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Report on Ground Geophysical Work, Reconnaissance and Rockchip Sampling

Lac Panache Project

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Dated: 9/04/2019

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INTRODUCTION

The Lac Panache Project lies about 40km southwest of the 1,850 Ma Sudbury Igneous Complex, the largest known concentration of nickel-copper sulphides in the world. The project hosts a large portion of the Panache gabbro intrusion which is part of the regional extensive Nipissing Gabbro Suite (2215 million years old).

The property is subject to an option agreement between Rumble Resources and Gordon Salo.

This report summarises work completed during Rumble's first season of exploration at Panache. A reconnaissance visit and rockchip sampling were carried out in July 2018. A ground EM survey was completed in January 2019.

LOCATION AND ACCESS

The Panache Project (approximately 30km² in area) is located 40km southwest of the city of Sudbury, Ontario, Canada. The property is located within the townships of Dieppe and Truman in the Sudbury Mining Division. (Figure 1) Panache is reached by traveling west from Sudbury on regional road 55 to Whitefish then south on Route 10 to the marina on Lake Panache.

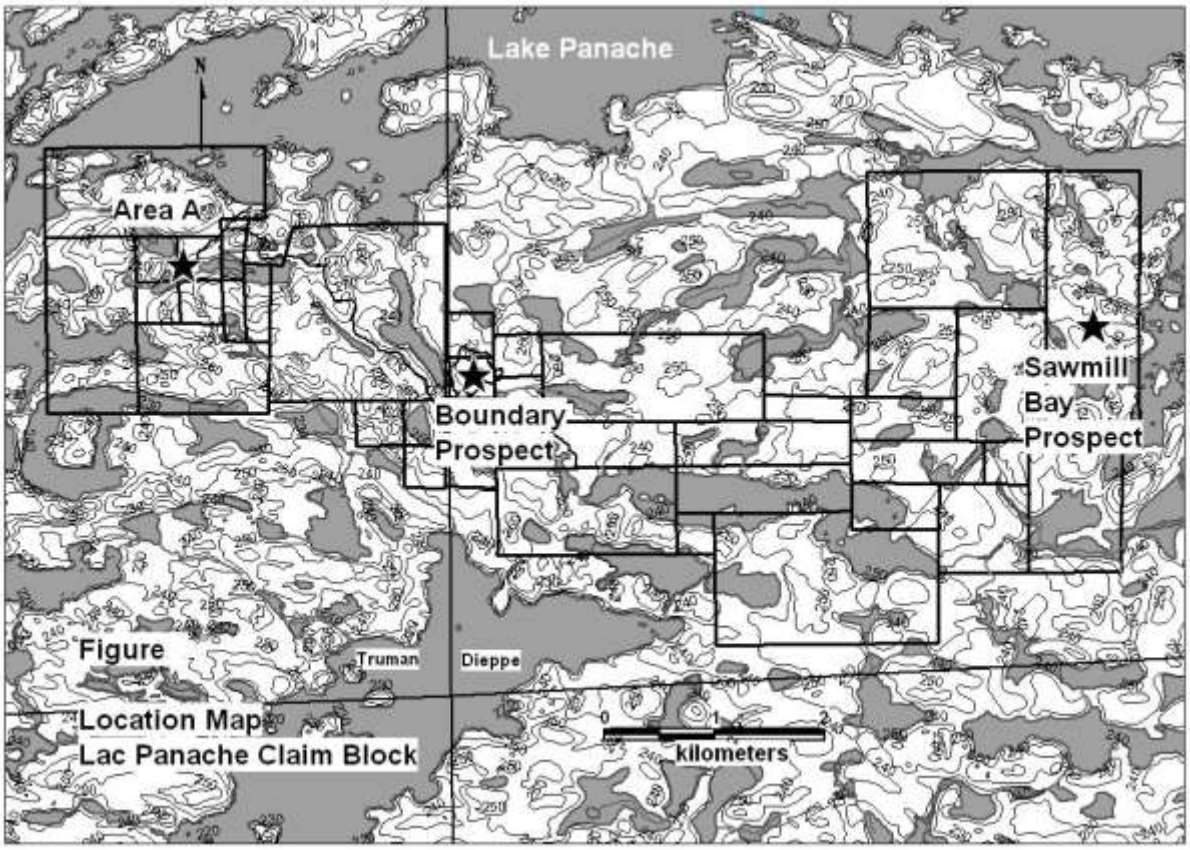


Figure 1 – Location Plan

GEOLOGY

The Lac Panache project area lies within the Southern Province, one of three subdivisions within the Canadian Shield. Palaeoproterozoic metasedimentary and subordinate metavolcanics of the Huronian Supergroup (~2.5 - 2.22 Ga) form part of the Southern Province (Bennett et al., 1991). The Huronian Supergroup lies unconformably on Archaean rocks of the Superior Province.

The Huronian metasediments are described by Card (1975, 1978) as being dominantly coarse clastic sedimentary rocks derived mainly from the Superior Province craton to the north and deposited, for the most part, in fluvial-deltaic and marine neritic environments. Intrusive rock units identified in the project area include Nipissing Diabase (2.15 Ga) and diabase dikes (1.2-1.5 Ga). Rocks in the region were subjected to deformation and regional metamorphism during a series of events that started prior to emplacement of the Nipissing Diabase and culminated around 1.7-1.8 Ga in the Penokean Orogeny (Card, 1975).

The term “Nipissing Diabase” has been used to refer to tholeiitic composition gabbro intrusions of Palaeoproterozoic age (~2.1 Ga) that occur throughout the eastern part of the Southern Province (Card, 1975). These intrusions commonly exhibit the effects of greenschist to amphibolite facies regional metamorphism. In the metagabbros the original pyroxene and calcic plagioclase have been replaced by amphibole, sodic plagioclase, epidote, talc, chlorite and quartz (Bennett et al., 1991). The Nipissing Diabase or Sudbury Gabbro lithologies have been well described by earlier workers (Card and Pattison, 1973, Lightfoot and Naldrett, 1996). Lightfoot and Naldrett's column (Figure 2) is of particular use in this property description.

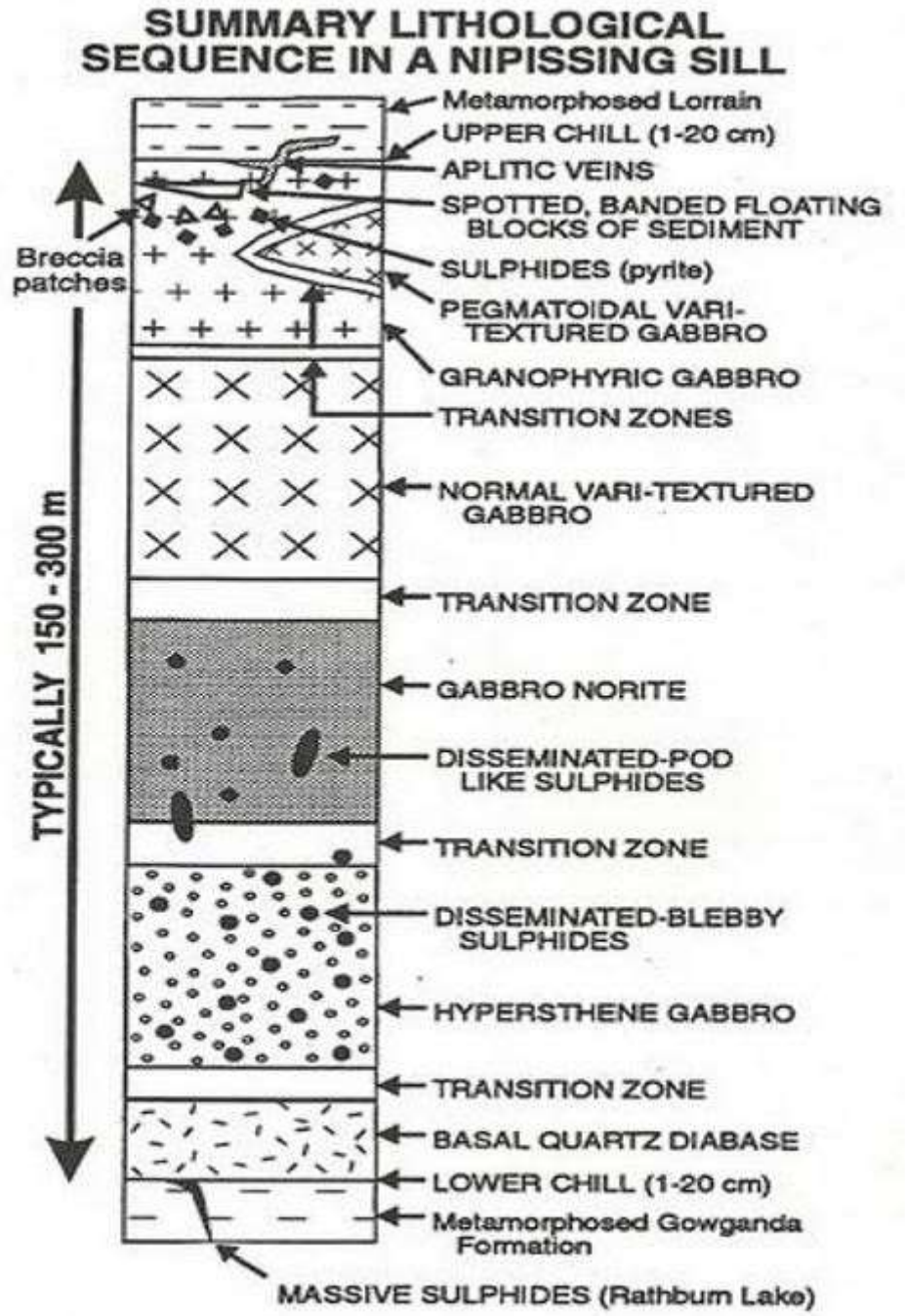


Figure 1c. Typical sequence of lithologies seen in a well-differentiated intrusion of Nipissing gabbro showing the relationship between silicate rocks and sulphide mineralization.

Figure 2 – Typical Nipissing Column (from Lightfoot And Naldrett, 1996)

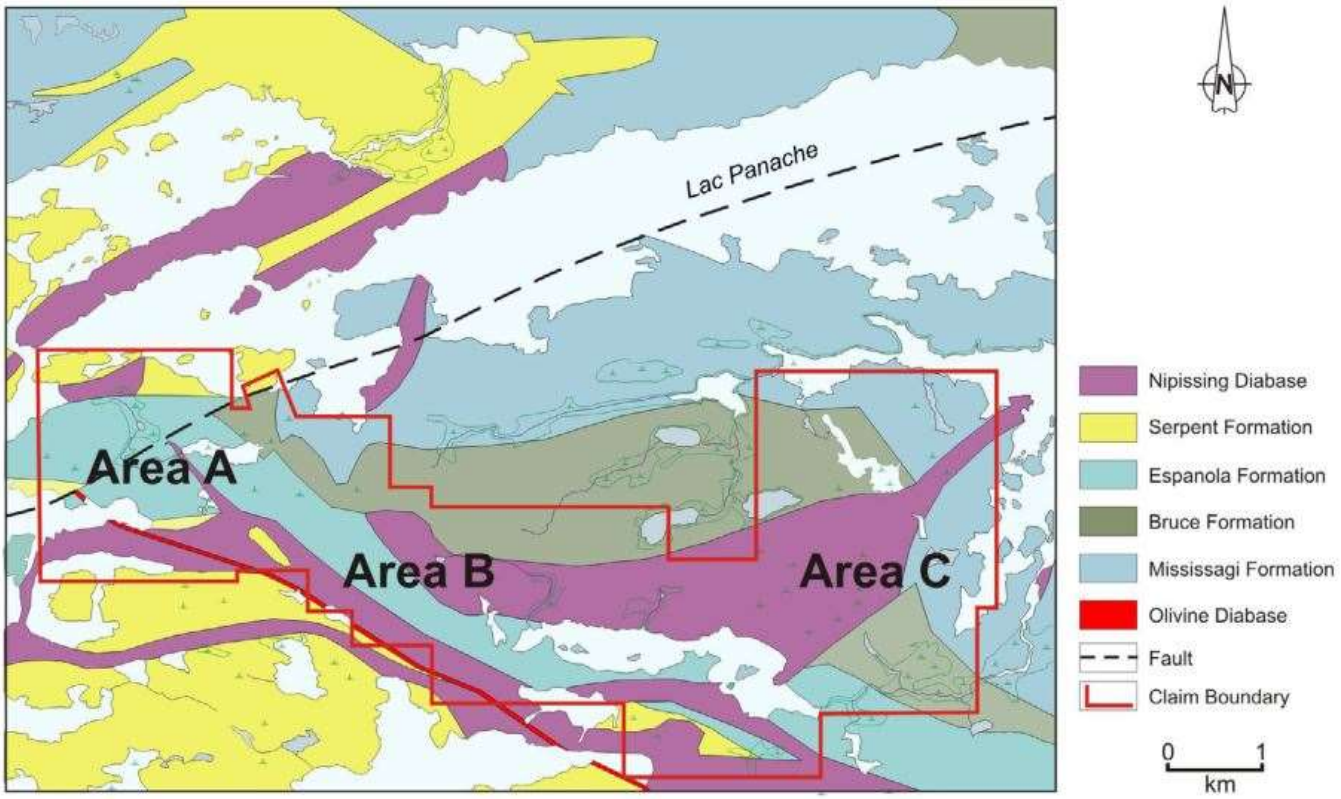


Figure 3 – Lac Panache – Regional Geology

Two Nipissing sills are present in the map area (Figure 3). The first and northernmost is an arcuate body with a southern arc extension. Strike length is approximately 7800 meters and maximum width is approximately 1200 metres. Narrowing possible "feeder" structures extend to the northeast and northwest. Exploration area "B" or "Boundary Prospect" is on the western extension while the "Sawmill Bay" or "C" area is on the eastern extension.

The second sill structure is approximately 750 meters south of the first sill, strikes southeast at 120 degrees, has a strike length of approximately 10,000 metres in the map area with a width of approximately 1200 meters. This structure contains the "A" exploration area.

All three exploration areas occur on or near the southern sill contacts. The contact between Nipissing and the Huronian sediments occurs with Espanola Formation at areas "A" and "B" and near the Mississagi Quartzite in the Sawmill Bay zone.

Copper, nickel and platinum-palladium-gold mineralization occur in weakly disseminated to massive phases in both sills. The "A" area (Figure 4) contains two massive sulphide occurrences in small exploration pits within a 50 meter strike zone. The "B" zone (Figure 5) has significant Cu-Ni-PGM mineralization over an approximately 950 meter strike length. Sawmill Bay (Figure 6) has a higher grade Cu-Ni-PGM trend approximately 2500 meters in strike length.

All of the units shown in (Figure 2) are represented in the property area except for the basal quartz diabase and the lower chill units. These units are best exposed in the "B" exploration area which has been stripped, mapped and sampled over a strike length of almost 1 kilometre in the central portion of the intrusion.

Area A contains two massive sulphide lenses on the Nipissing-Espanola Formation contact which contain highly anomalous metal values. These occur on and near the Nipissing-Espanola contact although this contact has been exposed by stripping over only the area adjacent to the pits. There may be a role for postulated structure in the exposure environment and this structure may theoretically be remobilizing mineralization from a deeper source.

Area B represents a zone of contourable, anomalous, copper-nickel-PGM mineralization extending over 950 meters of Nipissing strike on and along the adjacent Nipissing-Espanola contact. Mineralization is present in the brecciated Espanola Formation along the diabase-metasediment contact as well as in the pyroxene-rich phases with characteristic disseminated and interstitial sulphide.

Area C, with a known strike extension of approximately 2.5 kilometers, has excellent potential for exploration. Outcrop coverage is relatively poor and the southwest extension strikes into an area of swampy topography. Trends of selected higher-grade samples (Figure 6) indicate a significant length of anomalous mineralization. Nipissing composition also appears to be quite mafic (sample GS.10.23) which also contains mineralization with free grains of pentlandite. In contrast sample GS.10.24 which is located almost 700 meters northeast of the anomalous trend contains 45% quartz and granophyre.

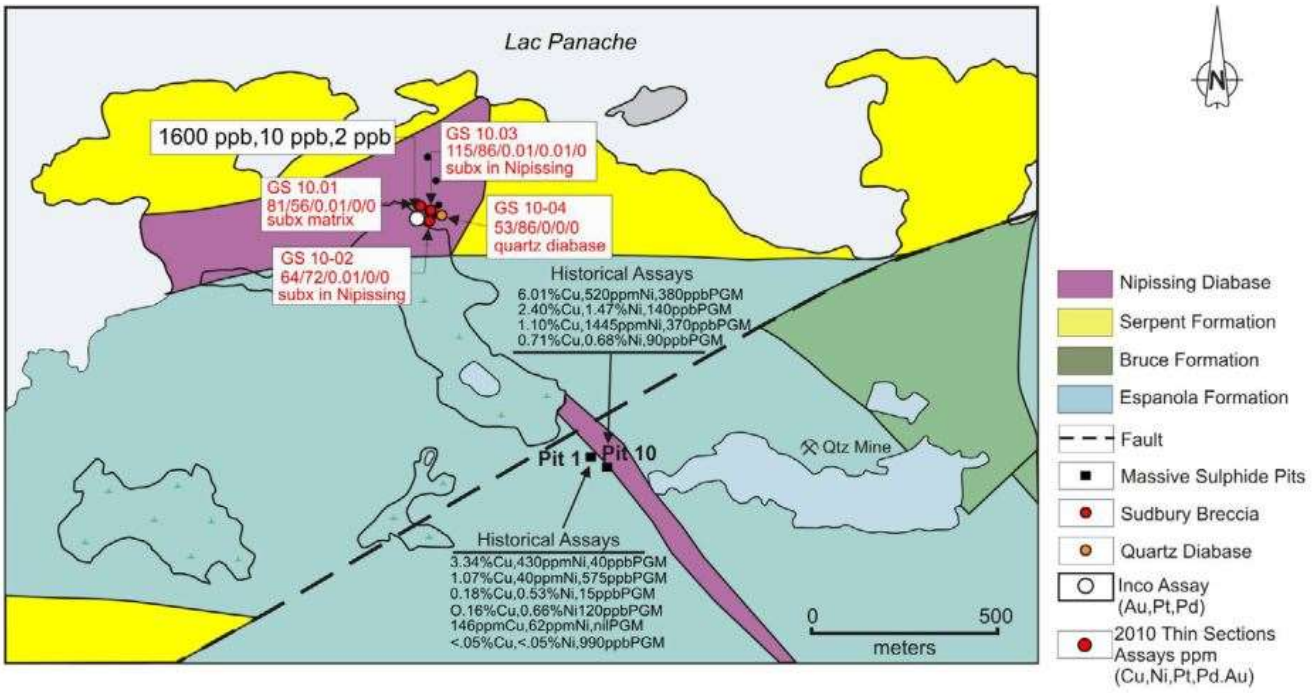


Figure 4 – Area A with historical assays and thin section assays by Panache Platinum 2010

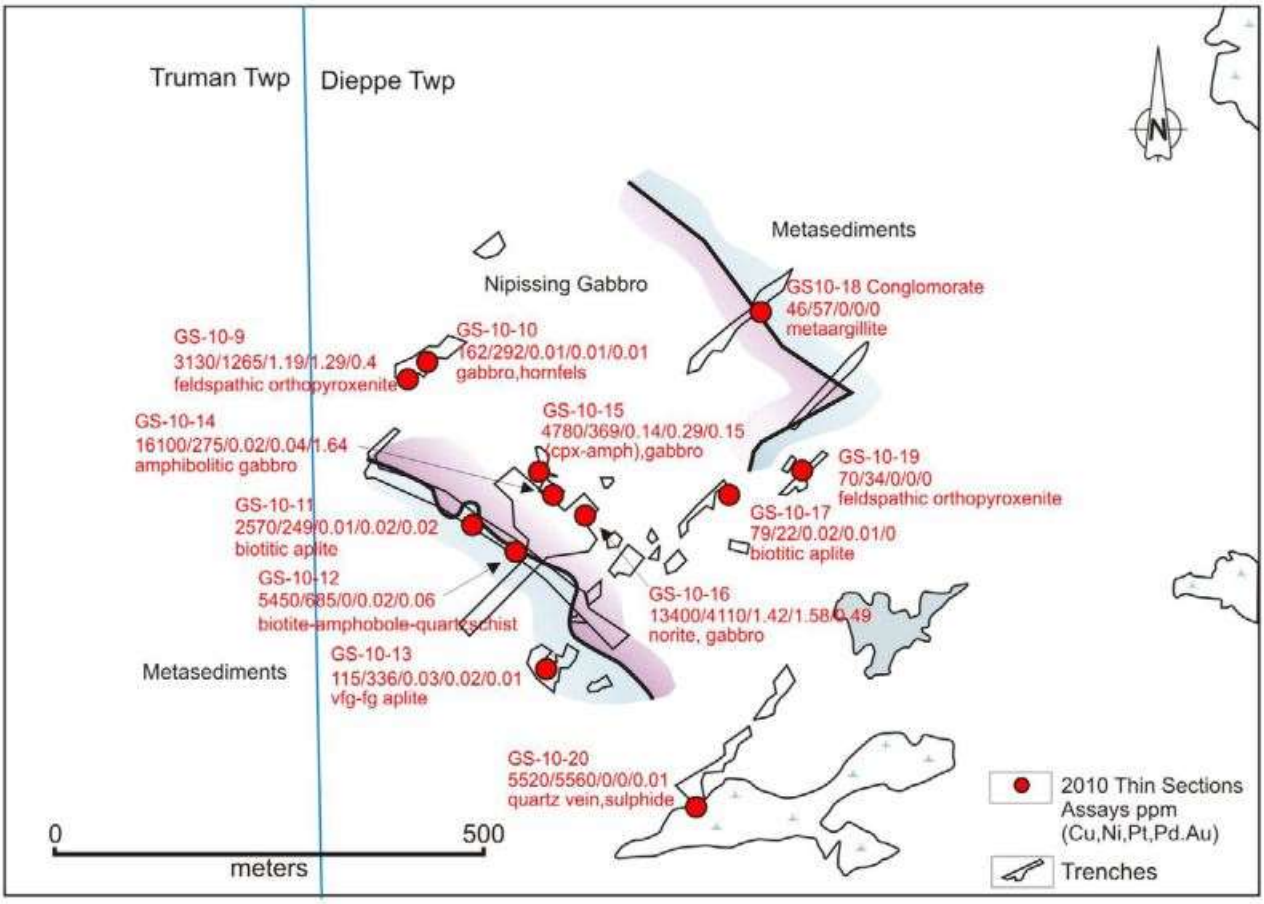


Figure 5 – Area B (Boundary Prospect) with historical assays and thin section assays by Panache Platinum 2010

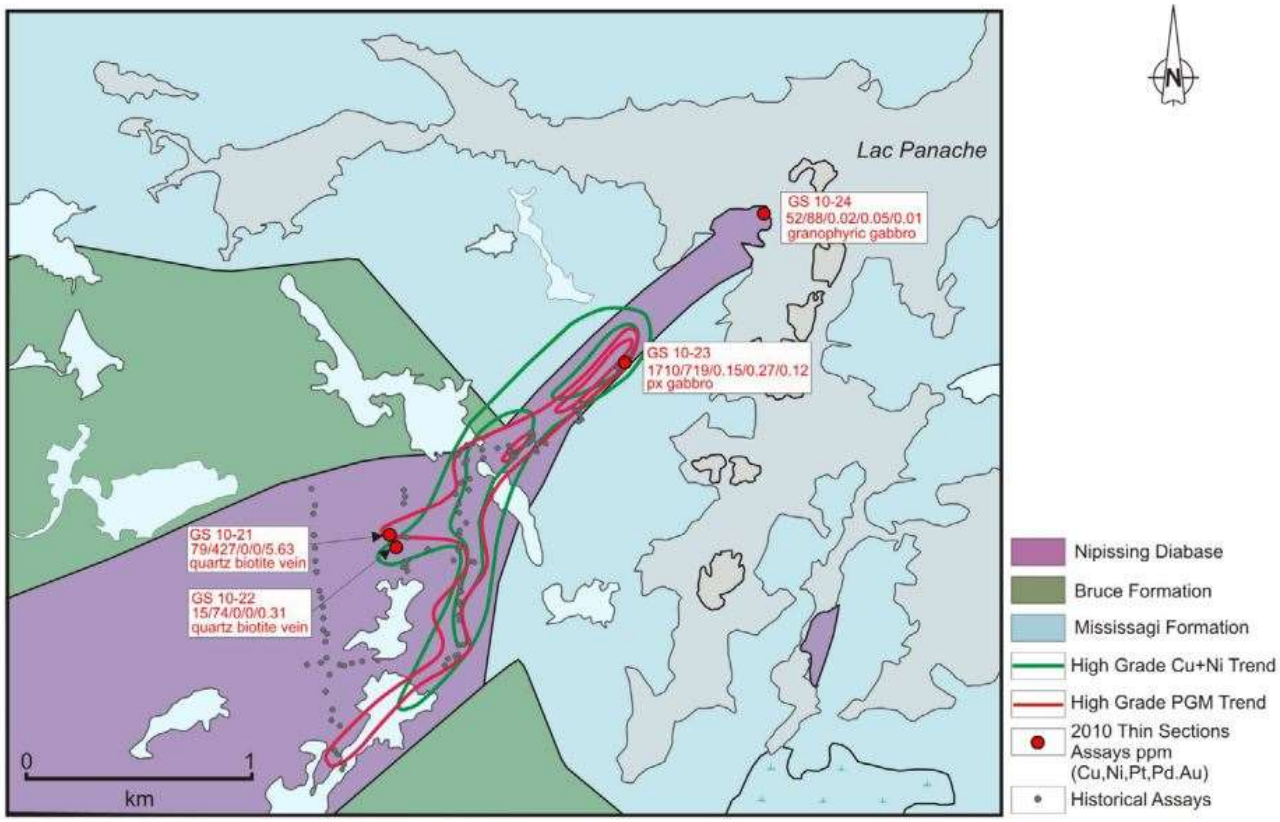


Figure 6 – Area C (Sawmill Bay Prospect) with historical assays and thin section assays by Panache Platinum 2010

WORK DONE AND RESULTS

During 2018 a review of previous exploration was undertaken by Rumble. Since 1883, the Sudbury mining field has been globally significant with the Sudbury Basin the second-largest supplier of nickel ore in the world, and new discoveries continuing to be made. It is one of the most productive nickel-mining fields in the world with over 1.7 billion tonnes of past production, reserves and resources.

Nickel-copper and platinum group metals ("PGM") bearing sulphide minerals occur in a 60 km by 27 km elliptical igneous body called the Sudbury Igneous Complex ("SIC"). The current model infers the SIC was formed some 1,844 million years ago after sheet-like flash/impact melting of nickel and copper bearing rocks by a meteorite impact. The SIC is within a basin like structure (Sudbury Basin) which had been covered by later sediments and has subsequently been eroded to the current level. Mineralization occurs within the SIC as well as in the neighbouring country rocks in close association with breccias and so-called 'Offset Dykes'. Offset Dykes with metamorphosed (hot) Sudbury breccias have become the target of progressively more intense exploration interest in recent years following the discovery of blind economic deposits. Offset dykes are typically quartz-diorite in composition and extend both radially away from and concentric to the SIC. It is important to note that the Offset Dykes developed downwards from the impact melt sheet. Melt material migrated down into the fractures caused by the impact below the SIC. The melt carried metal sulphides that accumulated into deposits within the Offset Dykes by gravity and pressure gradients (impact rebound). Nearly half of the nickel ore at Sudbury occurs in breccias and Offset Dykes in the footwall rocks of the SIC.

It has been confirmed that previous regional exploration at Panache is limited to surface grab sampling over areas of outcrop to sub-crop. Significant areas of prospective Nipissing Gabbro are covered by swamps, bogs and transported cover.

- No systematic soil sampling has been completed at Panache
- No detailed ground TEM and drilling has been conducted over the areas of interest

Three areas of interest (to date) have been identified and prospecting activities conducted by well-known Sudbury prospector, and owner, Gordon Salo:

Area A (Figure 7)

Prospecting activities have exposed a set of massive sulphide pipes in metasediments. The gabbro intrusion appears to be truncated by a regionally extensive southwest trending fault corridor. Rock chip results include up to:

- 6.01% Cu, 1.47% Ni, 1.6 g/t PGM and 0.49% Co

Area B (Figure 7)

Trenching with grab sampling has highlighted strong base metal mineralisation with PGM's along the basal zone to a gabbro intrusion. Wide widths of gossan have been exposed (10m in width). Grab sampling has returned up to:

- 1.61% Cu, 0.49% Ni, 1.1% Co, 1.64 g/t Au, 1.64 g/t Pt and 1.58 g/t Pd.

Area C (Figure 7)

Grab sampling and petrography has identified a 2.5km zone of strong base metal and precious metal anomalism associated with an inferred gabbroic feeder. Grab sampling has returned up to:

- 0.59% Cu, 0.16% Ni, 524.3 g/t Au, 0.45% Co, 0.64 g/t Pt, 1.18 g/t Pd.

These grab sampling results are considered very significant as the average disseminated sulphide percentage for the gabbroic rock chips was approximately 5% indicating the sulphide is well endowed with base and precious metals.

The property has been investigated by a number of mining exploration companies including Pacific North West Capital Corporation, Mustang Minerals Corporation and Argosy Minerals Incorporated. These investigations took place between 2000 and 2006. In addition to these projects much prospecting, trenching and sampling was carried out by the holder of the property, Gordon Salo.

During 2006, airborne TEM (AeroTEM) was conducted in Area C on 100m line spacing. Numerous conductors correlating with the inferred feeder dyke trend and associated anomalous geochemistry were identified and a IP survey was planned, however, it was not completed. In general, the three zones of interest have not had ground TEM or subsequent drilling.

Compilation of this previous work as well as the more recent exploration indicates that this property has considerable future exploration potential.

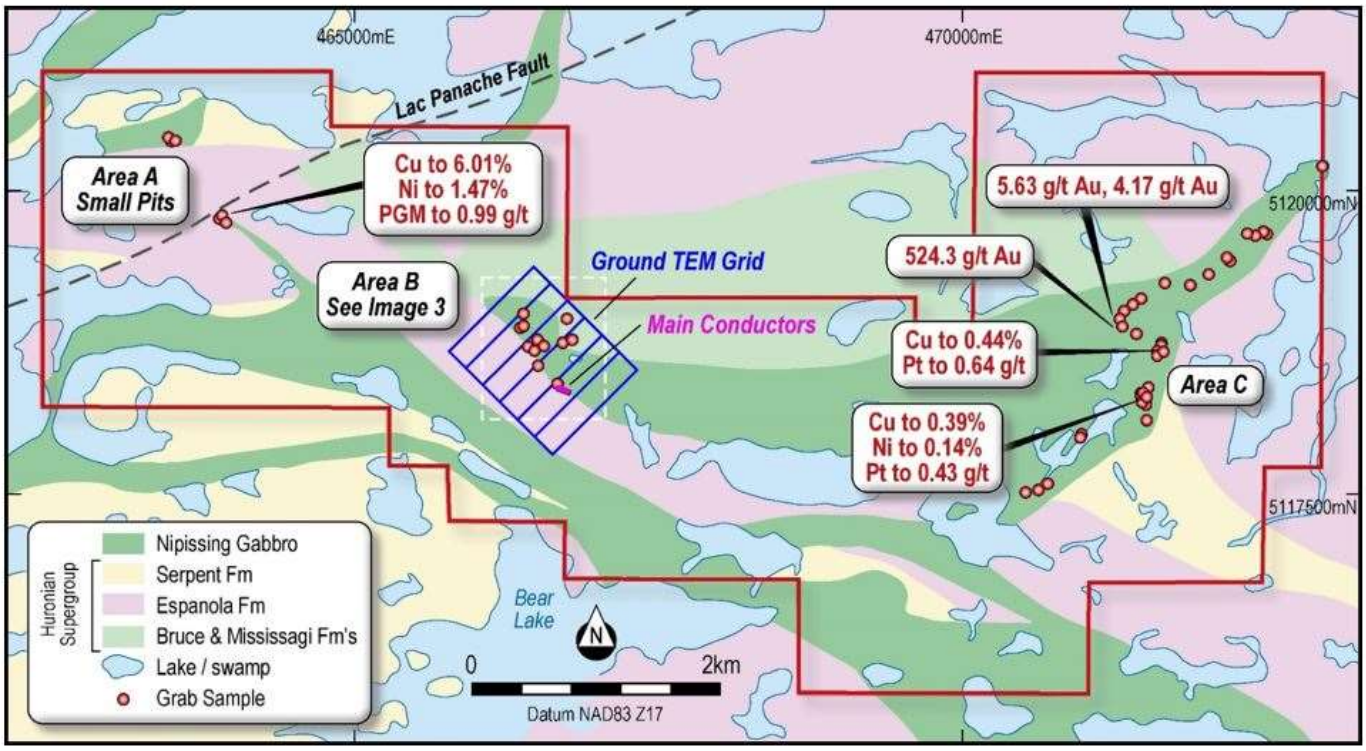


Figure 7 – Panache Project – Local Geology with Grab Sampling

This project combines both early and advance exploration potential. There is no apparent reason why the known sulphide distribution should not have a greater (and economic) extent.

Geological Reconnaissance and Rock Chip Sampling

Claim #137286, Cell #41I03L151

During July 2018, Rumble geologists visited the Lac Panache Project. Geological reconnaissance was conducted with visits to Areas A and B. Areas of exposed wide mineralised gossans were recorded up to 10 metres in width and 950 metres of strike. (Figure 8)

Figure 8 – Exposed Wide Mineralised Gossans – Area B (up to 10m wide and 950m of strike)

Two Grab/Rockchip samples were taken at Area B and analysed by ALS Canada Ltd. Rock chip locations and descriptions are given in Table 1 below. Coordinates are in NAD83 datum and UTM17N projection. Results are supplied in Appendix 2.

Date	Prospect	Sample ID	Easting_NAD83Z17	Northing_NAD83Z17	Description
10/07/2018	Area B	LPRR1801	466525	5118545	Altered f to mg quartzite with pyrite, fuchsite, siderite, rutile and erthyrite - strong Na alteration
10/07/2018	Area B	LPRR1802	466530	5118524	Altered f to mg quartzite with pyrite, fuchsite, siderite, rutile and erthyrite - strong Na alteration

Table 1 – Lac Panache Area B - Rockchip Sample Locations

The Rockchips were taken within Claim #137286, Cell #41I03L151 and locations are shown on Figure 9.

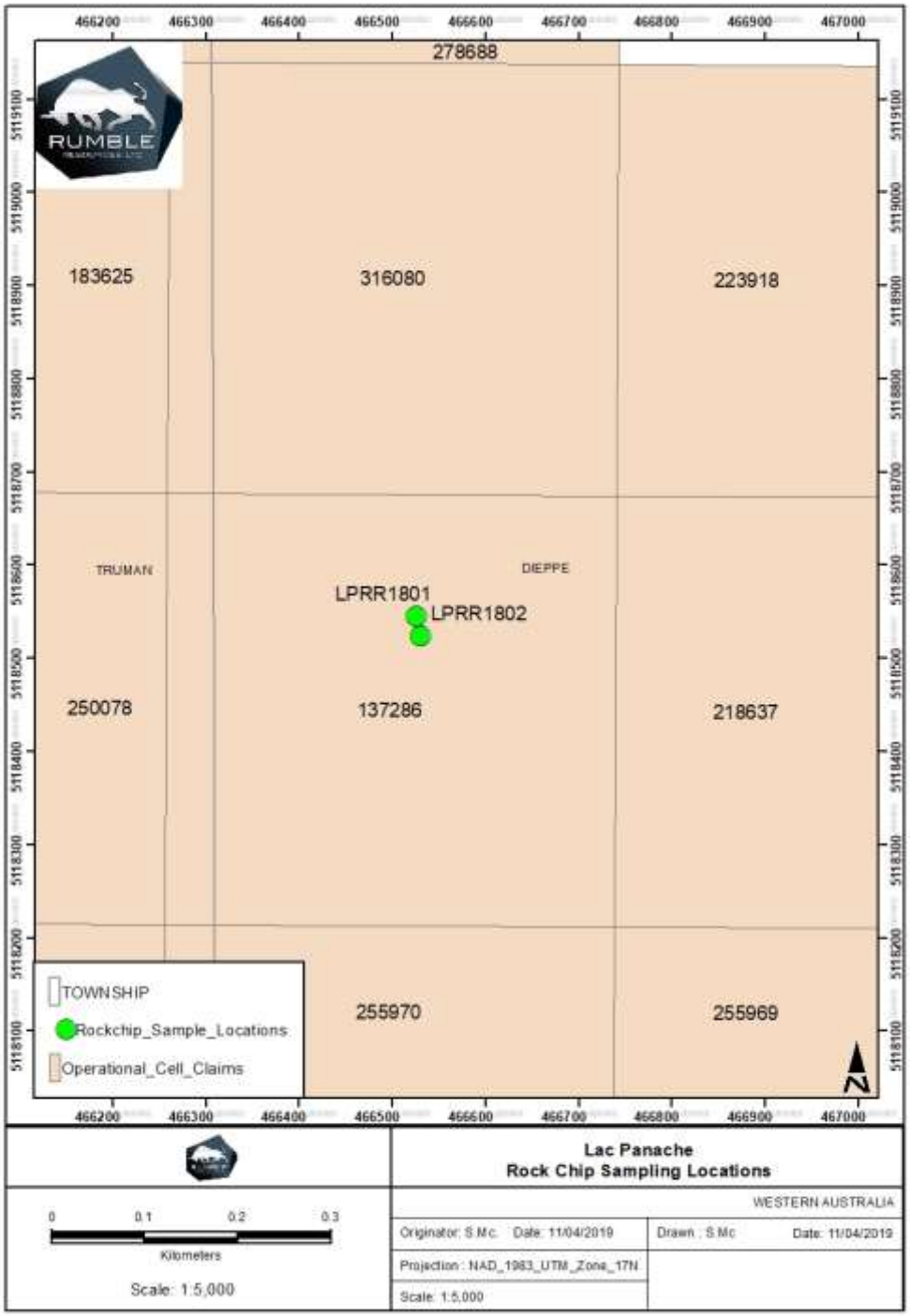


Figure 9 – Location of Rockchip samples

Ground Electromagnetic Survey

A Ground TEM survey was completed over Area B in January 2019. The survey comprised of a 1.2km by 1km grid on 200m lines and 100m stations using a fixed loop configuration. The transmitter was 20 amps and the receiver being a SMARTEM24 using a HT squid sensor.

The survey covered a section of the Nipissing Gabbro where historic grab sampling (Figure 10) returned strong copper, nickel, cobalt, gold and platinoids anomalism. A number of gossans were exposed by the owner of the property (Gordon Salo). The style of mineralisation at surface is disseminated sulphides in gabbro.

The GTEM has delineated two co-incident conductors at a shallow depth of 40m (Figure 10).

- Conductor A has a strong conductive response (9000 siemens) and is considered to be semi to massive sulphide
- Conductor B has a lower conductive response (400 siemens) and is considered to be a zone of stringer sulphide

The conductors are within strongly resistive rock types (fresh from the surface).

Of Importance:

- The target (conductors) is interpreted to be in a zone of disseminated sulphide bearing gabbro with a pod/shoot of semi to massive sulphide associated with stringer sulphide mineralisation
- The disseminated sulphides are not conductive due to lack of electrical connectivity
- Immediately up dip on the surface, a single historic grab sample returned 0.56% Ni and 0.55% Cu (Figure 10)
- No previous drilling or geophysical targeting over Area B

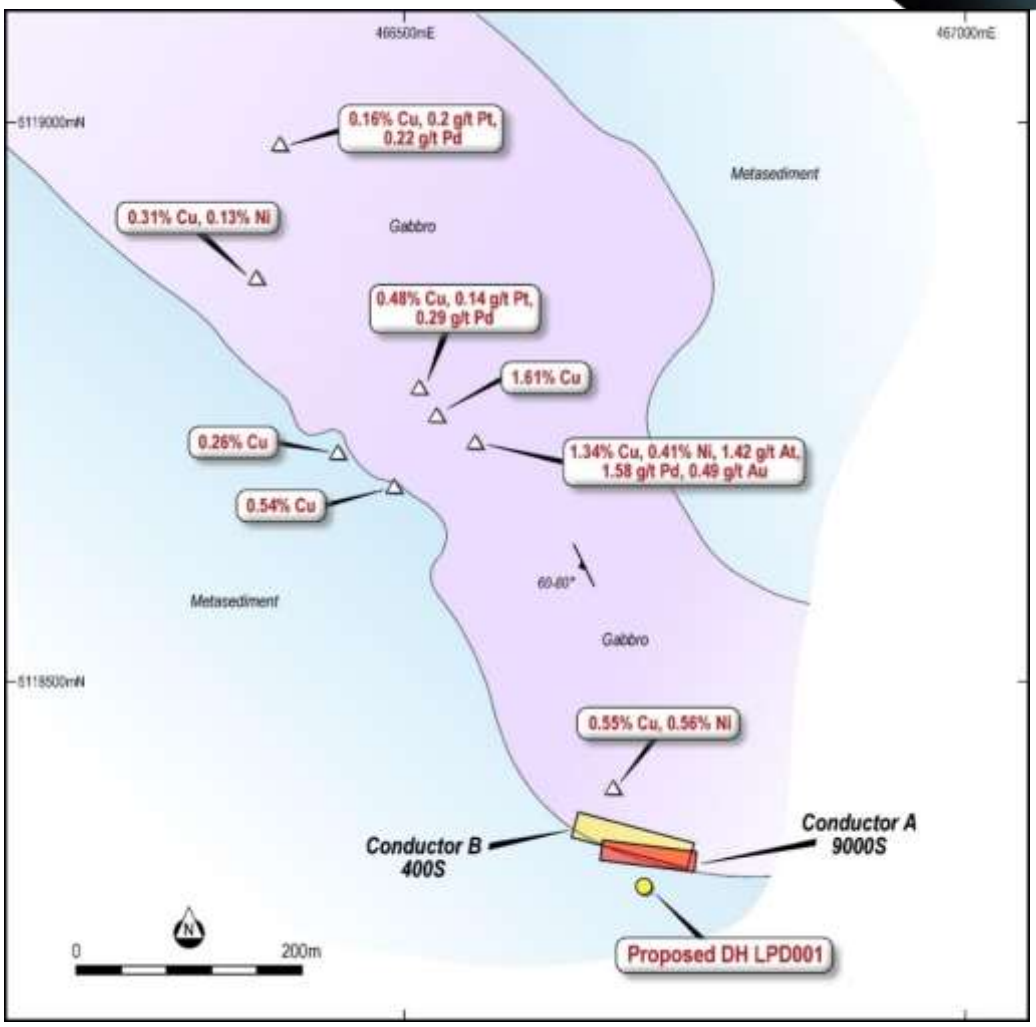


Figure 10 – Panache Project Area B – Geology, Grab sample Results and location of conductors

The ground TEM has identified two (2) compelling shallow coincident conductors at the Panache Project. No previous drilling or geophysical targeting has been completed over the grid area.

