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**N.T.S. 32D05J**

**REPORT ON GROUND MAGNETOMETER &  
VLF ELECTROMAGNETIC (EM) SURVEYS  
ON THE “B” TARGET  
FIELD OF DREAMS PROPERTY  
LARDER LAKE MINING DIVISION  
HOLLOWAY-TANNAHILL TOWNSHIPS, ONTARIO**

**Written by: Robert J. Dillman 8901 Reily Drive  
Mount Brydges, Ontario**

**October 5, 2019**

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## **Summary**

This report summarizes the results of a combined ground magnetometer and VLF electromagnetic (EM) survey on the Field of Dreams (FOD) Property located in Tannahill Township. The surveys were completed by property owners: Robert Dillman and James M. Chard over 2 days on June 19, 2019 and June 20, 2019. The surveys were assisted by property owner Dr. Jim Renaud who provided navigation and recorded surficial geology as surveys progressed.

The surveys were focused on relocating a prominent magnetic high previously tested for kimberlite by a single drill hole in 1993. The drill hole intersected gabbro with widespread highly anomalous nickel, copper, cobalt and platinum group elements (PGE) sulphide mineralization. The magnetometer outlined a sub-circular magnetic high. The VLF survey detected several conductive features potentially representing zones of sulphide mineralization and faulting.

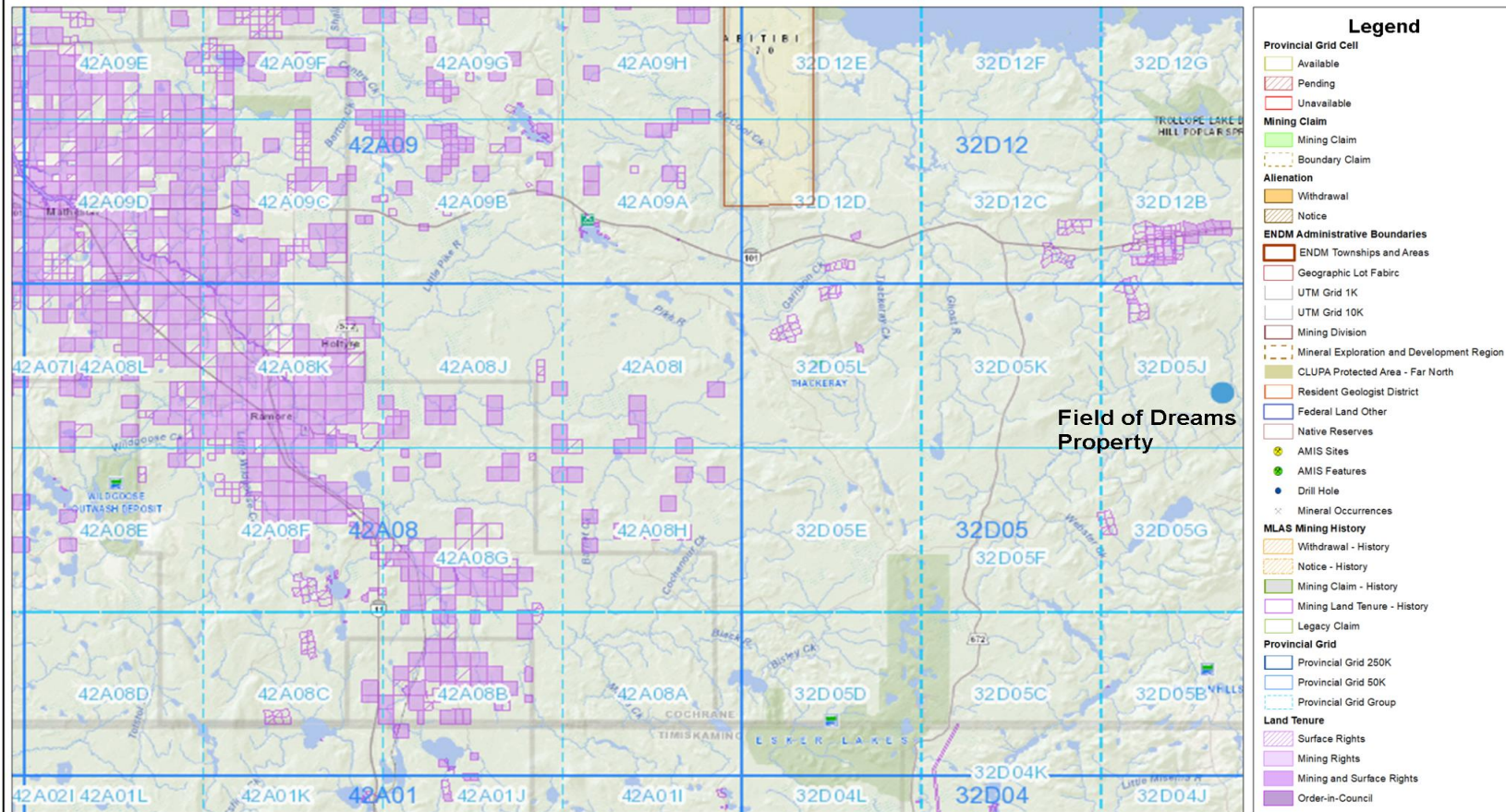
## **Location and Access**

The Field of Dreams (FOD) Property is located in Tannahill Township in the Larder Lake Mining Division, Ontario. The property is located approximately 60 kilometres east of Matheson, Ontario, Canada (Figure 1).

The property can be reached from the town of Matheson by travelling east on Highway 101 for approximately 59 km to the intersection of Roscoe Road. Travel south on the Roscoe Road for approximately 12 km to an intersection of a small logging road intersecting on the north side of the Roscoe Road approximately 850 m west of the “big bend”. A truck can be driven 700 m on the logging road to a washout. An ATV can be driven another 230 m to a fork in the road. Access to the survey area can be made on an ATV by following the left trail at the fork for a distance of approximately 1km. Access to the survey area can be made by following the right trail however a washout a short distance along this route prevents motorized access.

