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**CANADIAN EXPLORATION SERVICES LTD**

**TIGER GOLD EXPLORATION  
CORPORATION**

**Q2154 Harker Heritage Property Area 2 and 4  
Physical Properties**

**C Jason Ploeger, P.Geo – December 8, 2016**

# Tiger Gold Exploration Corporation

## **Abstract**

CXS was contracted by Tiger Gold Exploration Corporation to measure the physical properties of rock samples collected during of prospecting campaign over the Harker Heritage – Area 2 and 4 which is located in Elliott Township. The contract was to cut and measure the High Frequency, Magnetic Susceptibility and Conductivity of these samples.

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## 1. SURVEY DETAILS

### 1.1 PROJECT NAME

This project is known as the **Harker Heritage Property – Areas 2 and 4.**

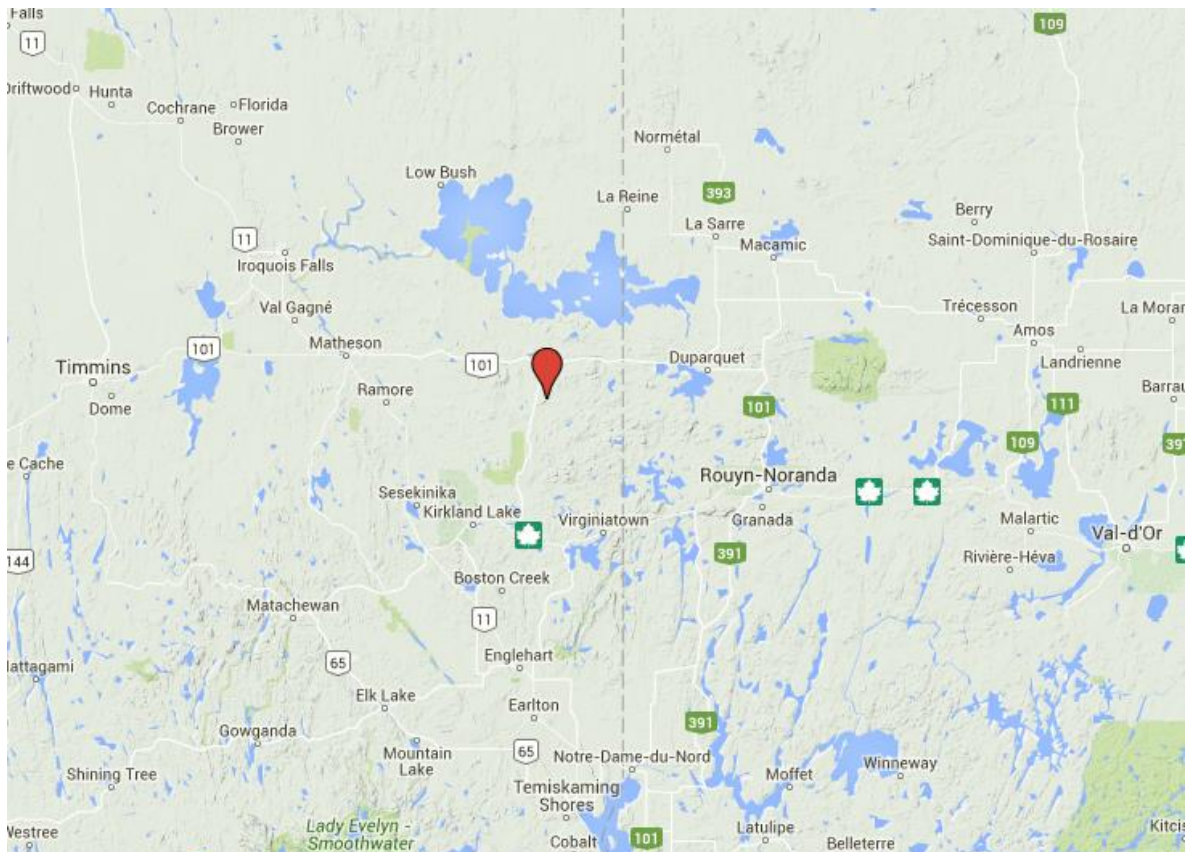
### 1.1 CLIENT

TIGER GOLD EXPLORATION CORPORATION,

103 Government Road.  
Kirkland Lake, Ontario  
P2N 1A9

### 1.2 LOCATION

The Harker Heritage Property is located approximately 50 km northeast of Kirkland Lake, Ontario. The property consists of 375 mining claims comprising of over 850 units spanning Clifford, Elliot, Harker, Holloway, Tannahill and Marriott Townships within the Larder Lake Mining Division.