The FLTEM (Fixed Loop Transient Electro-Magnetic) survey was completed on a small grid focused on exposed copper and nickel bearing gossans within gabbro over a strike of 950m.

The survey was conducted by Discovery Geophysics with the aim of detecting basement conductors indicative of massive nickel sulphides to be targeted with drilling. The following section discusses the survey parameters and results in detail.

The Ground FLEM Survey work was carried out within the following claims:

Claim #278688, Cell #41I03L111

Claim #183625, Cell #41I03L130

Claim #316080, Cell #41I03L131

Claim #223918, Cell #41I03L132

Claim #250078, Cell #41I03L150

Claim #137286, Cell #41I03L151

Claim #218637, Cell #41I03L152

Claim #180800, Cell #41I03L153

Claim #255970, Cell #41I03L171

Claim #255969, Cell #41I03L172

Survey stations are shown on Figure 11.

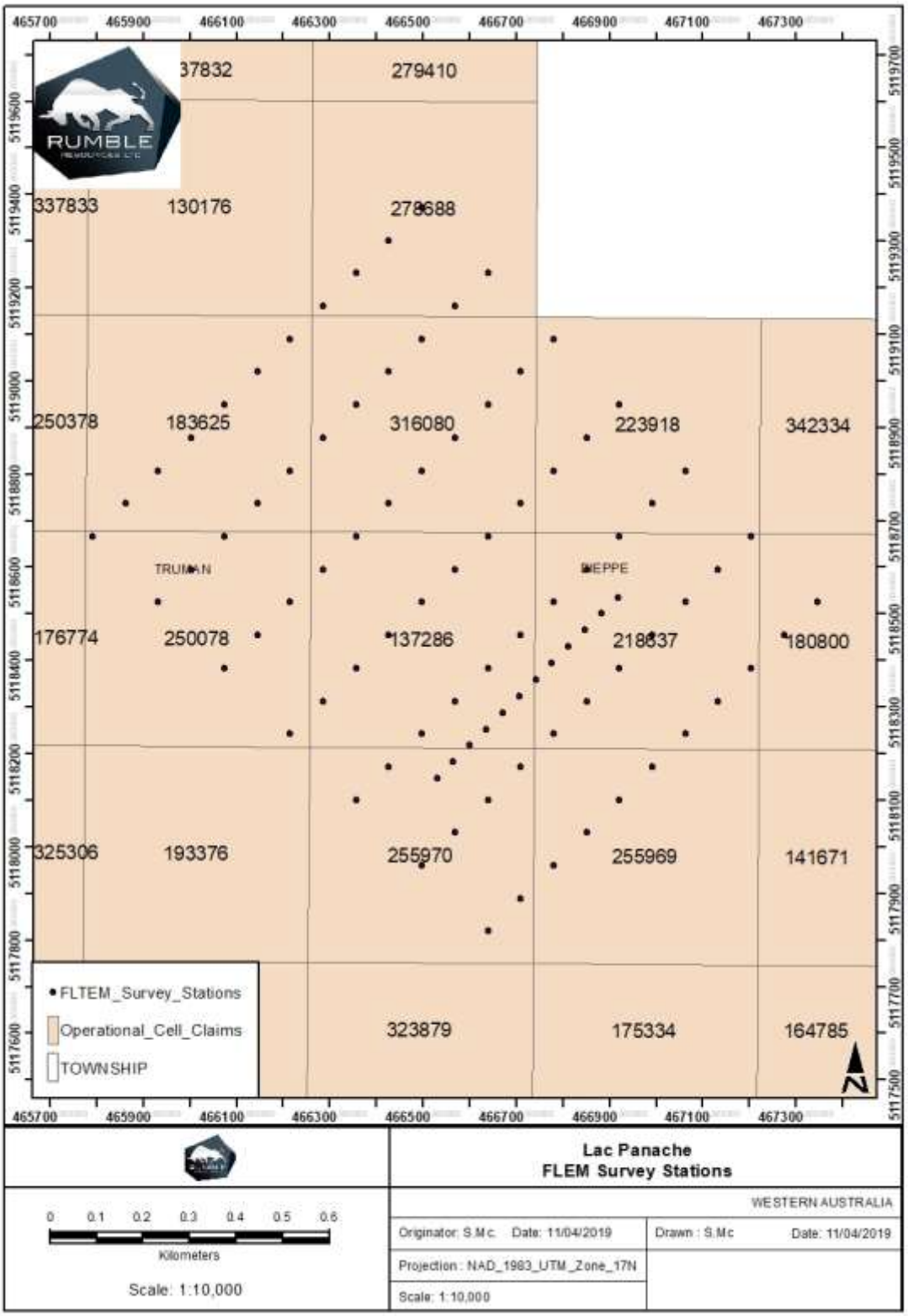


Figure 11 – Panache Project Area B – Ground FLEM Survey Stations

Survey Parameters

The survey was designed to traverse a prospective norite unit where highly anomalous nickel and copper assays from grabs samples have been collected. Seven lines were planned to traverse the unit on a 45° angle, using two separate transmitter loops, but an additional line was added to delineate a detected conductor (Figure 12). A high-temperature SQUID sensor was employed to increase the signal-to-noise and hence increase the exploration depth. The survey was planned to generate a transmitter current of +36A, although due to a problem with Discovery's generator, a current of only 18-20A was achieved. This resulted in slightly noisier readings, although the results are unlikely to miss a significant conductor given the expected conductivity contrast with the highly resistive background.

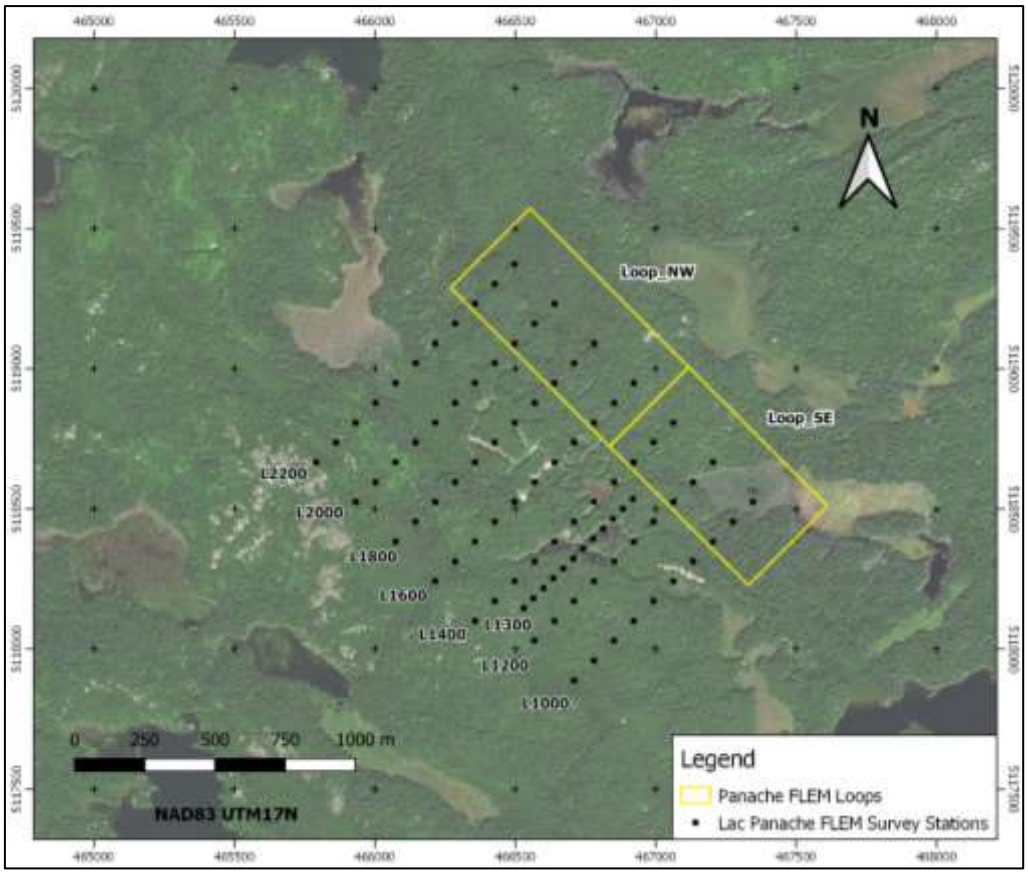


Figure 12 – Lac Panache completed FLEM survey stations and transmitter loop locations over Bing imagery.

Line and station coordinates are shown in Table 2, transmitter loop corner coordinates are shown in Table 3 and survey parameters are shown in Table 4. All coordinates are in NAD83 datum and UTM17N projection.

Table 2 – Lac Panache FLEM survey lines and stations.

Line	Easting	Northing	Tx loop
L1000	466640	5117818	Loop_SE
L1000	466710	5117888	Loop_SE
L1000	466781	5117959	Loop_SE
L1000	466852	5118030	Loop_SE
L1000	466922	5118100	Loop_SE
L1000	466993	5118171	Loop_SE
L1000	467064	5118242	Loop_SE
L1000	467134	5118312	Loop_SE
L1000	467205	5118383	Loop_SE
L1000	467276	5118454	Loop_SE
L1000	467347	5118525	Loop_SE
L1200	466498	5117959	Loop_SE
L1200	466569	5118030	Loop_SE
L1200	466640	5118100	Loop_SE
L1200	466710	5118171	Loop_SE
L1200	466781	5118242	Loop_SE
L1200	466852	5118312	Loop_SE
L1200	466922	5118383	Loop_SE
L1200	466993	5118454	Loop_SE
L1200	467064	5118525	Loop_SE
L1200	467134	5118595	Loop_SE
L1200	467205	5118666	Loop_SE
L1300	466530	5118146	Loop_SE
L1300	466565	5118181	Loop_SE
L1300	466601	5118217	Loop_SE
L1300	466636	5118252	Loop_SE
L1300	466671	5118287	Loop_SE
L1300	466707	5118323	Loop_SE
L1300	466742	5118358	Loop_SE
L1300	466777	5118393	Loop_SE

L1300	***466813***	***5118429***	***Loop_SE***
L1300	***466848***	***5118464***	***Loop_SE***
L1300	***466884***	***5118500***	***Loop_SE***
L1300	***466919***	***5118535***	***Loop_SE***
L1400	***466357***	***5118100***	***Loop_SE***
L1400	***466427***	***5118171***	***Loop_SE***
L1400	***466498***	***5118242***	***Loop_SE***
L1400	***466569***	***5118312***	***Loop_SE***
L1400	***466640***	***5118383***	***Loop_SE***
L1400	***466710***	***5118454***	***Loop_SE***
L1400	***466781***	***5118525***	***Loop_SE***
L1400	***466852***	***5118595***	***Loop_SE***
L1400	***466922***	***5118666***	***Loop_SE***
L1400	***466993***	***5118737***	***Loop_SE***
L1400	***467064***	***5118807***	***Loop_SE***
L1600	***466215***	***5118242***	***Loop_NW***
L1600	***466286***	***5118312***	***Loop_NW***
L1600	***466357***	***5118383***	***Loop_NW***
L1600	***466427***	***5118454***	***Loop_NW***
L1600	***466498***	***5118525***	***Loop_NW***
L1600	***466569***	***5118595***	***Loop_NW***
L1600	***466640***	***5118666***	***Loop_NW***
L1600	***466710***	***5118737***	***Loop_NW***
L1600	***466781***	***5118807***	***Loop_NW***
L1600	***466852***	***5118878***	***Loop_NW***
L1600	***466922***	***5118949***	***Loop_NW***
L1800	***466074***	***5118383***	***Loop_NW***
L1800	***466145***	***5118454***	***Loop_NW***
L1800	***466215***	***5118525***	***Loop_NW***
L1800	***466286***	***5118595***	***Loop_NW***
L1800	***466357***	***5118666***	***Loop_NW***
L1800	***466427***	***5118737***	***Loop_NW***

L1800	***466498***	***5118807***	***Loop_NW***
L1800	***466569***	***5118878***	***Loop_NW***
L1800	***466640***	***5118949***	***Loop_NW***
L1800	***466710***	***5119020***	***Loop_NW***
L1800	***466781***	***5119090***	***Loop_NW***
L2000	***465932***	***5118525***	***Loop_NW***
L2000	***466003***	***5118595***	***Loop_NW***
L2000	***466074***	***5118666***	***Loop_NW***
L2000	***466145***	***5118737***	***Loop_NW***
L2000	***466215***	***5118807***	***Loop_NW***
L2000	***466286***	***5118878***	***Loop_NW***
L2000	***466357***	***5118949***	***Loop_NW***
L2000	***466427***	***5119020***	***Loop_NW***
L2000	***466498***	***5119090***	***Loop_NW***
L2000	***466569***	***5119161***	***Loop_NW***
L2000	***466640***	***5119232***	***Loop_NW***
L2200	***465791***	***5118666***	***Loop_NW***
L2200	***465862***	***5118737***	***Loop_NW***
L2200	***465932***	***5118807***	***Loop_NW***
L2200	***466003***	***5118878***	***Loop_NW***
L2200	***466074***	***5118949***	***Loop_NW***
L2200	***466145***	***5119020***	***Loop_NW***
L2200	***466215***	***5119090***	***Loop_NW***
L2200	***466286***	***5119161***	***Loop_NW***
L2200	***466357***	***5119232***	***Loop_NW***
L2200	***466427***	***5119302***	***Loop_NW***
L2200	***466498***	***5119373***	***Loop_NW***

Table 3 – Lac Panache FLEM transmitter loops corner coordinates.

Loop ID	Corner	Easting	Northing
Loop_NW	1	466270	5119289
Loop_NW	2	466553	5119572
Loop_NW	3	467118	5119006
Loop_NW	4	466836	5118723
Loop_SE	1	466836	5118723
Loop_SE	2	467118	5119006
Loop_SE	3	467613	5118510
Loop_SE	4	467331	5118227

Table 4 – Lac Panache FLEM survey parameters.

Configuration	Fixed-loop
Loop Size	800m x 400m and 600m x 400m
No. of Lines	8
Line Spacing	200m
Station Spacing	50-100m
Sensor	High-Temperature SQUID
Transmitter	TXU-30 (10kW)
Current	18-20A
Base Frequency	0.5Hz

Survey Results

The ground within the survey area is highly resistive, highlighted by the majority of EM decays approaching the noise level by channel 20 (6.8ms). The early-time channels are dominated by a loop edge effect, resulting in a false anomalous EM response on the SW side of the transmitter loops (Figure 13). This response is common with large loops in resistive environments and is enhanced with the limited dynamic range of the SQUID sensor. It has been ignored in the modelling.

A strong anomalous response is identifiable in the mid- to late-time channels on lines L1200-L1400. The response exhibits exponential decays with time-constants in the order of 40ms, and has been modelled with two conductors, though they are likely to be part of the same surface (Figure 14). Conductor L1440N-1200N_400S is modelled as a 104m × 51m, 400S plate, steeply dipping to the southwest, and likely represents a zone of heavy disseminated or stringer sulphides. Conductor L1440N-1200N_9000S is modelled as an 86m × 26m, 8840S plate, also steeply dipping to the SW, and likely represents a more massive sulphide core to the conductive surface. The conductors coincide with a small magnetic high (the image was georeferenced from a report as the magnetic

data has not yet been located) which may represent a discrete intrusion or the pyrrhotite from the conductor itself (Figure 15). A highly anomalous grab sample assaying 5560ppm Ni and 5520ppm Cu is located up-dip of the modelled conductors which is highly encouraging. Modelled conductor parameters are shown in Table 5. Results are given in Appendix 3.

Drilling of the conductors is recommended, with the plan and proposed parameters shown in Figure 16.

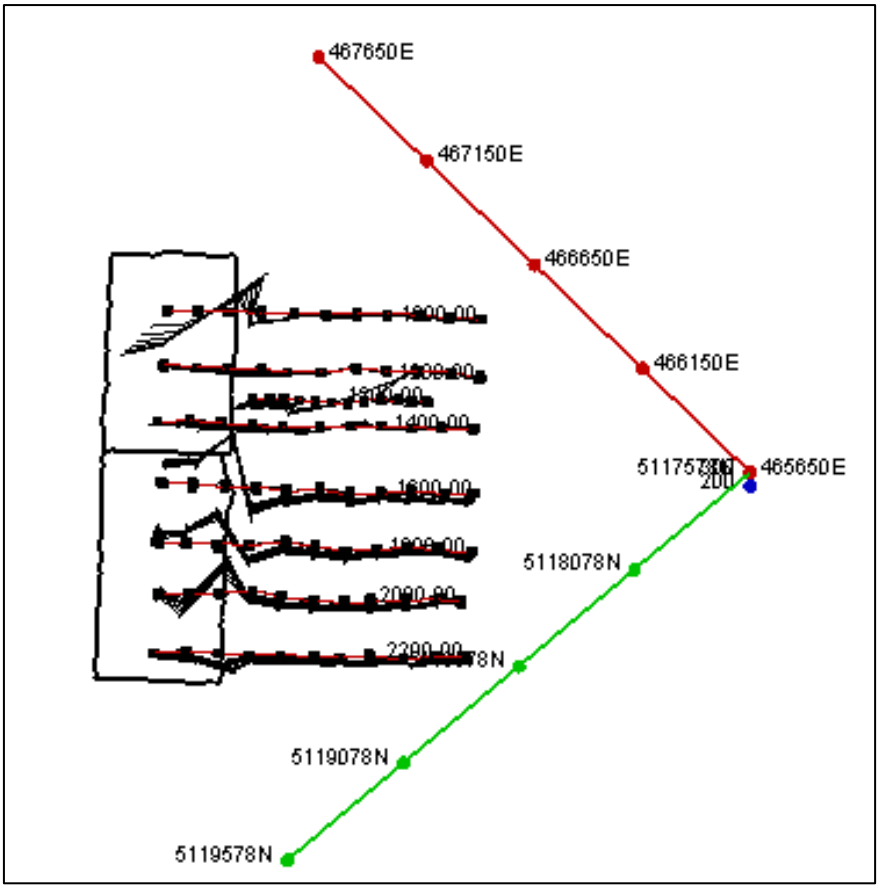


Figure 13 – Oblique view of FLEM survey with early-time channel line profiles showing the false anomaly edge effect on the western side of the transmitter loops.

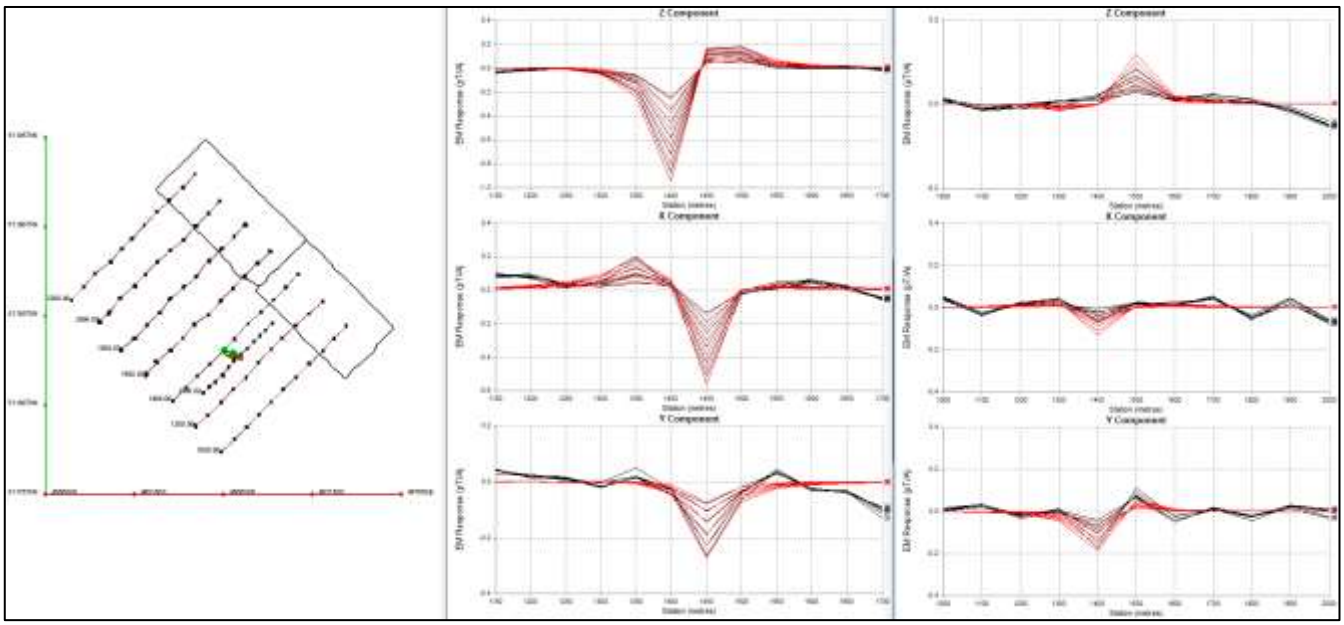


Figure 14 – Plan view (left-hand panel) of Lac Panache FLEM survey stations with modelled conductors L1440N-1200N_9000S (red) and L1440N-1200N_400S (green). The middle and right-hand panels show the observed (black) and modelled (red) EM profile responses for channels 25-30 (15.7-59.6ms) of lines L1300 and L1400 respectively.

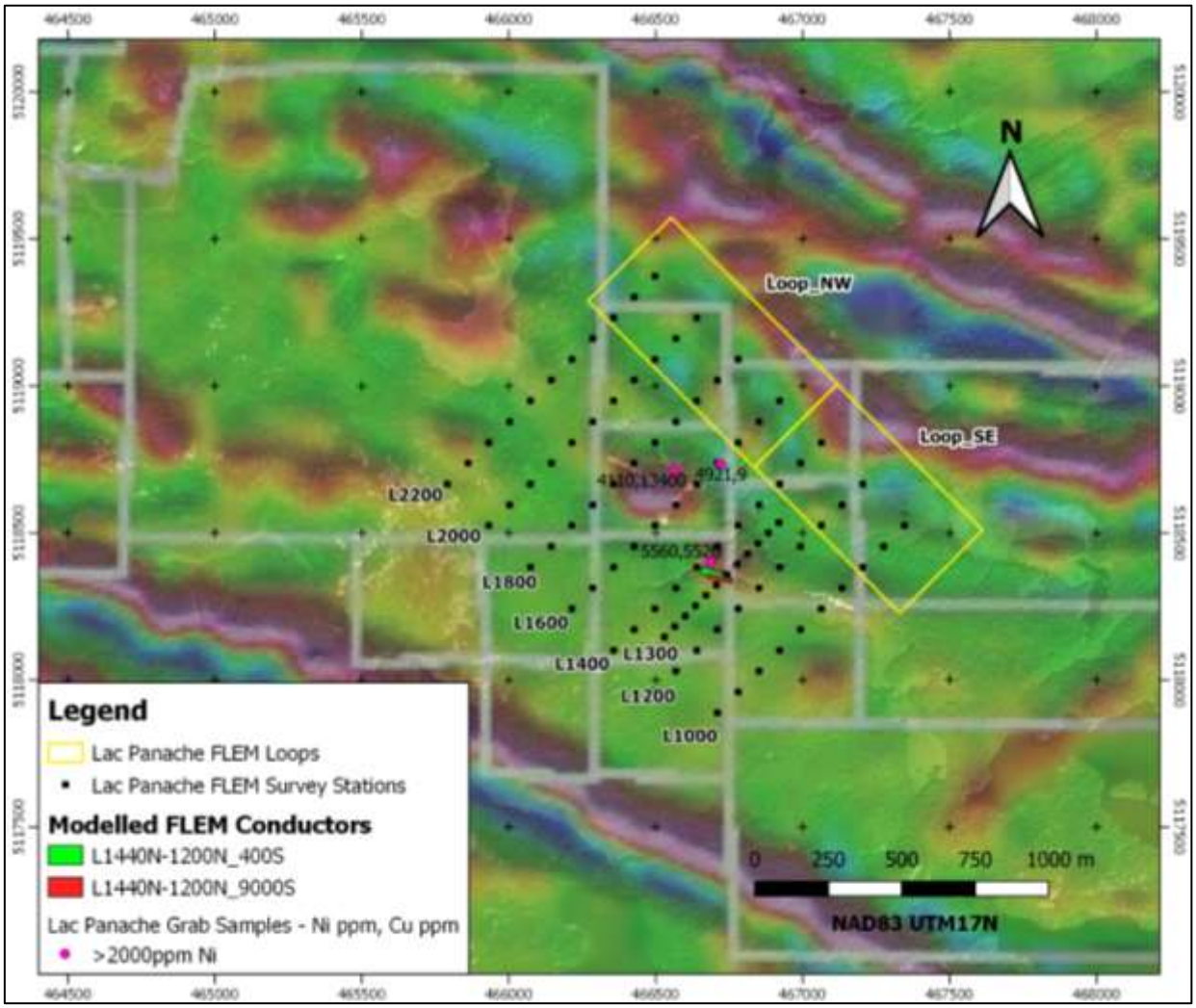
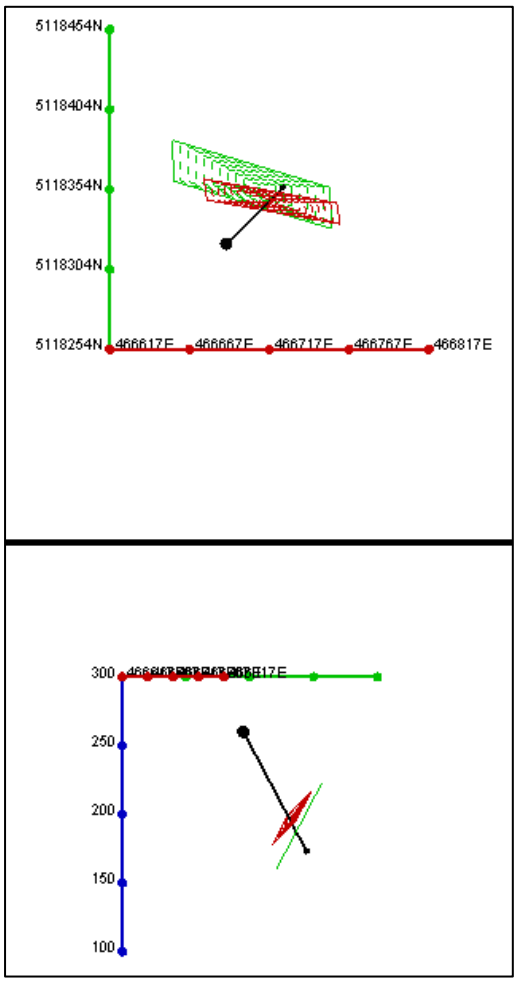


Figure 15 – Lac Panache FLEM survey showing modelled conductors over airborne magnetic and Bing Imagery. The grab sample up dip of the conductor showing 5560ppm Ni and 5520ppm Cu is highly encouraging.

Table 5 – Lac Panache modelled conductor parameters.

Conductor	L1440N-1200N_400S	L1440N-1200N_9000S
Easting (centre top edge)	466706	466718
Northing	5118370	5118353
RL	214	208
Dip (º)	62	61
Dip Direction (º)	202	197
Rotation (º)	11	13
Strike Length (m)	104	86
Depth Extent (m)	51	26
Conductance (S.m)	387	8841



Easting	***466690***
Northing	***5118320***
RL	***260***
Azimuth	***45***
Dip	***60***
Target Depth	***80m***
EOH	***100m***

Figure 16 – Planned drillhole (plan view on top and view from 111° on bottom) to intersect the modelled conductors, and a table of drill parameters on right.

CONCLUSIONS AND RECOMMENDATIONS

Compilation of previous work as well as the recent exploration indicates that this property has considerable future exploration potential.

The Panache Cu–Ni-Co-Au-PGE Project is prospective for stringer to massive sulphide zones within disseminated sulphide hosted in gabbro. Surface geochemistry (grab sampling) and petrography has highlighted the prospectivity of the Nipissing Gabbro suite (locally called the Lac Panache Gabbro Intrusion) with significant Cu-Ni-Co-Au-PGE rock chip anomalism over poorly exposed outcrop.

There is no apparent reason why the known sulphide distribution should not have a greater (and economic) extent.

Rumble will complete a single diamond drill hole planned to test the two conductors identified in January 2019.

REFERENCES

Bennett, G., Dressler, B.O. & Robertson, J.A. 1991. The Huronian Supergroup and Associated Intrusive Rocks; in Geology of Ontario, Ontario Geological Survey, Special Volume 4, Part 1, p.549-591.

Card, K.D. 1975 The Panache Lake Area Districts of Sudbury and Manitoulin. Ontario Division of Mines Geological Branch, Open File Report 5123.

Card, K.D. 1978 Geology of the Sudbury-Manitoulin Area Districts of Sudbury and Manitoulin. Ontario Geological Survey Report 166. Ministry of Natural Resources, Ontario.

Card, K.D. And Pattison, E. F. 1973. Nipissing Diabase of the Southern Province, Ontario: Geological Association of Canada, Special Paper 12, p 7-30.

Lightfoot, P.C., and Naldrett, A.J., 1996, Petrography and Geochemistry of the Nipissing Gabbro, Exploration Strategies for Nickel, Copper and Platinum Group Elements in a Large Igneous Province, Ontario Geological Survey Study 58.

Appendix 1 – Exploration Costs

Category	Date	Receipt/Invoice	Description	Amount	
Vehicle rental	15/06/2018	22939331AU2	Hire car - Hire car	$	419.58
Accomodation	14/06/2018	1471315456	Accomodation	$	786.48
Food	10/07/2018		Meal	$	32.31
Food	13/07/2018		Meal	$	78.31
Food	13/07/2018		Meal	$	53.70
Food	16/07/2018		Meal	$	42.60
Food	16/07/2018		Meal	$	416.40
Food	16/07/2018		Meal	$	416.40
Assays	19/07/2018	4358258	ALS Canada Ltd - Rockchip Assays	$	168.93
Consultant Geologist	1/09/2018	050	Keillor Geological - Geo consulting - July	$	2,937.50
Consultant Geologist	13/10/2018	052	Keillor Geological - Consulting geologist	$	990.63
Consultant Geologist	8/11/2018	053	Keillor Geological - Geo consulting	$	314.85
Consultant Geologist	14/12/2018	055	Keillor Geological - Geo consulting - Nov	$	177.27
Geophysical Survey	14/02/2019	2019003	Discovery Geophysics Ground TEM Survey	$	26,250.00
Geophysical Survey	TBI	to be invoiced	Discovery Geophysics	$	26,250.00
Consultant Geologist	31/07/2018		SS Salary - 3 days site visit	$	2,307.70
Consultant Geologist	11/04/2019	INV202	Assessment Work Report Compilation	$	2,647.17
Consultant Geophysicist	3/04/2019	0073	Armada - Geophysical survey interpretation	$	3,151.40
				$	**67,441.23**

Appendix 2 – Rockchip Assays

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **RUMBLE RESOURCES LTD**
SUITE 5, 26 RAILWAY ROAD
PO BOX 1905
SUBIACO WA 6005
AUSTRALIA

Finalized Date: 19-JUL-2018
This copy reported on
23-JUL-2018
Account: RRLBMAFB

CERTIFICATE SD18167021

Project: Panache

This report is for 3 Rock samples submitted to our lab in Sudbury, ON, Canada on 12-JUL-2018.

The following have access to data associated with this certificate:

BRETT KEILLOR

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

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AUSTRALIA

Project: Panache

CERTIFICATE OF ANALYSIS SD18167021

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.1	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.1	ME-MS81 Lu ppm 0.01
LPRR18-01		1.34	0.008	25.2	179.0	130	0.11	7.72	3.51	2.26	16.2	13.40	2.8	1.32	73.6	0.50
LPRR18-02		0.86	0.030	27.9	109.0	1170	0.10	2.76	2.41	0.46	24.3	3.34	23.9	0.61	61.7	0.75
LLRR18-01		1.03	<0.005	50.0	190.0	880	0.19	5.04	3.44	1.02	21.6	6.70	17.5	1.10	128.5	0.79

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Page: 2 - B
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 19- JUL- 2018
Account: RRLBMAFB

Project: Panache

CERTIFICATE OF ANALYSIS SD18167021

Sample Description	Method Analyte Units LOD	ME- MS81 Nb ppm 0.2	ME- MS81 Nd ppm 0.1	ME- MS81 Pr ppm 0.03	ME- MS81 Rb ppm 0.2	ME- MS81 Sm ppm 0.03	ME- MS81 Sn ppm 1	ME- MS81 Sr ppm 0.1	ME- MS81 Ta ppm 0.1	ME- MS81 Tb ppm 0.01	ME- MS81 Th ppm 0.05	ME- MS81 Tm ppm 0.01	ME- MS81 U ppm 0.05	ME- MS81 V ppm 5	ME- MS81 W ppm 1	ME- MS81 Y ppm 0.1
LPRR18- 01		12.3	94.2	23.2	1.7	17.50	1	49.1	1.3	1.49	13.70	0.53	3.81	168	2	33.9
LPRR18- 02		38.9	40.7	11.65	7.1	5.79	3	15.6	4.4	0.43	102.0	0.45	24.6	388	132	18.5
LLRR18- 01		30.6	65.2	18.75	10.7	10.00	2	21.2	3.1	0.81	66.4	0.60	21.1	320	108	26.6

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Project: Panache

CERTIFICATE OF ANALYSIS SD18167021

Sample Description	Method	ME-MS81	ME-MS81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	CRU-QC
	Analyte	Yb	Zr	Ag	As	Cd	Co	Cu	Li	Mo	Ni	Pb	Sc	Tl	Zn	Pass2mm
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.03	2	0.5	5	0.5	1	1	10	1	1	2	1	10	2	0.01
LPRR18-01		3.05	106	<0.5	24	<0.5	77	90	10	2	527	17	19	<10	30	74.2
LPRR18-02		3.66	894	<0.5	>10000	<0.5	9960	6	<10	53	4620	10	12	<10	9	
LLRR18-01		4.84	658	<0.5	1595	<0.5	602	3	<10	3	379	6	17	<10	15	

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Project: Panache

CERTIFICATE OF ANALYSIS SD18167021

Sample Description	Method Analyte Units LOD	PUL- QC Pass75um % 0.01
LPRR18- 01		91.6
LPRR18- 02		
LLRR18- 01		

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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 19-JUL-2018
Account: RRLBMAFB

CERTIFICATE OF ANALYSIS SD18167021

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.