Figure 1.: Property Location Map

Notes:



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## Survey and Claim Logistics Location

Figure 2 outlines the extent of the FOD Property. The property consists of 60 mining claim cells and 10 boundary cells in Holloway and Tannahill Townships. The geophysical surveys were performed on sections of 7 claims within the property. The claims include:

173831	32D05J253
117283	32D05J254
102481	32D05J255
173832	32D05J273
126514	32D05J274
129243	32D05J275
117284	32D05J293
154982	32D05J294

All claims comprising the Field of Dreams Property are equally owned by:

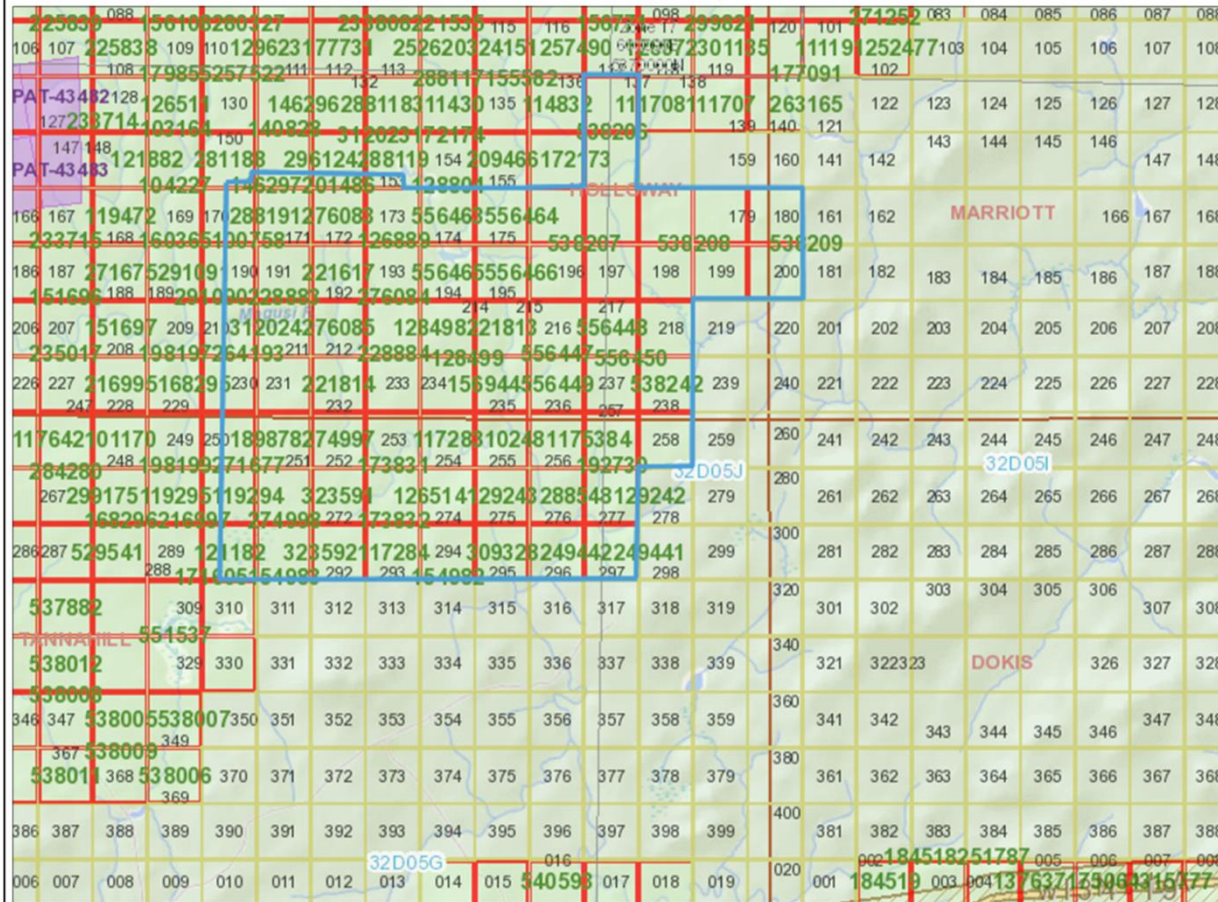
James M. Chard of Cordova, Ontario

Dr. Jim Renaud of London, Ontario

Robert J. Dillman (author) of Mount Brydges, Ontario

### Figure 2. Field of Dreams Property

Notes:



#### 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 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



Projection: Web Mercator



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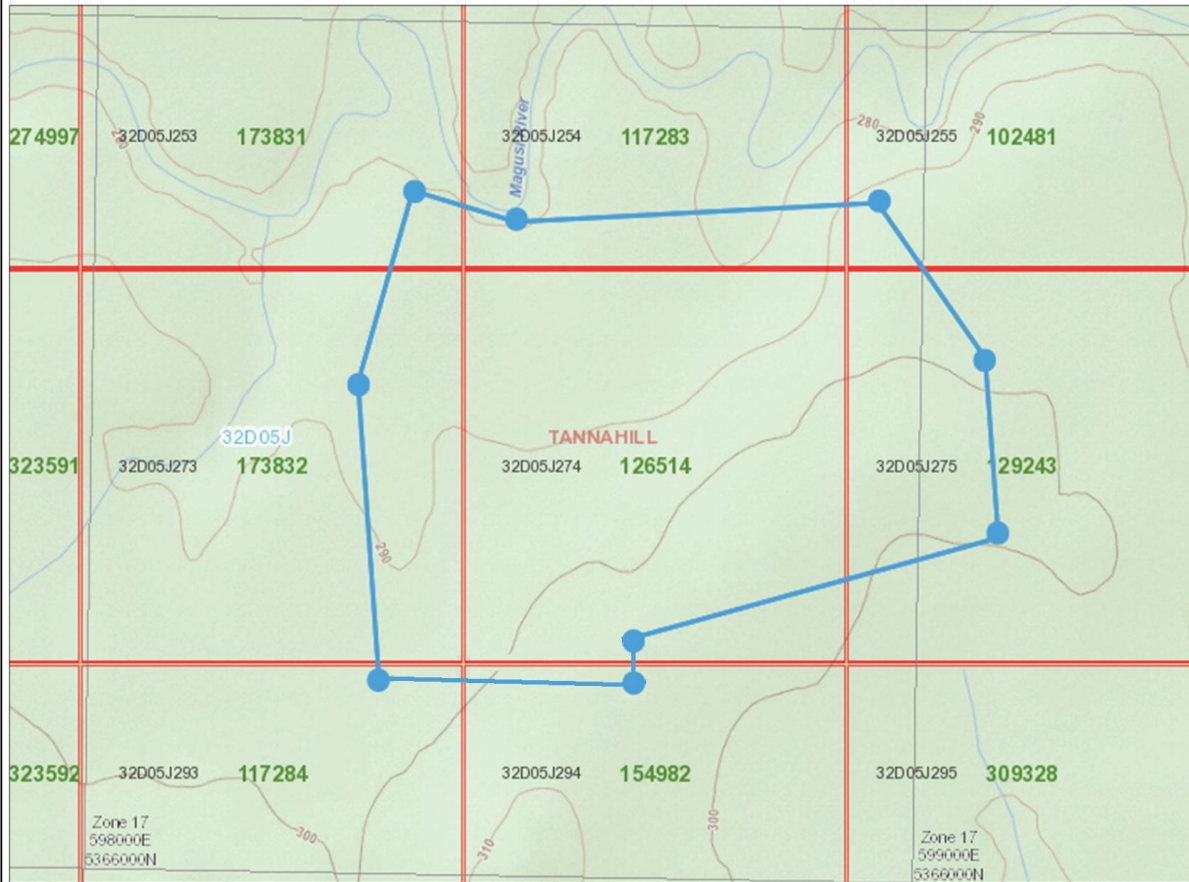




Figure 3. Claim Map & Survey  
Location Map

Notes:

FIELD OF DREAMS  
PROPERTY



### 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
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  - AMIS Sites
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  - 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



Projection: Web Mercator



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## **Land Status and Topography**

The area where the geophysical surveys were performed is situated entirely on Crown Land. The property is uninhabited. There are no buildings or hydroelectricity.

The survey area is at a mean elevation of 290 metres above sea level. The west section of the survey area is mostly flat with some gentle relief ranging approximately to 5 to 10 metres in height. The area has good drainage and crossed by several north to northwest flowing creeks. The east section of the survey area is crossed by a north trending ridge potentially being an esker as it is composed of sand, gravel and cobble. A wet area of overburden occurs west of the ridge in the northeast section of the survey area.

Most of the property has been logged at various times. Some areas are clear-cut and some have been reforested with spruce. There is old growth forest along the Magusi River. Large spruce and balsam grow along the river.

No outcrop was observed in the survey area. Most of the lower areas are covered by clay. Sand, gravel and cobbles are exposed along the ridge.

## **Regional and Local Geology**

The survey area is located in the Harker-Holloway section of the Abitibi Greenstone Belt. The property is underlain by Archean units of the Lower and Upper Blake River assemblage dated 2704 to 2696 Ma. Units consist mostly of massive and pillowed flows of mafic metavolcanic rocks and gabbroic sills and plutons.

The property sits roughly 7 km south of the Destor Porcupine Fault Zone. The property is believed to be crossed by northeast trending faults and shear zones and by younger north trending faults.

No outcrop was observed in the survey area. A drill hole log from an historic hole indicates that the survey area is in part, underlain by gabbro mineralized with widespread disseminated pyrite, pyrrhotite and chalcopyrite.

There is a large outcrop of andesite situated roughly 250 metres south of the survey area.