**Figure 1: Location of the Harker Heritage Property**

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### 1.3 ACCESS

Access to the property was attained with a 4x4 truck via highway 672 and highway 101. Numerous forestry access roads and trails were travelled by ATV to access the various parts of the property.

Area 2 is located within Elliott Township. Access to this area was directly off of highway 672 approximately 30 kilometers north of its intersection with highway 66. From here an ATV was used to access the survey region.

Area 4 is located within Elliott Township. Access to these areas was via highway 672. Approximately 31.6 kilometers north of the intersection highway 66 the property crosses the highway. At this location the truck was parked and an ATV was used for the remainder of the access.

### 1.4 SURVEY AREA

The samples were collected from a previous prospecting traverse with the physical property measurements being recorded at CXS headquarters in Larder Lake.

The samples for Area 2 were recovered from mining claim 4210175 which is located in Elliott Township within the Larder Lake Mining Division.

The samples for Area 4 were recovered from mining claim 4257139 which is located in Elliott Township within the Larder Lake Mining Division.

### 1.5 REGIONAL GEOLOGY

The property is hosted in the Archean aged Blake River Group of the Abitibi sub-province. Volcanic rocks of the area are classified chemically as tholeiitic and calc-alkaline. They include a wide spectrum of rock types ranging from basalts to rhyolites. Intrusive rocks include gabbros, diorites and feldspar porphyries with scattered rare diabase dykes. Mapping in the region has identified a number of east west trending fold axis that lead to the repetition of units in a north south direction.

### 1.6 PREVIOUS WORK

The majority of the work has been reported since 2005 by Tiger Gold Exploration Corporation or one of its subsidiaries. This includes magnetometer, beepmat, spectrometer and VLF surveys along with stripping of over burden and geological mapping.

Prior to this, Lac Minerals drilled 2 diamond drill holes totaling 865 feet and performed some geological mapping. The only other reported work was by Merrick in 1993 where he performed some geological traverses.

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## 2. SURVEY WORK UNDERTAKEN

### 2.1 SURVEY LOG

Date	Description
November 24, 2015	Collected Sample 06099
	Collected Sample 06100
November 25, 2015	Collected Sample 06101
February 18, 2016	Cut sample and test physical properties.

**Table 1: Survey Log**

### 2.2 PERSONNEL

Claudia Moraga of Britt, Ontario collected the rock samples.

C Jason Ploeger of Larder Lake, Ontario cut the samples and performed the physical property readings.

### 2.3 SURVEY SPECIFICATIONS

The rock samples were collected on a previously reported prospecting campaign. These samples were cut and the physical property measurements were taken using a GDD MPP-EM2.



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### 3. OVERVIEW OF SURVEY RESULTS

#### Sample 06099

**NAD 83 - Zone 17N  
585512E 5357883N**

High Frequency	0.0
Magnetic Susceptibility	1.6 (10 <sup>-6</sup> SI)
Conductivity	0.0 (MHOS/M)

The outcrop this sample was collected from was in an area covered with a recent re-plant of jack pine.