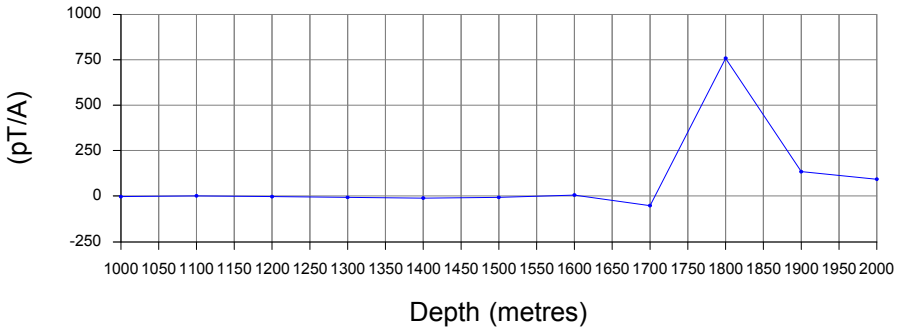
Applies to Method:			
CRU-31	CRU-QC	LOG-22	PUL-31
PUL-QC	SPL-21	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
Au-AA23	ME-4ACD81	ME-MS81

Appendix 3 – Ground Fixed Loop TEM Survey Reports

X Component - Primary Field



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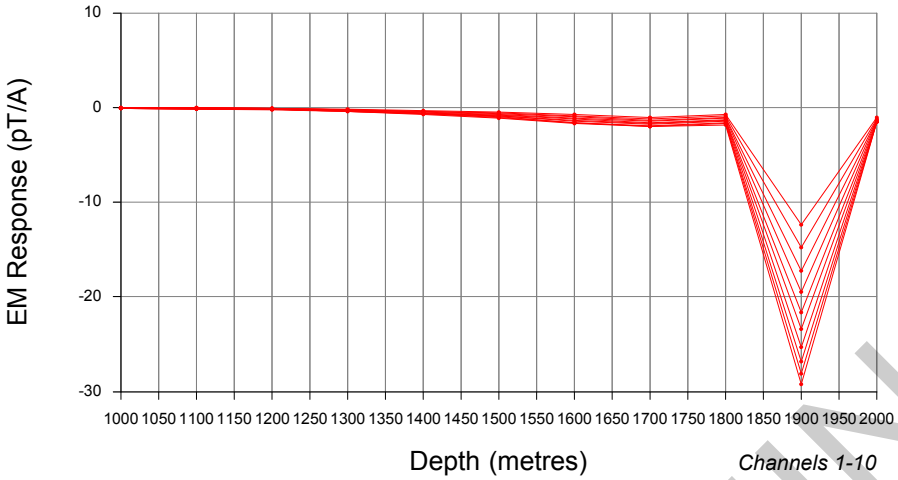
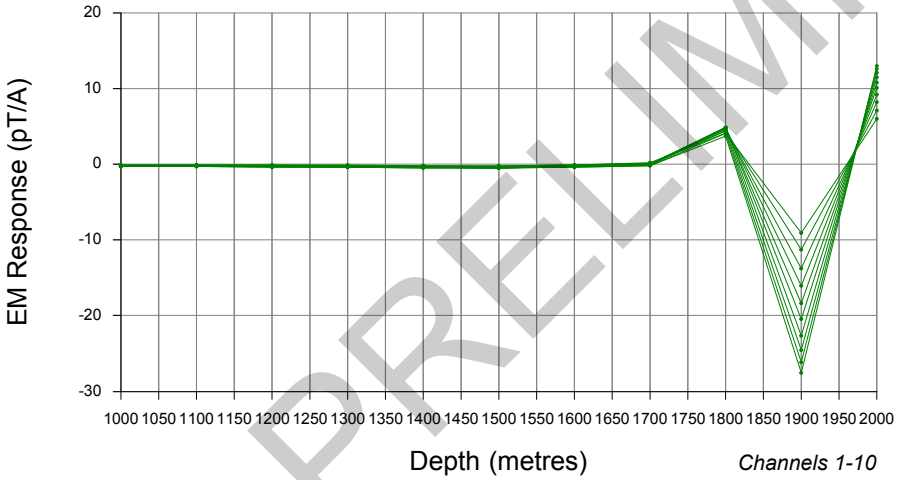
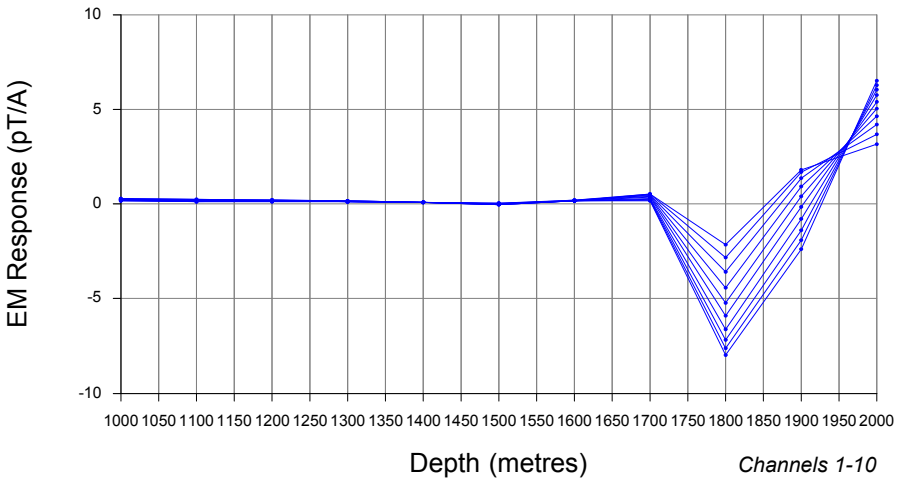


Y Component - 0.10 ms to 0.70 ms



Z Component - 0.10 ms to 0.70 ms



SURVEY PARAMETERS

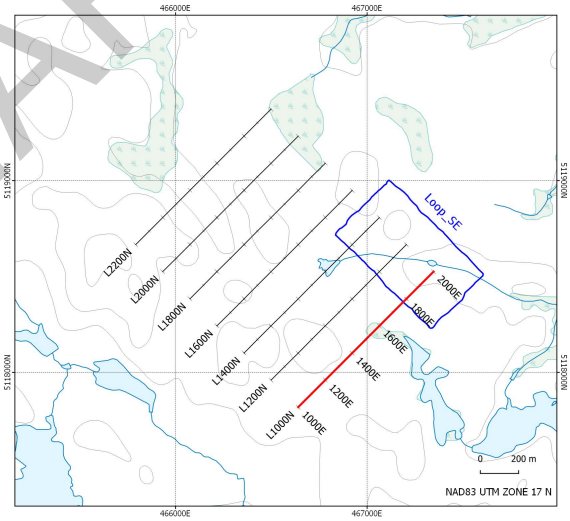
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 700 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.750 ms



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Scale 1:10000

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Lac Panache Grid
Supracon Jessy Deep HT SQUID
Fixed Loop TEM Survey

Line 1000N

Surveyed By: Connor Harrison
Survey Date: February 2019

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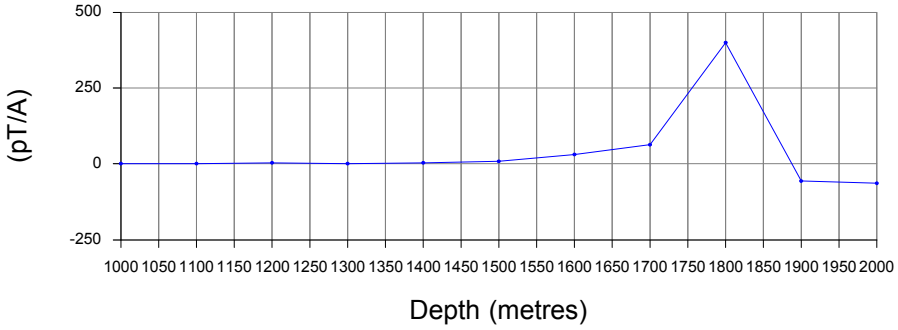
Y Component - Primary Field



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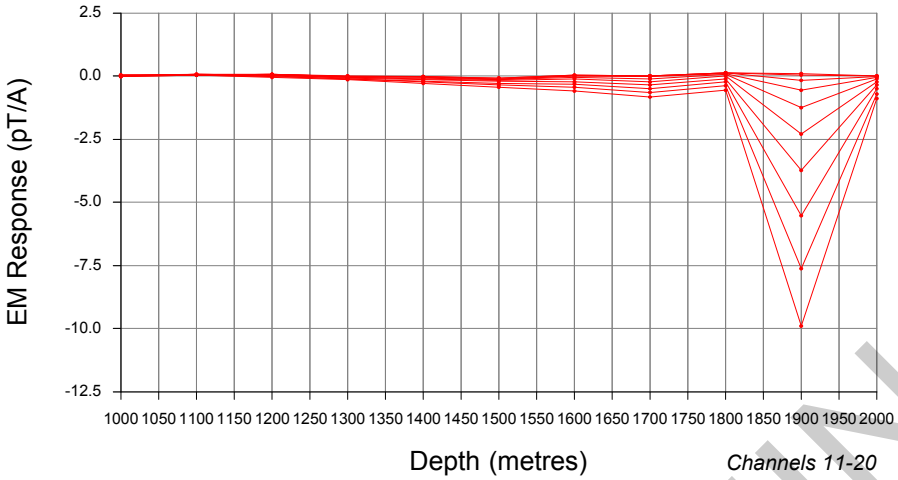

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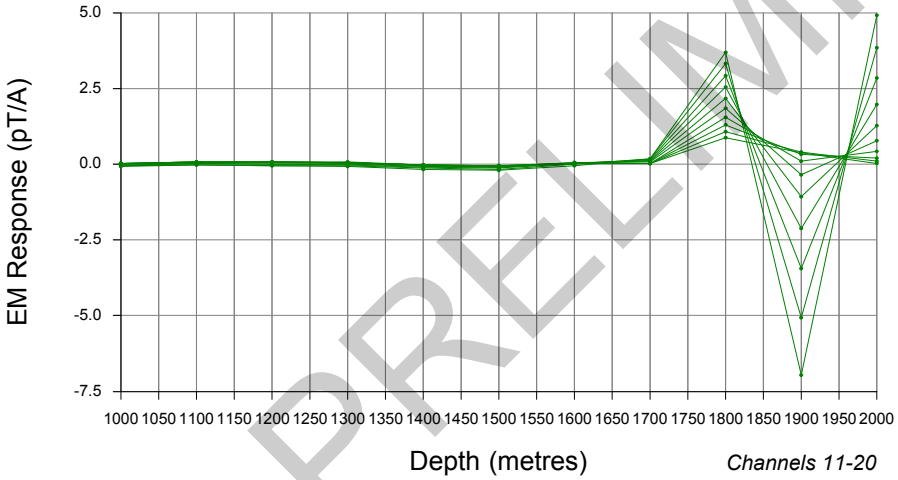
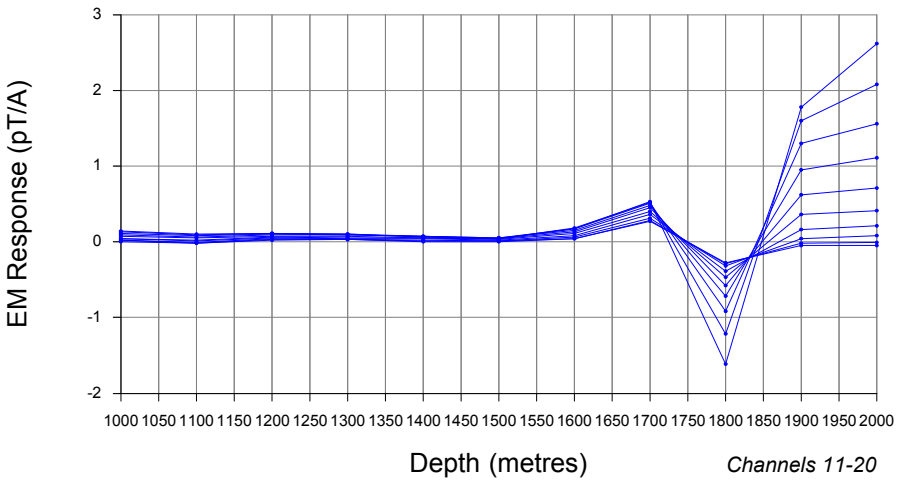


Z Component - 0.87 ms to 6.09 ms



SURVEY PARAMETERS

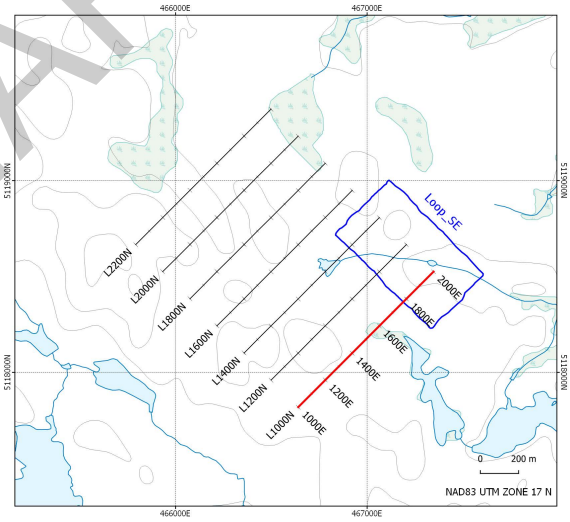
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 700 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.750 ms



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Scale 1:10000

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Supracon Jessy Deep HT SQUID
Fixed Loop TEM Survey

Line 1000N

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Survey Date: February 2019

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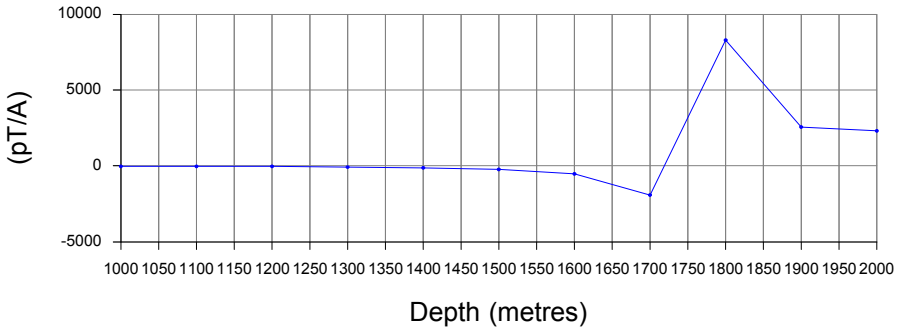
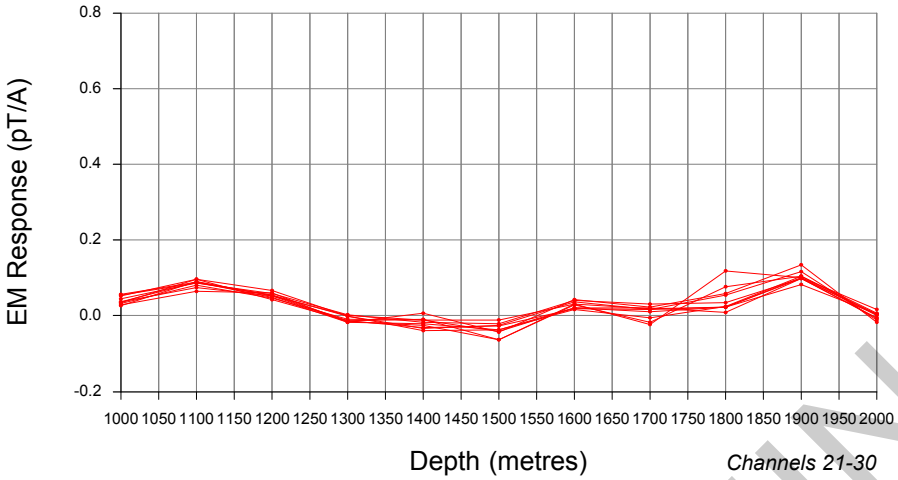
Z Component - Primary Field



X Component - 7.56 ms to 52.99 ms



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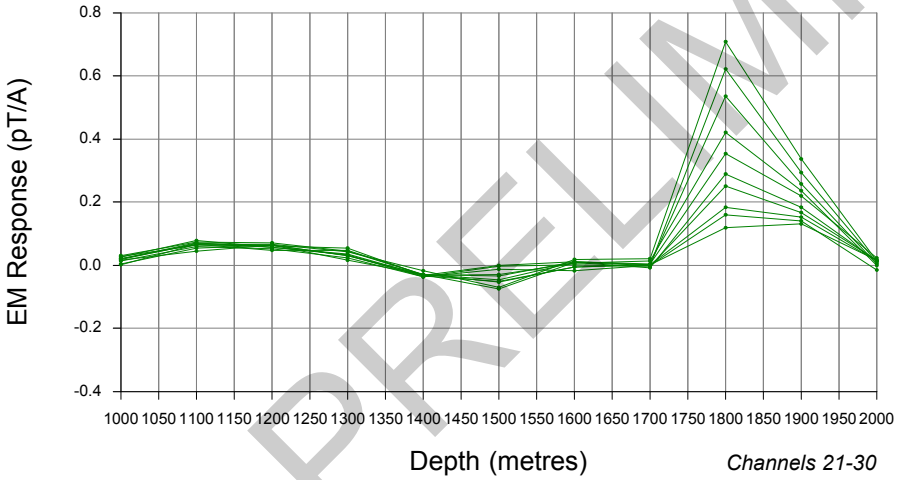

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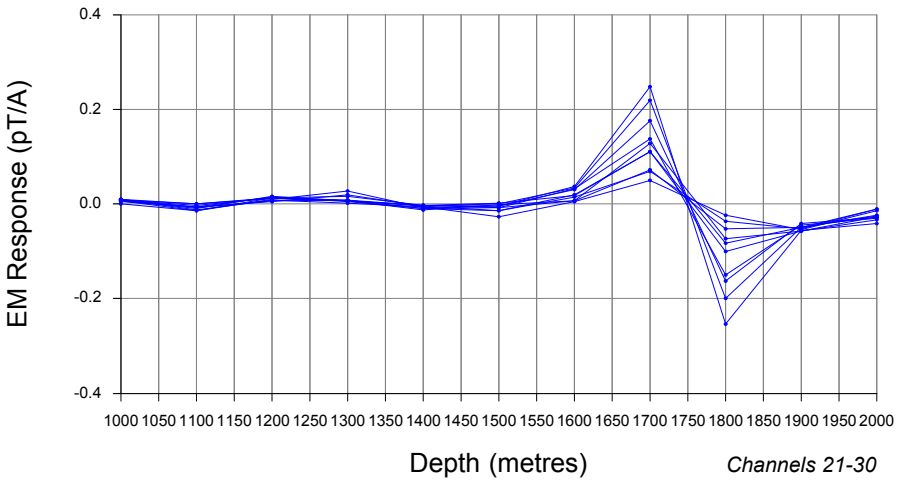


SURVEY PARAMETERS

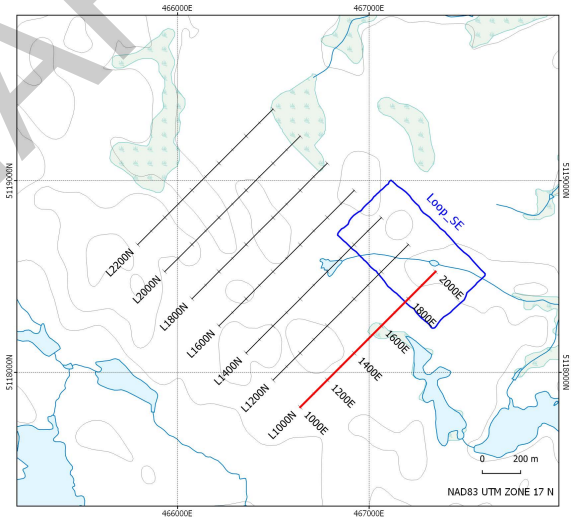
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 700 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.750 ms



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Scale 1:10000

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Fixed Loop TEM Survey

Line 1000N

Surveyed By: Connor Harrison

Survey Date: February 2019

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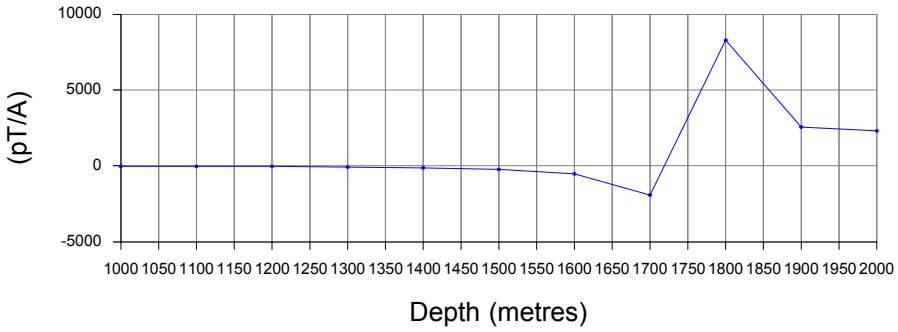
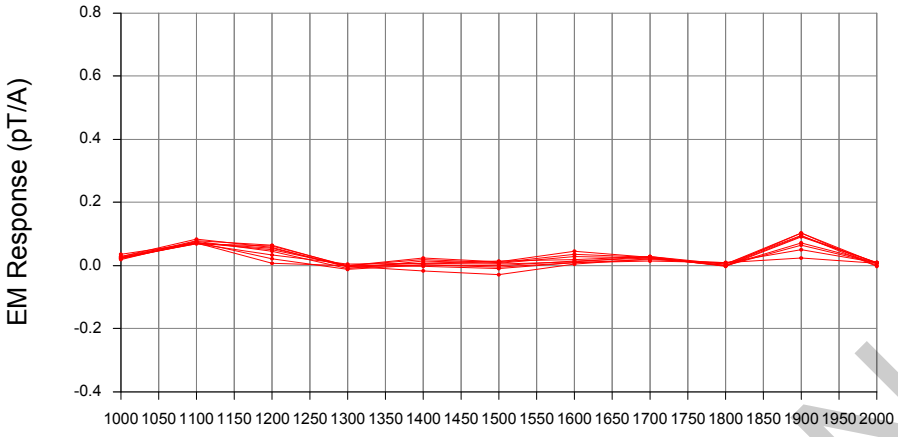
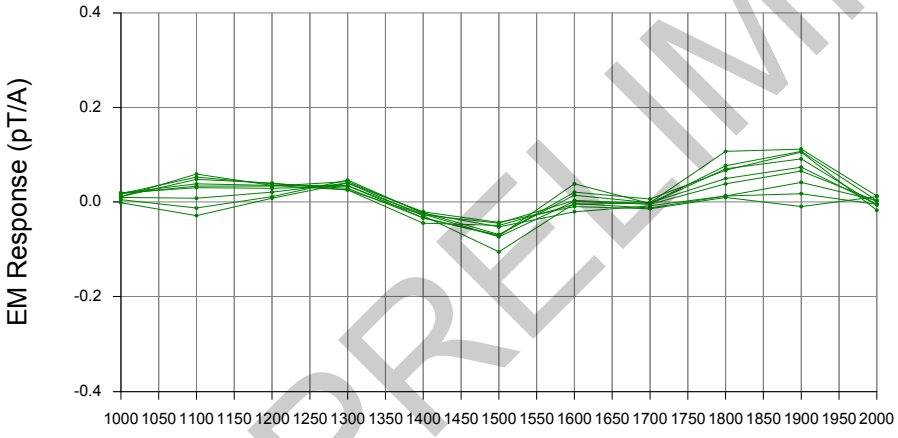
Z Component - Primary Field



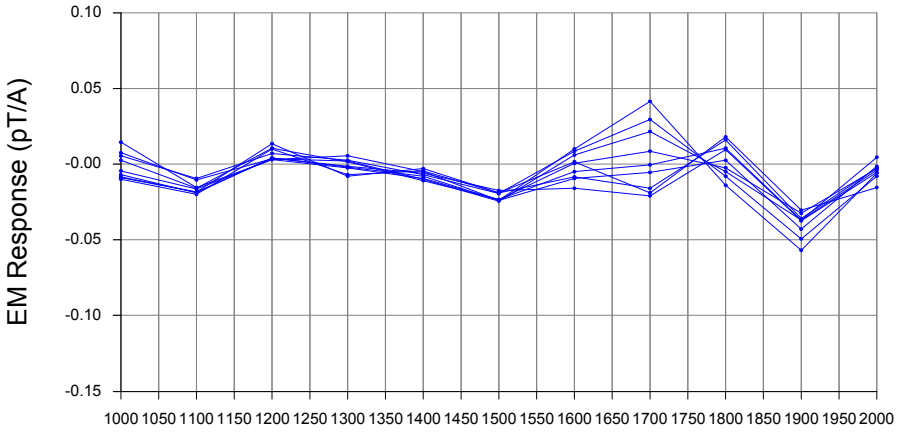
X Component - 65.79 ms to 371.22 ms



Y Component - 65.79 ms to 371.22 ms



Z Component - 65.79 ms to 371.22 ms



SURVEY PARAMETERS

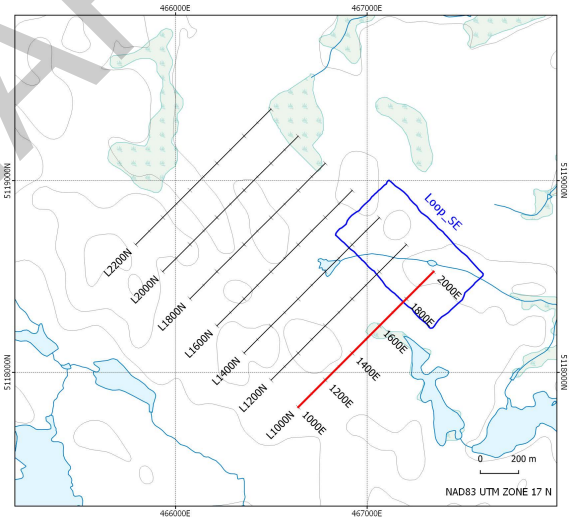
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 700 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.750 ms



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Scale 1:10000

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Supracon Jessy Deep HT SQUID
Fixed Loop TEM Survey

Line 1000N

Surveyed By: Connor Harrison

Survey Date: February 2019

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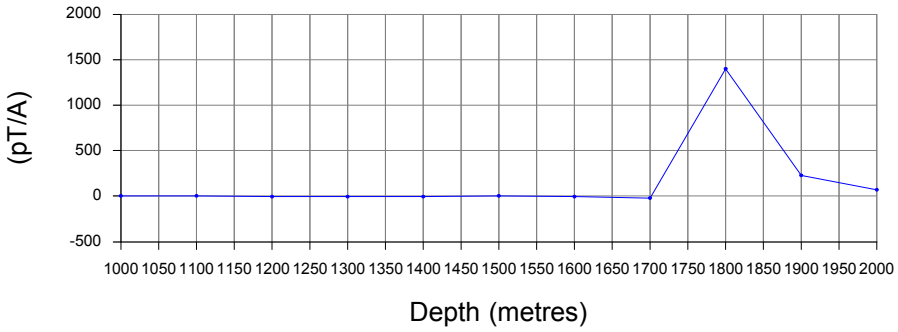
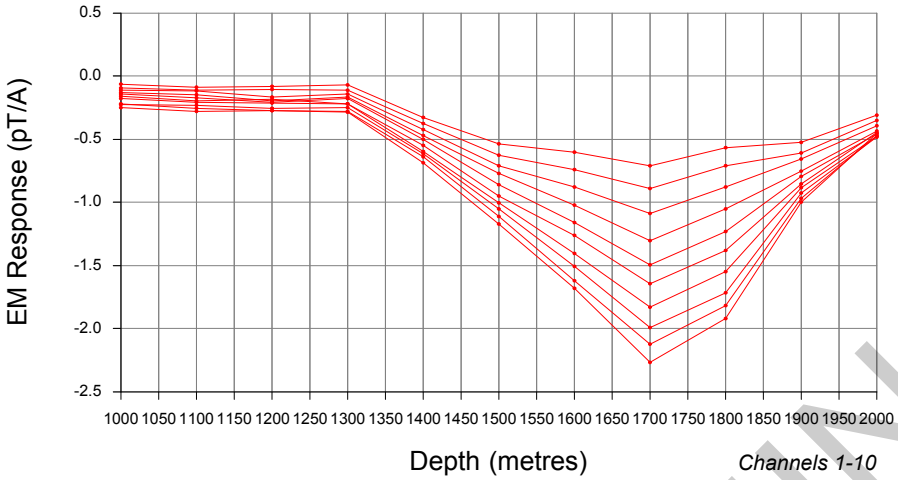
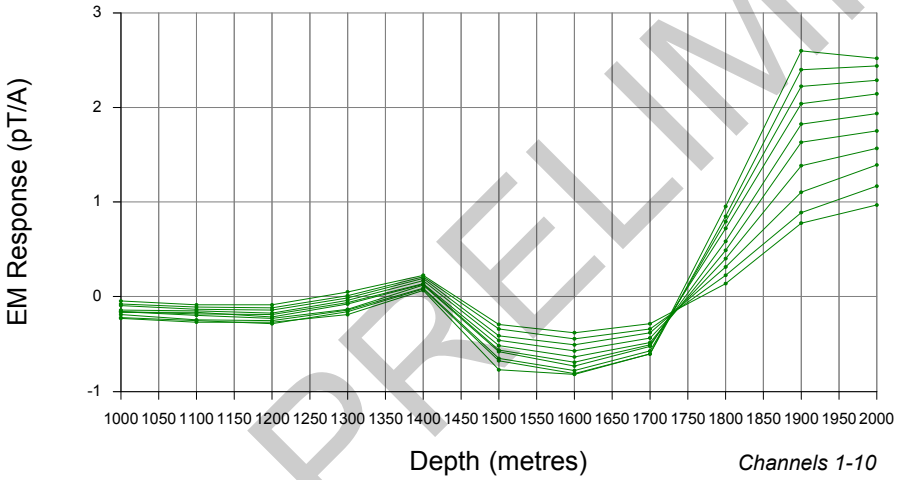
X Component - Primary Field



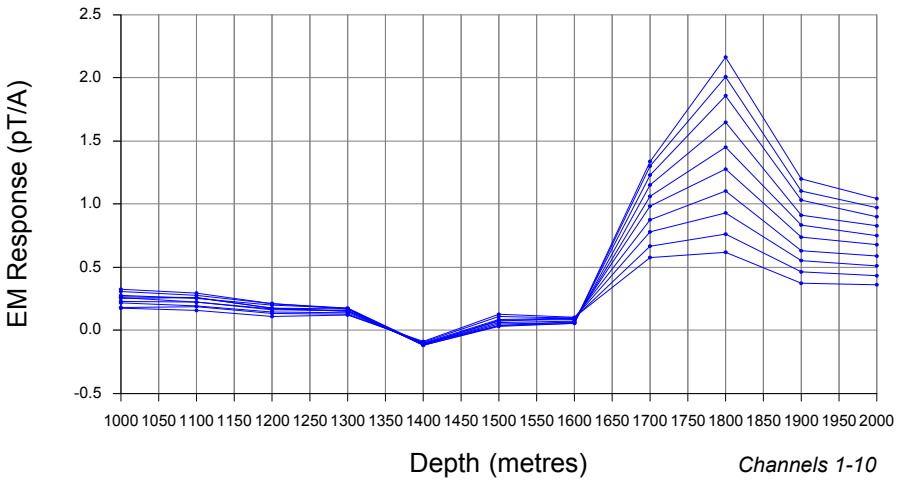
X Component - 0.10 ms to 0.70 ms



Y Component - 0.10 ms to 0.70 ms



Z Component - 0.10 ms to 0.70 ms



SURVEY PARAMETERS

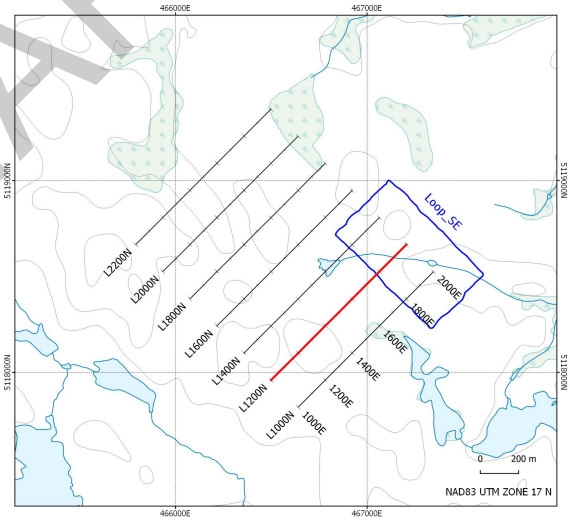
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 700 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.750 ms



0 100 200 300 400 500

Scale 1:10000

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Supracon Jessy Deep HT SQUID
Fixed Loop TEM Survey

Line 1200N

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Survey Date: February 2019

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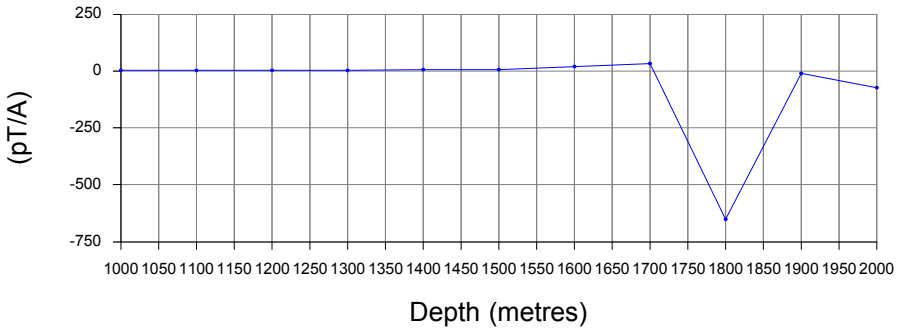
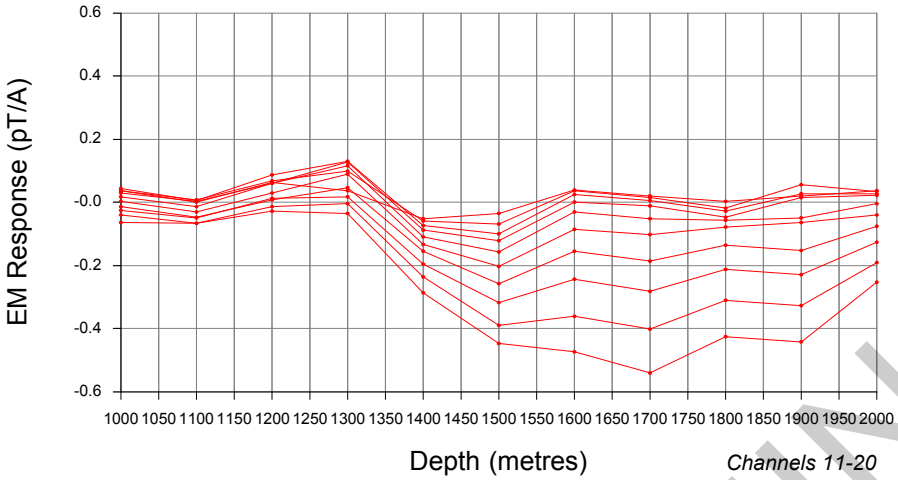
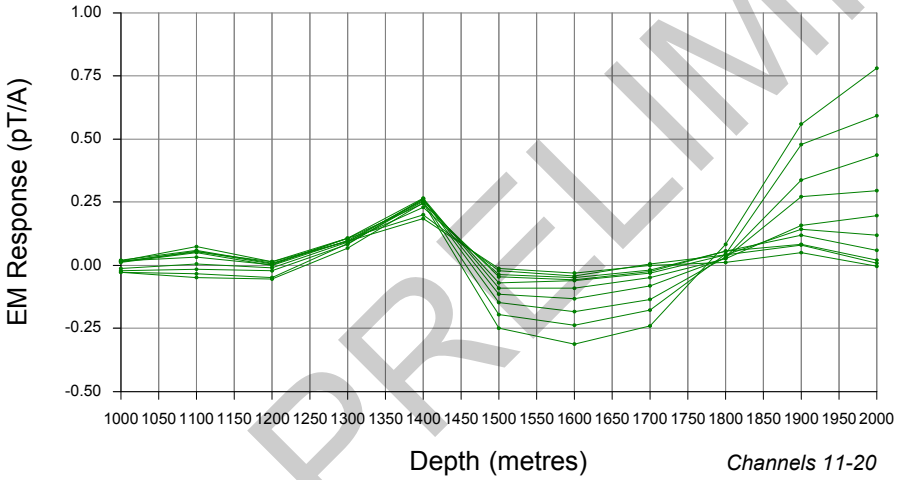
Y Component - Primary Field



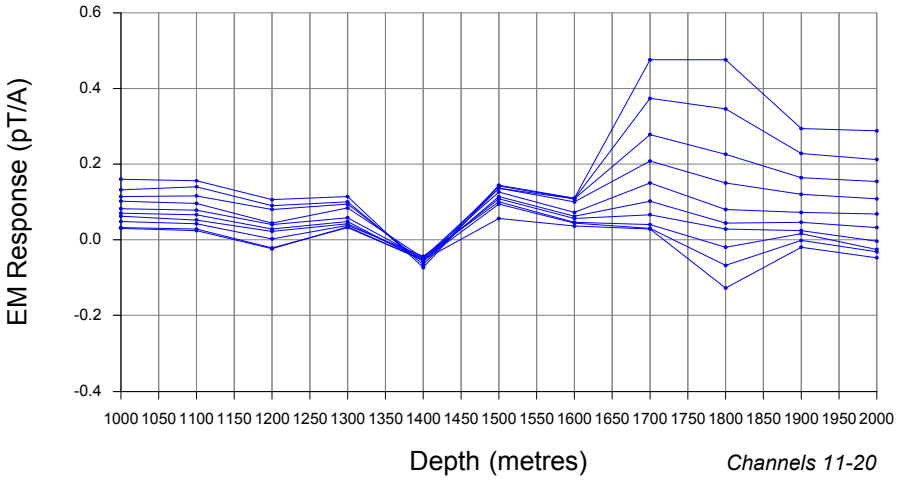
X Component - 0.87 ms to 6.09 ms



Y Component - 0.87 ms to 6.09 ms



Z Component - 0.87 ms to 6.09 ms



SURVEY PARAMETERS

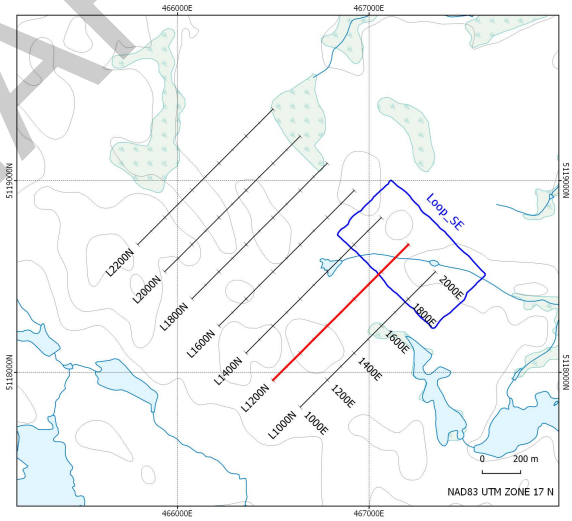
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 700 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.750 ms



0 100 200 300 400 500

Scale 1:10000

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Line 1200N

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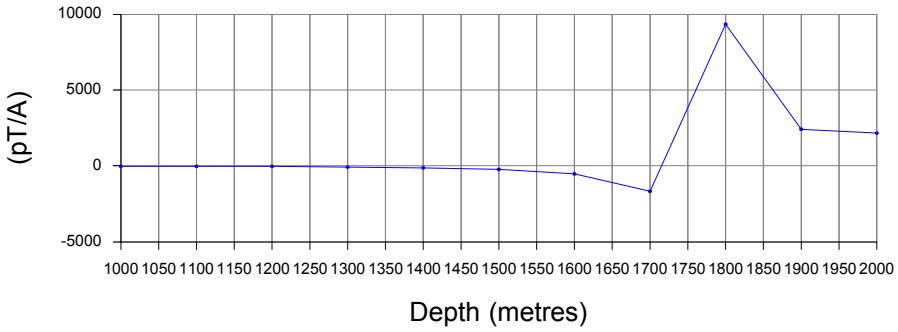
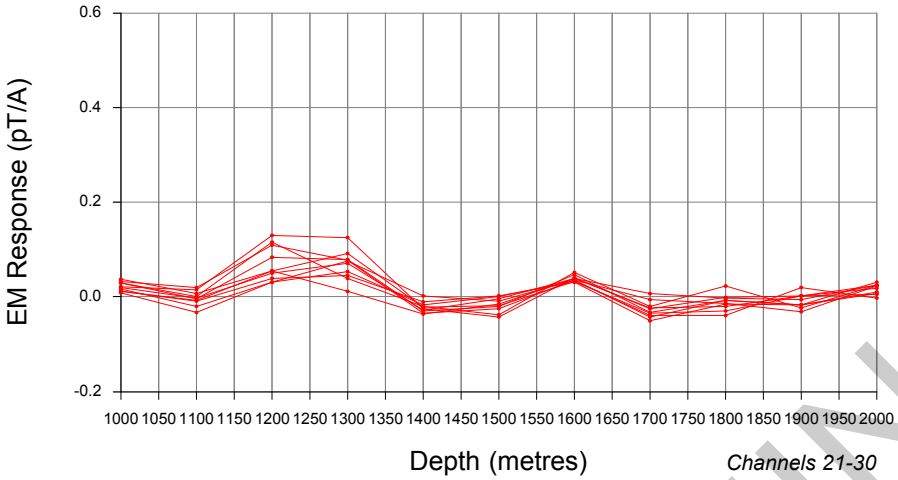
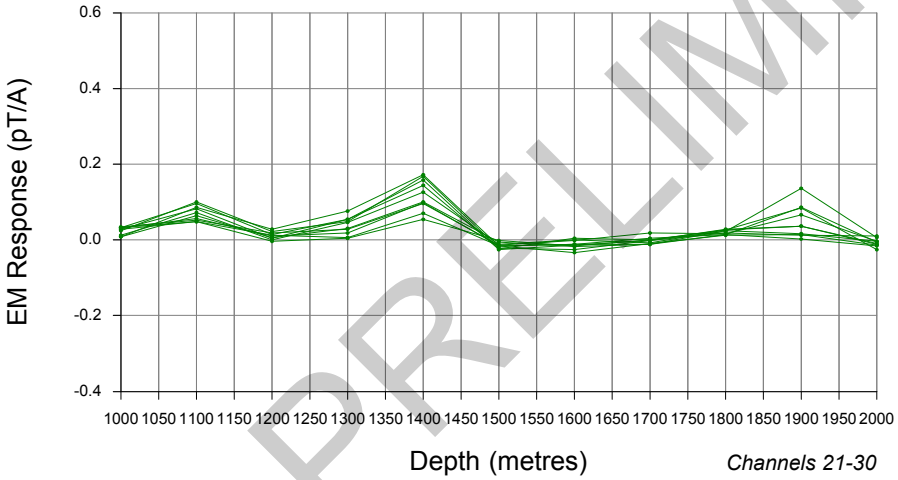
Z Component - Primary Field



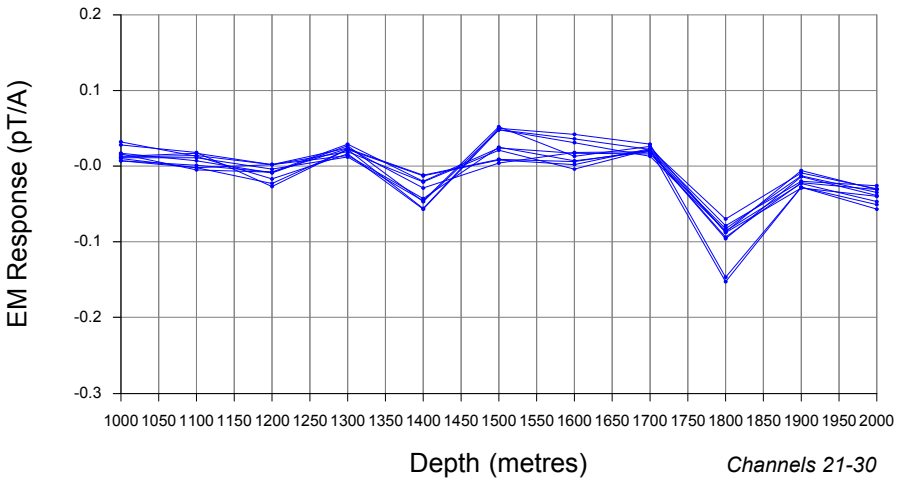
X Component - 7.56 ms to 52.99 ms



Y Component - 7.56 ms to 52.99 ms



Z Component - 7.56 ms to 52.99 ms



SURVEY PARAMETERS

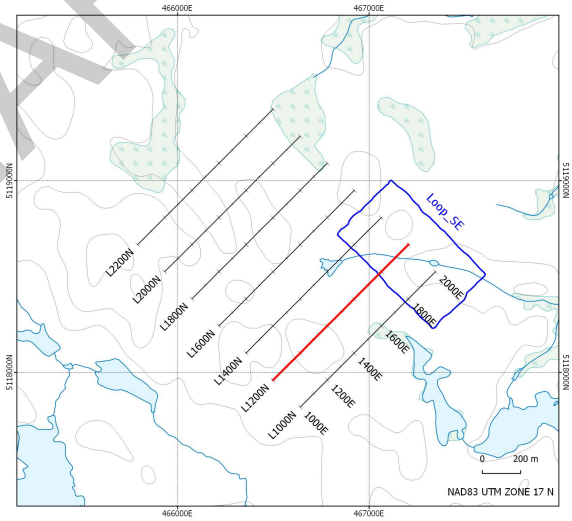
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 700 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.750 ms