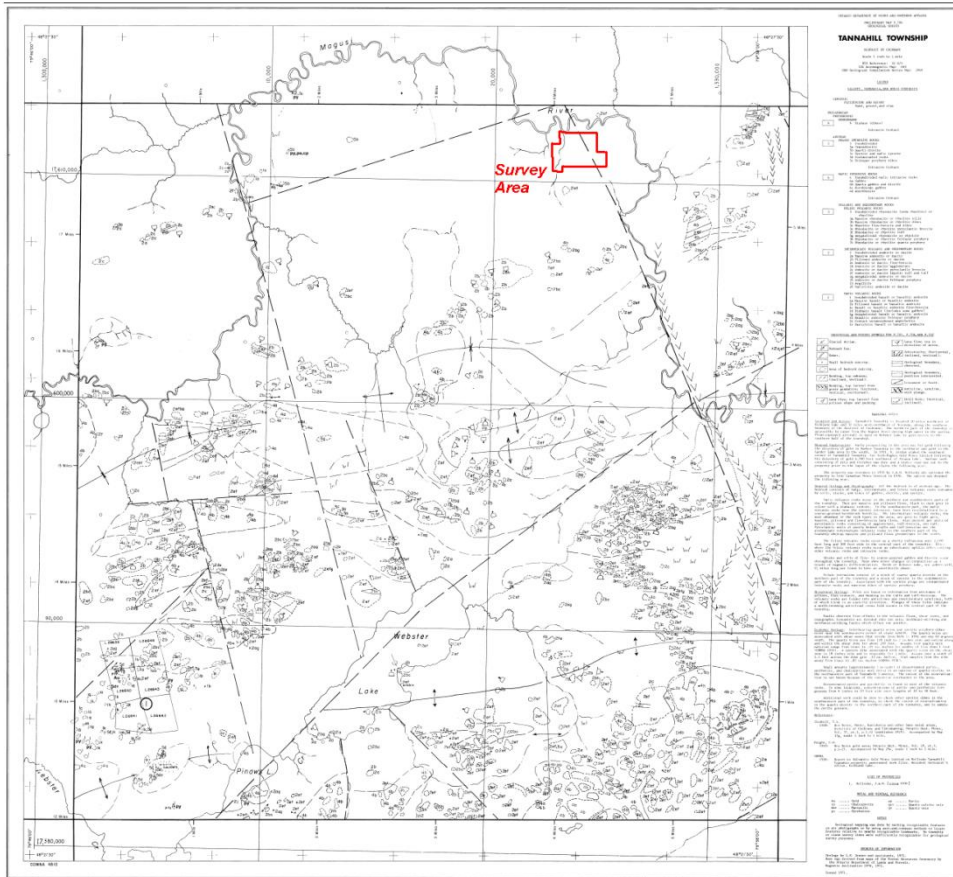


Figure 4, Geology of Tannahill Township - Survey Area

## History of Exploration

Several east-west orientated grid lines were observed during the current survey and are evidence of previous exploration in the area.

The area was first mapped in 1901 by W.J. Wilson (Wilson, 1901) who canoed across Tannahill Twp. via the Magusi (Isabemagussi) River from Webster Lake to the Ontario-Quebec border. The first geological map is Map No.29e by C.W. Knight (Knight, 1920) on behalf of the Ontario Department of Mines in 1919. More recently, the geology of Tannahill Twp. was mapped by L.S. Jenson (Jenson, 1978) for the Ontario Geological Survey (OGS) in 1971. The first airborne geophysical survey is Aeromagnetic Map 42G published in 1951 by the Geological Survey of Canada. The area was flown again in 1983 by the OGS (OGS 1984) Map 80610 and again in 2003 using the MEGATEM System.

In 1981, R.N. Saukko completed ground magnetometer and VLF surveys over the area of the current surveys. The work was completed on behalf of Falconbridge Nickel Mines Ltd. The magnetometer survey outlined an elliptical northeast trending magnetic high peaking at roughly 800 gammas. The VLF survey detected several east-west trending conductors along the south margin of the magnetic feature. (32D05NE0075)

In 1986, J. Walker completed a ground magnetometer survey over a large area located south of Magusi River which included the magnetic feature explored previously by Falconbridge. The survey was performed behalf of Lac Minerals Ltd. (32D05NE0048)

In 1987, J. Walker completed a detailed ground magnetometer survey over the magnetic feature for Lac Minerals. (32D05NE0051)

In 1992, Sudbury Contact Mines Ltd. relocated the magnetic feature as a potential kimberlite target with line cutting and ground magnetometer and Induced Polarization (I.P.) surveys. Dubbed the "B" target, the magnetometer survey outlined a lens-shaped northeast trending magnetic high measuring 550 m x 400 m in size. The I.P. survey detected a series north to northeast trending anomalies flanking the east side of the magnetic feature. 32D12SE2001, (32D12SW9750)

In 1993, D. Christie on behalf of Sudbury Contact Mines Ltd. reported testing the “B” Target with drill hole B92-1. The drill intersected massive gabbro with minor sections of pyroxenite to a depth of 117 m. Sulphides were noted throughout the core. A 14.3 m section between 71.3 to 85 m is described to contain stronger sulphide mineralization consisting of mostly pyrrhotite with minor chalcopyrite and pyrite. The section yielded consistent assays ranging 0.1% copper and 0.25% nickel. A lower zone with anomalous nickel, copper and gold was intersected in strong chlorite-serpentine sulphide alteration at the bottom of the hole. (32D12SE2001)

In 2004, W. Weller completed ground magnetometer and VLF surveys over an area adjacent to the northeast on the current surveys. Northeast trending magnetic features ranging up to 1,600 gammas were outlined by the magnetic survey. Several north-south striking conductors were detected by the VLF survey. (32D05NE2041)

In 2007, E.A. MacGregor located and sampled the drill core from Sudbury Contact’s hole B92-1. The work was performed on behalf of Skead Holdings Ltd. Results showed sub-economic but highly anomalous Ni, Cu and PGE. Over the next few years, Mr. MacGregor sampled the remainder of the core. Final results showed widespread anomalous nickel and copper values ranging 82.4 to 3,227 ppm Ni and 5.8 to 1,603 ppm Cu plus anomalous Co, PGE and Au over a core length of 81 m. (20003613, 20005091, 20010273)

In 2008, D. LaRocque collected soil samples for a Mobile Metal Ionization (MMI) survey over the “B” Target. The work was performed on behalf of Skead Holdings Ltd. A Ni-Cu-Co-Au MMI peak was outlined in the north-central section of the survey coinciding with “B” Target magnetic feature. (20006346)

In 2009, J. Ploeger followed-up with a reconnaissance ground magnetometer survey over the “B” Target for Skead Holdings. (20005922)

In 2012, J. Ploeger completed a Max-Min Horizontal Loop (HL)EM survey over “B” Target for Skead Holdings. Several weak high-frequency conductors were outlined which were attributed to potential bedrock sources, structure and overburden. (20010188)

In 2017, G. Harken was contracted by the current claim holders to stake claims covering “B” Target.

## **Survey Dates and Personnel**

The ground magnetometer and VLF-EM surveys were completed in 2 days between July 19, 2019 and July 20, 2019.

The surveys were performed by property owners: James M. Chard of Cordova Mines, Ontario, Robert Dillman of Mount Brydges, Ontario and Dr. Jim Renaud of London, Ontario.

The VLF-EM instrument was operated by James Chard. The magnetometer instrument was operated by Robert Dillman. Jim Renaud assisted with navigation and recording geology.

## **Survey Logistics**

The surveys were completed on a GPS controlled grid. The coordinates of the survey lines are appended to this report. Waypoints were recorded every 100 metres and at the end of lines. The survey lines were orientated  $175^{\circ}$  –  $355^{\circ}$  and spaced 50 to 100 metres apart. The lines range 250 to 650 metres in length. VLF readings were taken at 25 metre intervals along the lines. These stations were marked with flagging tape and given a grid coordinate.