**Figure 2: Sample 06099**

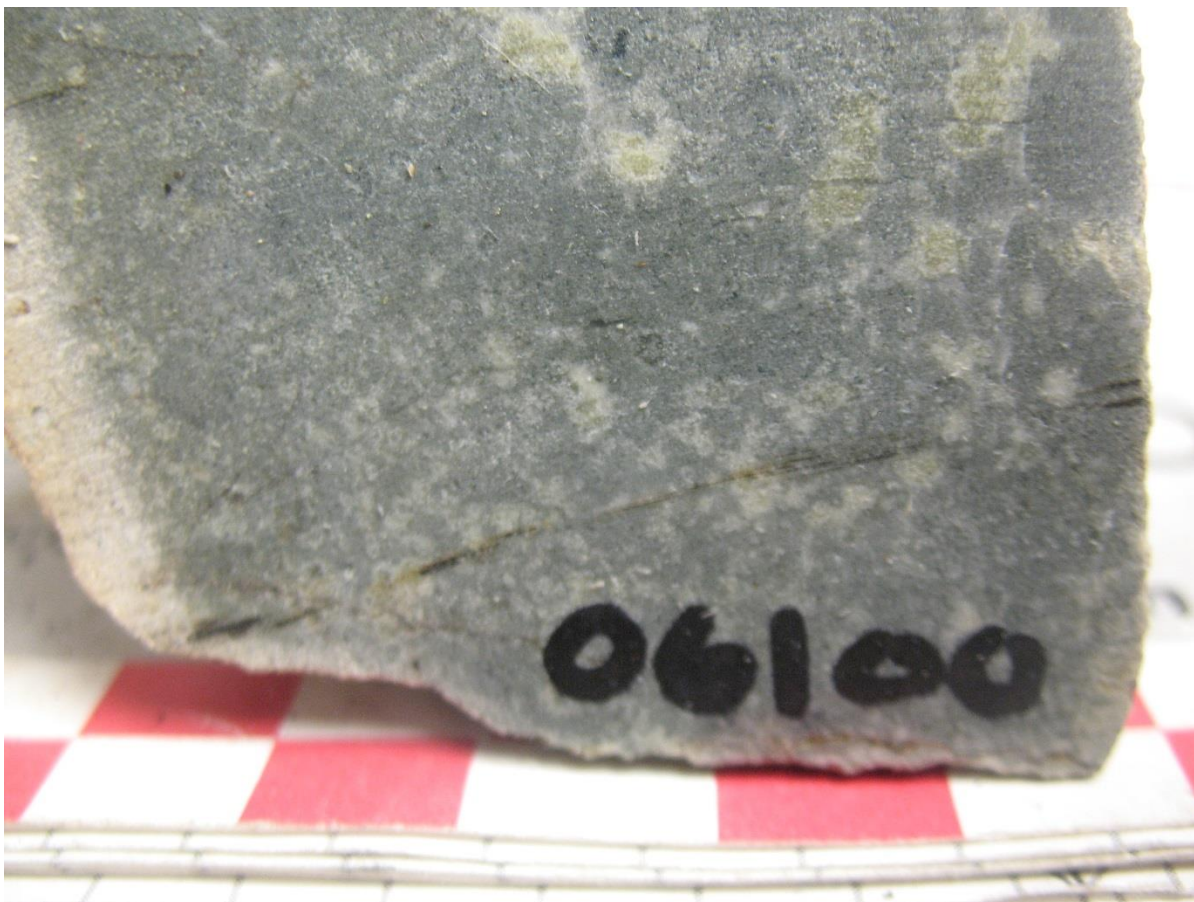


**Sample 06100**

**NAD 83 - Zone 17N  
586020E 5358039N**

High Frequency	0.0
Magnetic Susceptibility	0.4 (10 <sup>-6</sup> SI)
Conductivity	0.0 (MHOS/M)

The outcrop this sample was collected from was in an area covered with spruce.