0 100 200 300 400 500

Scale 1:10000

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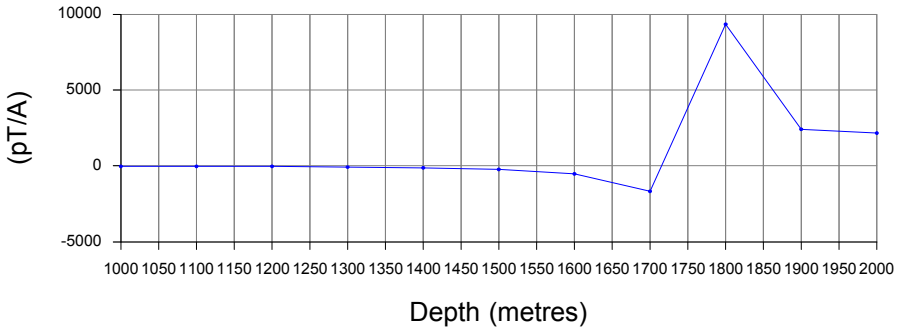
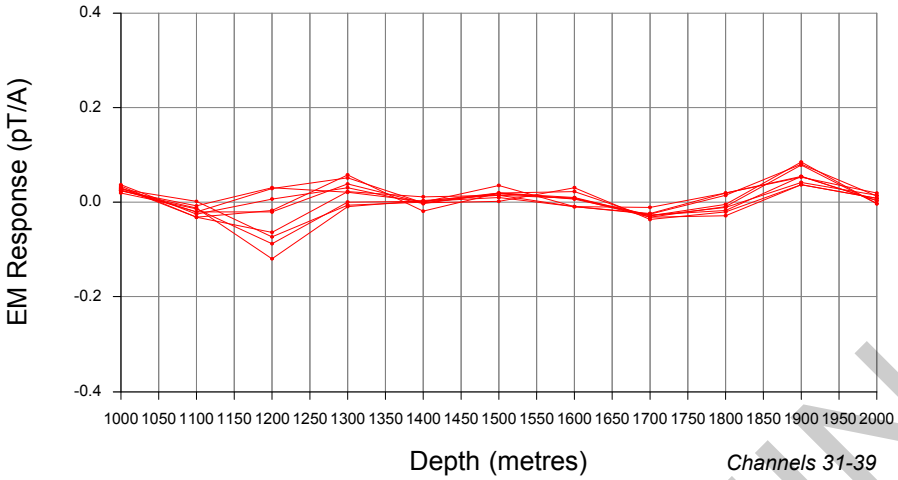
Z Component - Primary Field

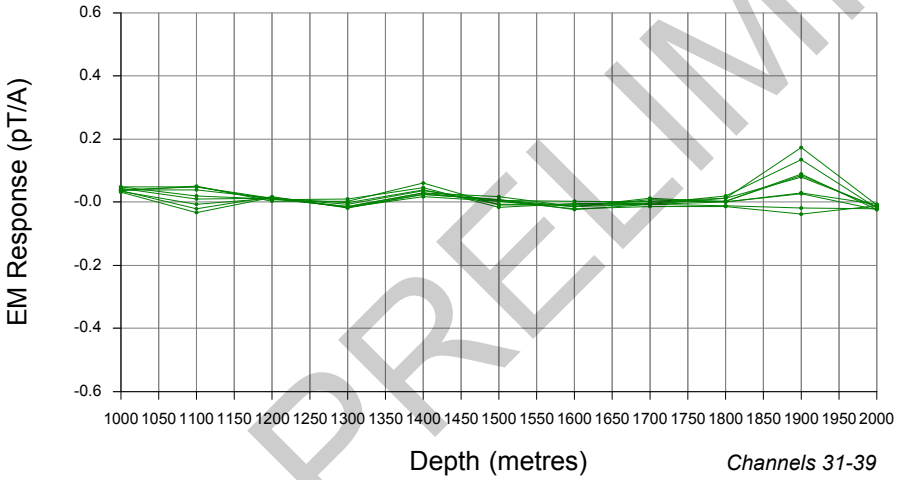


X Component - 65.79 ms to 371.22 ms



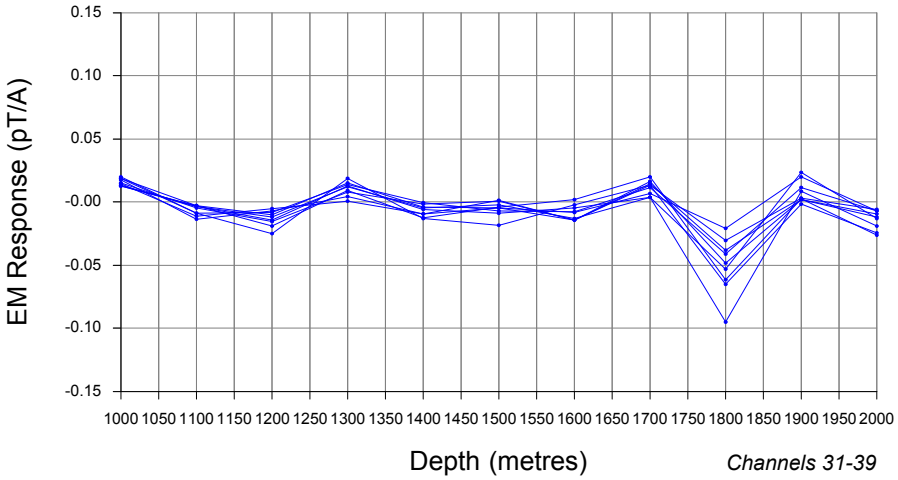
Channels 31-39

Y Component - 65.79 ms to 371.22 ms



Channels 31-39

Z Component - 65.79 ms to 371.22 ms



Channels 31-39

SURVEY PARAMETERS

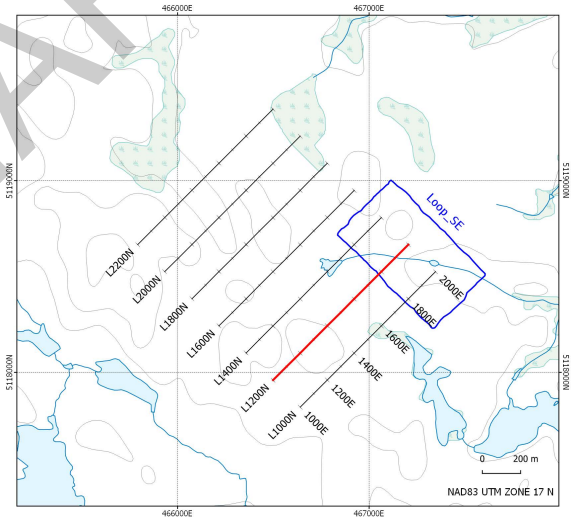
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 700 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.750 ms



0 100 200 300 400 500

Scale 1:10000

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Line 1200N

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Survey Date: February 2019

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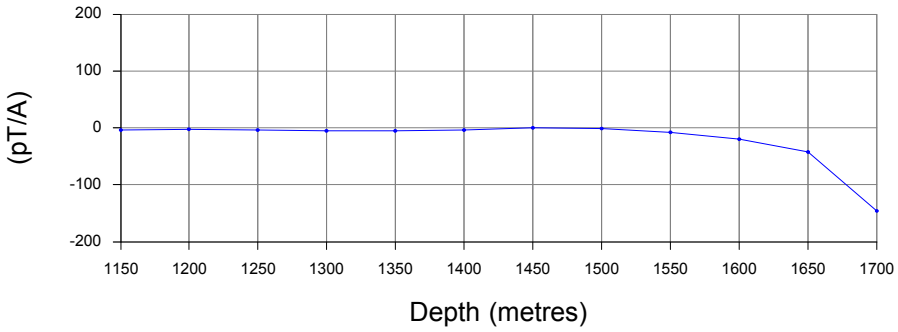
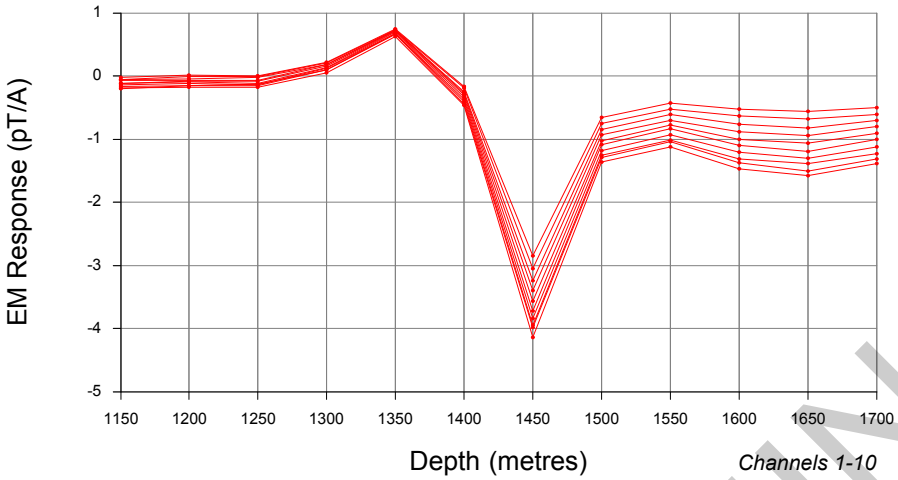
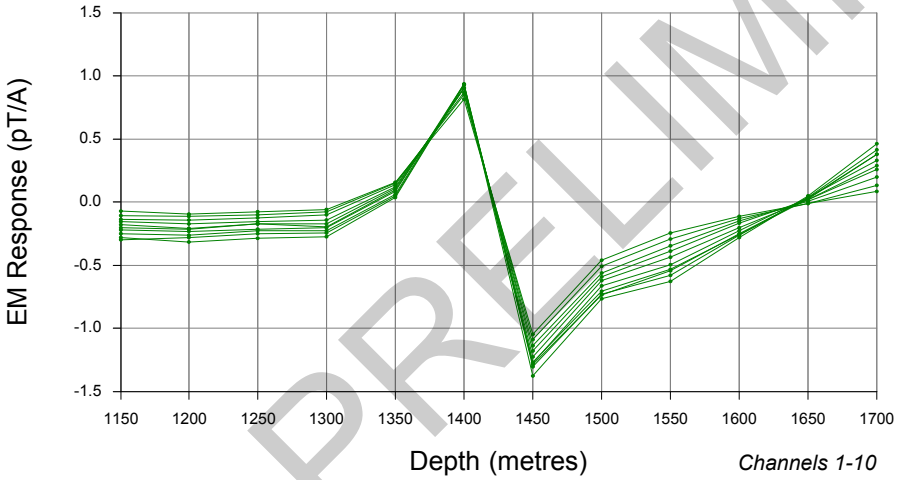
X Component - Primary Field



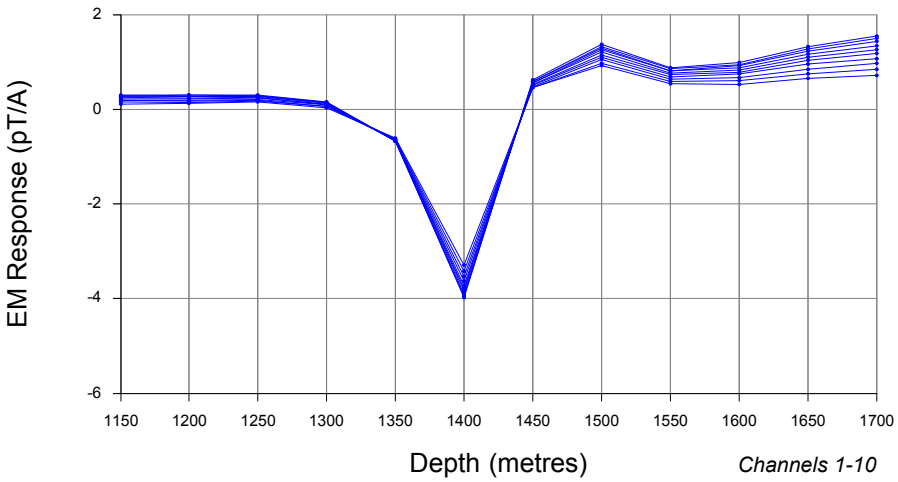
X Component - 0.10 ms to 0.70 ms



Y Component - 0.10 ms to 0.70 ms



Z Component - 0.10 ms to 0.70 ms



SURVEY PARAMETERS

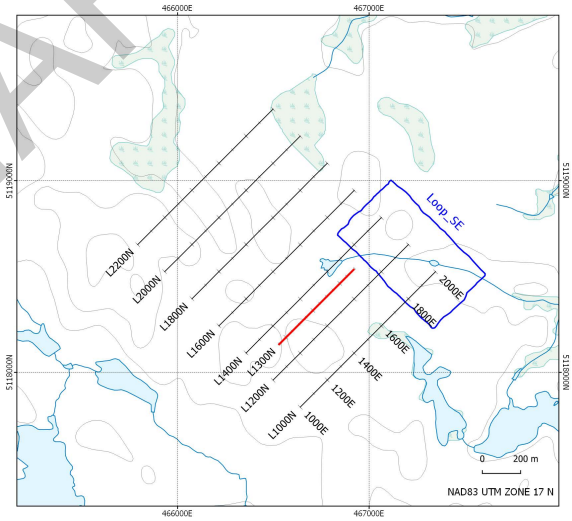
Configuration	: Fixed Loop TEM
Station Spacing	: 50 m
Line Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 700 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.750 ms



0 50 100 150 200 250

Scale 1:5500

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Fixed Loop TEM Survey

Line 1300N

Surveyed By: Connor Harrison
Survey Date: February 2019

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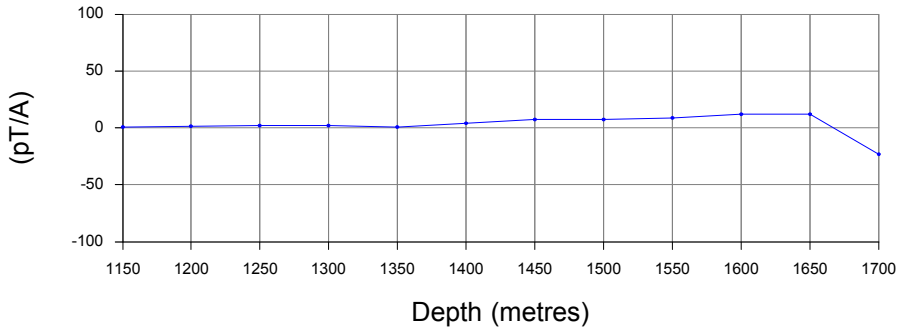
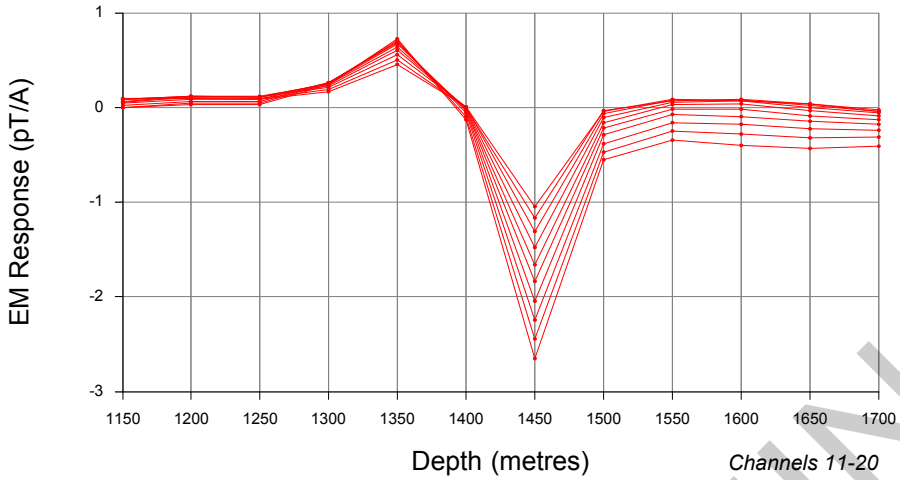
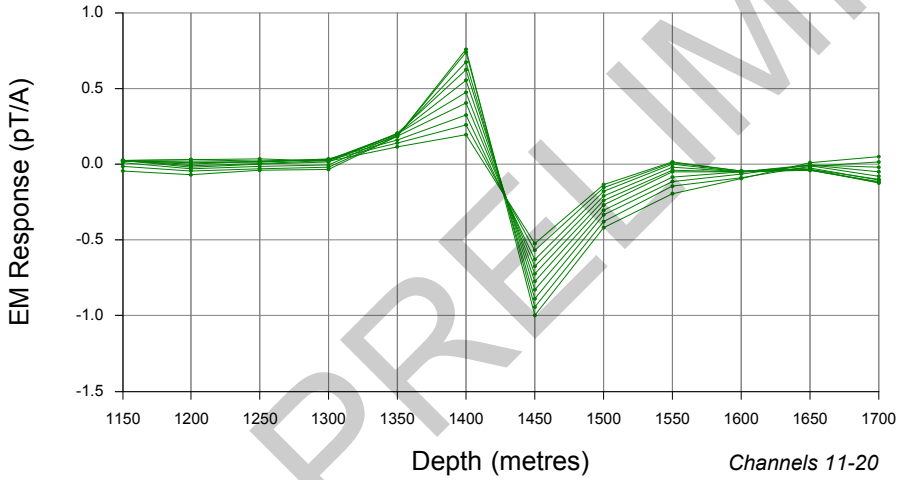
Y Component - Primary Field



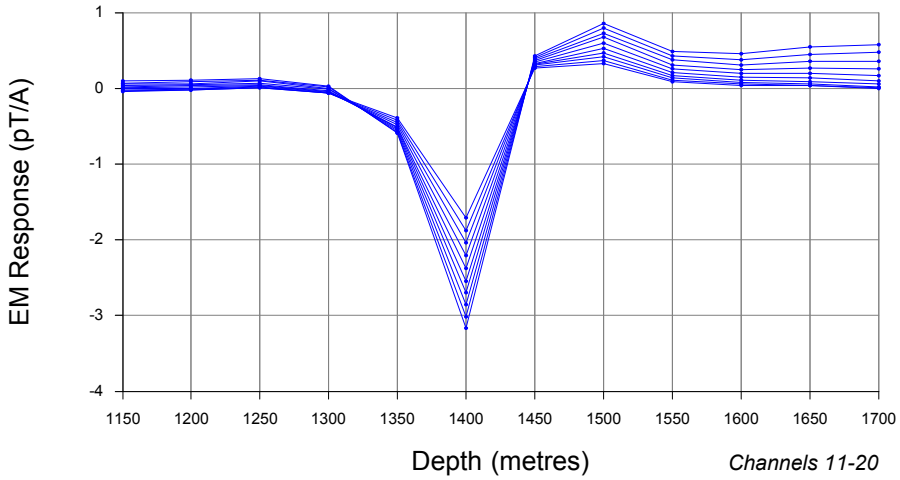
X Component - 0.87 ms to 6.09 ms



Y Component - 0.87 ms to 6.09 ms



Z Component - 0.87 ms to 6.09 ms



SURVEY PARAMETERS

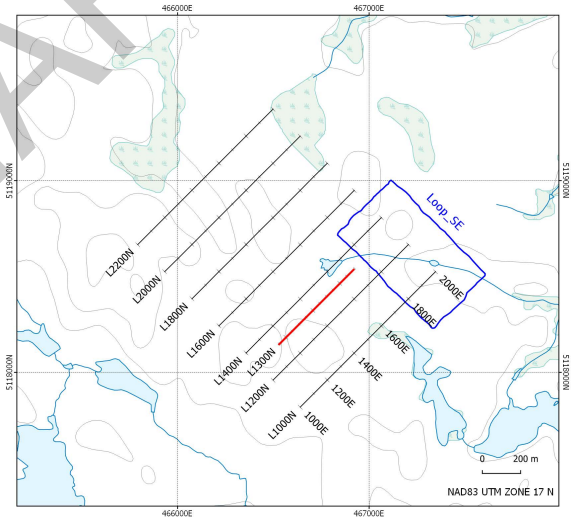
Configuration	: Fixed Loop TEM
Station Spacing	: 50 m
Line Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 700 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.750 ms



0 50 100 150 200 250

Scale 1:5500

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Fixed Loop TEM Survey

Line 1300N

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Survey Date: February 2019

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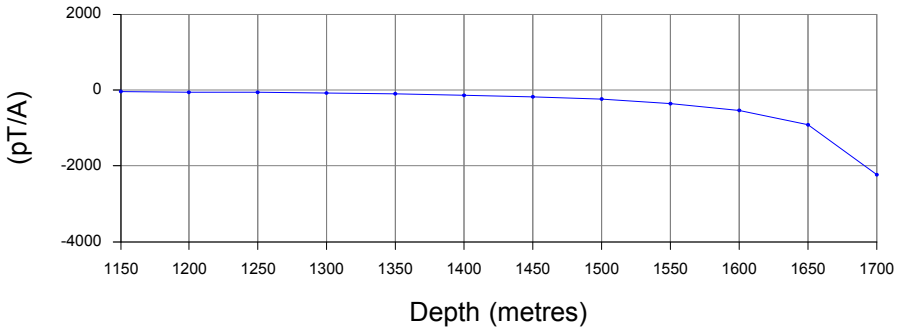
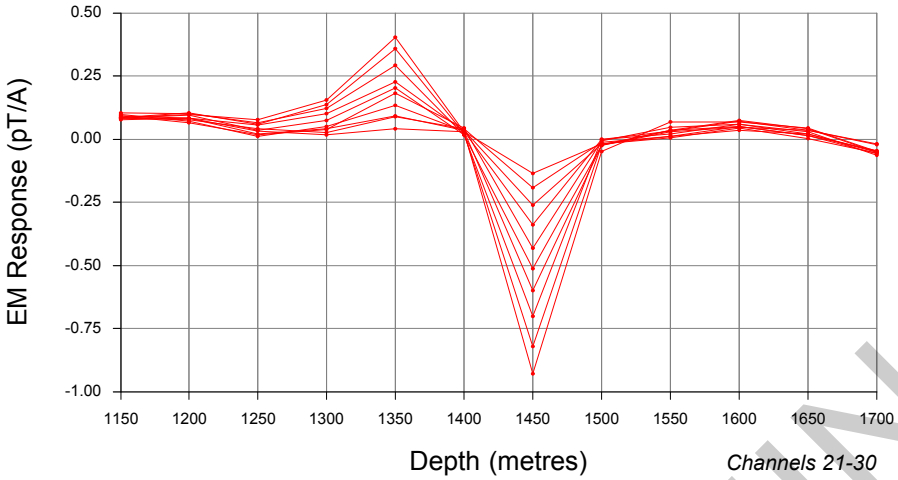
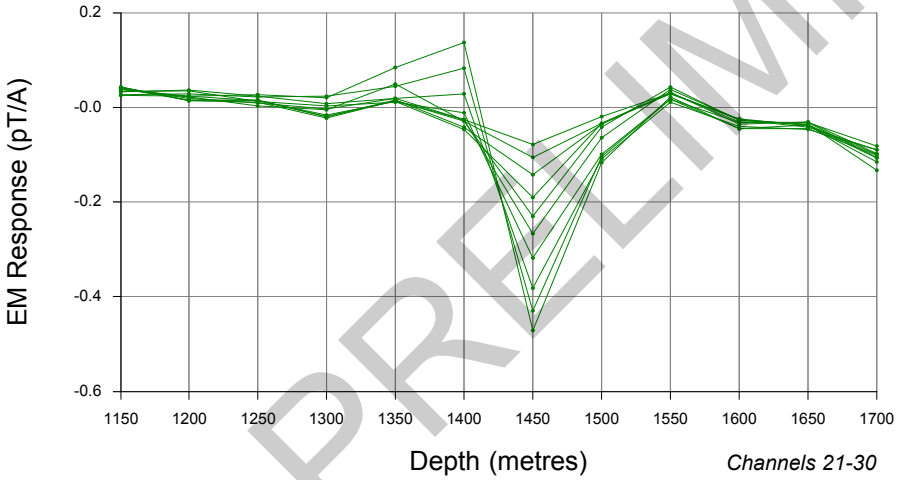
Z Component - Primary Field



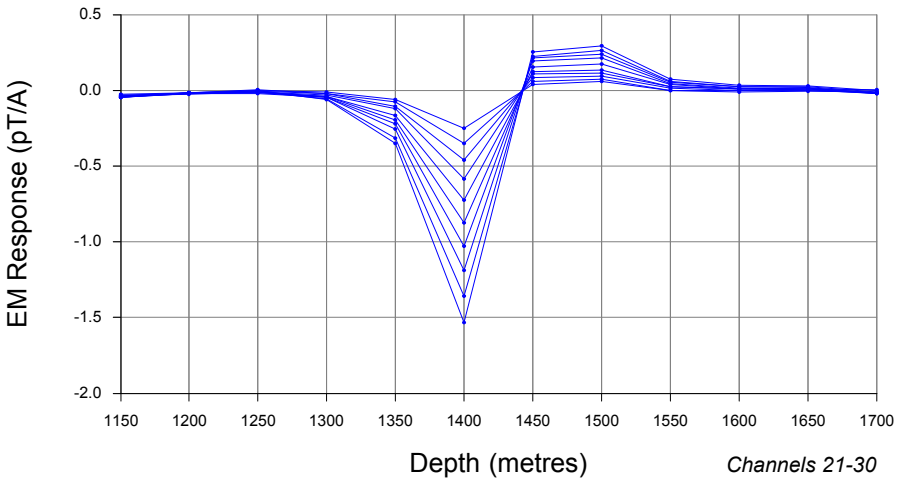
X Component - 7.56 ms to 52.99 ms



Y Component - 7.56 ms to 52.99 ms



Z Component - 7.56 ms to 52.99 ms



SURVEY PARAMETERS

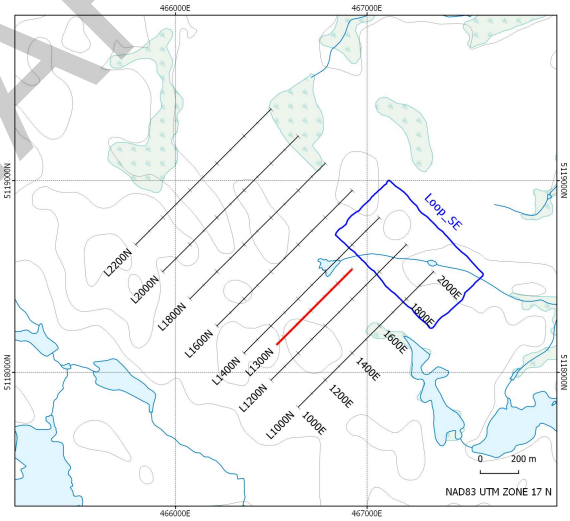
Configuration	: Fixed Loop TEM
Station Spacing	: 50 m
Line Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 700 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.750 ms



0 50 100 150 200 250

Scale 1:5500

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Line 1300N

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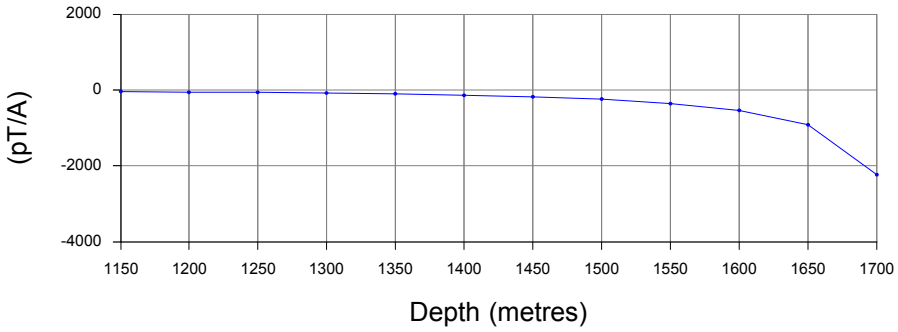
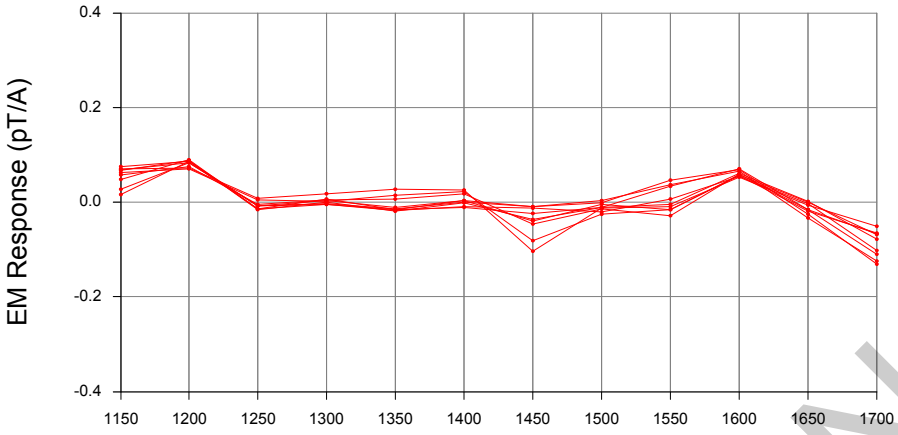
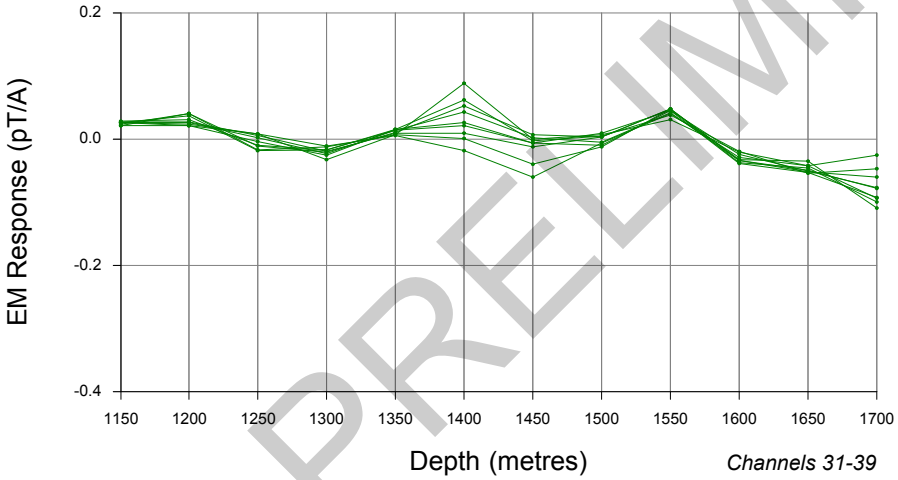
Z Component - Primary Field



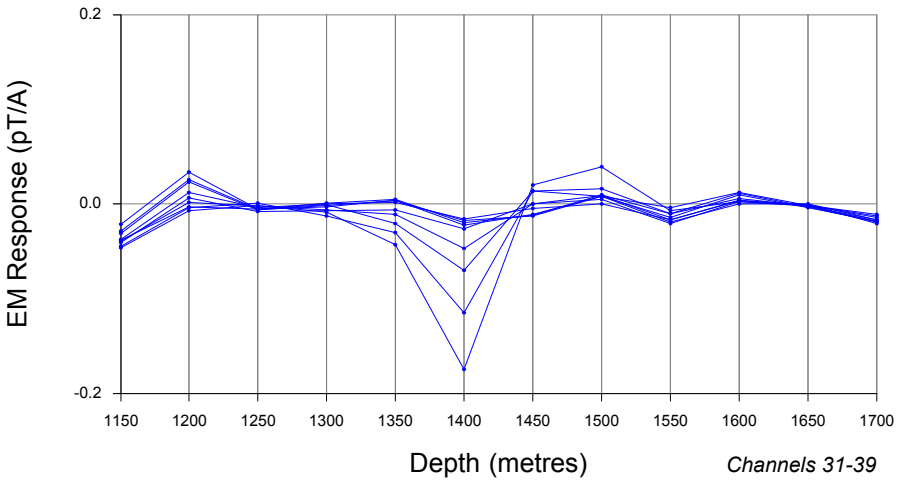
X Component - 65.79 ms to 371.22 ms



Y Component - 65.79 ms to 371.22 ms



Z Component - 65.79 ms to 371.22 ms



SURVEY PARAMETERS

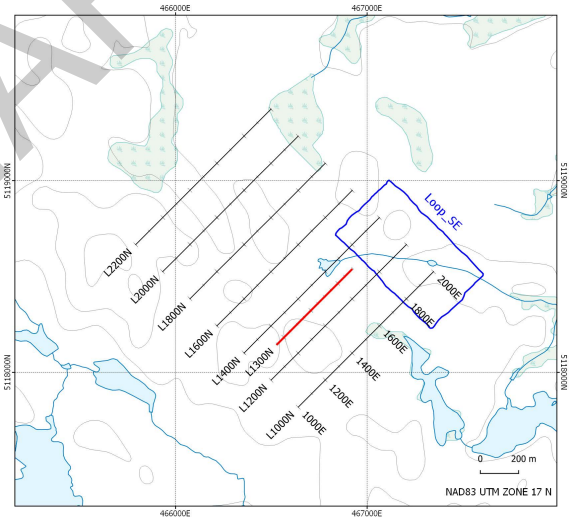
Configuration	: Fixed Loop TEM
Station Spacing	: 50 m
Line Spacing	: 100 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 700 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.750 ms



0 50 100 150 200 250

Scale 1:5500

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Line 1300N

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Survey Date: February 2019

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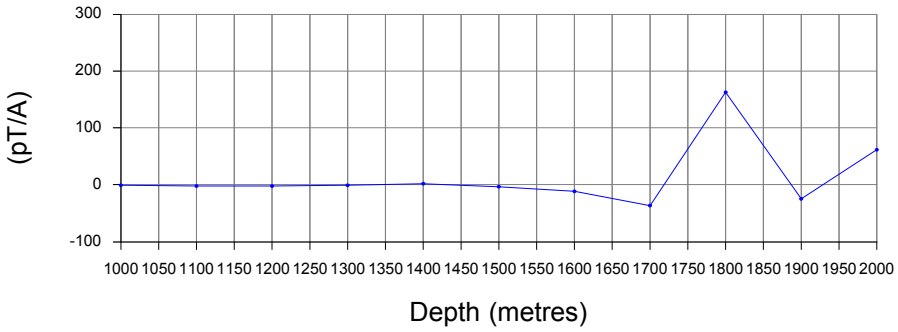
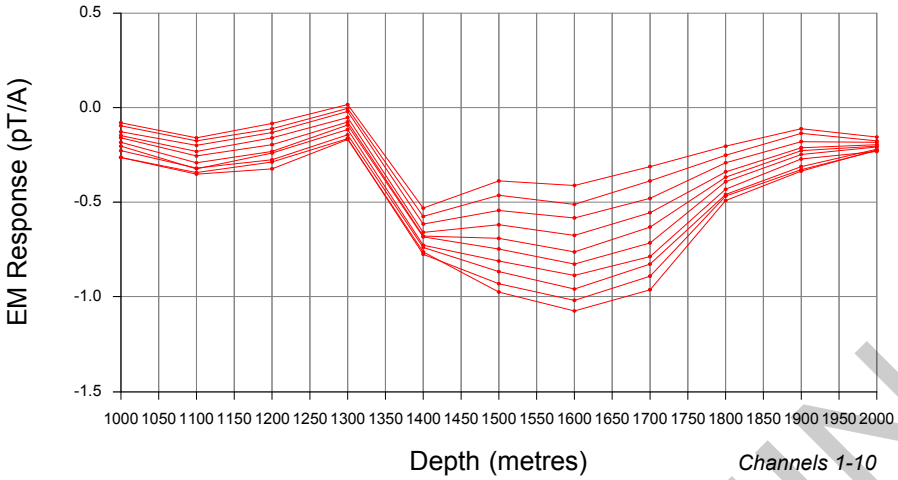
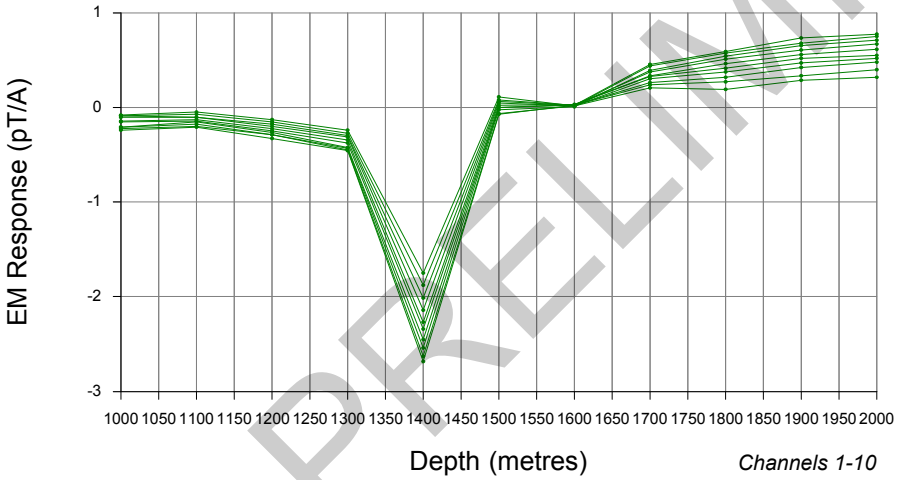
X Component - Primary Field



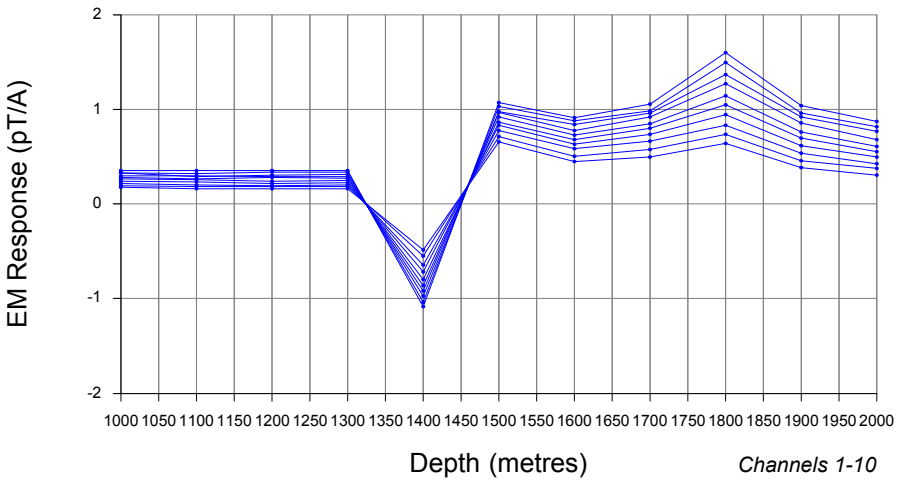
X Component - 0.10 ms to 0.70 ms



Y Component - 0.10 ms to 0.70 ms



Z Component - 0.10 ms to 0.70 ms



SURVEY PARAMETERS

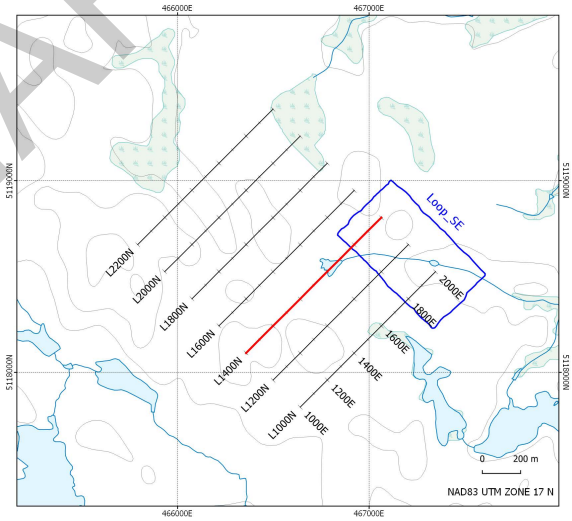
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

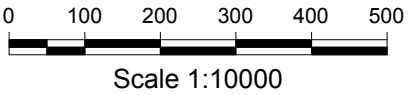
RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 700 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.750 ms





Scale 1:10000

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Lac Panache Grid
Supracon Jessy Deep HT SQUID
Fixed Loop TEM Survey

