
 May 31, 2018

Traverses By: Jason Ploeger
 and Anathony Ploeger
 Processed by: Jason Ploeger
 Map Drawn By: C Jason Ploeger, P.Geo
 January 2019

Drawing : Atacama-BironBay-Prospecting