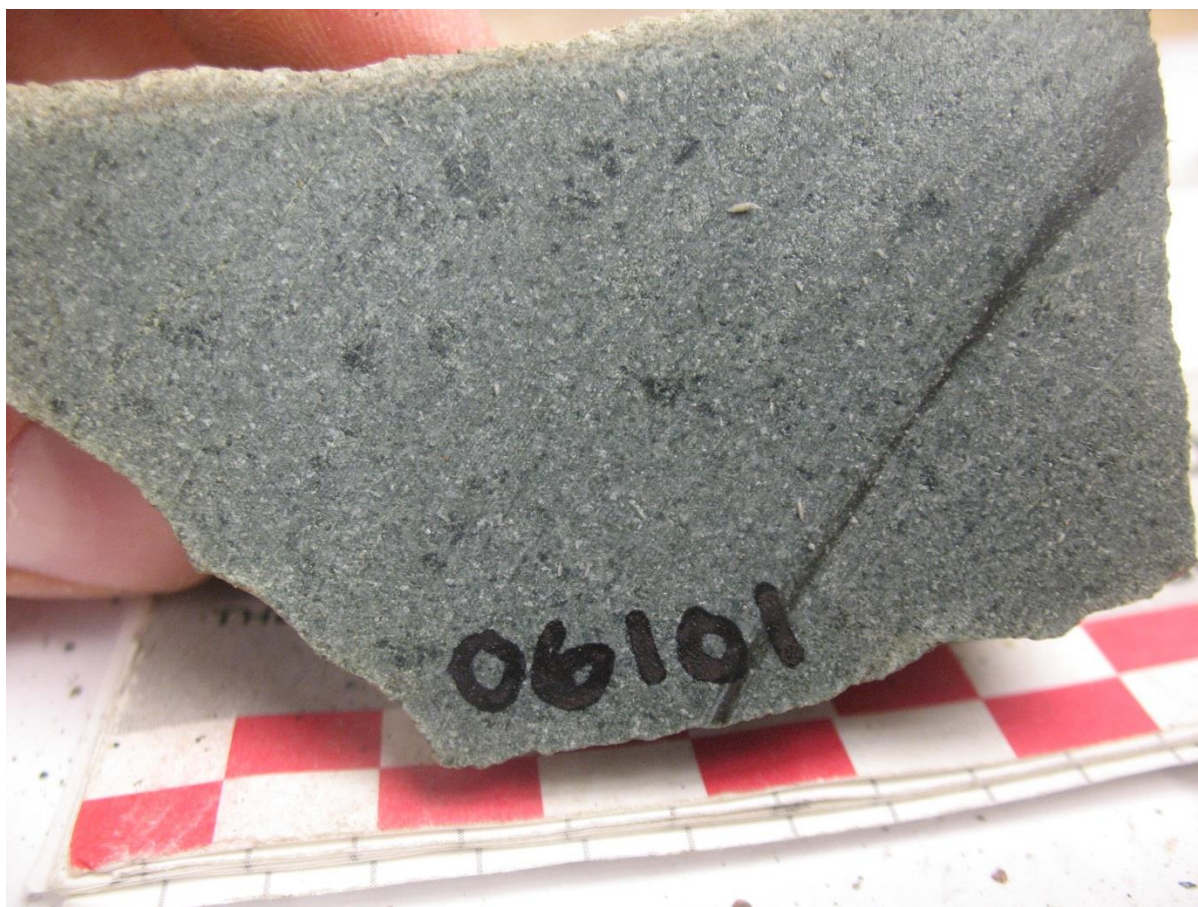


**Figure 3: Sample 06100**

**Sample 06101****NAD 83 - Zone 17N  
590023E 5360465N**

High Frequency	0.0
Magnetic Susceptibility	0.7 (10 <sup>-6</sup> SI)
Conductivity	0.0 (MHOS/M)

The outcrop this sample was collected from was in an area covered with a mix of trees.



**Figure 4: Sample 06101**

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From these two areas three samples had been previously collected. The physical properties measured indicate a weak response in high frequency, magnetic susceptibility and conductivity. This indicates that there should be little response in IP, magnetometer and EM surveys from these geological units that these samples represent.

## 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 not have nor expect an interest in the properties and securities of **Tiger Gold Exploration Corporation**.
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  
December 8, 2016



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**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 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](http://www.garmin.com)*