Line 1400N

Surveyed By: Connor Harrison
Survey Date: February 2019

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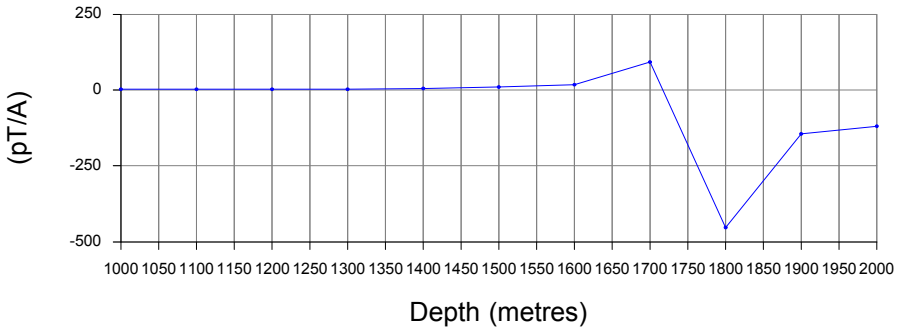
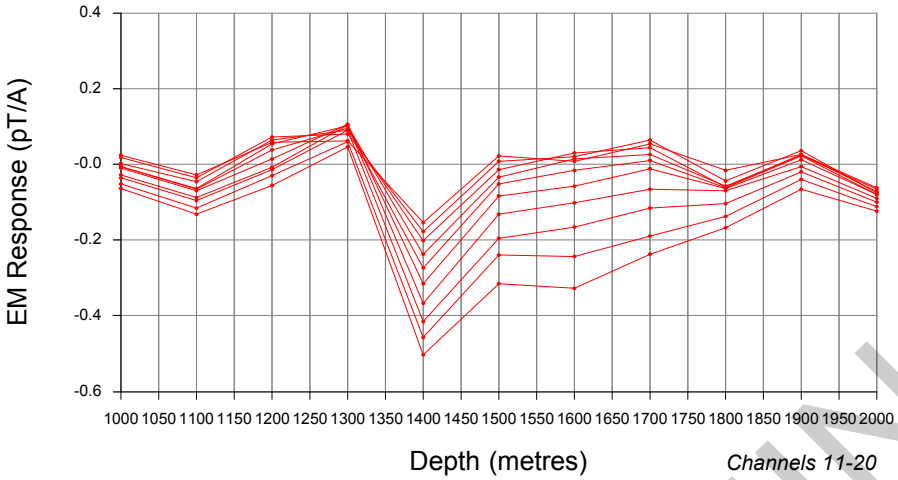
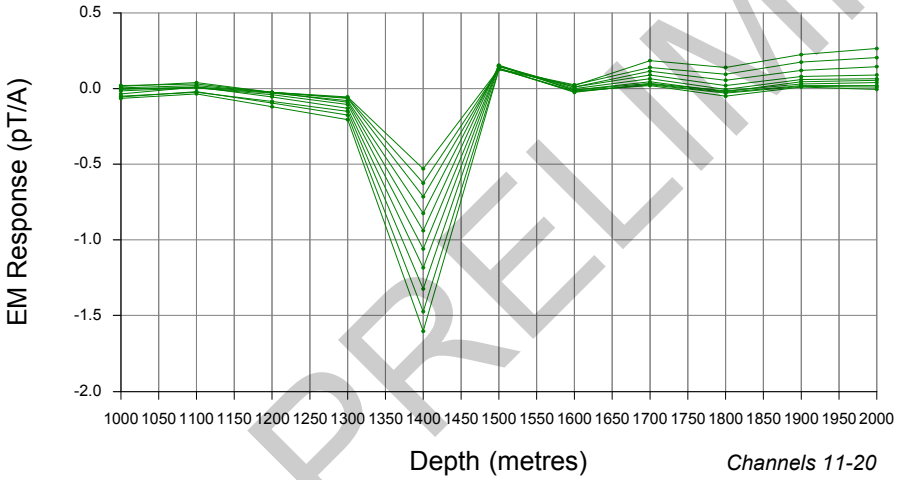
Y Component - Primary Field



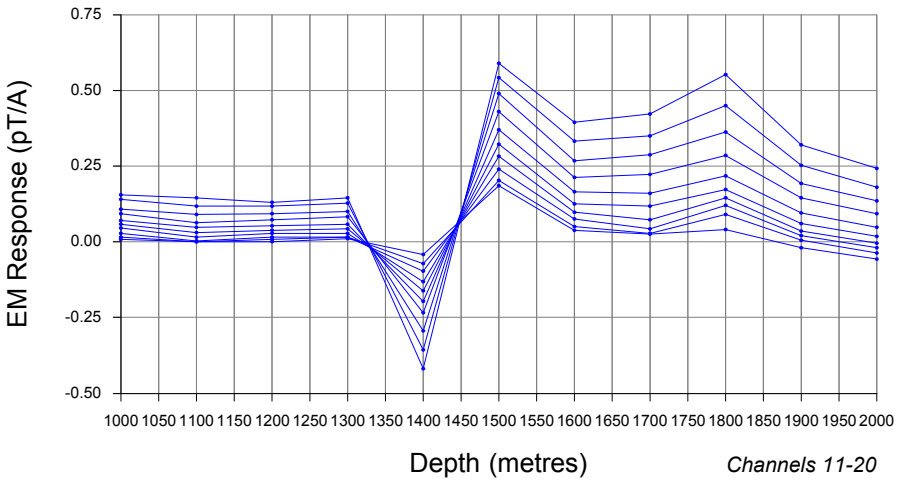
X Component - 0.87 ms to 6.09 ms



Y Component - 0.87 ms to 6.09 ms



Z Component - 0.87 ms to 6.09 ms



SURVEY PARAMETERS

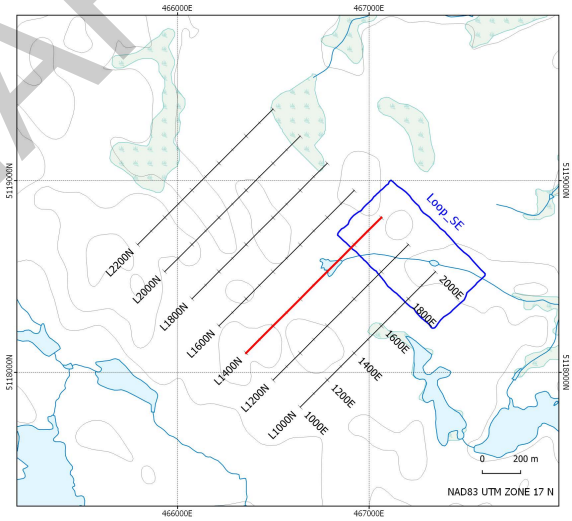
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 700 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.750 ms



0 100 200 300 400 500

Scale 1:10000

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Fixed Loop TEM Survey

Line 1400N

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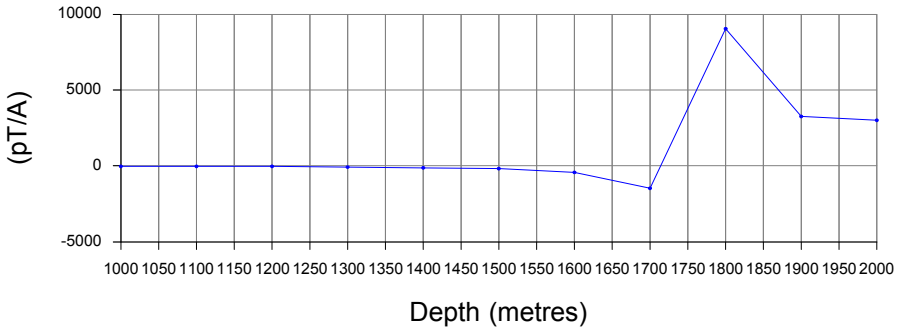
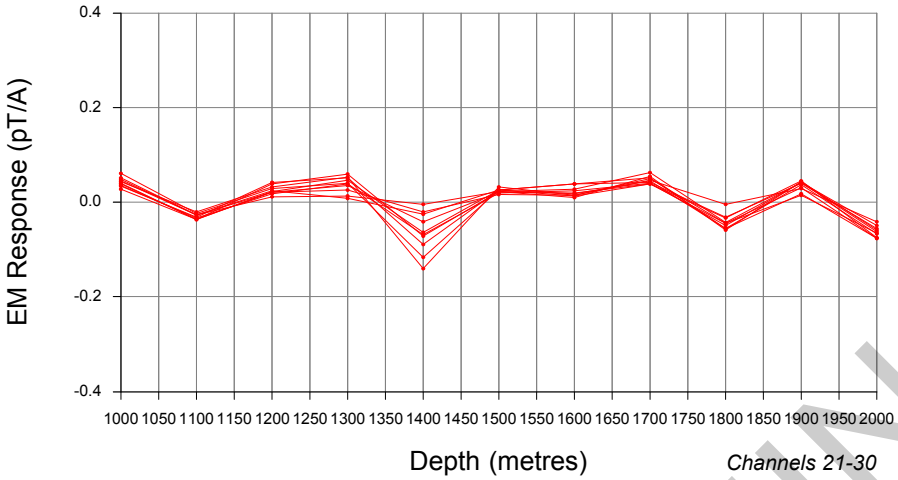
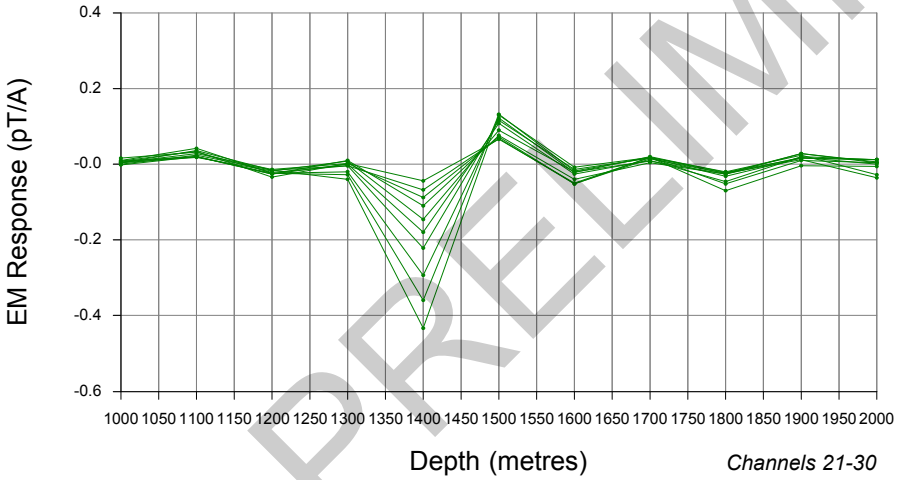
Z Component - Primary Field



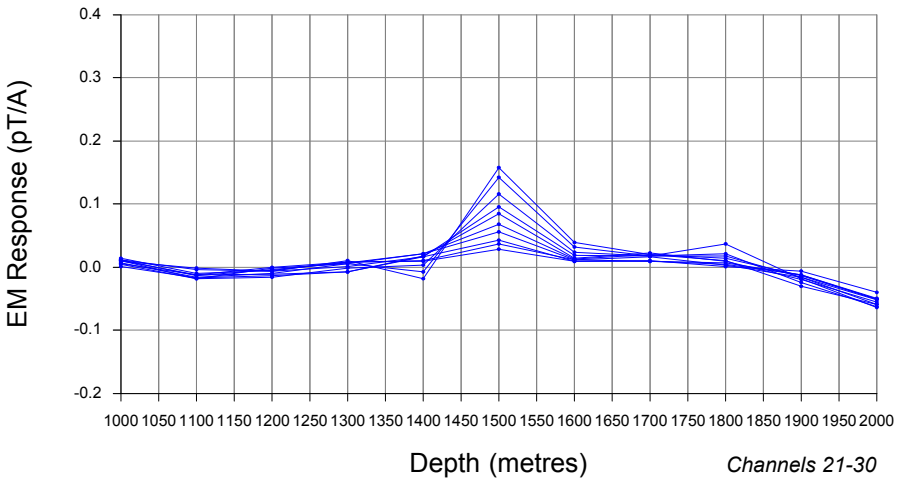
X Component - 7.56 ms to 52.99 ms



Y Component - 7.56 ms to 52.99 ms



Z Component - 7.56 ms to 52.99 ms



SURVEY PARAMETERS

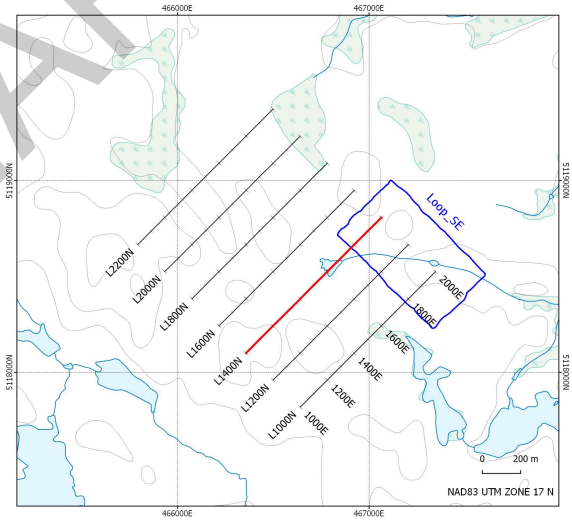
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 700 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.750 ms



0 100 200 300 400 500

Scale 1:10000

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Line 1400N

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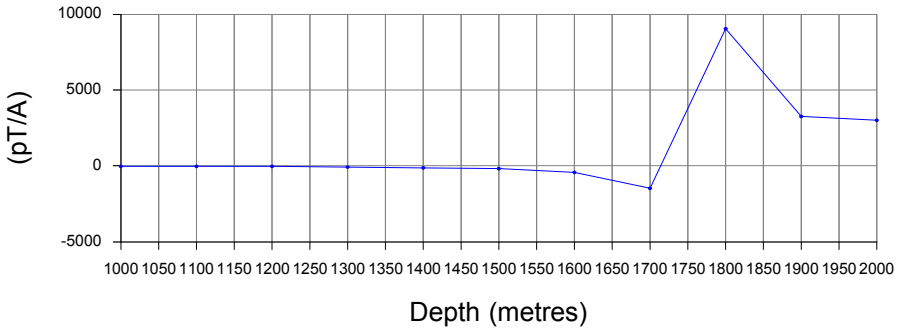
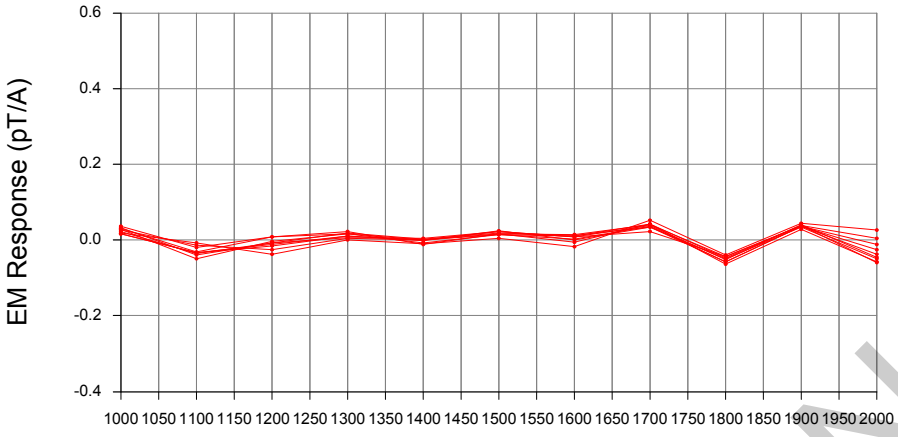
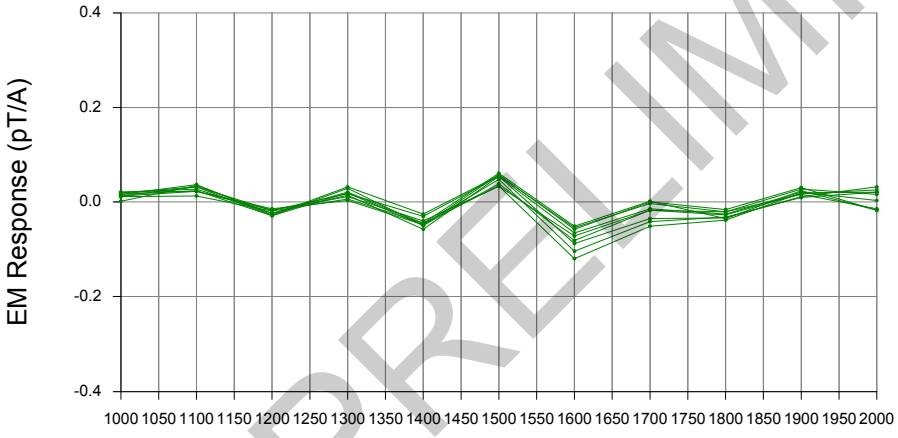
Z Component - Primary Field



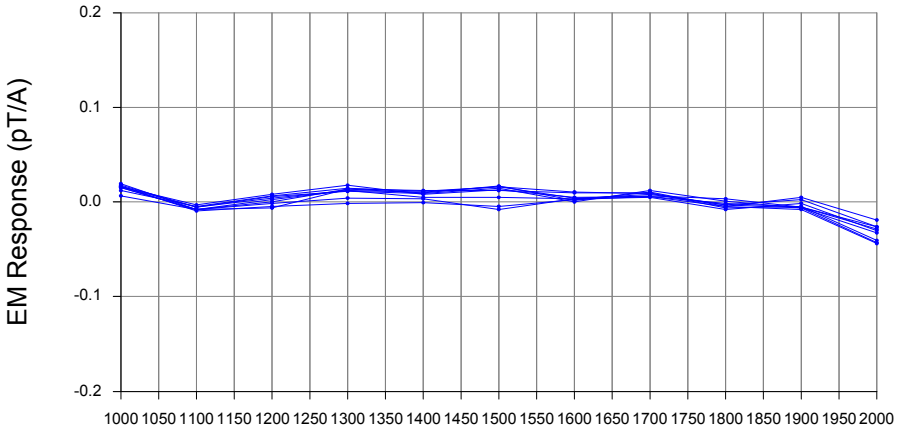
X Component - 65.79 ms to 371.22 ms



Y Component - 65.79 ms to 371.22 ms



Z Component - 65.79 ms to 371.22 ms



SURVEY PARAMETERS

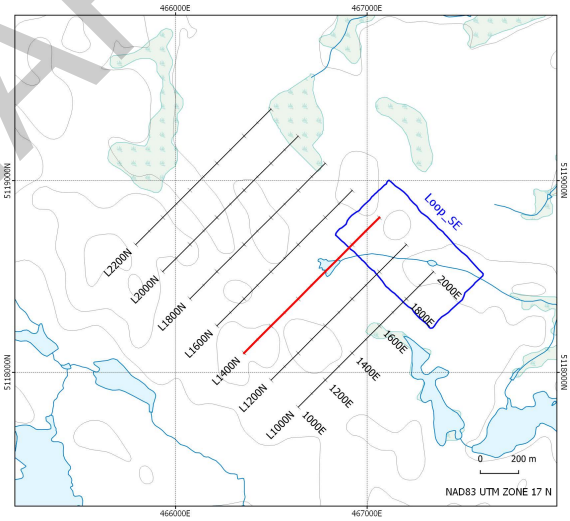
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 700 m
Tx Turns	: 1
Tx Current	: 20 A
Turn Off	: 0.750 ms



0 100 200 300 400 500

Scale 1:10000

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Fixed Loop TEM Survey

Line 1400N

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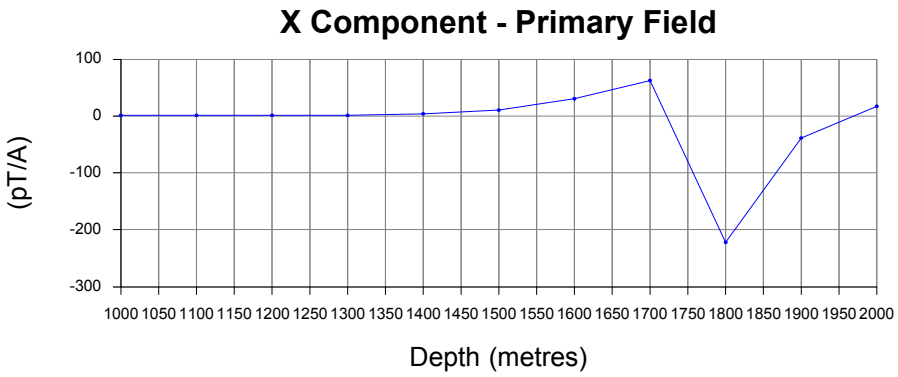
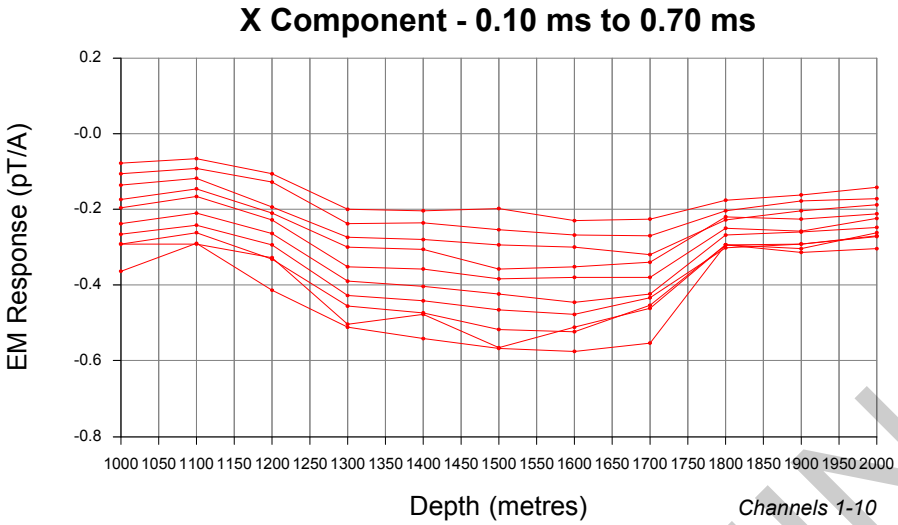
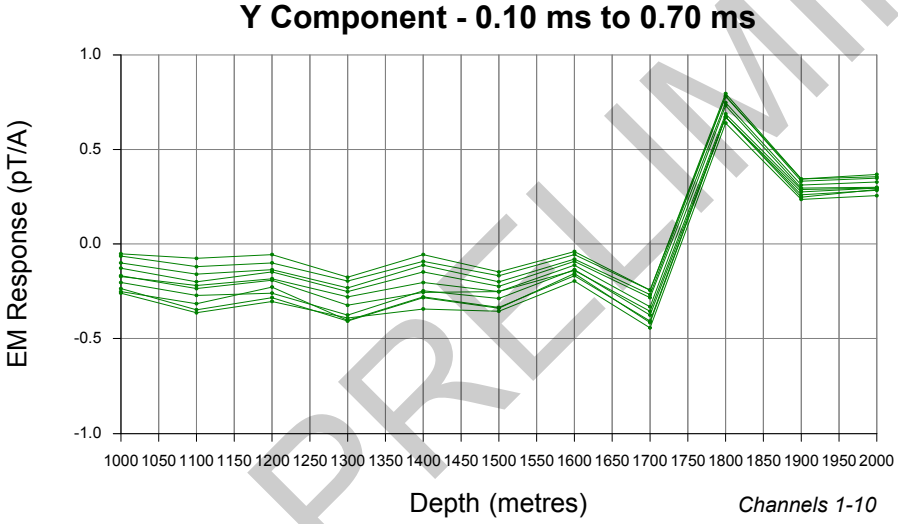
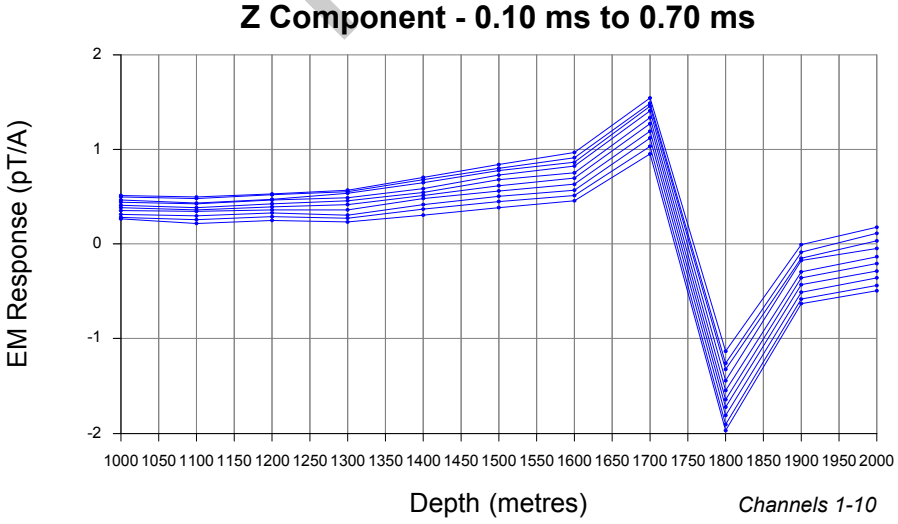








SURVEY PARAMETERS

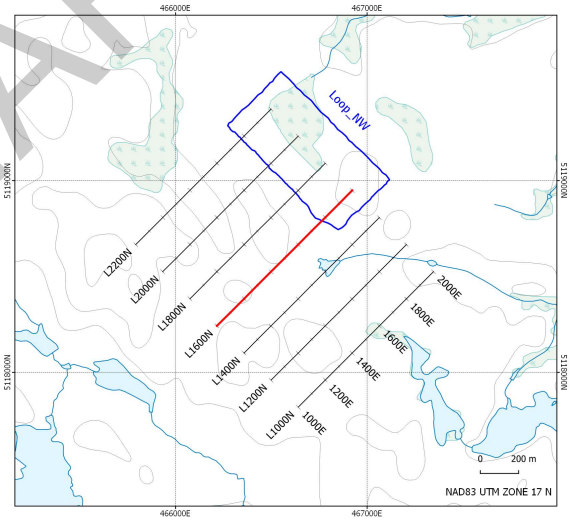
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

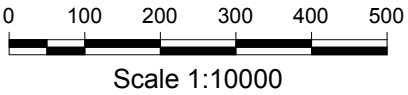
RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 800 m
Tx Turns	: 1
Tx Current	: 18 A
Turn Off	: 0.750 ms





Scale 1:10000

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Supracon Jessy Deep HT SQUID
Fixed Loop TEM Survey

Line 1600N

Surveyed By: Connor Harrison
Survey Date: February 2019

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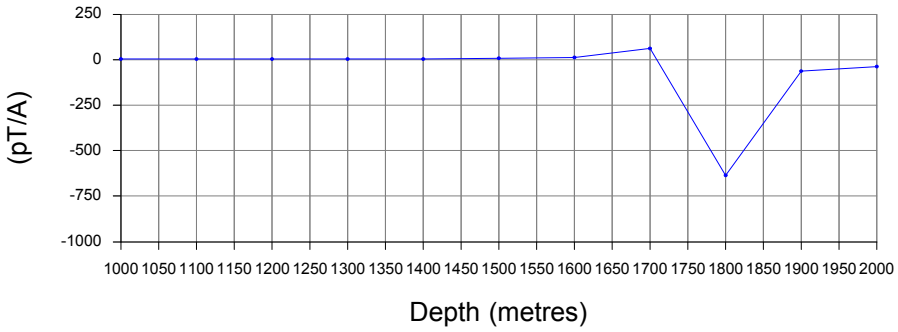
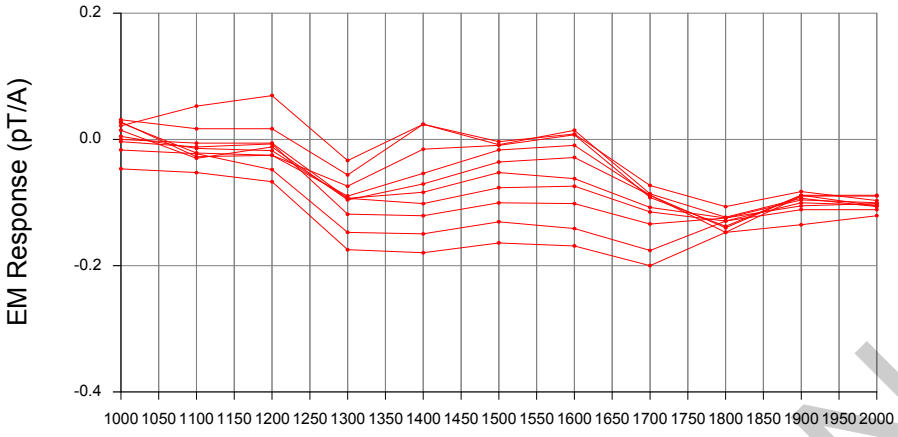
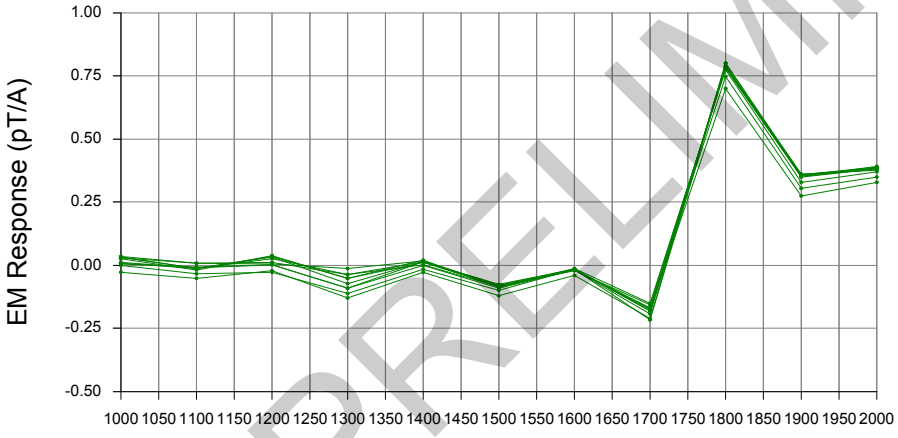
Y Component - Primary Field



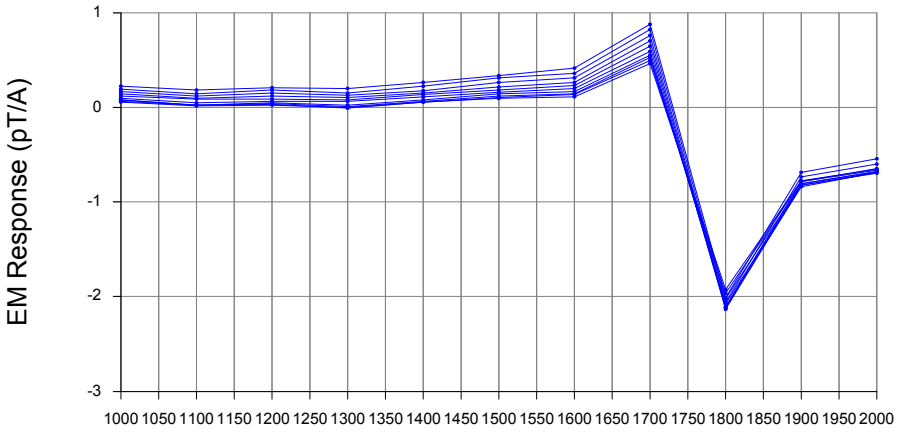
X Component - 0.87 ms to 6.09 ms



Y Component - 0.87 ms to 6.09 ms



Z Component - 0.87 ms to 6.09 ms



SURVEY PARAMETERS

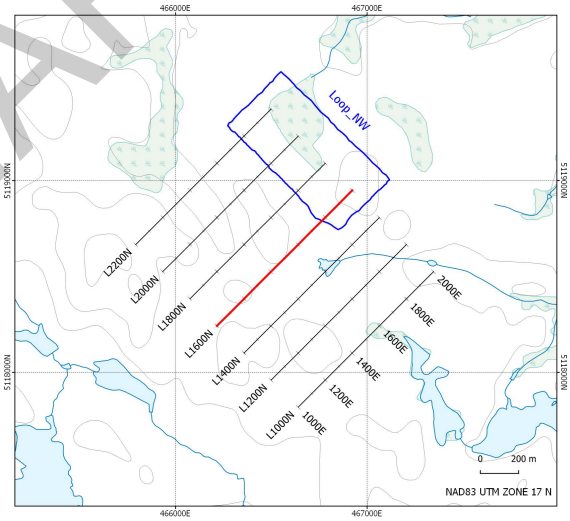
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

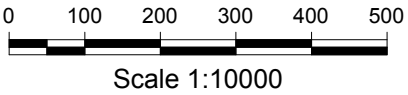
RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 800 m
Tx Turns	: 1
Tx Current	: 18 A
Turn Off	: 0.750 ms





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Fixed Loop TEM Survey

Line 1600N

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Survey Date: February 2019

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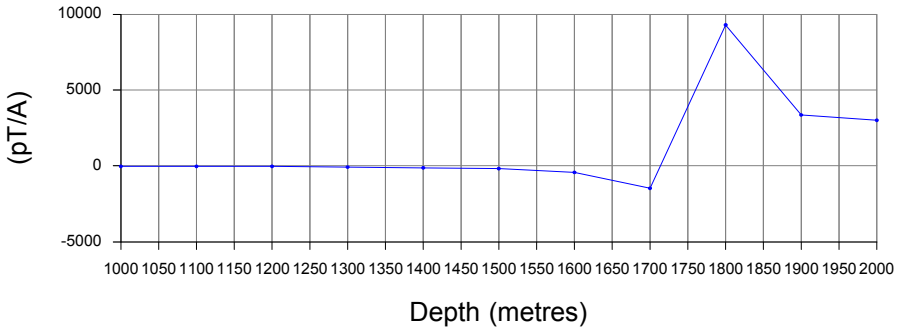
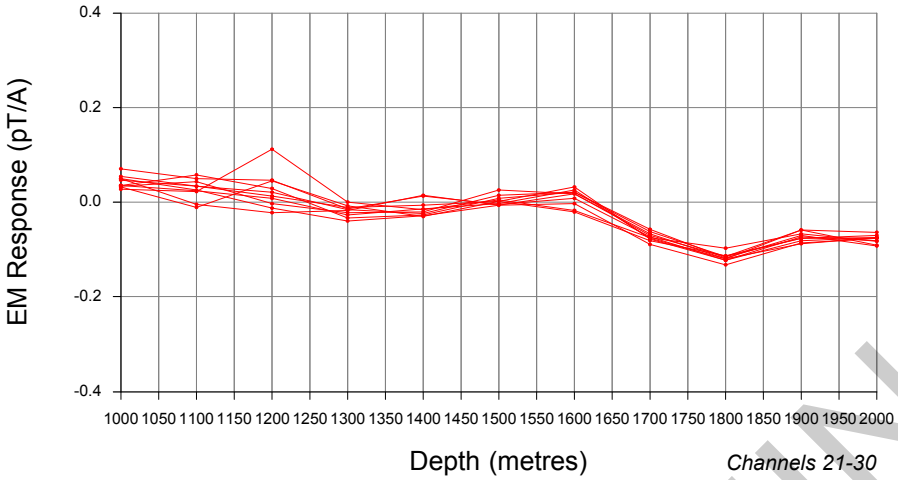
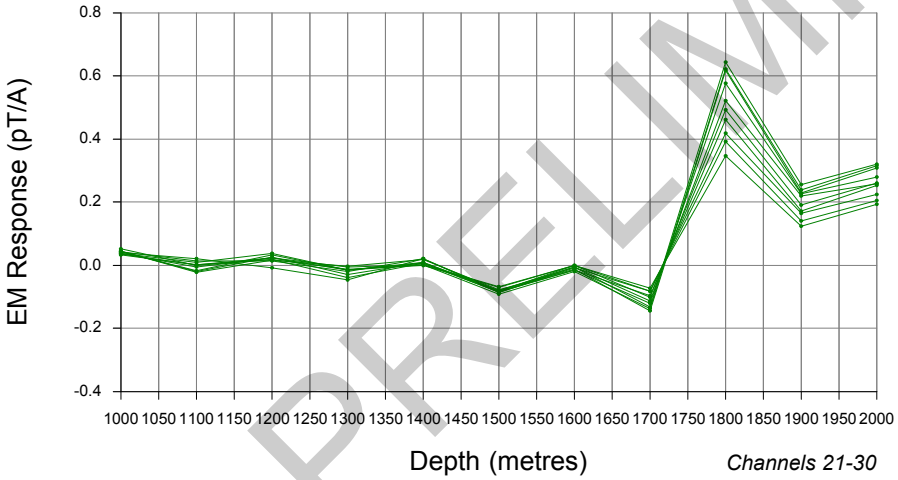
Z Component - Primary Field



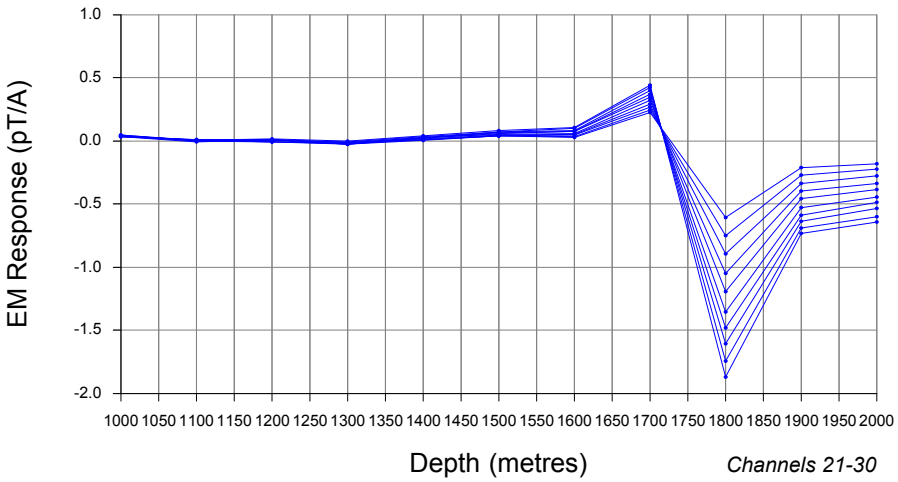
X Component - 7.56 ms to 52.99 ms



Y Component - 7.56 ms to 52.99 ms



Z Component - 7.56 ms to 52.99 ms



SURVEY PARAMETERS

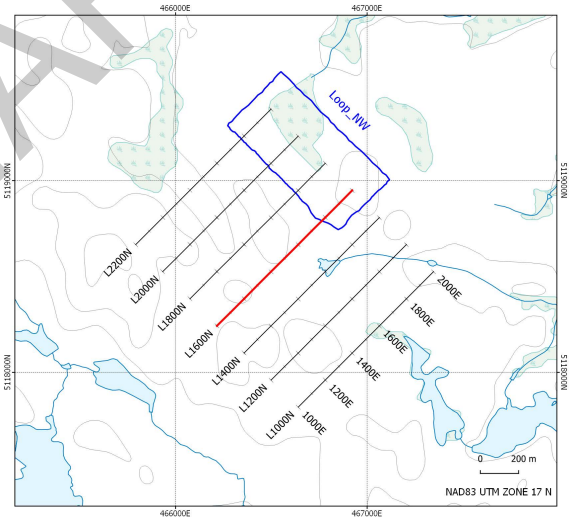
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

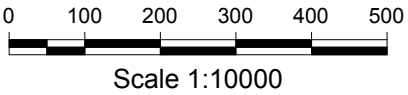
RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 800 m
Tx Turns	: 1
Tx Current	: 18 A
Turn Off	: 0.750 ms





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Fixed Loop TEM Survey

Line 1600N

Surveyed By: Connor Harrison
Survey Date: February 2019

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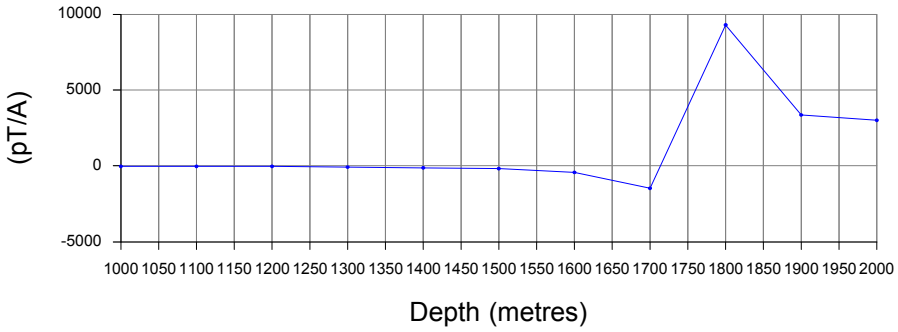
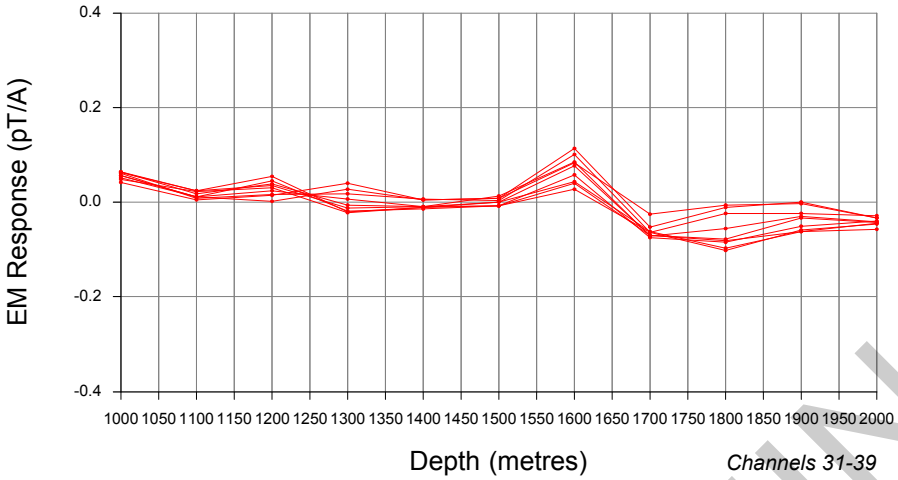
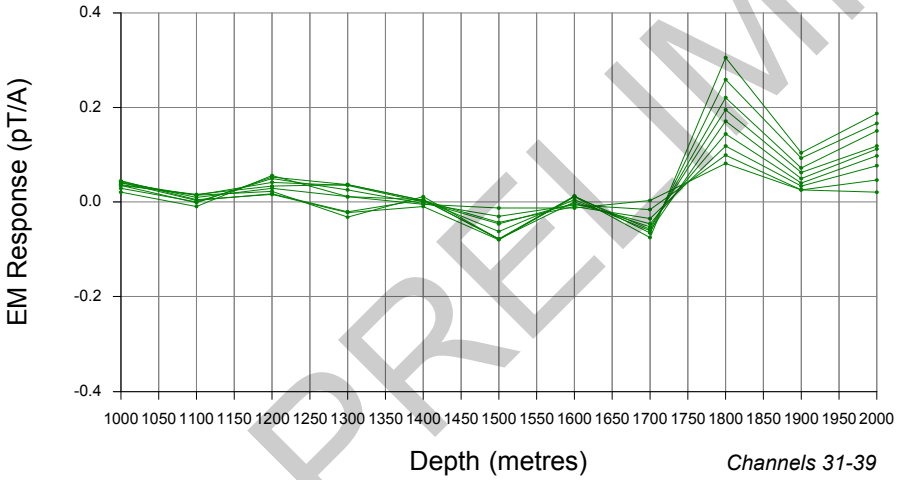
Z Component - Primary Field