Magnetometer readings were taken at 12.5 metre intervals. A total of 4.2 kilometres was surveyed.

Magnetic readings are plotted and contoured on maps appended to this report. The maps are at a scale of 1 : 2,500. A base station was established for diurnal corrections on the Baseline at Line 1+00E (598529mE, 5366568mN). Readings were corrected to 55,774 nanoTeslas (nT).

The magnetometer survey was completed using a Gem Systems proton magnetometer/ gradiometer model GMS-19T. The specifications of the instrument are appended to this report.

A VLF-EM-16 unit made by GEONICS Limited was used to complete the electromagnetic survey. The instrument specifications for the EM-16 unit are appended to this report. The VLF station at Cutler, Maine, USA was used for the survey. The station transmits at 24.0 KHz. VLF-EM readings are plotted and profiled on maps appended to this report. The maps are at a scale of 1 : 2,500.

A Compass and GPS unit was used to navigate and calculate distances between readings. A Garmin GPS model RINO750 was used for the survey. The GPS was set to NAD83, Zone 17.

## Survey Results

The magnetic susceptibility of the rocks within the survey area ranges from 55,349 nT to 56,452 nT.

The “B” Target was outlined as an elliptical shaped magnetic high ranging 500 x 350 metres in size. The center on the magnetic high occurs on line 3+00E at 0+50N, UTM 598720mE, 5366632mN. Here, it peaks at 56,452 nT and strikes roughly 65° in a somewhat linear trend for a distance of 300 m. Towards the northeast, the “B” Target appears to be truncated by north-south orientated faults crossing the survey are in the vicinity to lines L.3+50E, L.4+00E and L.5+00E. This particular area coincides with the esker crossing the east side of the survey.

The VLF survey outlined 6 conductive features which can be traced across multiple lines for distances ranging 50 to +200 metres. Based on strike, the conductors fall within 3 types:

- 1.) east-west trending conductors occurring along the south margin of the “B” Target,
- 2.) northeast-southwest trending conductors situated inside the “B” Target,
- 3.) northwest-southeast trending conductors occurring inside and outside the “B” Target on the east side of the survey.

The B-1 conductor is considered the best conductor to represent sulphide mineralization. It coincides with the magnetic high and extends for 100 m from L.3+00E, 0+70N (UTM 598716mE, 5366667mN) to L.4+00E, 1+10N (UTM 598850mE, 5366710mN). The B-2 conductor is also considered as a potential sulphide target and strikes for 300 metres along the south margin of the “B” Target from L.1+00E, 1+20S (UTM 598540mE, 5366440mN) to L.4+00E, 0+53S (UTM 598856mE, 5366545mN). Northwest striking conductors occurring in the east half of the survey coincide with a creek and possibly faults crossing the “B” Target.

## Discussion of Results

The “B” Target is situated in a topographic low and to the east, is partially covered by an esker. Information from the drill hole by Sudbury Contact Mines and the magnetic signature of the “B” Target indicate is a circular gabbroic intrusion which has deformed by faulting. The center of the

intrusion is marked by a magnetic high and the B-1 conductor. Although it is reported that the collar was pulled for the drill hole by Sudbury Contact Mines it is highly likely that this is the area where the anomaly was tested. Judging from the results, it appears the center region of the gabbro has widespread anomalous Ni, Cu, Co and PGE sulphide mineralization. The VLF conductors within the gabbro could represent areas where higher grades of mineralization exist. Conductors proximal to the gabbro could mark areas where gold mineralization occurs.

### **Conclusions and Recommendations**

The "B" Target is a gabbro intrusion with highly anomalous Ni, Cu, Co and PGE sulphide mineralization. Additional ground magnetometer and VLF-EM surveys are recommended east of the current survey as it is believed faulting in this area has potentially displaced the gabbro intrusion and mineralization. The area west of the esker where the bulk of the gabbro exists is flat and amendable for an MMI survey. It is recommended that soil samples be collected in this area. Diamond drilling is also recommended.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read 'R. J. Dillman', is written over a light gray rectangular background.

Robert J. Dillman P.Geo., B.Sc.

October 5, 2019

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**WALKER, A.J. 1986.** Report on Magnetic Survey. Grid TA 4 Tannahill Township, Ontario, Larder Lake Mining Division NTS 32 D 5. Unpublished assessment report 32D05NE0051.

**WILSON, W.J. 1901.** Western Part of the Abitibi Region; p.116A-130 in Summary Report, Pt. A, Can. Geol. Surv., 271p., Vol.XIV. Accompanied by Map no. 760, scale 1 inch to 16 miles.

**Robert J. Dillman P.Geo, B.Sc.**  
**ARJADEE PROSPECTING**  
**8901 Reily Drive, Mount Brydges, Ontario, Canada, N0L1W0**  
**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** at the **University of Western Ontario**.

3. I am an active member of:

**Association of Professional Geoscientists of Ontario, APGO**  
**Prospectors and Developers Association of Canada, PDAC**

4. I have been a **licensed Prospector in Ontario** since 1985.

5. I have worked continuously as a **Professional Geologist** for 28 years.


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

**REPORT ON GROUND MAGNETOMETER & VLF**  
**ELECTROMAGNETIC (EM) SURVEYS ON THE "B" TARGET**  
**FIELD OF DREAMS PROPERTY, LARDER LAKE MINING DIVISION**  
**HOLLOWAY - TANNAHILL TOWNSHIPS, ONTARIO**

**dated, October 5, 2019**

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 and its omission to disclose makes the Assessment Report misleading.