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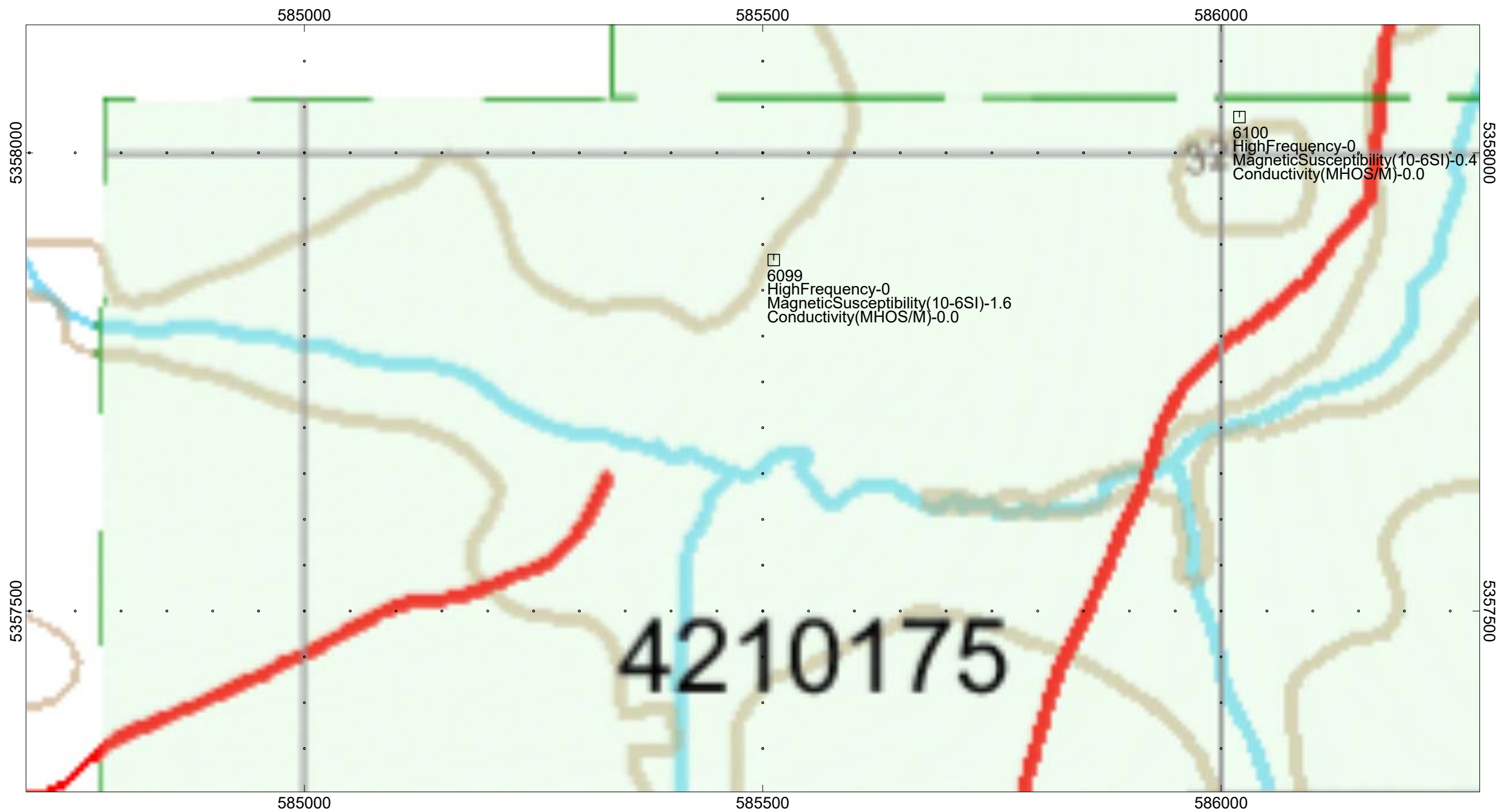
## APPENDIX C

### LIST OF MAPS (IN MAP POCKET)

Physical Properties Plan Map (1:5000)

- 1) Q2154-Tiger-Harker Heritage-Area 2-PhysProp
- 2) Q2154-Tiger-Harker Heritage-Area 4-PhysProp

**TOTAL MAPS = 2**



Scale 1:5000

100 0 100 200 300

(meters)