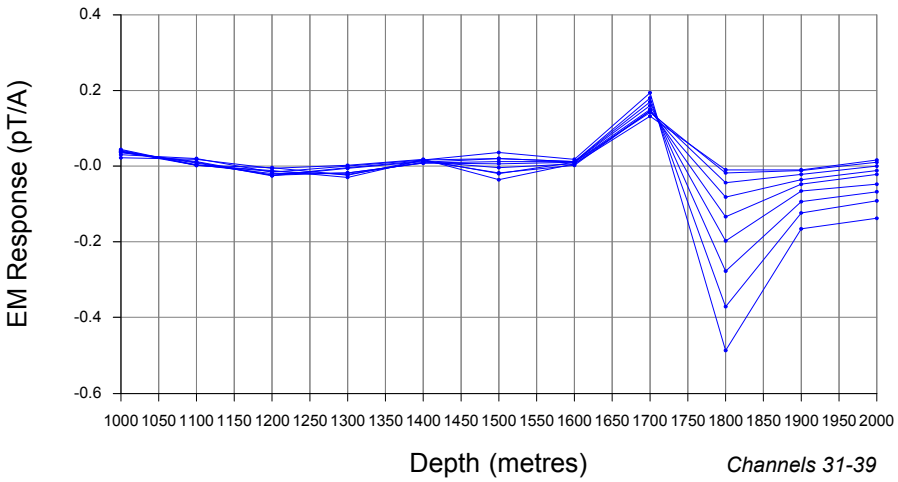
X Component - 65.79 ms to 371.22 ms



Y Component - 65.79 ms to 371.22 ms



Z Component - 65.79 ms to 371.22 ms



SURVEY PARAMETERS

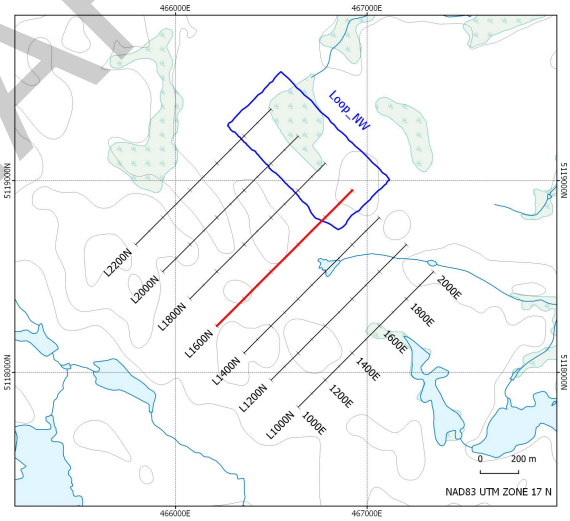
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

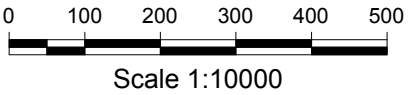
RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 800 m
Tx Turns	: 1
Tx Current	: 18 A
Turn Off	: 0.750 ms





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Fixed Loop TEM Survey

Line 1600N

Surveyed By: Connor Harrison
Survey Date: February 2019

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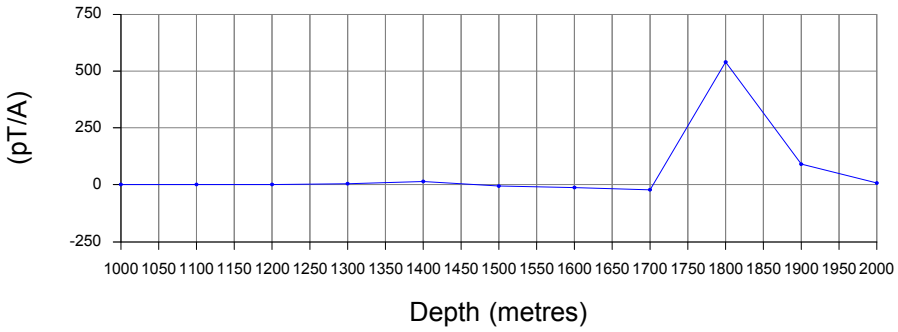
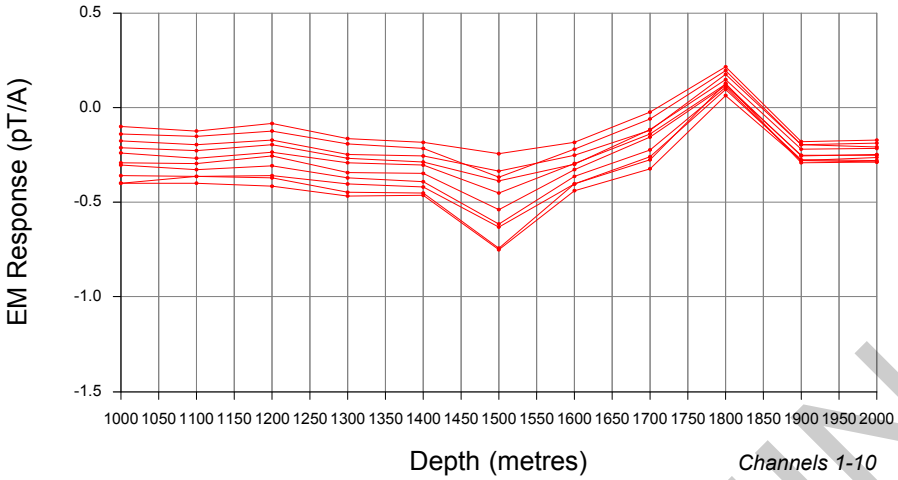
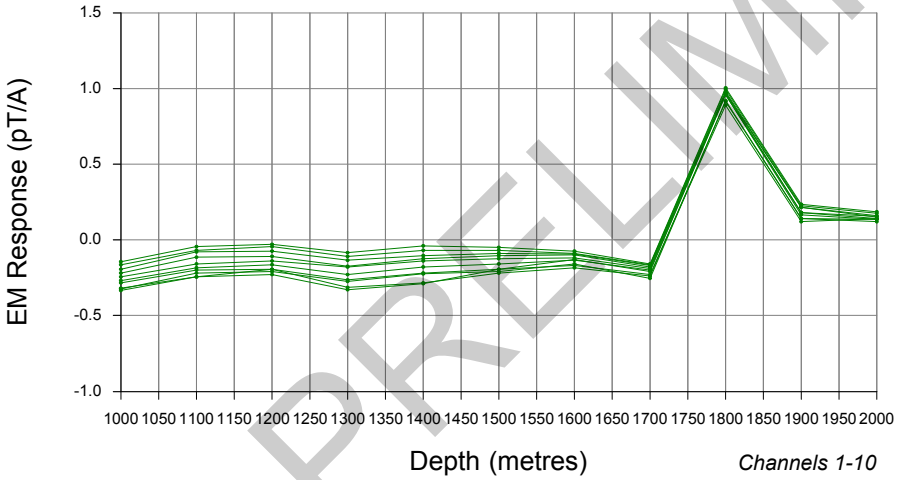
X Component - Primary Field



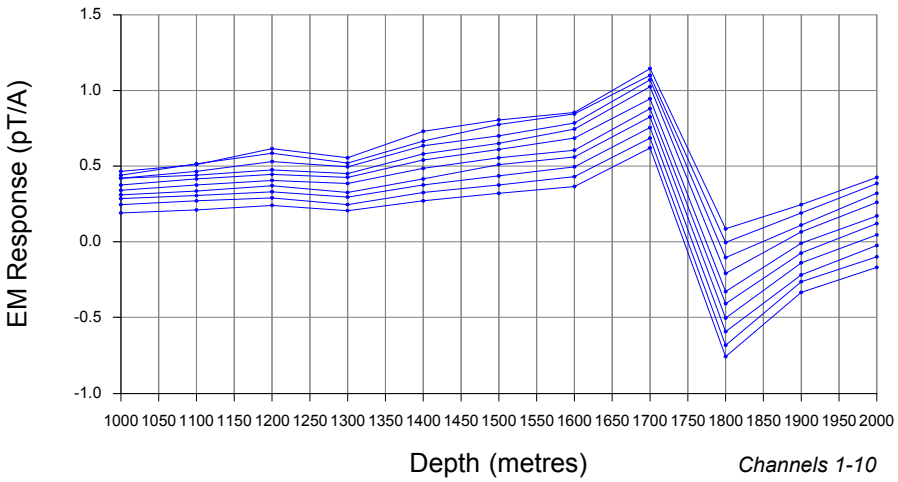
X Component - 0.10 ms to 0.70 ms



Y Component - 0.10 ms to 0.70 ms



Z Component - 0.10 ms to 0.70 ms



SURVEY PARAMETERS

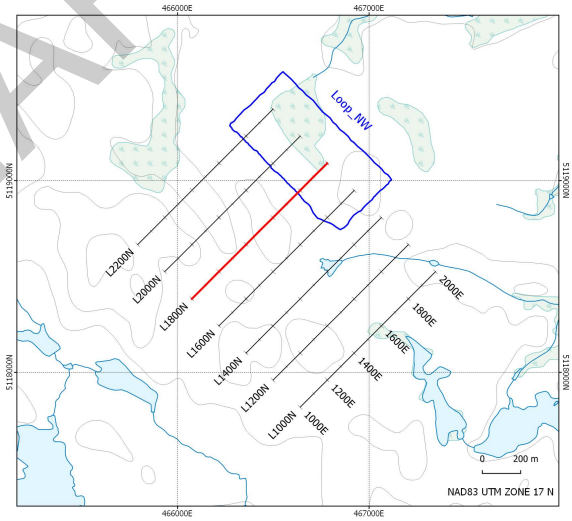
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

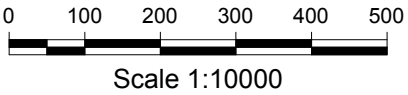
RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 800 m
Tx Turns	: 1
Tx Current	: 18 A
Turn Off	: 0.750 ms





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Supracon Jessy Deep HT SQUID
Fixed Loop TEM Survey

Line 1800N

Surveyed By: Connor Harrison
Survey Date: February 2019

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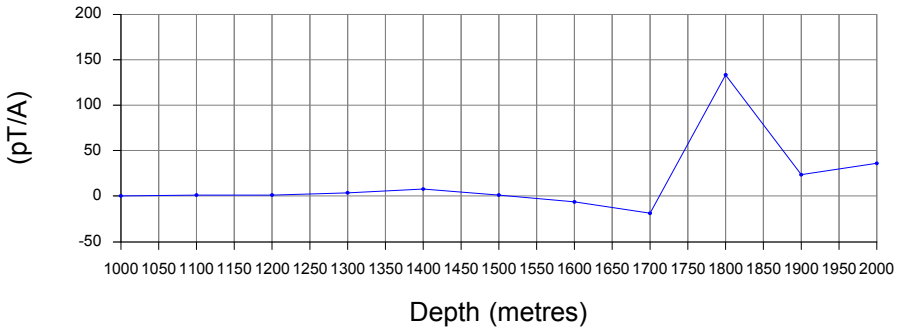
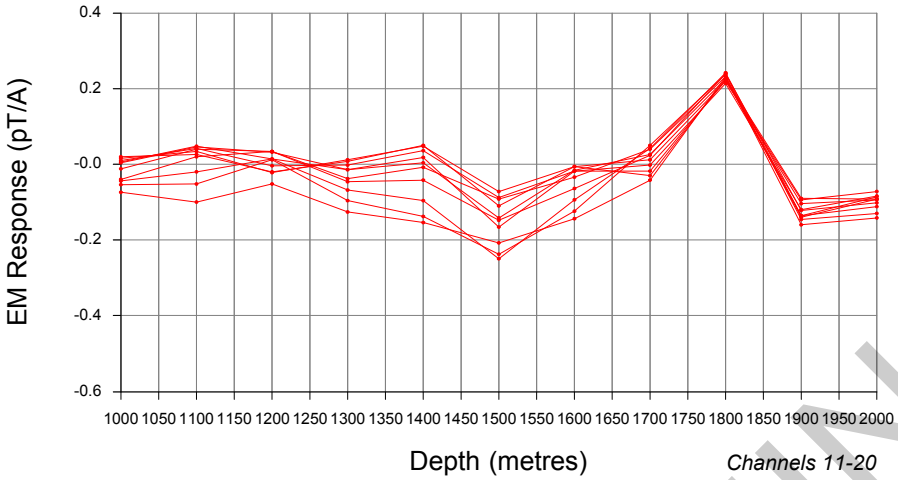
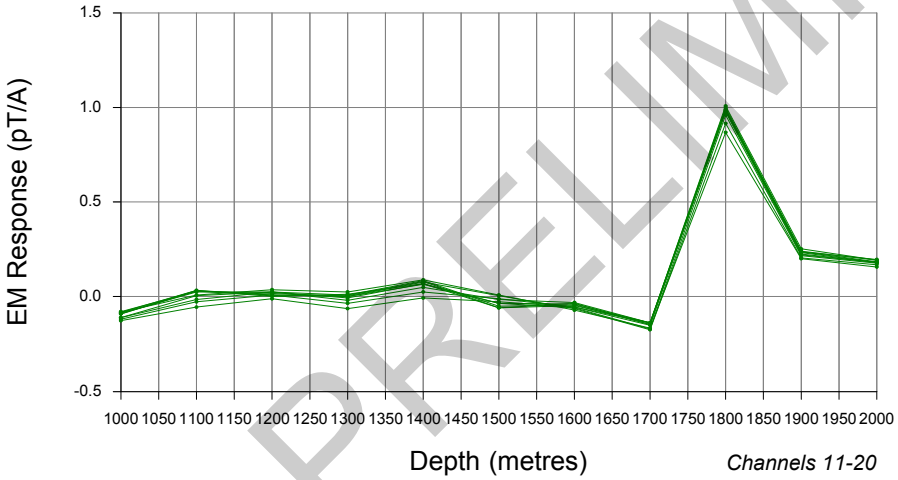
Y Component - Primary Field



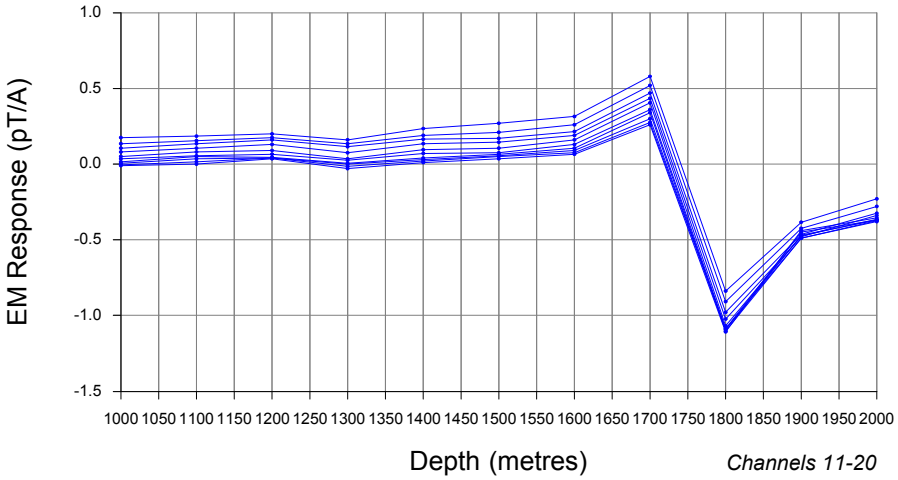
X Component - 0.87 ms to 6.09 ms



Y Component - 0.87 ms to 6.09 ms



Z Component - 0.87 ms to 6.09 ms



SURVEY PARAMETERS

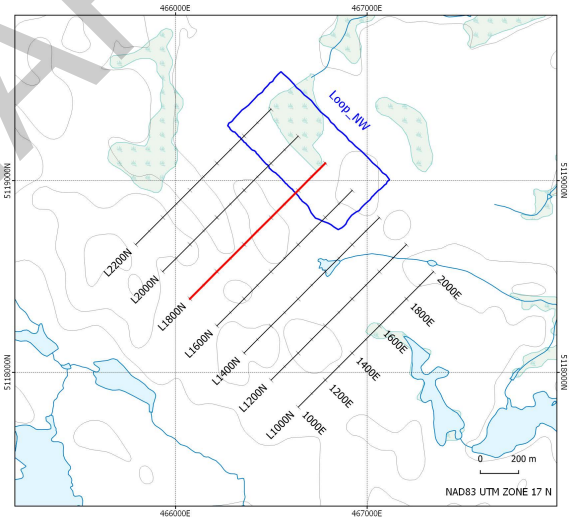
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

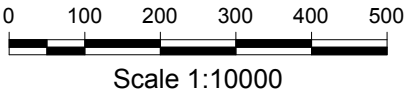
RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 800 m
Tx Turns	: 1
Tx Current	: 18 A
Turn Off	: 0.750 ms





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Supracon Jessy Deep HT SQUID
Fixed Loop TEM Survey

Line 1800N

Surveyed By: Connor Harrison
Survey Date: February 2019

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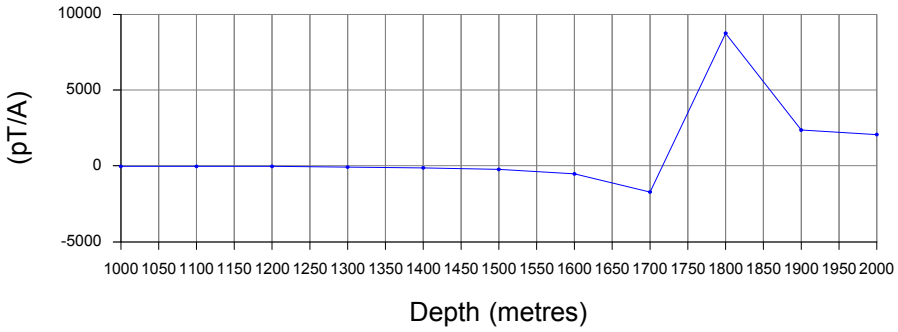
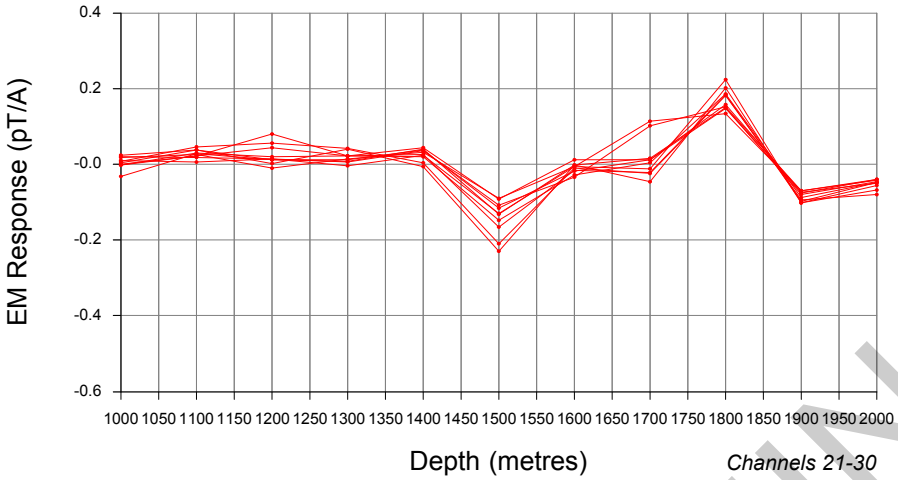
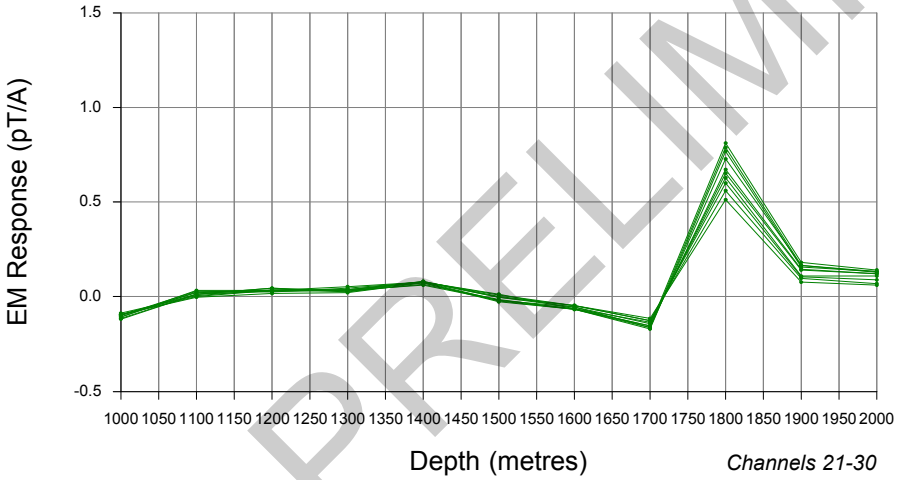
Z Component - Primary Field



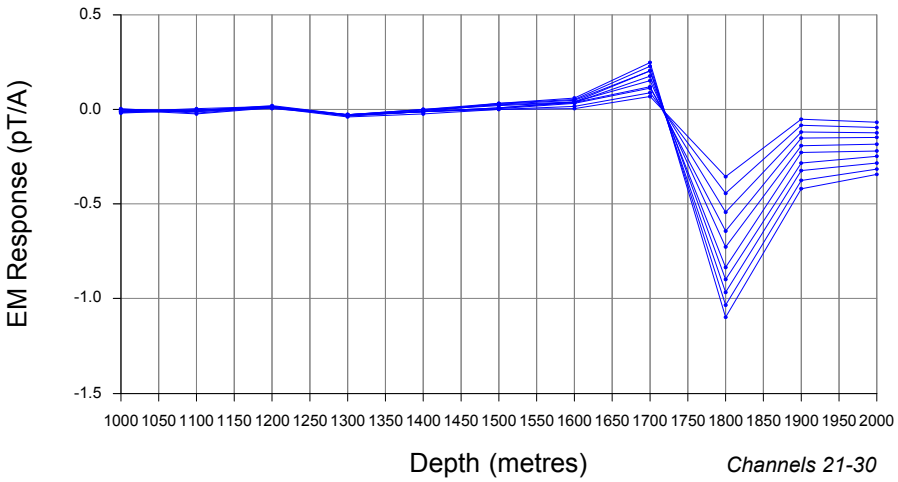
X Component - 7.56 ms to 52.99 ms



Y Component - 7.56 ms to 52.99 ms



Z Component - 7.56 ms to 52.99 ms



SURVEY PARAMETERS

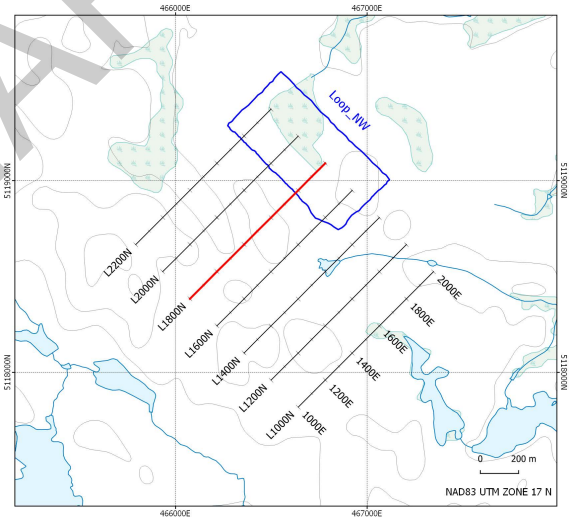
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

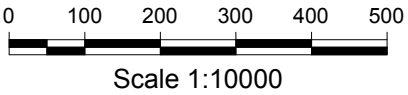
RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 800 m
Tx Turns	: 1
Tx Current	: 18 A
Turn Off	: 0.750 ms





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Fixed Loop TEM Survey

Line 1800N

Surveyed By: Connor Harrison
Survey Date: February 2019

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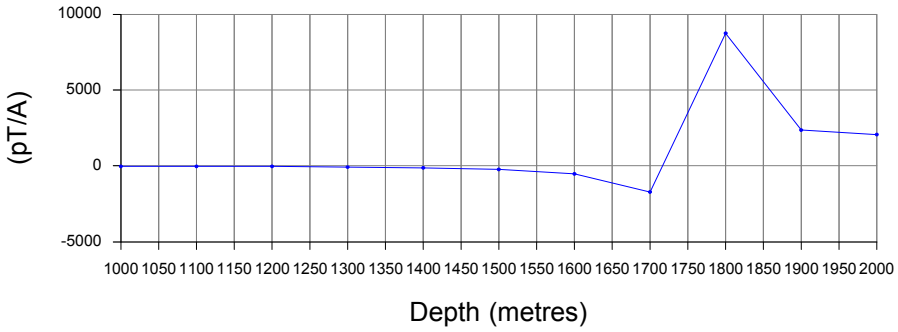
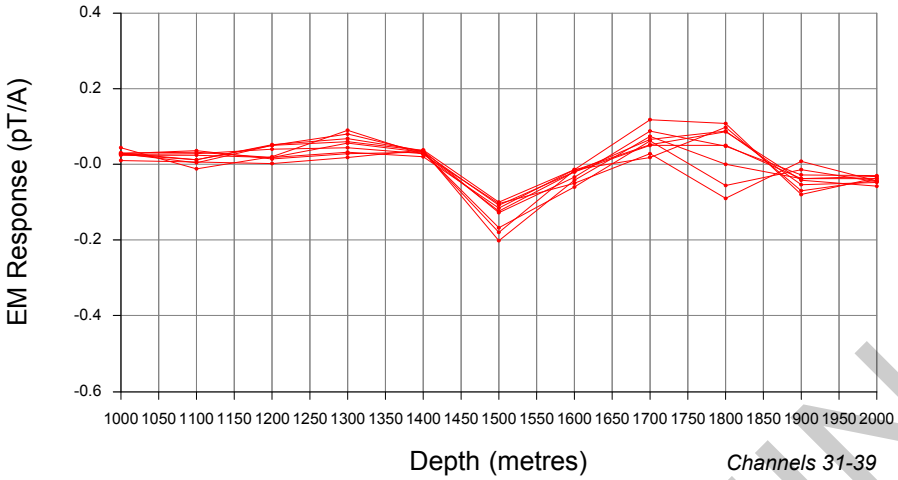
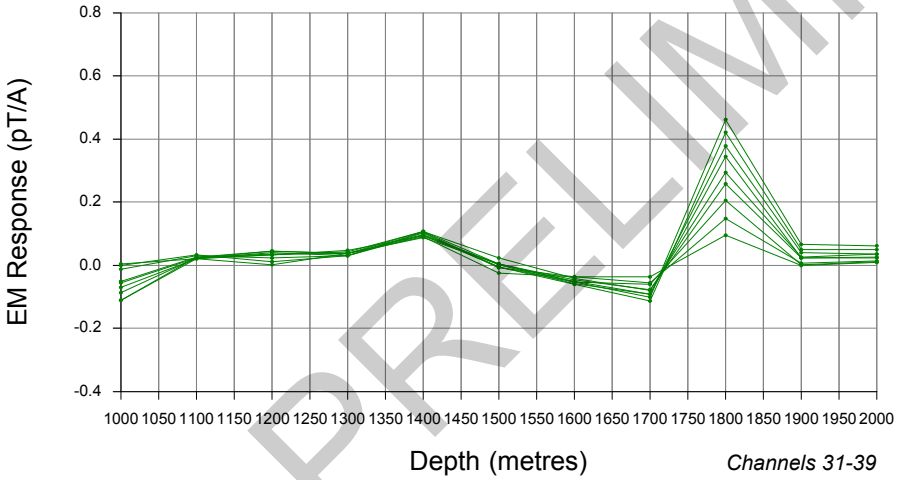
Z Component - Primary Field



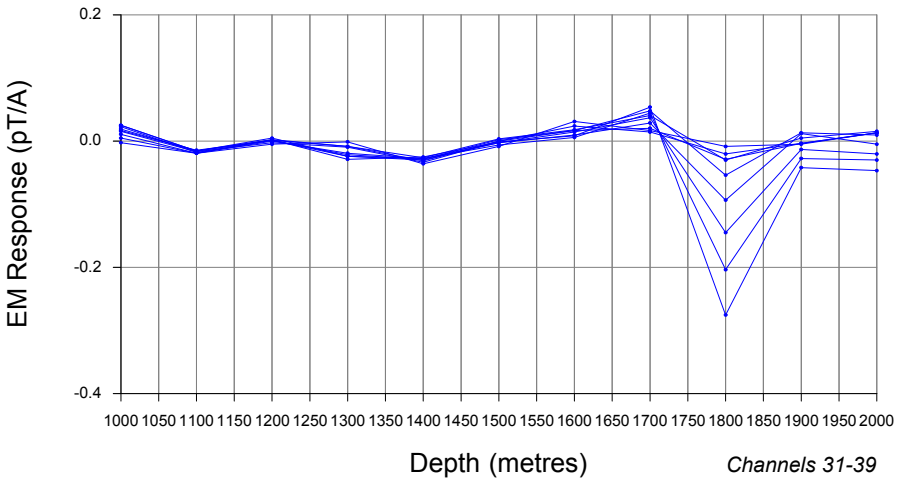
X Component - 65.79 ms to 371.22 ms



Y Component - 65.79 ms to 371.22 ms



Z Component - 65.79 ms to 371.22 ms



SURVEY PARAMETERS

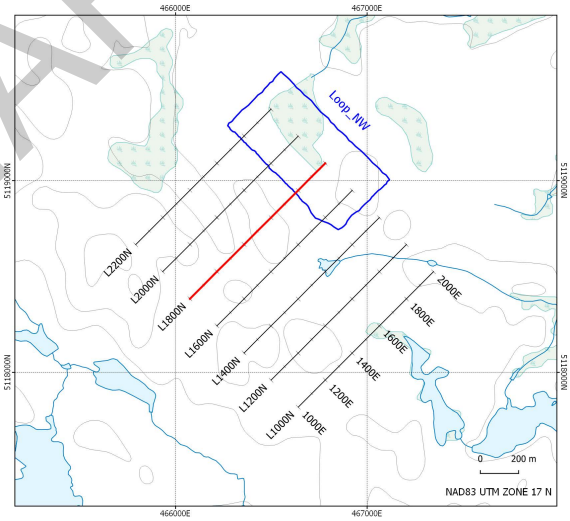
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 800 m
Tx Turns	: 1
Tx Current	: 18 A
Turn Off	: 0.750 ms



0 100 200 300 400 500

Scale 1:10000

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Fixed Loop TEM Survey

Line 1800N

Surveyed By: Connor Harrison
Survey Date: February 2019

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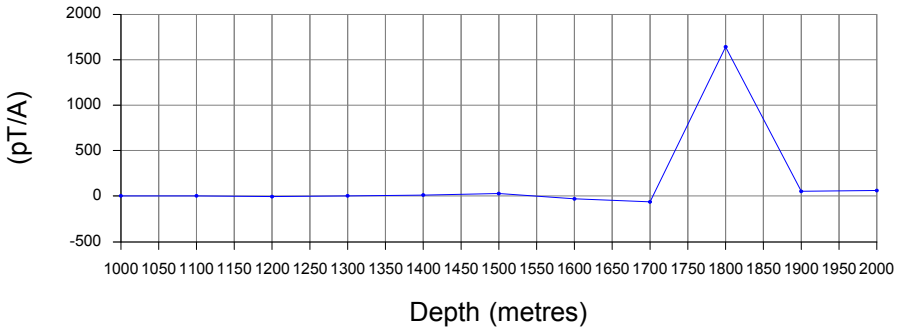
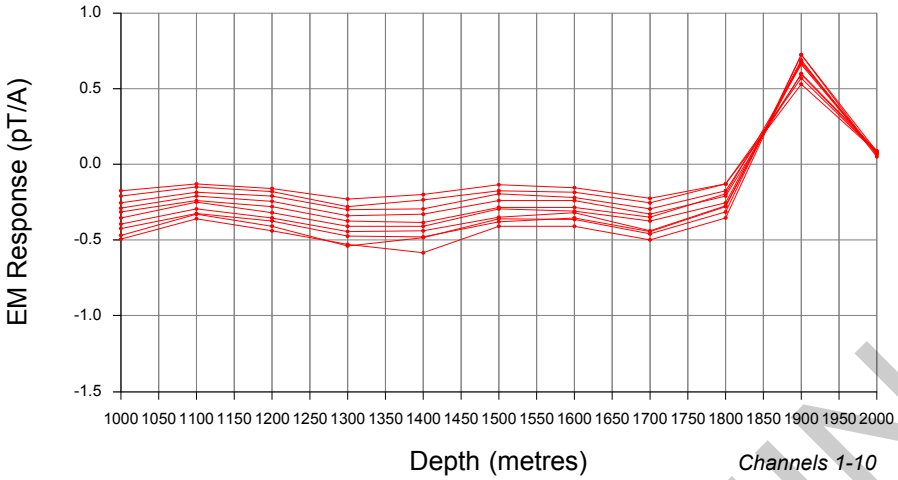
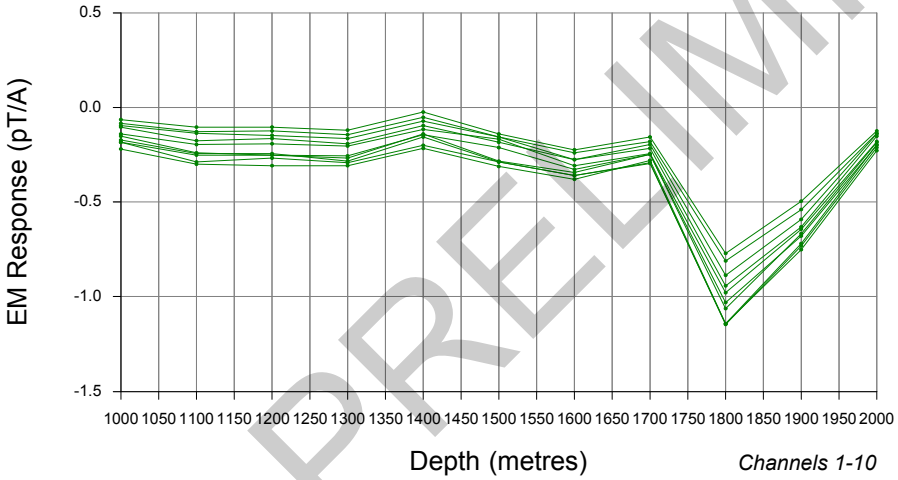
X Component - Primary Field



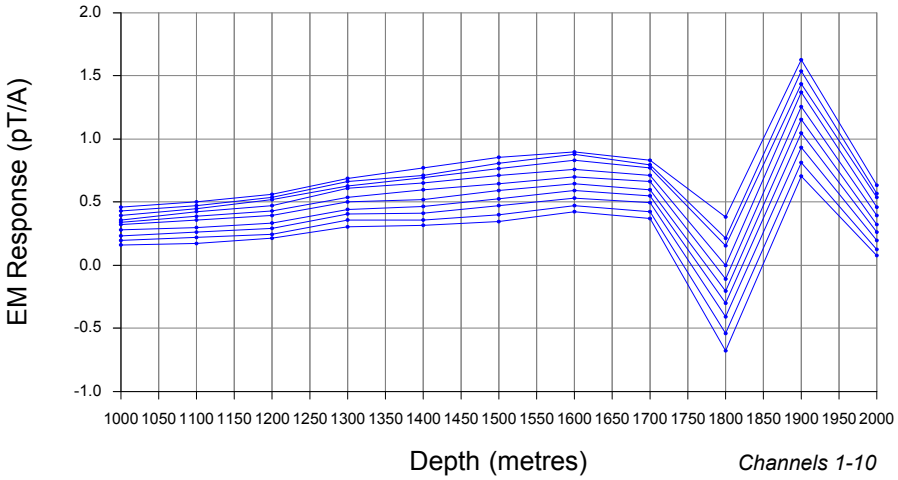
X Component - 0.10 ms to 0.70 ms



Y Component - 0.10 ms to 0.70 ms



Z Component - 0.10 ms to 0.70 ms



SURVEY PARAMETERS

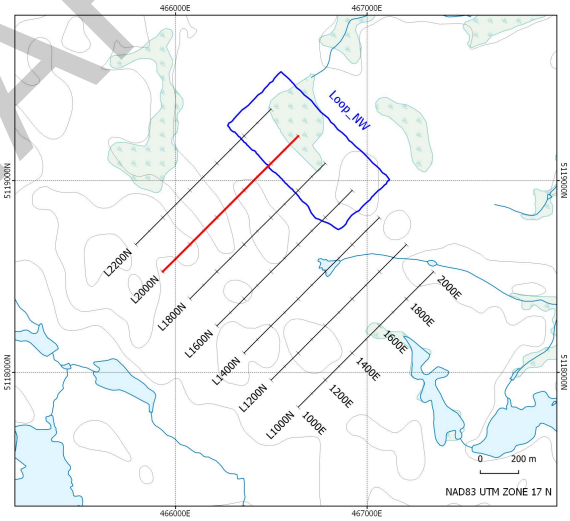
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

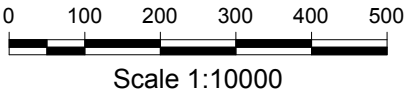
RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 800 m
Tx Turns	: 1
Tx Current	: 18 A
Turn Off	: 0.750 ms





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Line 2000N

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Survey Date: February 2019

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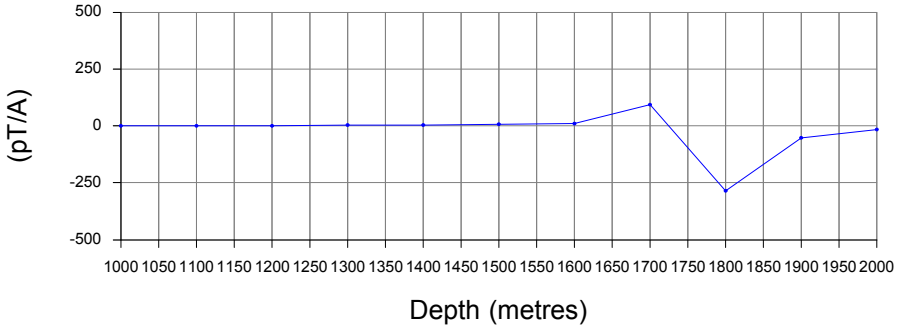
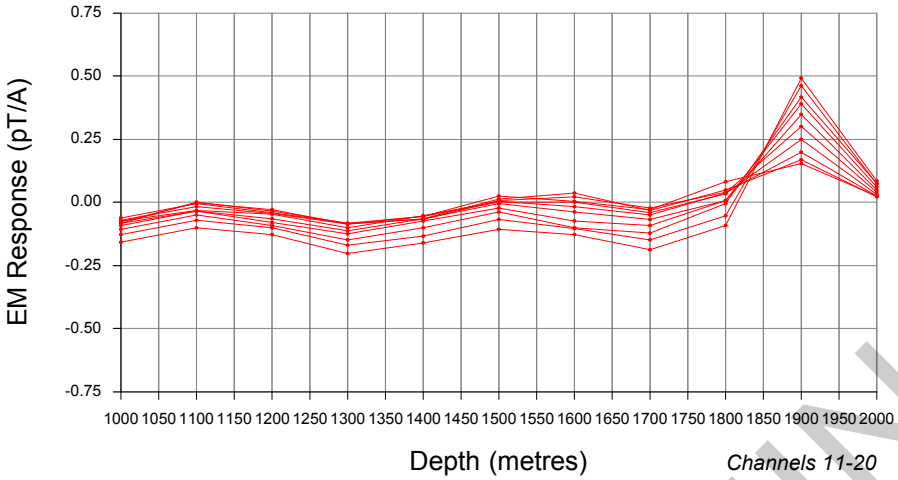
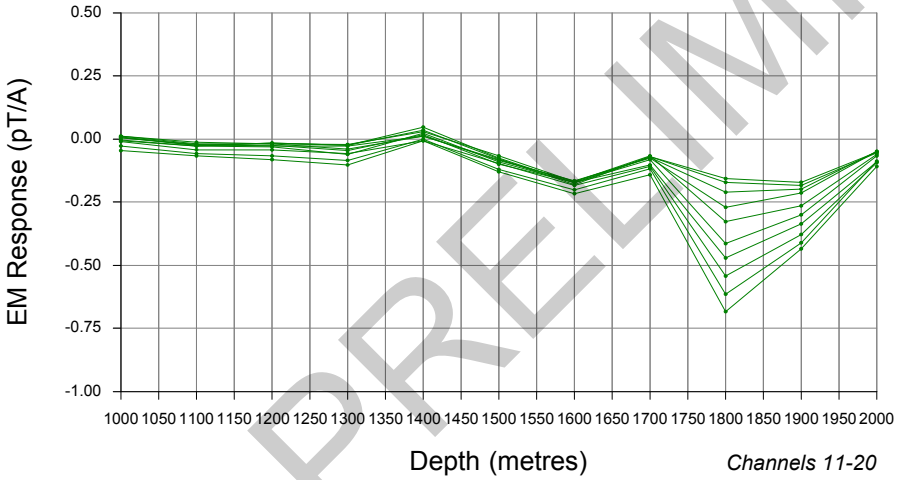
Y Component - Primary Field