**Dated this 5th day of October, 2019**

  
Robert James Dillman P.Geo  
Arjadee Prospecting



**Appendix 1.**

**UTM Coordinates for Survey Lines: B – Target  
Field of Dreams Property  
Holloway – Tannahill Townships, Ontario  
NAD 87, Zone 17**

<b>Line</b>	<b>3+50S</b>	<b>3+00S</b>	<b>2+00S</b>	<b>1+00S</b>	<b>Baseline</b>	<b>1+00N</b>	<b>2+00N</b>	<b>3+00N</b>
1+00W	598347mE 5366223mN	598342mE 5366278mN	598341mE 5366373mN	598331mE 5366474mN	598321mE 5366573mN			
0+00	598446mE 5366228mN	598443mE 5366277mN	598439mE 5366337mN	598431mE 5366477mN	598421mE 5366576mN	598413mE 5366678mN	598402mE 5366774mN	598386mE 5366880mN
1+00E		598554mE 5366266mN	598552mE 5366368mN	598536mE 5366468mN	598529mE 5366568mN	598514mE 5366668mN	598510mE 5366770mN	
2+00E		598654mE 5366277mN	598652mE 5366380mN	598640mE 5366477mN	598624mE 5366580mN	598613mE 5366679mN	598606mE 5366781mN	
2+50E			598710mE 5366384mN	598691mE 5366482mN	598689mE 5366579mN	598681mE 5366680mN	598664mE 5366777mN	
3+00E			598759mE 5366393mN	598746mE 5366486mN	598728mE 5366588mN	598719mE 5366686mN	598707mE 5366787mN	
3+50E			598824mE 5366391mN	598812mE 5366489mN	598800mE 5366586mN	598783mE 5366684mN	598763mE 5366784mN	
4+00E			598875mE 5366400mN	598866mE 5366500mN	598856mE 5366600mN	598850mE 5366702mN	598846mE 5366794mN	
5+00E			598995mE 5366397mN	598981mE 5366496mN	598971mE 5366596mN	598957mE 5366696mN	598946mE 5366797mN	
6+00E			599096mE 5366414mN	599086mE 5366514mN	599076mE 5366616mN			

EM16 SPECIFICATIONS

MEASURED QUANTITY	Inphase and quad-phase components of vertical magnetic field as a percentage of horizontal primary field. (i.e. tangent of the tilt angle and ellipticity).
SENSITIVITY	Inphase: $\pm 150\%$ Quad-phase: $\pm 40\%$
RESOLUTION	$\pm 1\%$
OUTPUT	Nulling by audio tone. Inphase indication from mechanical inclinometer and quad-phase from a graduated dial.
OPERATING FREQUENCY	15-25 kHz VLF Radio Band. Station selection done by means of plug-in units.
OPERATOR CONTROLS	ON/OFF switch, battery test push button, station selector switch, audio volume control, quadrature dial, inclinometer.
POWER SUPPLY	6 disposable 'AA' cells.
DIMENSIONS	42 x 14 x 9cm
WEIGHT	Instrument: 1.6 kg Shipping: 5.5 kg