NAD83 / UTM zone 17N

**TIGER GOLD  
EXPLORATION CORPORATION**

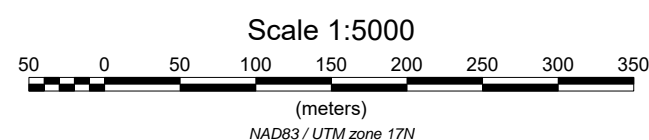
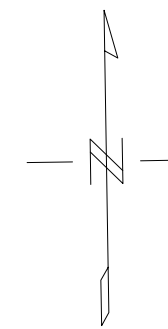
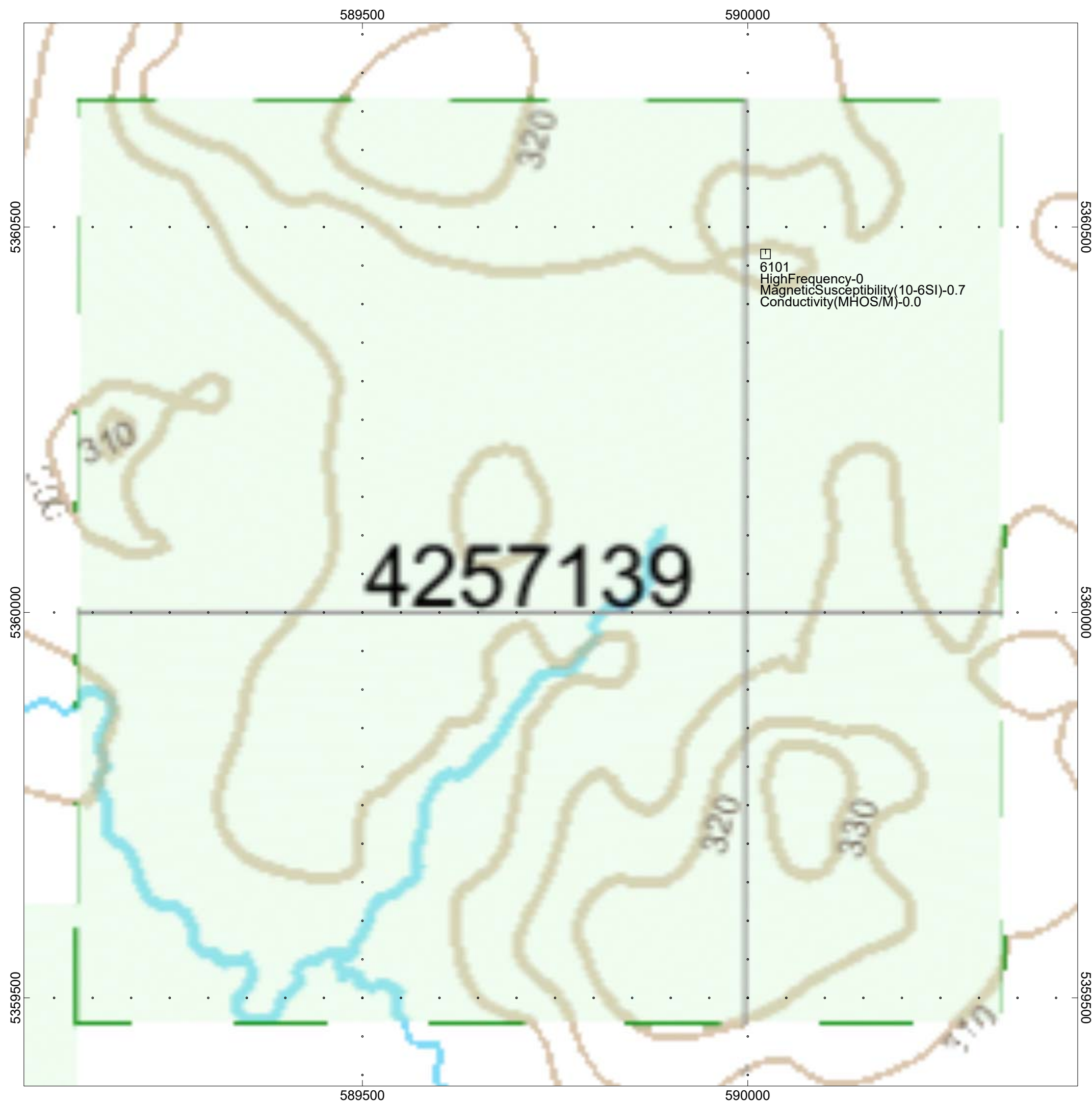
**HARKER HERITAGE PROPERTY  
Area 2  
Elliott Township, Ontario**

PHYSICAL PROPERTY PLAN MAP

Tested By: C Jason Ploeger, B.Sc.  
Map Drawn By: C Jason Ploeger, B.Sc.  
Decemeber 2016



Drawing: Q2154-TIGER-HARKER HERITAGE-AREA 2-PHYSPROP



**TIGER GOLD  
EXPLORATION CORPORATION**

**HARKER HERITAGE PROPERTY  
Area 4  
Elliott Township, Ontario**

PHYSICAL PROPERTY PLAN MAP

Tested By: C Jason Ploeger, B.Sc.  
Map Drawn By: C Jason Ploeger, B.Sc.  
Decemeber 2016



Drawing: Q2154-TIGER-HARKER HERITAGE-AREA 4-PHYSPROP



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