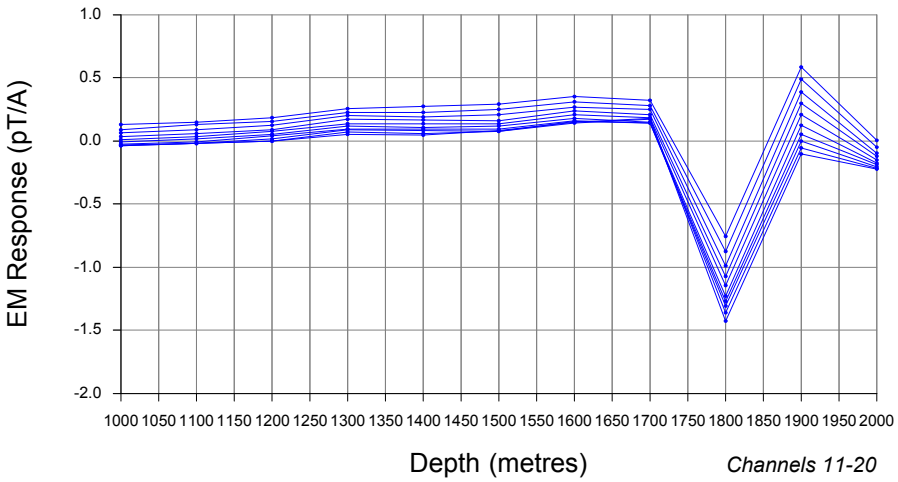
X Component - 0.87 ms to 6.09 ms



Y Component - 0.87 ms to 6.09 ms



Z Component - 0.87 ms to 6.09 ms



SURVEY PARAMETERS

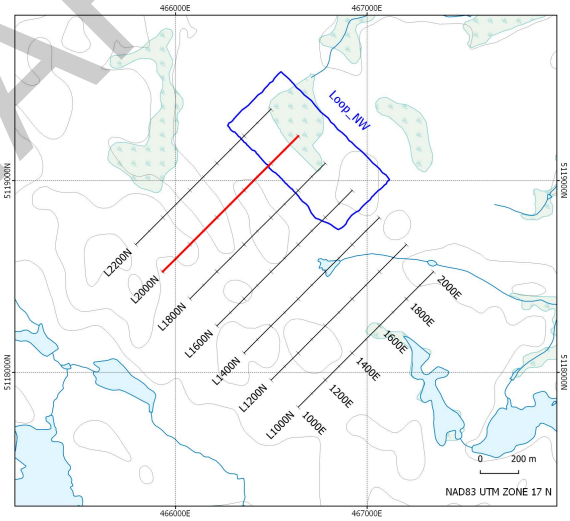
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

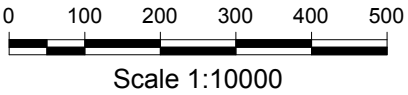
RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 800 m
Tx Turns	: 1
Tx Current	: 18 A
Turn Off	: 0.750 ms





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Fixed Loop TEM Survey

Line 2000N

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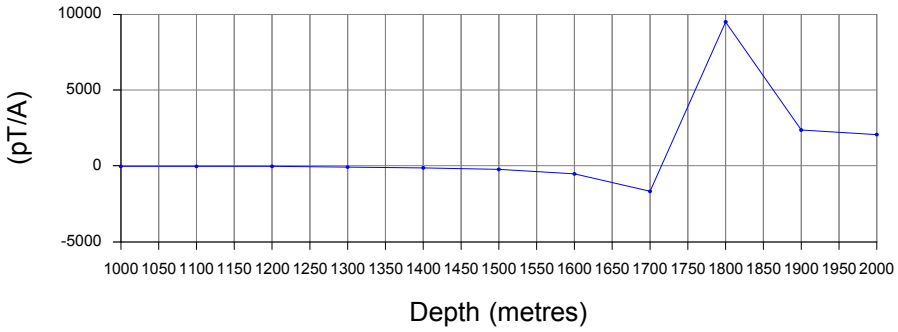
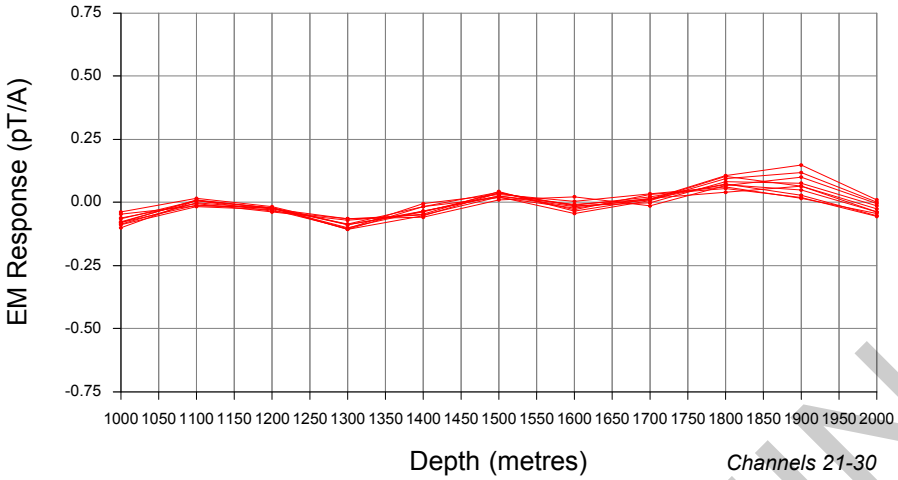
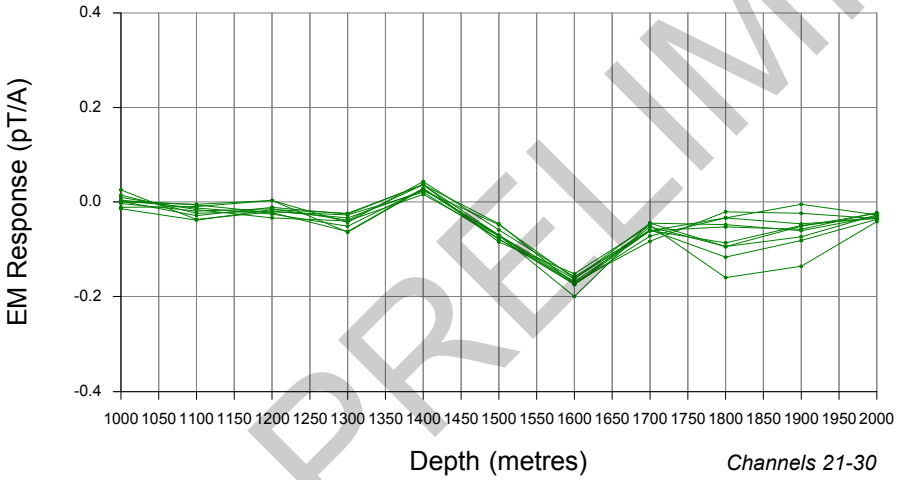
Z Component - Primary Field



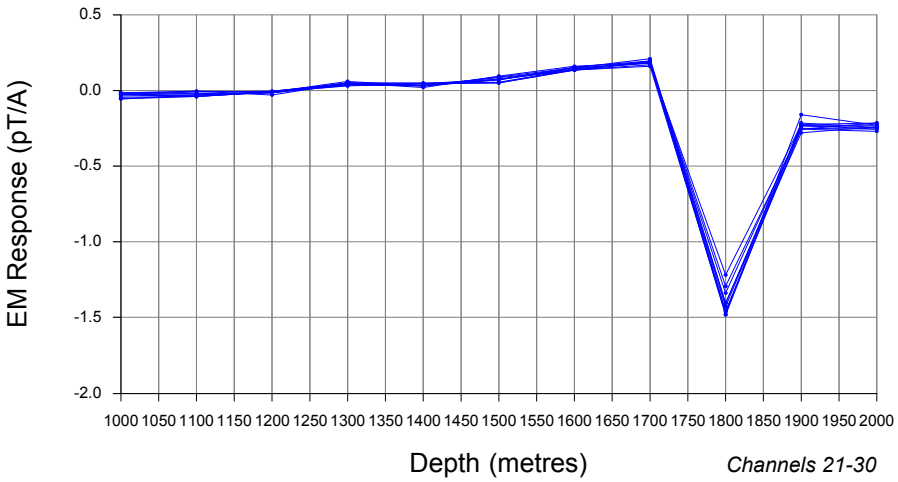
X Component - 7.56 ms to 52.99 ms



Y Component - 7.56 ms to 52.99 ms



Z Component - 7.56 ms to 52.99 ms



SURVEY PARAMETERS

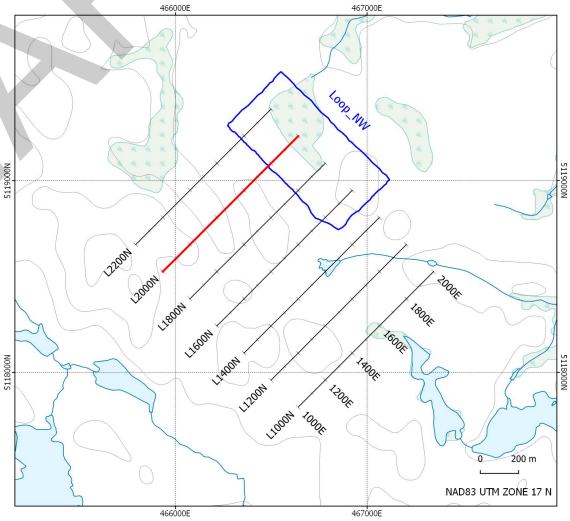
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

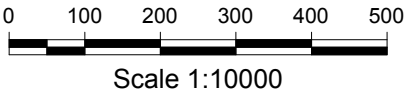
RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 800 m
Tx Turns	: 1
Tx Current	: 18 A
Turn Off	: 0.750 ms





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Fixed Loop TEM Survey

Line 2000N

Surveyed By: Connor Harrison
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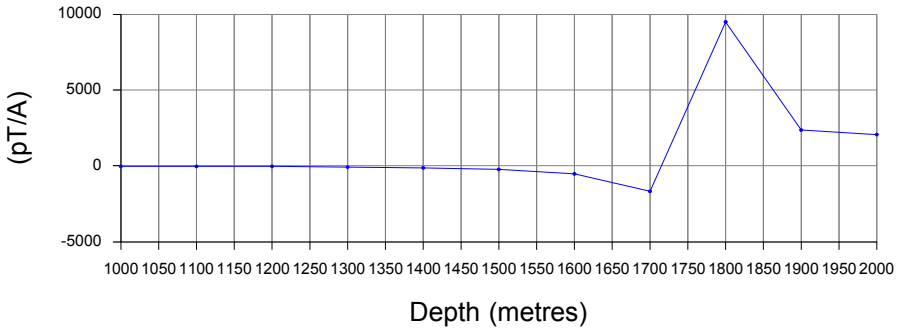
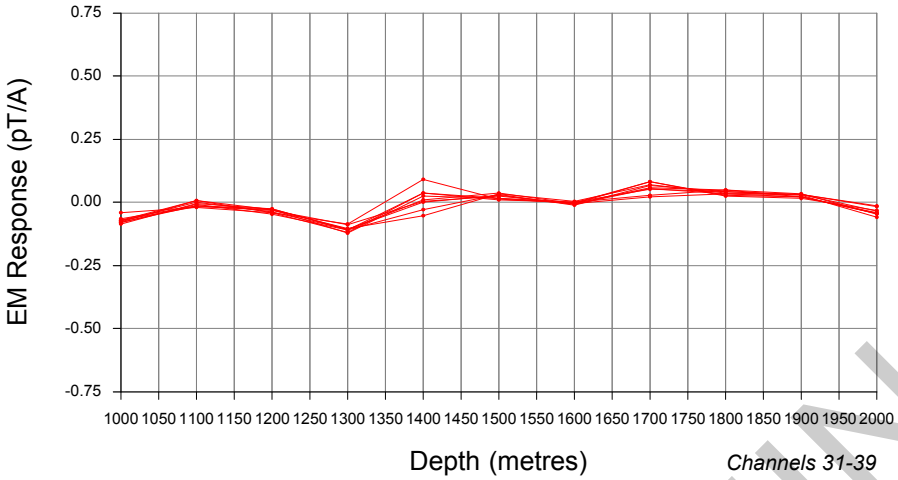
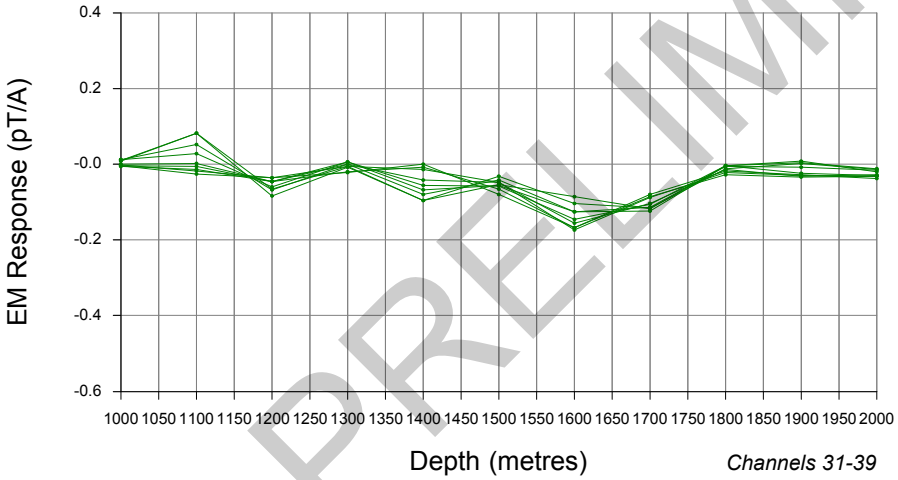
Z Component - Primary Field



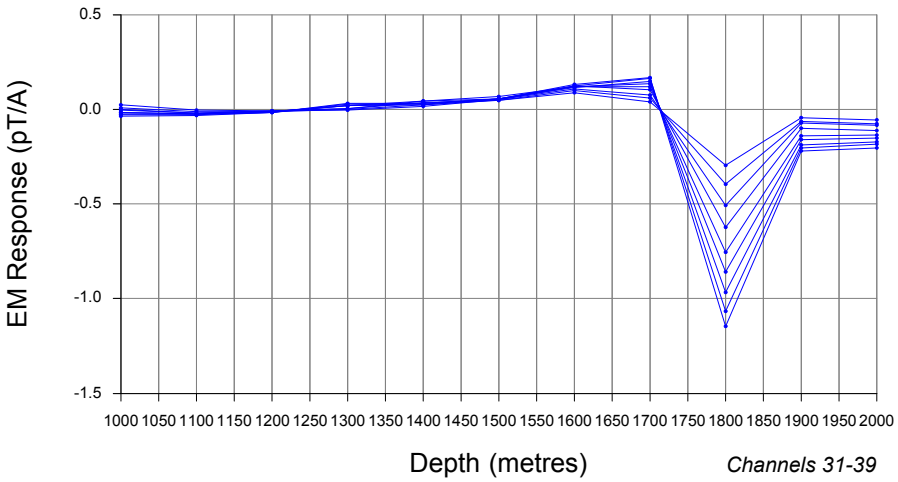
X Component - 65.79 ms to 371.22 ms



Y Component - 65.79 ms to 371.22 ms



Z Component - 65.79 ms to 371.22 ms



SURVEY PARAMETERS

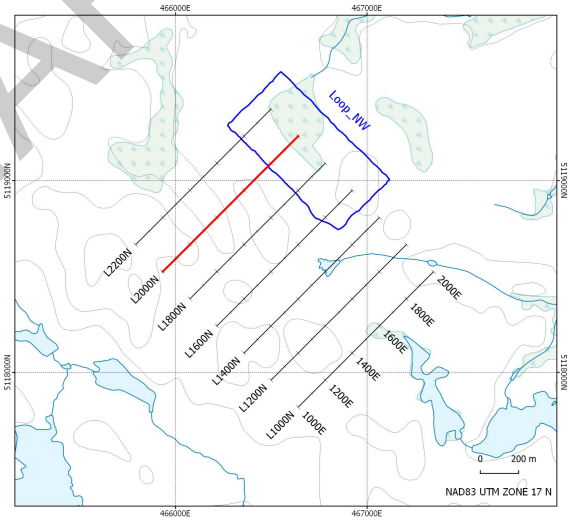
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

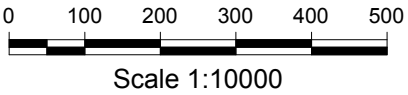
RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Geonics EM57/67
Tx Loop Side	: 400 m x 800 m
Tx Turns	: 1
Tx Current	: 18 A
Turn Off	: 0.750 ms





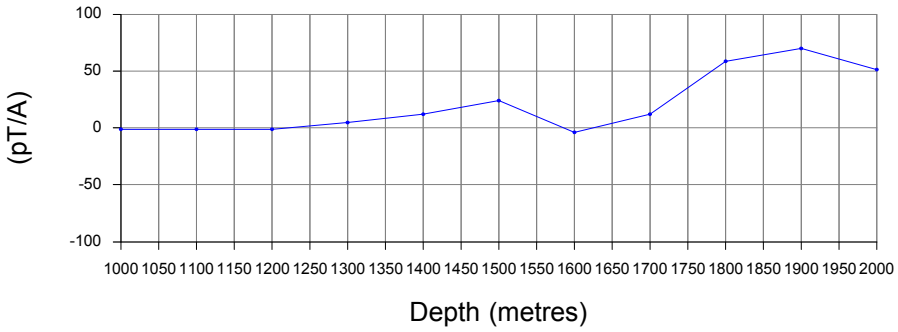
Rumble Resources Ltd.
Lac Panache Grid
Supracon Jessy Deep HT SQUID
Fixed Loop TEM Survey

Line 2000N

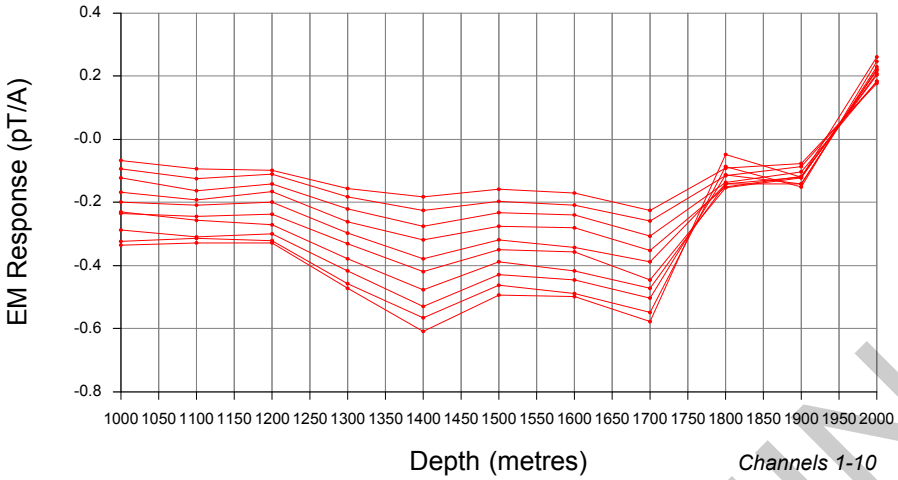
Surveyed By: Connor Harrison
Survey Date: February 2019

Discovery International Geophysics
147 Robin Crescent
Saskatoon, SK, S7L 6M3
www.discogeo.com

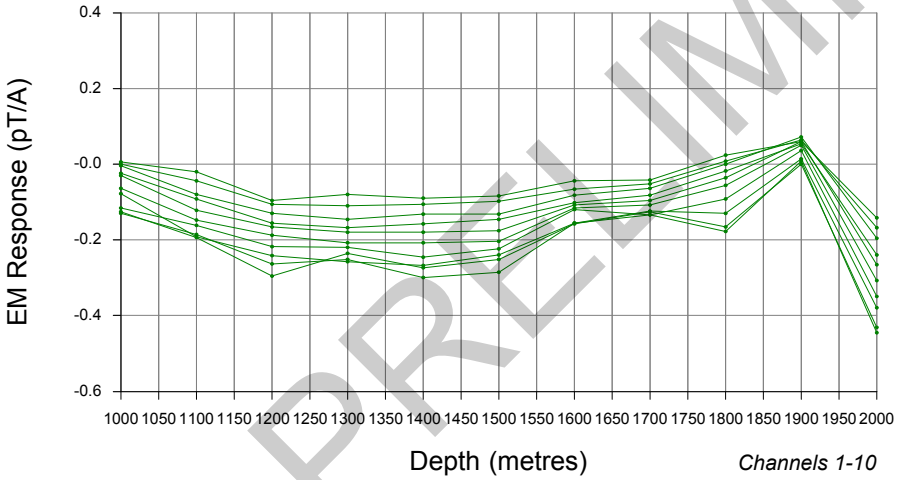
X Component - Primary Field



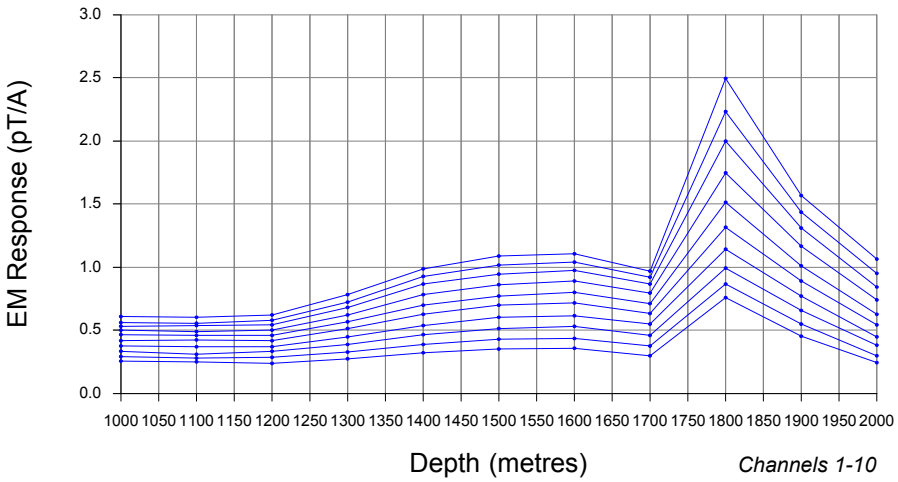
X Component - 0.10 ms to 0.70 ms



Y Component - 0.10 ms to 0.70 ms



Z Component - 0.10 ms to 0.70 ms



SURVEY PARAMETERS

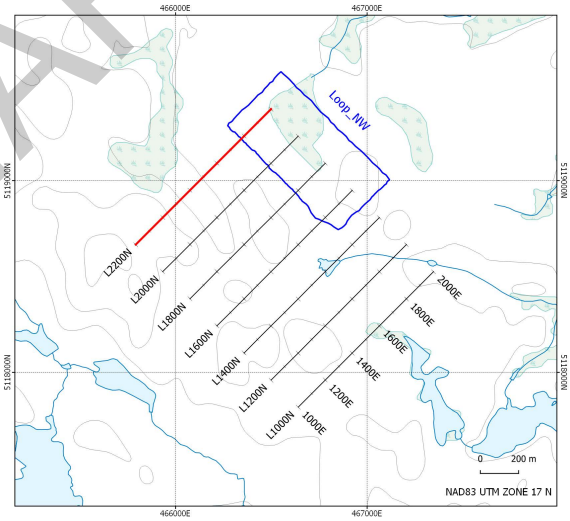
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

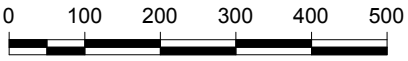
RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Phoenix TXU-30
Tx Loop Side	: 400 m x 800 m
Tx Turns	: 1
Tx Current	: 18-35 A
Turn Off	: 0.750 ms





Scale 1:10000

Rumble Resources Ltd.
Lac Panache Grid
Supracon Jessy Deep HT SQUID
Fixed Loop TEM Survey

Line 2200N

Surveyed By: Connor Harrison
Survey Date: February 2019

Discovery International Geophysics
147 Robin Crescent
Saskatoon, SK, S7L 6M3
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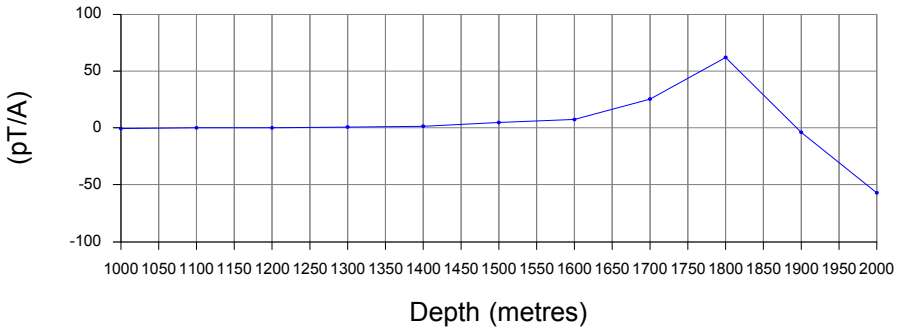
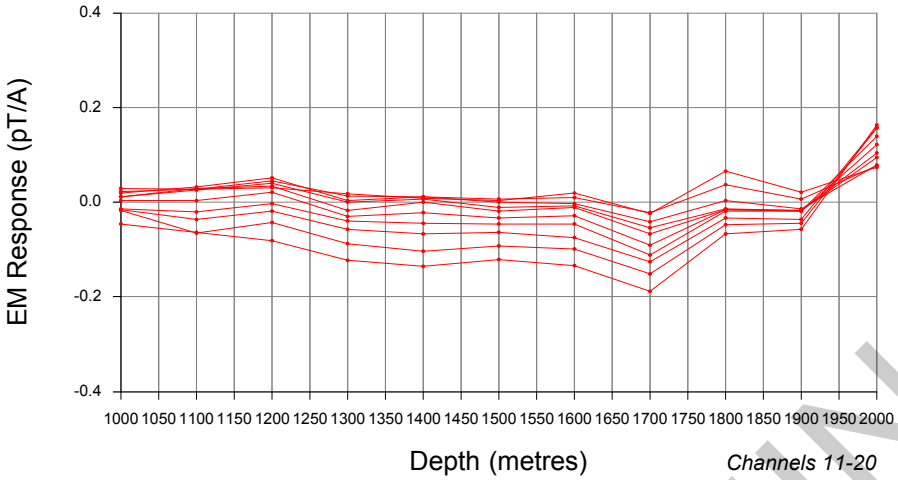
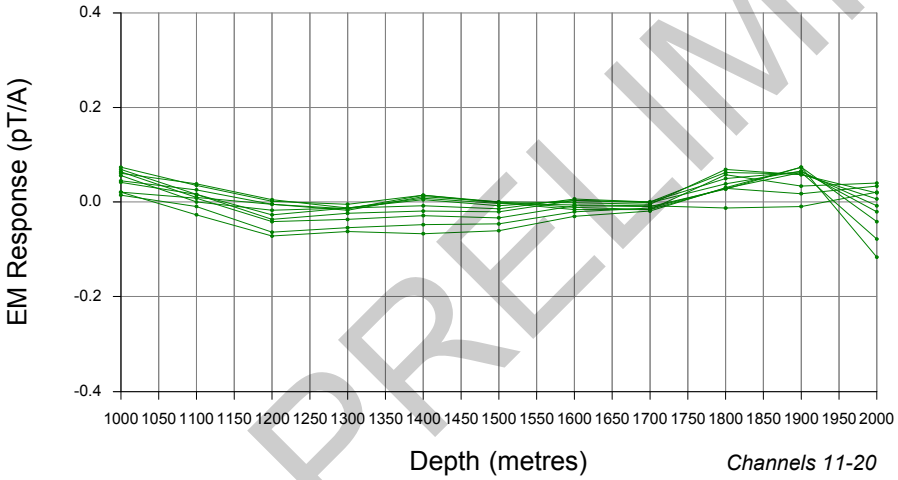
Y Component - Primary Field



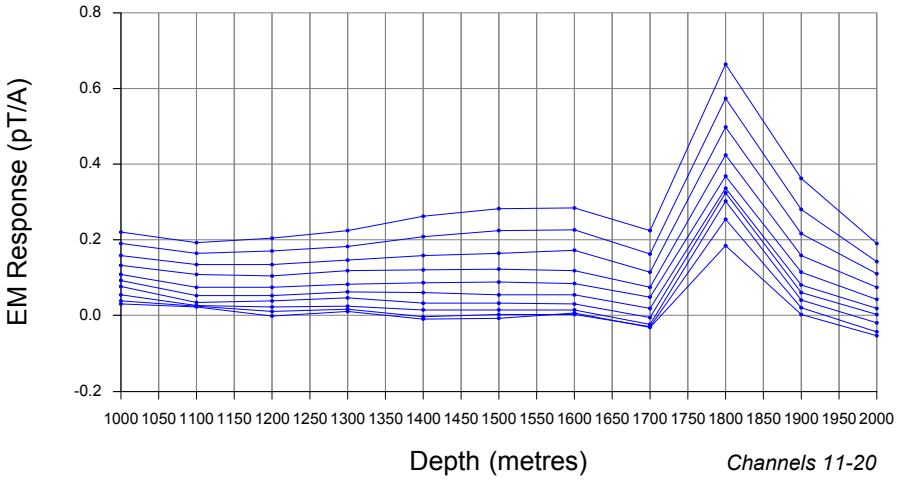
X Component - 0.87 ms to 6.09 ms



Y Component - 0.87 ms to 6.09 ms



Z Component - 0.87 ms to 6.09 ms



SURVEY PARAMETERS

Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
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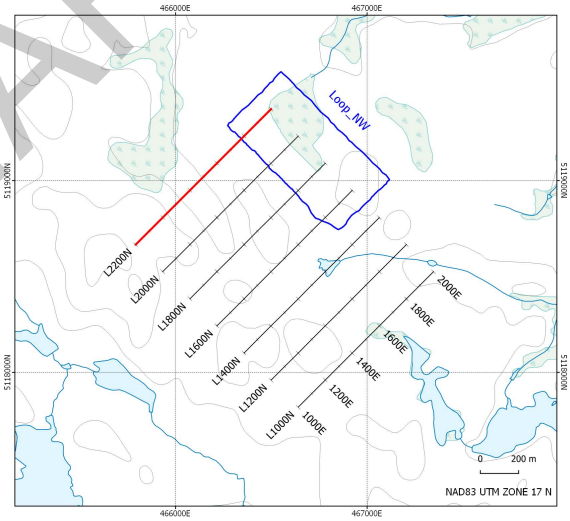
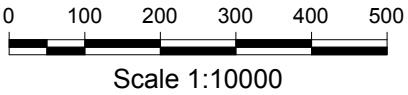
Turn Off	: 0.750 ms





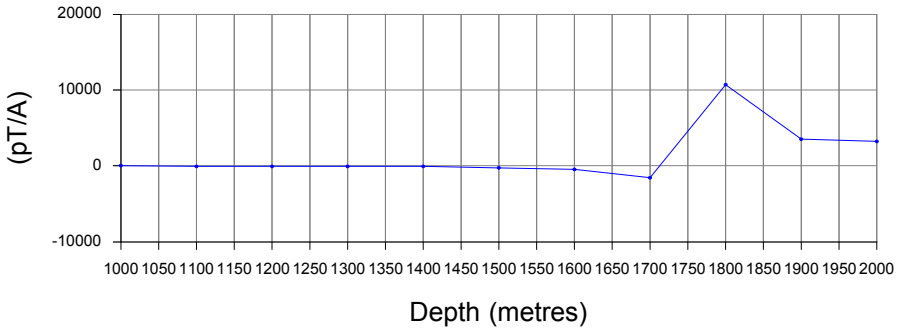
Rumble Resources Ltd.
Lac Panache Grid
Supracon Jessy Deep HT SQUID
Fixed Loop TEM Survey

Line 2200N

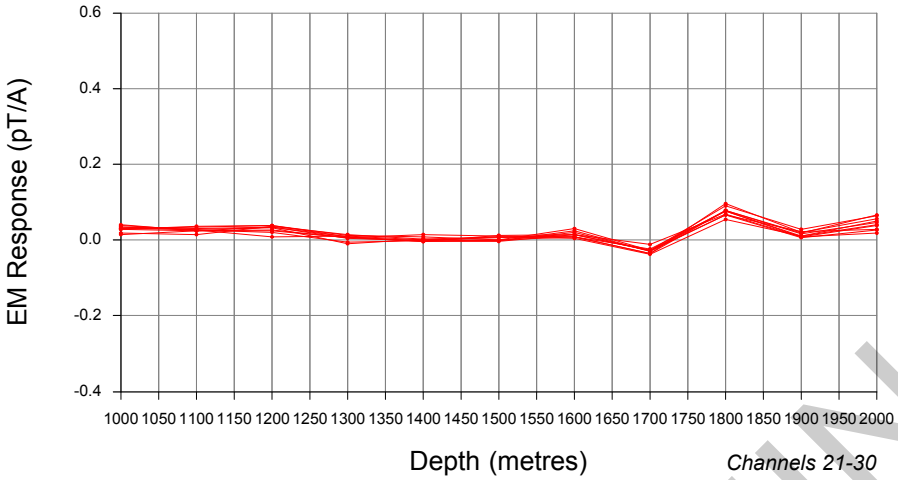
Surveyed By: Connor Harrison
Survey Date: February 2019

Discovery International Geophysics
147 Robin Crescent
Saskatoon, SK, S7L 6M3
www.discogeo.com

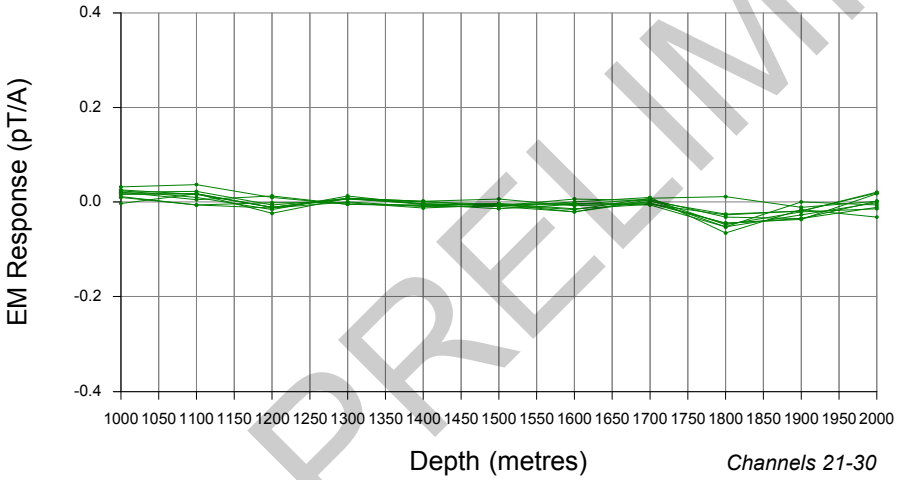
Z Component - Primary Field



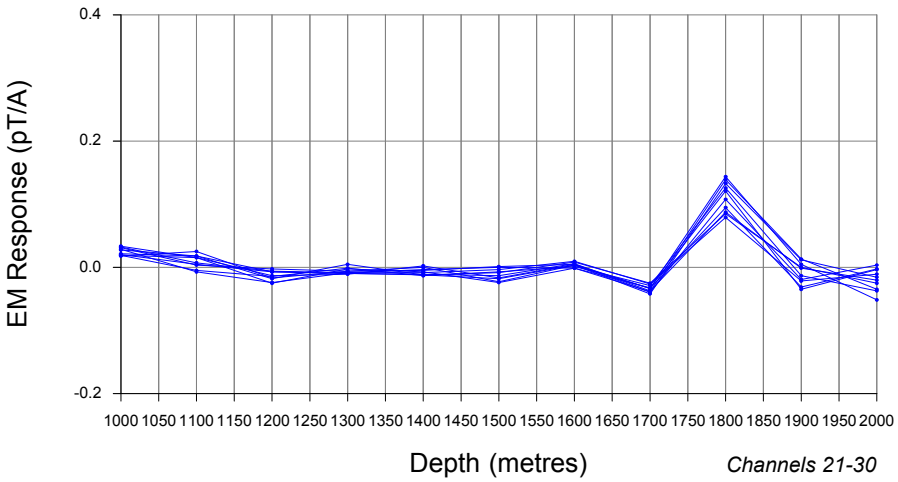
X Component - 7.56 ms to 52.99 ms



Y Component - 7.56 ms to 52.99 ms



Z Component - 7.56 ms to 52.99 ms



SURVEY PARAMETERS

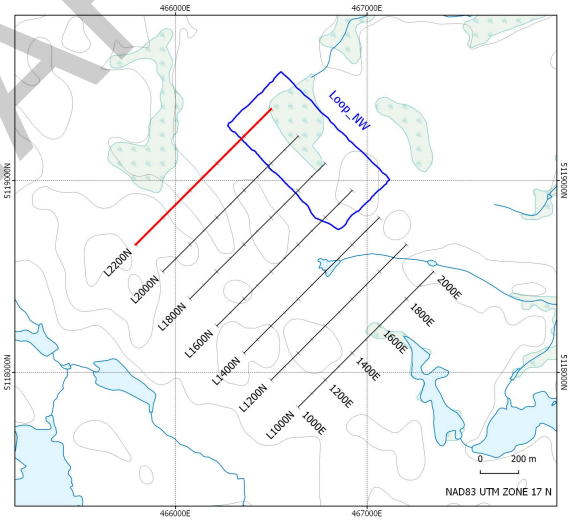
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

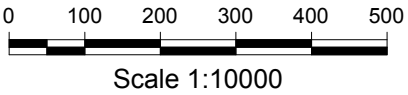
RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Phoenix TXU-30
Tx Loop Side	: 400 m x 800 m
Tx Turns	: 1
Tx Current	: 18-35 A
Turn Off	: 0.750 ms





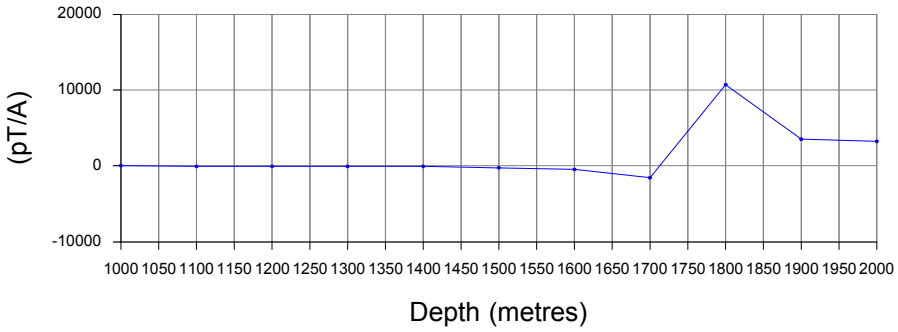
Rumble Resources Ltd.
Lac Panache Grid
Supracon Jessy Deep HT SQUID
Fixed Loop TEM Survey

Line 2200N

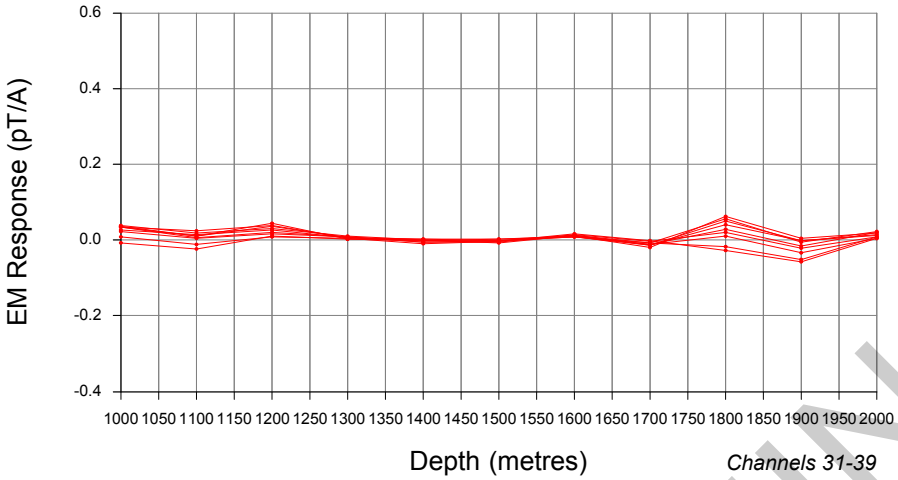
Surveyed By: Connor Harrison
Survey Date: February 2019

Discovery International Geophysics
147 Robin Crescent
Saskatoon, SK, S7L 6M3
www.discogeo.com

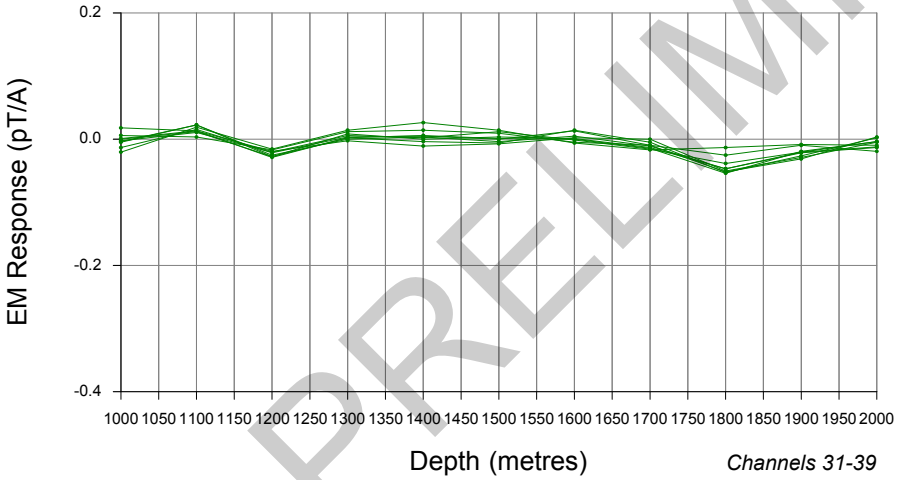
Z Component - Primary Field



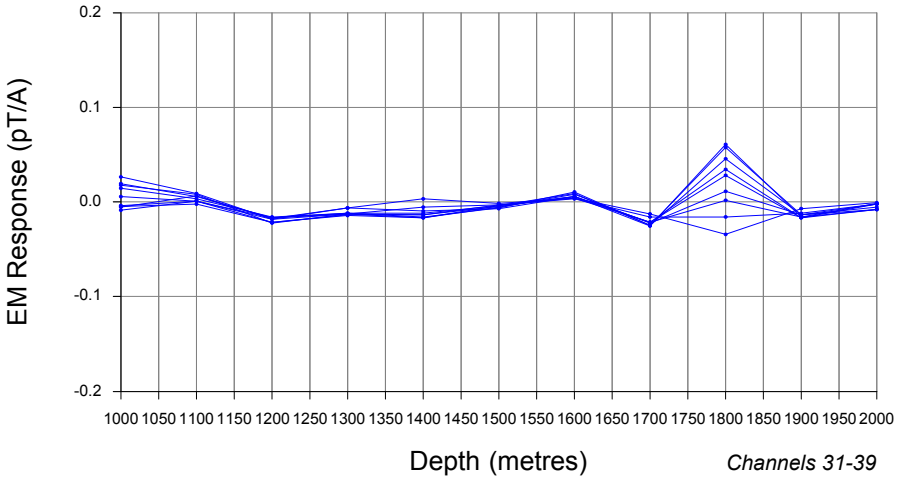
X Component - 65.79 ms to 371.22 ms



Y Component - 65.79 ms to 371.22 ms



Z Component - 65.79 ms to 371.22 ms



SURVEY PARAMETERS

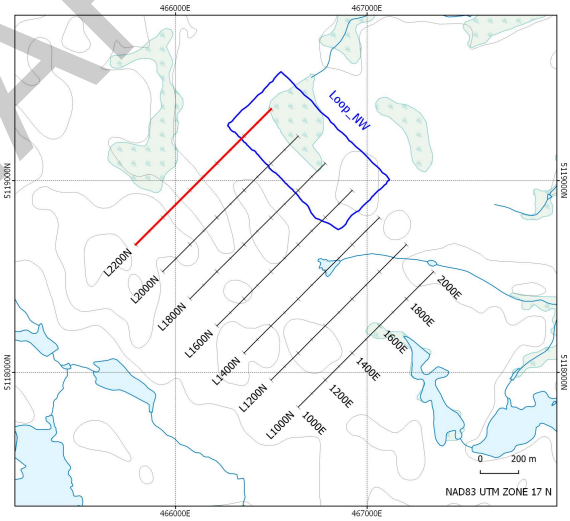
Configuration	: Fixed Loop TEM
Station Spacing	: 100 m
Line Spacing	: 200 m

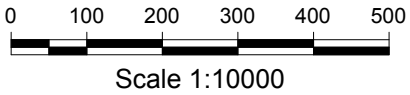
RECEIVER

Receiver	: SMARTem24
Frequency	: 0.5 Hz
Component	: X,Y,Z
Rx Sensor	: Supracon JD HT SQUID
Gate Times	: SMARTem24 Standard

TRANSMITTER

Transmitter	: Phoenix TXU-30
Tx Loop Side	: 400 m x 800 m
Tx Turns	: 1
Tx Current	: 18-35 A
Turn Off	: 0.750 ms





Rumble Resources Ltd.
Lac Panache Grid
Supracon Jessy Deep HT SQUID
Fixed Loop TEM Survey

Line 2200N

Surveyed By: Connor Harrison
Survey Date: February 2019

Discovery International Geophysics
147 Robin Crescent
Saskatoon, SK, S7L 6M3
www.discogeo.com

DISCOVERY
Int'l Geophysics

Proposal for

JESSY-DEEP LT SQUID

Fixed Loop Time Domain Electromagnetic Survey

Prepared for Rumble Resources Ltd.