VLF-EM Instrument  
serial number 16869

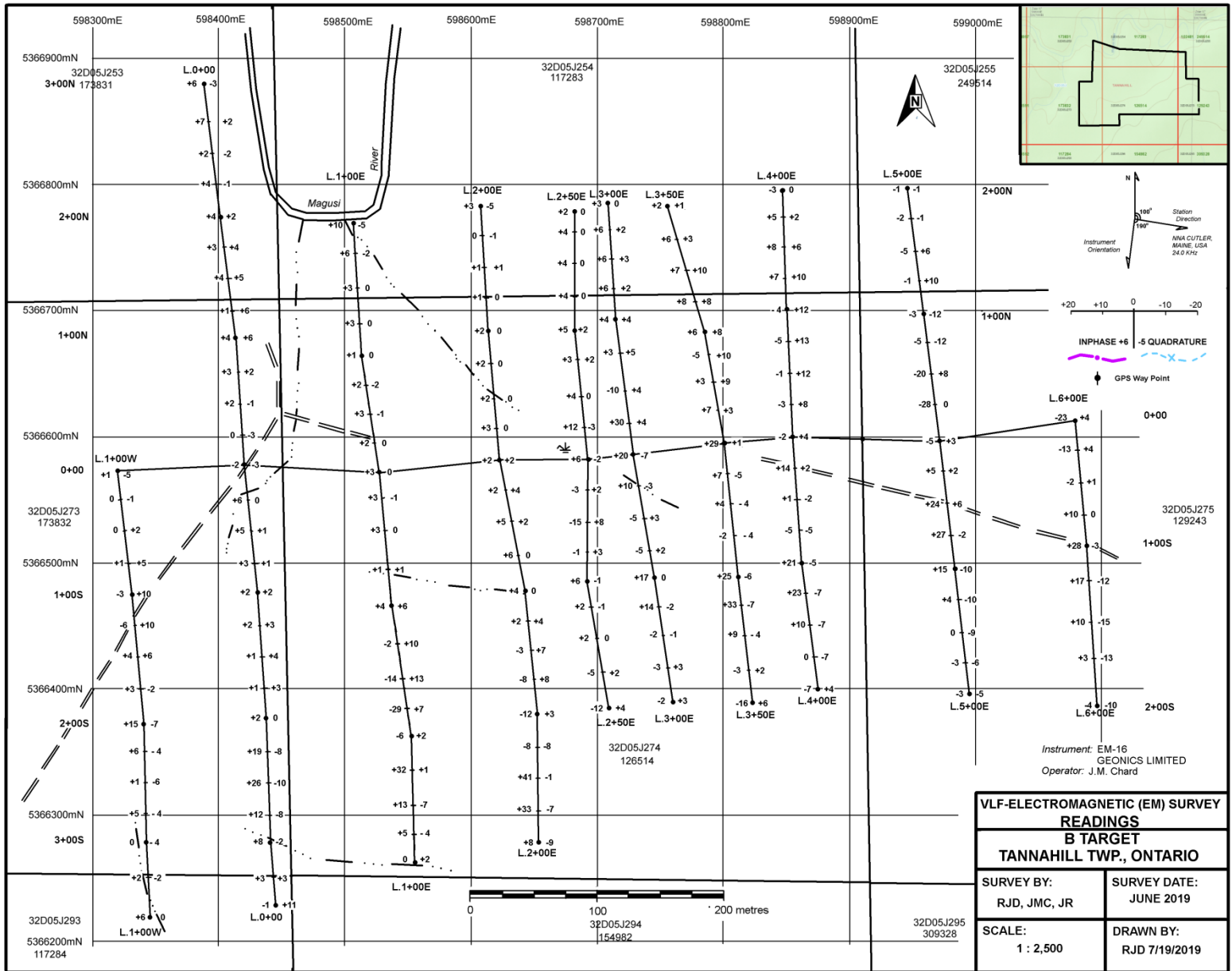
**APPENDIX F: GSM-19T MAG / GRAD SPECIFICATIONS**

Sensitivity	0.15 nT @ 1Hz / 0.05 nT @ 4Hz
Resolution:	0.01nT (gamma), magnetic field and gradient.
Accuracy:	+/- 0.2 nT @ 1 Hz
Range:	20,000 to 120,000nT.
Gradient Tolerance:	Over 7,000nT/m
Operating Interval:	3 seconds minimum, faster optional. Readings initiated from keyboard, external trigger, or carriage return via RS-232C.
Input / Output:	6 pin weatherproof connector, RS-232C, and (optional) analog output.
Power Requirements:	12V, 200mA peak (during polarization), 30mA standby. 300mA peak in gradiometer mode.
Power Source:	Internal 12V, 2.6Ah sealed lead-acid battery standard, others optional. An External 12V power source can also be used.
Battery Charger:	<b>Input:</b> 110 VAC, 60Hz. Optional 110 / 220 VAC, 50 / 60Hz. <b>Output:</b> dual level charging.
Operating Ranges:	Temperature: - 40°C to +50°C. Battery Voltage: <b>10.0V minimum to 15V maximum.</b> Humidity: <b>up to 90% relative, non condensing.</b>
Storage Temperature:	-50°C to +50°C.
Display:	LCD: 240 X 64 pixels, OR 8 X 30 characters. Built in heater for operation below -20°C.
Dimensions:	<b>Console:</b> 223 x 69 x 240mm. <b>Sensor Staff:</b> 4 x 450mm sections. <b>Sensor:</b> 170 x 71mm dia. <b>Weight:</b> console 2.1kg, sensor and staff assembly 2.2 kg.
VLF	
Frequency Range:	15 - 30.0 kHz
Parameters Measured:	Vertical in-phase and out-of-phase components as percentage of total field. 2 relative components of horizontal field. Absolute amplitude of total field.
Resolution:	0.1%.
Number of Stations:	Up to 3 at a time.
Storage:	Automatic with: time, coordinates, magnetic field / gradient, slope, EM field, frequency, in- and out-of-phase vertical, and both horizontal components for each selected station.
Terrain Slope Range:	0° - 90° (entered manually).
Sensor Dimensions:	140 x 150 x 90 mm. (5.5 x 6 x 3 inches).
Sensor Weight:	1.0 kg (2.2 lb.).

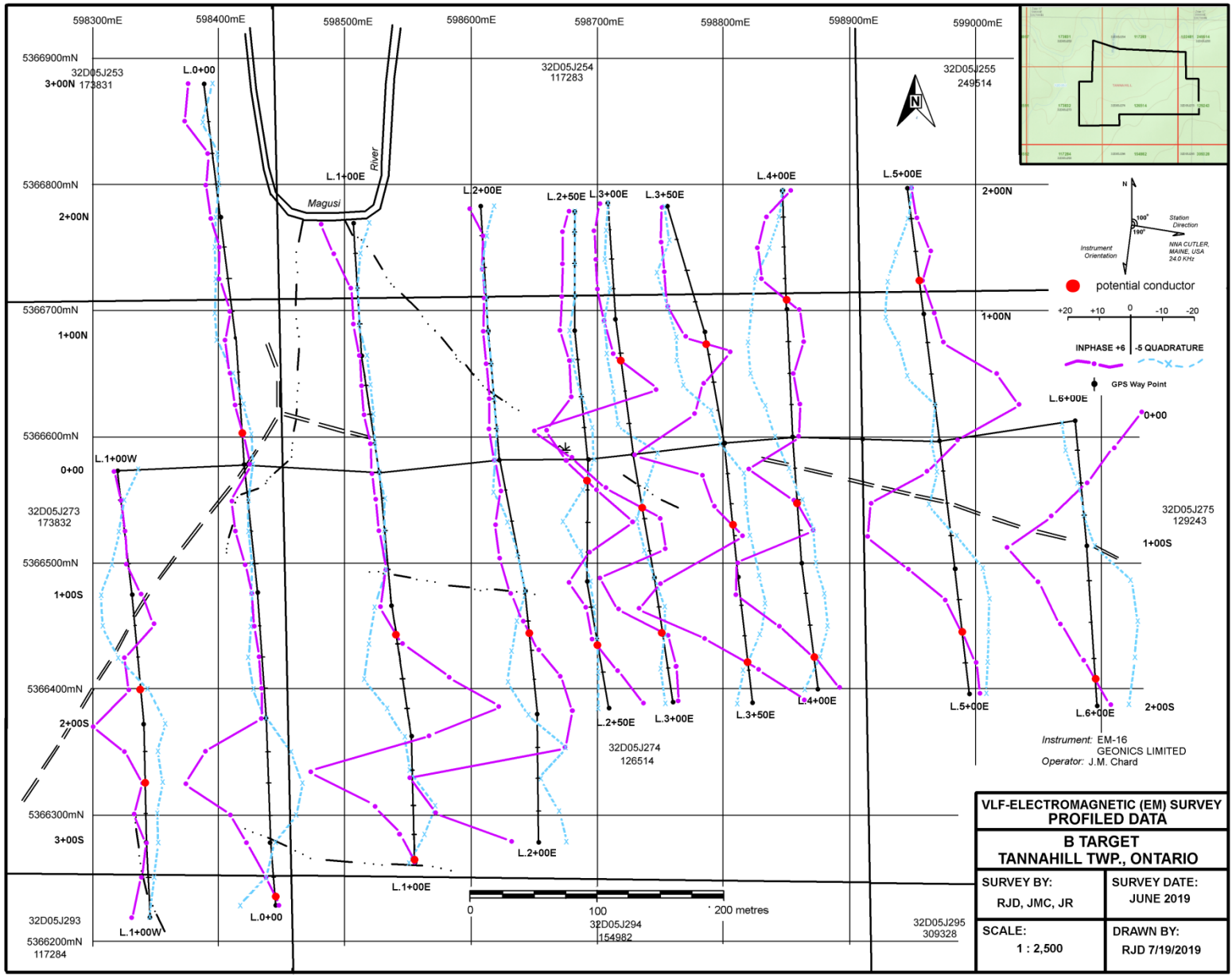
GEM Systems, Inc. Advanced Magnetometers  
For more technical information, visit [www.gemsys.ca](http://www.gemsys.ca)



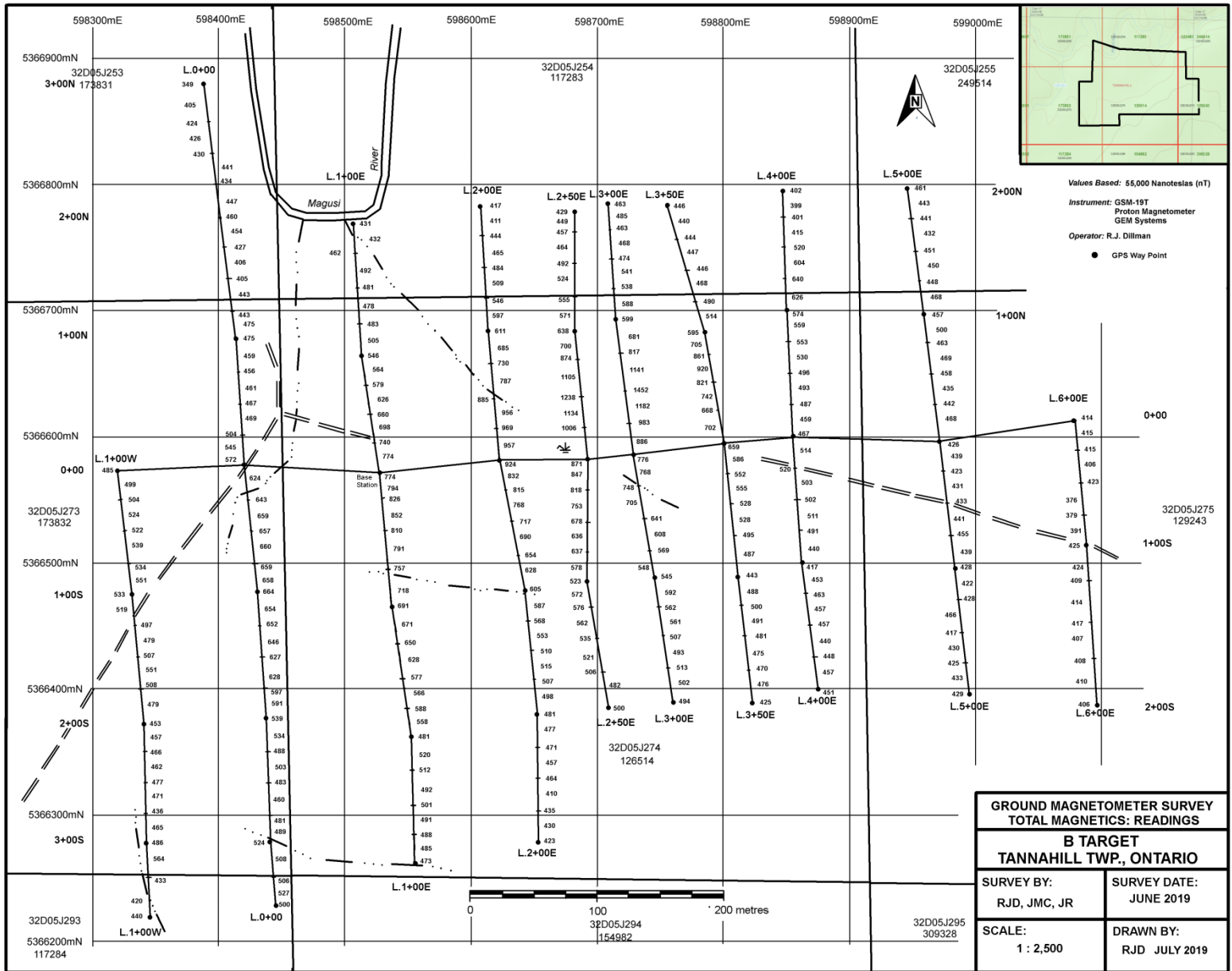
**GSM 19T Magnetometer**







<b>VLF-ELECTROMAGNETIC (EM) SURVEY PROFILED DATA</b>	
<b>B TARGET TANNAHILL TWP., ONTARIO</b>	
SURVEY BY: RJD, JMC, JR	SURVEY DATE: JUNE 2019
SCALE: 1 : 2,500	DRAWN BY: RJD 7/19/2019



Values Based: 55,000 Nanoteslas (nT)  
 Instrument: GSM-19T  
 Proton Magnetometer  
 GEM Systems  
 Operator: R.J. Dillman  
 ● GPS Way Point

<b>GROUND MAGNETOMETER SURVEY</b>	
<b>TOTAL MAGNETICS: READINGS</b>	
<b>B TARGET</b>	
<b>TANNAHILL TWP., ONTARIO</b>	
SURVEY BY: RJD, JMC, JR	SURVEY DATE: JUNE 2019
SCALE: 1 : 2,500	DRAWN BY: RJD JULY 2019