Prepared by: Discovery Int'l Geophysics Inc.
147 Robin Crescent, Saskatoon, SK, S7L 6M3, Canada
Tel: +1 (306) 249-4422, Fax: +1 (306) 249-4421

Tuesday, 20 November 2018

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Rumble Resources Ltd

Suite 9 – 36 Ord St
West Perth WA 6005,

Australia

Discovery Int'l Geophysics Inc.
147 Robin Crescent
Saskatoon, Saskatchewan
S7L 6M3 CANADA
Tel +1 306 249 4422
Fax +1 306 249 4421

Attention: Jacob Paggi

Re: Long Lake and Lac Panache FLTEM Survey

General Information Summary

Client:	RUMBLE RESOURCES LTD
Client Contact:	Jacob Paggi - jacob@armadex.com.au
Discovery Contact:	Brent Robertson - brent.robertson@discogeo.com
Property Location:	The survey areas of Long Lake and Lac Panache are located 22km and 42km from Sudbury respectively. See location Map (**Figure 1**)
Description of Work:	Fixed Loop TEM survey – 3 component B-field Data acquisition, Processing, Logistical and reporting
Type of Survey:	Jessy Deep Low-Temperature SQUID 3-Component FLTEM – Inductive Loop Transmitter.
Equipment:	Supracon Jessy-Deep Low Temperature SQUID 3-component (B-field) Sensor, Phoenix TXU-30 transmitter, 10km 10awg wire, EMIT SMARTem-24 Receiver. Ancillary equipment: 4x4 diesel truck, enclosed trailer, 13kW Subaru Generator, Snowmobiles, Tow Sleds, Optional Rental High-Powered Generator, etc.
Personnel:	Two field personnel, one office Geophysicist
Start Date:	January 2019
Completion Date:	Estimated 10 field days, dependent on weather and overall field conditions.

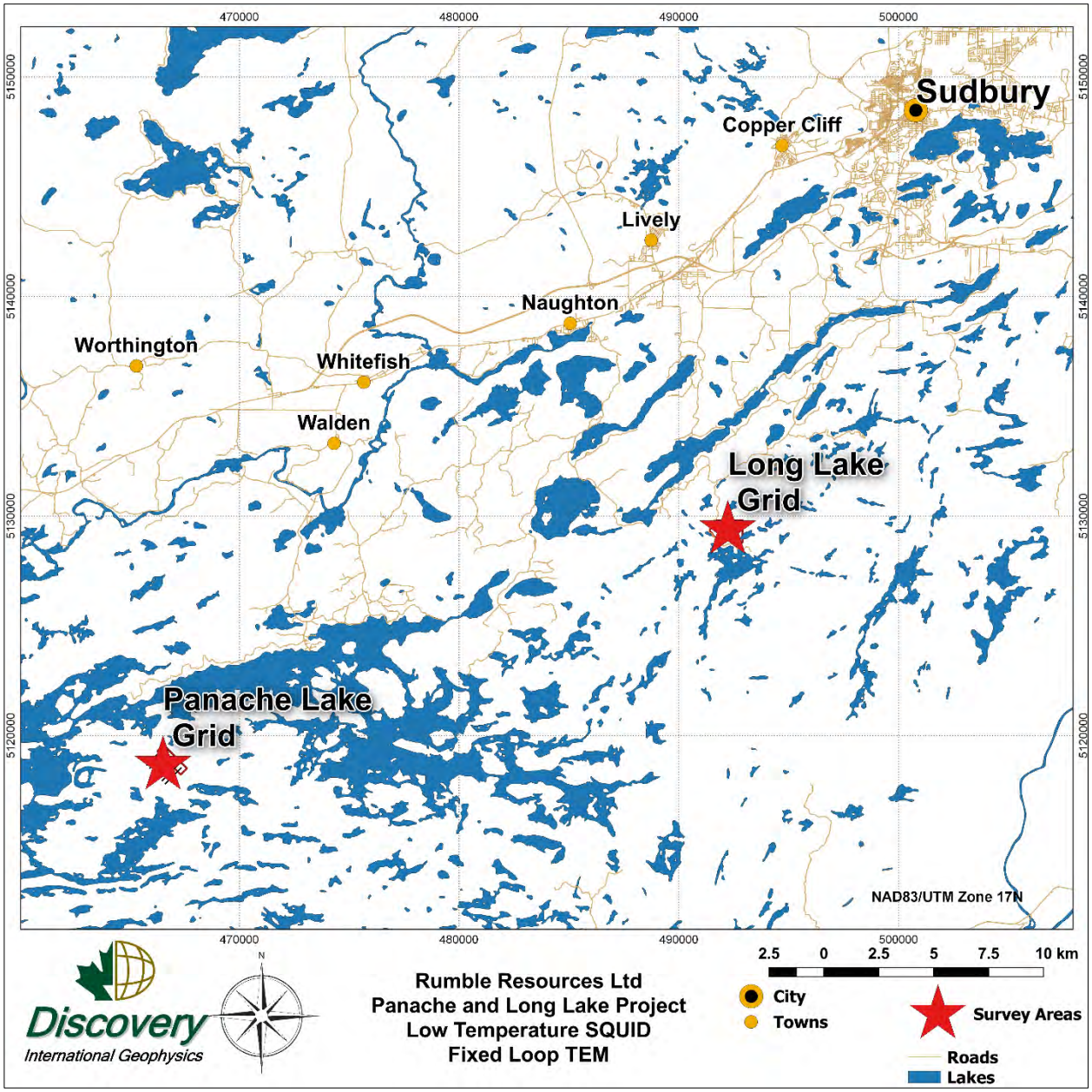


Figure 1: Property Location

1.0 Proposal Summary

1.1 Overview

Discovery will deliver the following advantages for the success of the planned work program:

- The Jessy Deep Low Temperature SQUID, is the **lowest-noise SQUID sensor** currently available for mineral exploration. This claim is established by a review of published noise performance results collated by Jim MacNae (**Figure 2**). This low-noise characteristic will benefit the current program by increasing the detection and depth of investigation of the survey, and by facilitating more accurate and confident modeling of the survey results
- The Low Temperature Jessy-Deep SQUID system coupled with EMIT SMARTem24 receiver provides measurement of **3-Component TEM data,** and facilitates simultaneous use of advanced QC software for better quality control and survey efficiency.
- Discovery management has over 8**0 years of combined experience** working across Canada and internationally, and is therefore intimately familiar with the field conditions, transportation and access needs, and required contingencies for a successful program. This experience will benefit the current program by providing safe, efficient and predictable survey performance.
- Discovery has a sizeable supply of **backup resources** including SQUID sensors, EM receivers, transmitters and generators.
- Discovery employs a **robust HSE management system** which is facilitated by eCompliance software. The HSE system will establish a consistently high awareness of safety expectations and procedures for the assessment and mitigation of risks and hazards, and for proper response to any events.

1.2 Jessy Deep Low Temerature SQUID System

The Supracon Jessy Deep LT SQUID has been developed specifically for mineral exploration applications by Supracon AG, Germany. Discovery owns the rights to both HT and LT JD SQUID technology for mineral exploration applications in North America. The system comprises 3 orthogonal SQUID sensors that measure the B-field for unrivalled sensitivity. A 3rd party assessment of many of the available B-field sensors (both SQUID and feedback coil sensors) was completed and reported on in 2012.

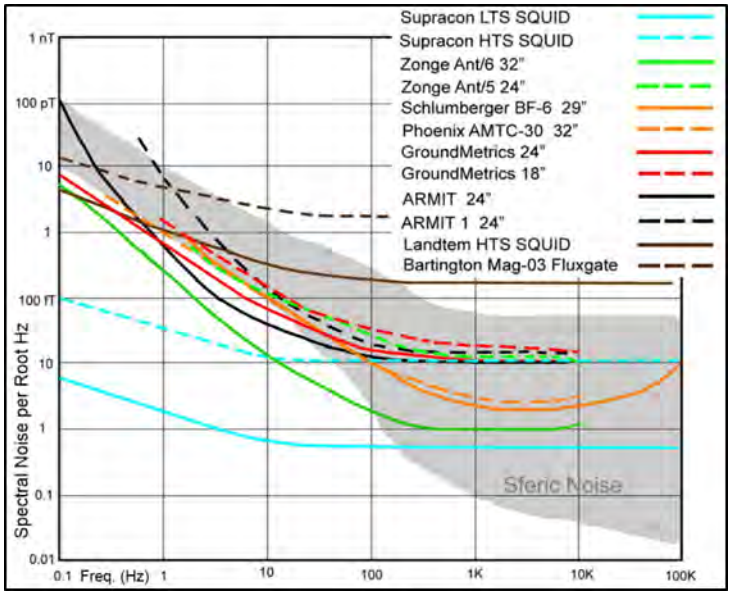


Figure 2: Various Sensors Sensitivity

These results show the advantage of the SQUID sensors for low-frequency implementation. These results also show that there is a large difference between the noise characteristics of the three SQUID systems. The Supracon LT SQUID produces the lowest noise levels.

The JD SQUID system moreover benefits from a composite material employed in the construction of the cryostat container that houses the SQUID sensors. These composite materials are designed to be rugged and dependable in the wide range of survey field conditions that are common to the mineral exploration industry.

1.3 Methodology and Discussion

- Discovery will employ a Phoenix TXU-30 transmitter system coupled with a high-powered generator. The transmitter is rated to 30kW and a maximum current of 60A adjustable to 500V / or 30A adjustable to 1000V. However, at a low base frequency <1Hz and in 50% duty cycle operation, available output power may be reduced owing to generator surging complications. Discovery is presently working on interfacing a dummy load directly to the generator to rectify this issue and anticipate having this completed by January 2019.

Transmitter output employing a 1000x400m transmitter loop and 10 AWG wire will be an estimated ~50A employing a rental >30kW generator and ~33A employing a portable 13kW Subaru Generator. Dipole moment is expected to be in the range of ~13.2 to 20.0 M Am2. Transmitter output employing either a 800m x 400m or 600m x 400m transmitter loop and 10 AWG wire will be an estimated ~50A employing a rental >30kW generator and ~36A employing a portable 13kW Subaru Generator. Dipole moment is expected to be in the range of ~8.6 to 16.0 M Am2.

Long Lake Survey Parameters		Lac Panache Survey Parameters	
Configuration	Fixed-Loop	Configuration	Fixed-Loop
Loop Size	1000m x 400m	Loop Size	800mx400m / 600mx400m
No. of Lines	5	No. of Lines	7
Line Spacing	200m	Line Spacing	200m
Station Spacing	100m	Station Spacing	100m
Sensor:	LT SQUID	Sensor:	LT SQUID
Transmitter	TXU-30 (30kW)	Transmitter	TXU-30 (30kW)
Current	33 to 50 Amp	Current	36 to 50 Amp
Base Frequency	0.5 Hz	Base Frequency	0.5 Hz

The survey will be carried out adhering to all parameters specified by Rumble Resources Ltd., employing standard Discovery field operating procedures, where the integration stack count and number of repeat measurements is solely at operation discretion. Discovery operators are highly experienced in EM data acquisition and will not advance to the next survey station until they are confident that the ensuing measurement is highly accurate. This may necessitate changing the stack count to oppose certain noise issues, generally caused by wind movement or geomagnetic storms. It is common to record 20 or more separate decays so as to achieve a precise measurement average after noisy decays are removed from the data set.

1.4 Logistics

Mobilization/Demobilization

The Discovery survey crew will be mobilized from Saskatoon SK to the survey area in a 4X4 Crew Cab truck pulling a 24ft cargo trailer, with all required equipment on board, except for Liquid Helium, which will be purchased from the Toronto area and then shipped to Sudbury.

Supplied by Discovery

Discovery will supply all of the required personnel and equipment to complete the geophysical services in a safe, effective and timely manner. Discovery will supply a two-person crew, one of which will be crew chief. The crew chief will oversee all field activity and data acquisition and be responsible to ensure that all safety procedures are being followed and all safety documentation is accurate, complete, and current.

Supplied by Client

Rumble Resources Ltd. will supply the following:

- All required permits necessary to complete the program as described.

2.0 Project Resources

2.1 Personnel – The crew chief will be of senior status with extensive past experience in this type of surveying, and will be familiar with all equipment and instrumentation in use. The crew chief will have received adequate training in the area of HSE and oversee all field administration and documentation of Discovery and Rumble HSE guidelines. The crew chief will assume leadership in the performance of all on-site services and carry out general liaison with the client representative(s) as required. A senior Discovery geophysicist and/or other office personnel based in Saskatoon will further liaise with the client representative(s) for the duration of the project.

2.2 Health, Safety and the Environment - Discovery Int'l Geophysics Inc. is committed to operating in a safe and environmentally responsible manner that protects our workers, our clients and the general public. To facilitate this commitment, Discovery uses eCompliance software as part of our HSE management system. This software facilitates training, reporting, and decision-making for all HSE related issues.

For us, safety is more important than production, quality and cost control. All employees, at all levels, have the right to work in a safe and healthy work environment and are, therefore, responsible and accountable for Discovery's health and safety performance. Active participation by everyone, every day, at every job is necessary for the health and safety excellence that Discovery expects. Our goal is a healthy, injury free workplace for all workers.

Management commits to:

- Providing a safe and healthy workplace
- Providing the information and training needed to protect the health and safety of Discovery employees; i.e. chainsaw safety course, first aid training, HSE handbook and orientation to our policies and procedures, WHMIS course, as well as job specific training, direct supervision and worksite safety orientation to ensure that all employees are adequately qualified to perform their job tasks
- Arranging for the regular examination and maintenance of the worksite tools and equipment
- Develop, implement and maintain risk assessment and management policies consistent with Provincial and industry standards
- To anticipate, minimize and control hazards at the worksite
- Providing our employees with all the necessary PPE to safely perform their duties

- Strive for continuous improvement of Occupational Health and Safety practices

Employees are expected to:

- Take reasonable care to protect personal health and safety and that of fellow employees
- Read, understand and comply with the health and safety policies of Discovery Int'l Geophysics Inc., those of our clients and the province in which we work
- Use safe work procedures, safeguards and provided PPE
- Participate in safety orientations, training and daily worksite safety meetings (toolbox meetings)
- Know that you have the right to refuse unsafe work
- Report all hazards to your supervisor
- Report all incidents (no matter how minor) and near misses so a thorough investigation may be completed to determine causes and implement successful corrective action
- Know their rights; the right to know, the right to participate and the right to refuse

There are dangers and hazards in any working environment. To reduce the risk of a hazard or incident occurring, the best solution is a planned approach to all work-related operations. Therefore, Discovery has specific protocols for every job that we undertake. These include:

- Ensuring that all crew members have undergone job training and onsite orientation
- Conducting an upper management contract provisions review meeting
- Conducting a pre-job risk assessment so that identified risks for the job are mitigated
- Daily safety meetings prior to the start of the workday to discuss the planned work and any risks
- Weekly on-site HSEC meetings on general safety topics to keep our crew thinking about safety
- Conducting a field level hazard assessment prior to the start of the project to uncover and mitigate any additional risks that were not recognized during the pre-job hazard assessment
- On-going hazard recognition and control
- Daily equipment inspections
- Documentation and appropriate corrective actions for any near misses and incidents on site

All of our Health and Safety program documentation and records for this project will be made available to the client for review upon request.

2.3 Equipment

Primary geophysical equipment will consist of the following:

- One complete Low Temperature SQUID TEM system
- Phoenix TXU-30 transmitter with generator
- EMIT SMARTem-24 Receiver
- 60 Liter Liquid Helium Dewar
- Supplementary equipment will include
    - ~5 km of 10 AWG loop wire
    - Handheld radios
    - High-sensitivity handheld GPS units
    - PPE equipment
    - 4x4 Crew-Cab Truck with Enclosed Cargo Trailer
    - Two 600 Ace Tundra Snowmobiles with Tow Sleds
- Backup instruments and equipment to ensure the survey is completed on schedule.

2.4 Deliverables

Discovery will supply all processed digital data and all ancillary data required for the effective interpretation and modeling of the results. The data will be supplied in a format that can be directly imported into EMIT's Maxwell modeling software.

Discovery will provide daily production reports by e-mail, and will deliver field data via email as each production day is completed. Regular products will include concise notes on daily productivity and related matters, preliminary data images, and preliminary data.

The final logistical report will be supplied in digital PDF format and will include the following information:

- Description of the survey coverage
- Survey procedures
- Names of all persons involved in the survey
- Technical description of the instrumentation
- Data reduction and processing procedures
- Description of the digital data
- Maps, plots and figures formatted to fit on a standard 8.5X11 page size
- Digital data in Maxwell TEM format and any other formats as requested

The final report will be delivered within 30 days of demobilization of the field crew.

3.0 Contract Price, Payment Terms and Payment Schedule

- ***Preparation/Mobilization/Demobilization*** - ***$12,950.00***
  A one-time fee related to preparing, mobilization and demobilization of all equipment and two personnel to the project from Saskatoon. (Note, 35% discount applicable if a second LT Squid project in Michigan materializes in the same time frame and a shared mobilization can be arranged) The mobilization/demobilization also takes into account the shipping of LHe to and from Toronto.

- ***Standby Rate*** - ***$ 1,050.00 / day***
  Applicable on all days the two-man crew is ***not*** engaged in field work for reasons beyond the control of the Discovery crew. For example, adverse dangerous weather, major geomagnetic storm or client requested standby.

- ***Survey Rate*** - ***$ 6,200.00 / day***
  Maximum 10-hour field day, applicable all days the crew engaged in FLTEM field work, inclusive of loop deployment, loop retrieval and surveying.

- ***Digital Logistical Report*** - ***$3,500.00***
  Flat rate, to meet Ontario requirements for the purpose of filing for geoscience assessment work

- ***Interpretation/Modelling/Consulting*** - ***$ 950/day or $ 125/hr***
  Upon request, Maxwell plate modeling, and related interpretation or consulting work by a senior Discovery geophysicist.

  All prices listed are in Canadian Dollars

3.1 Billing and Payment

a) Invoice 1: Advance Payment $ 25,000.00, plus GST/QST, payable prior to mobilization
b) Invoice 2: Balance owing to the end of the field work, plus GST/QST
c) Invoice 3: Reporting charges, with interpretation charges if requested

3.2 Additional Notes

If the Discovery crew is unable to perform any Services due to equipment failure or for any other reason not the fault of the Client, no charges will be applied for the equipment and personnel for the duration of the down-time. Discovery is not responsible for any costs incurred by the Client as a result of Discovery's inability to survey on such days.

4.0 GEOPHYSICAL SERVICES AGREEMENT

THIS AGREEMENT made as of the ____Day_____, 20____

BETWEEN:

Discovery International Geophysics Inc.,
(hereinafter sometimes referred to as "Contractor" or "Discovery")

- and -

Rumble Resources Ltd.
(hereinafter sometimes referred to as the "Client" or "Rumble")

WHEREAS:

A. Rumble wishes to engage the services of Discovery to perform certain geophysical services as more particularly described in the schedules to this Agreement, subject to the terms and conditions described in this Agreement.

B. Discovery has agreed to such engagement in accordance with the terms and conditions hereinafter set out.

1. Schedules

Two Schedules which consist of Lac Panache grid, with approximately 7 km to survey, and Long Lake grid, with approximately 5km to survey.

2. Engagement and Supply of Resources

The Client hereby retains Discovery to perform the Work specified, and Discovery agrees to perform the Work subject to the terms and conditions contained in this Agreement. In carrying out the Work, Discovery agrees to supply the resources and technology specified in it the proposal.

3. Work Schedule

Discovery agrees to use best efforts to commence the Work on the date specified in the Agreement and to complete the Work according to the schedule described in the proposal.

4. Obligations of Discovery

In consideration of the payment of the Fees identified herein, Discovery agrees to provide the specified Services in a good and workmanlike fashion, diligently, in good faith and without waste, interruption or delay, except for interruptions beyond the reasonable control of Discovery, and shall ensure the good and orderly behavior of all persons employed in the performance of the Services.

5. Obligations of Client

The Client shall have rights of access for surveying the Property, and shall apply for, pay for and obtain all permits and licenses which may be necessary for the execution of the Work hereunder. The Client shall obtain free and unencumbered access to the survey sites from all landowners or applicable government agencies.

6. Independent Contractor

The Contractor's relationship to the Client is that of an independent contractor and no Contractor personnel shall be considered or construed as an agent, employee or servant of the Client. All persons retained by the Contractor in connection with the performance of the work, including without limitation any employees or subcontractors, shall at all times remain the Contractors employees and subcontractors and shall be the Contractors sole responsibility. The Contractor shall be responsible for all costs incurred by the Contractor in connection with its personnel, including, without limitation, all wages and other remuneration and benefits. The Contractor shall administer and make all payments relating to Unemployment Insurance premiums, Canada Pension Plan contributions, Goods and Services Tax (Contractor G.S.T No. 889823282), Provincial Sales Tax, Income Tax withholdings, Workers' Compensation premiums and any other payments required by applicable law. The Contractor shall bear the sole responsibility for hiring, training, discipline, termination and direction of the Contractor's personnel and shall be solely responsible for the acts and omissions of the Contractor's personnel.

7. Indemnification

Notwithstanding the termination or expiration of this Agreement, the Client agrees at all times to indemnify Discovery against any action, cause of action, suit, damage, debt, cost, expense, claim or demand whatsoever at law or in equity, arising as a result of the performance by Discovery of the Work except for claims arising by reason of a wrongful or negligent act or omission of any nature whatsoever of Discovery's officers, directors, employees, contractors or affiliates. Notwithstanding the termination or expiration of this Agreement, Discovery agrees at all times to indemnify the Client's officers, directors, employees, contractors or affiliates against any action, cause of action, suit, damage, debt, cost, expense, claim or demand whatsoever at law or in equity, arising by reason of a wrongful or negligent act or omission of any nature whatsoever by the officers, directors, employees, contractors or affiliates of Discovery.

8. Insurance

Discovery shall, at its own expense, obtain and maintain, or cause to be obtained and maintained, and shall be responsible for all deductibles payable under the following insurances:

(a) Commercial General Liability Insurance. This insurance shall provide primary coverage with respect to the Discovery survey operations without right of contribution of any insurance carried by the Client. This insurance policy limit of liability shall not be less than $5,000,000 single limit per occurrence for bodily injury, personal injury and property damage including loss of use thereof. A policy general aggregate limit shall be permitted. The deductible for each occurrence shall not be greater than $10,000 for property damage and nil for bodily injury. This insurance shall include a cross liability and severability of interest clause and non-owned automobile liability. The Client will be named as an Additional Insured. Discovery shall provide a certificate of insurance, prior to the commencement of the survey operations, evidencing that the insurance policy has been obtained and is in full force and effect.

(b) Motor vehicle liability insurance, including coverage for accident benefits, with a combined property damage and bodily injury limit of liability of $3,000,000 per accident covering all licensed motor vehicles owned, leased, operated or used by Discovery in connection with the survey operations during the term of this agreement.

(c) Workers compensation coverage during the term of this agreement in accordance with applicable law.

All insurance provided by Discovery hereunder shall contain provisions or endorsements confirming that the policy shall not be cancelled without the insurer(s) giving at least 30 days prior written notice by registered mail to Discovery and the Client.

9. Health, Safety, and the Environment

Discovery is focused on establishing and maintaining a healthy and safe workplace for its staff. Discovery will make every reasonable effort to accomplish this objective for the Work in this Agreement. All field personnel receive instruction in the safe operation of the vehicles and equipment that they will be operating. Discovery has implemented health, safety and environmental protection procedures for all aspects of the Work as described. We welcome the Client to supply a copy of their HSE regulations so that Discovery can strive to comply.

10. Permits

The Client shall be responsible for ensuring that all permits, permissions and consents are obtained from all governments, regulatory authorities, and property owners as required to permit or enable Discovery to carry out the Work at the survey locations.

11. Confidentiality

The Contractor shall at all times maintain the confidentiality of the nature and performance of the Work, the location of the Work, and all information utilized for the performance of the Work, written, oral or otherwise, including, without limitation, all data and documents. Any information disclosed by the Client to the Contractor shall not be published, disseminated or revealed in any manner to any third party without the prior written consent of the Client.

The Client acknowledges that services provided by Discovery may include technologies and procedures which are the property of Discovery and are confidential information. The Client agrees that it shall not, during the continuance of this Agreement or at any time thereafter, divulge, or permit the divulgence of, to any person whatsoever, any such confidential information.

Nothing in this Agreement shall prevent or hinder the Client from transmitting data collected by Discovery to any other party.

12. Ownership of Data

The Client acknowledges that Discovery retains full ownership of the Data and any copies thereof until such time as the Client pays in full for the Work as specified in this Agreement. Upon receipt of the final payment, and if such payment is received within six months of the delivery of the Data to the Client:

- the ownership of the Client's copy of the Data is transferred from Discovery to the Client and the Client owns its copy of the Data.
- Discovery will retain a copy of the Data, but Discovery cannot copy, modify, distribute or sell its copy of the Data.

If final payment is received after six months have passed from the date of delivery of the Data to the Client:

- The ownership of the Client's copy of the Data is transferred from Discovery to the Client and the Client owns its copy of the Data.
- Discovery retains ownership of its copy of the Data, and can use, host, store, reproduce, modify, create derivative data, communicate, publish, publicly display, distribute, and sell its copy of the Data worldwide.

13. Arbitration

In the event of any dispute between the Client and Discovery pertaining to any matter covered by this Agreement, either party shall be entitled to submit the matter to binding arbitration on the following basis:

a. Upon receipt of a notice from one party to the other stating that a party desires arbitration, Discovery and the Client shall endeavour for a period of fifteen (15) days to agree upon an arbitrator, failing which each of Discovery and the Client shall appoint an arbitrator and the two arbitrators so appointed shall choose a third arbitrator.
b. If a party fails to choose an arbitrator within thirty (30) days after notice has been given that a party desires arbitration, the other party shall be entitled to appoint the two remaining arbitrators.
c. If the two arbitrators appointed by the parties cannot agree upon a third arbitrator, the Court of Arbitration of the International Chamber of Commerce shall, at the request of any of the arbitrators chosen by the parties, choose a third arbitrator; the single arbitrator agreed upon by the parties, or a majority of the three arbitrators appointed in accordance with this paragraph, shall determine the matter in dispute and the determination of such arbitrator or arbitrators shall be final and binding on the parties, save and except for matters of law.

14. Termination of Contract

The Client may terminate this Agreement at any time upon giving seven (7) days written notice. The Client shall be responsible to pay Discovery for Services completed to the date of termination. Unless renewed by mutual agreement in writing, this Agreement shall terminate on December 30, 2019.

15. References and Headings

All references herein to sections, articles and schedules are references to sections, articles and schedules of this Agreement unless otherwise indicated. The headings herein are inserted for convenience of reference only and shall not be used in interpreting or construing this Agreement.

16. Assignment

Discovery shall not assign this Agreement without prior written consent of the Client.

17. Interpretation

This Agreement shall be interpreted as construed in accordance with the laws of the Province of Ontario and the parties hereto attorn to the jurisdiction of the courts of such Province.

18. Equipment Liability

The Contractor is liable for all Contractor or Contractor employee owned lost, stolen, or damaged equipment used in the performance of the Work, unless the loss, theft, or damage occurs as a result of the willful acts or negligence of a visiting Client representative.

19. Costs and Invoicing

The Client agrees to pay Discovery for the Work according to the payment schedule given in Schedule C. All invoices shall be paid by the Client upon receipt thereof and all amounts outstanding after 30 days shall bear a charge of two percent (2%) per month, compounded monthly until paid in full. In the event that payment is not received within twenty-one (21) days of the dates specified in, Discovery shall have the right to terminate this Agreement without incurring any obligation to complete the Work.

20. Time of Essence

Time is of the essence of this Agreement.

21. Force Majeure

The obligations of a party (except the obligation to pay money) shall be suspended to the extent and for the period that performance is prevented by cause, whether foreseeable or unforeseeable, beyond its reasonable control, including, without limitation, labour disputes (however arising and whether or not employee demands are reasonable or within the power of the party to grant); acts of God; laws, regulations, orders, proclamations, instructions or requests of any government or governmental entity; judgments or orders of any court; inability to obtain on reasonably accepted terms any public or private license, permit or other authorization; curtailment or suspension of activities to remedy or avoid an actual or alleged, present or prospective, violation of federal, provincial or local environmental standards; acts of war or conditions arising out of or attributable to war, whether declared or undeclared; riot, civil strife, insurrection or rebellion; fire, explosion, earthquake, storm, flood, sink holes, drought or other adverse weather condition; delay or failure by suppliers or transporters of materials, parts, supplies, services or equipment or by contractors' or subcontractors' shortage of, or inability to obtain labour, transportation, materials, machinery, equipment, supplies, utilities or services; accidents; breakdown of equipment, machinery or facilities; or any other cause, whether similar or dissimilar to the foregoing. Such party shall promptly give notice to the other party of the suspension of performance, stating therein the nature of the suspension, the reasons therefore, and the anticipated duration thereof. The party invoking force majeure shall resume performance as soon as reasonably possible.

22. Disclaimer

Every effort will be made by Discovery to collect valid and accurate data. It is expected that variations in the data will have geological cause. Geological noise and natural variations within the geologic environment may cause ambiguities within the data, therefore any use which the Client will make of the survey results and report, or any reliance on or decisions to be made based on it, are the responsibility of the Client. Discovery accepts no responsibility for damages, if any, suffered by the Client as a result of decisions made or actions based on the results of this Work.

23. Further Assurances

The parties shall do all such things and provide all such reasonable assurances as may be required to consummate the transactions contemplated hereby, and each party shall provide such further documents and instruments required by any other party as may be reasonably necessary or desirable to affect the purpose of this Agreement and carry out its provisions.

24. Entire Agreement

This Agreement sets forth the entire Agreement between the parties with respect to the subject matter hereof and supersedes all prior understandings and communications between the parties or any of them, oral or written. There are no representations, warranties, terms, conditions, undertakings, or collateral Agreements, express, implied or statutory between the parties other than as expressly set forth in this Agreement.

25. Inurement

This Agreement shall ensure to the benefit of and be binding upon successors and permitted assigns of each of the parties hereto.

26. Binding Effect

This Agreement shall be binding upon the parties hereto, their successors and permitted assigns. This Agreement shall be interpreted in accordance with the laws of the Province of British Columbia, Canada.

27. Electronically Transmitted Signatures

Telecopied signatures or signatures sent by electronic mail may be used in place of original signatures on this Agreement. The Client and Discovery intend to be bound by the signatures on the telecopied or electronically mailed document, are aware that the other party will rely on the telecopied or electronically mailed signatures, and hereby waive any defenses to the enforcement of the terms of this Agreement based on the form of signature.

28. Notices

Any notice or communication to any party under this Agreement may be given by delivering the same by e-mail or fax to such party or by mailing the same prepaid, registered mail to such party, addressed as follows:

To Discovery: **Discovery Int'l Geophysics Inc.**
147 Robin Crescent
Saskatoon, SK S7L 6M3
Phone: (306) 249-4422

To the Client: **Rumble Resources Ltd**
Suite 9 – 36 Ord St
West Perth WA 6005,
Australia

IN WITNESS WHEREOF the parties hereto have executed this Agreement as of the ____Day of _____, 20___

Discovery International Geophysics Inc. **Rumble Resources Ltd.**

Brent Robertson, VP Operations _____ _____

Memo

To: Brett Keillor

From: Jacob Paggi

cc:

Date: April 3, 2019

Re: Lac Panache FLEM interpretation

Introduction

Rumble Resources' completed a FLEM survey at their Lac Panache project, 42km southwest of Sudbury. The survey was conducted by Discovery Geophysics with the aim of detecting basement conductors indicative of massive nickel sulphides to be targeted with drilling. This memorandum discusses the survey parameters and results.

Survey Parameters

The survey was designed to traverse a prospective norite unit where highly anomalous nickel and copper assays from grabs samples have been collected. Seven lines were planned to traverse the unit on a 45° angle, using two separate transmitter loops, but an additional line was added to delineate a detected conductor (Figure 1). A high-temperature SQUID sensor was employed to increase the signal-to-noise and hence increase the exploration depth. The survey was planned to generate a transmitter current of +36A, although due to a problem with Discovery's generator, a current of only 18-20A was achieved. This resulted in slightly noisier readings, although the results are unlikely to miss a significant conductor given the expected conductivity contrast with the highly resistive background.

Line and station coordinates are shown in Table 1, transmitter loop corner coordinates are shown in Table 2, and survey parameters are shown in Table 3. All coordinates are in NAD83 datum and UTM17N projection.

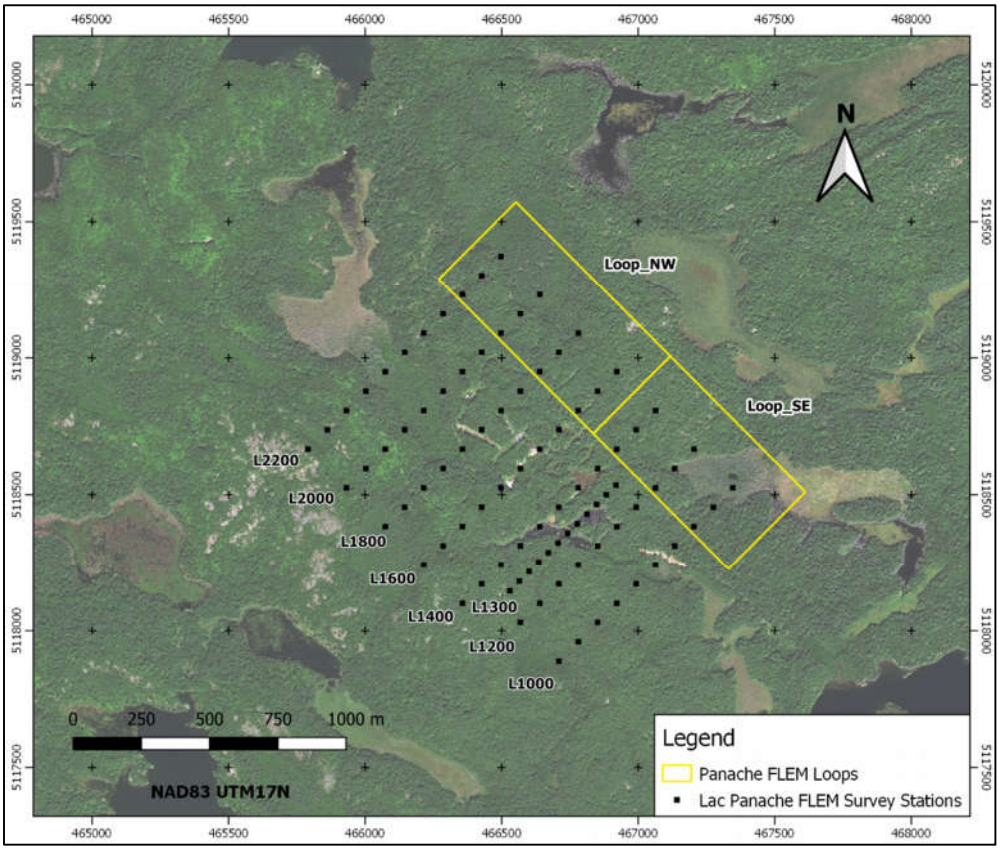


Figure 1: Lac Panache completed FLEM survey stations and transmitter loop locations over Bing imagery.

Table 1: Lac Panache FLEM survey lines and stations.

Line	Easting	Northing	Tx loop
L1000	466640	5117818	Loop_SE
L1000	466710	5117888	Loop_SE
L1000	466781	5117959	Loop_SE
L1000	466852	5118030	Loop_SE
L1000	466922	5118100	Loop_SE
L1000	466993	5118171	Loop_SE
L1000	467064	5118242	Loop_SE
L1000	467134	5118312	Loop_SE
L1000	467205	5118383	Loop_SE
L1000	467276	5118454	Loop_SE
L1000	467347	5118525	Loop_SE
L1200	466498	5117959	Loop_SE
L1200	466569	5118030	Loop_SE
L1200	466640	5118100	Loop_SE
L1200	466710	5118171	Loop_SE
L1200	466781	5118242	Loop_SE
L1200	466852	5118312	Loop_SE
L1200	466922	5118383	Loop_SE
L1200	466993	5118454	Loop_SE
L1200	467064	5118525	Loop_SE
L1200	467134	5118595	Loop_SE
L1200	467205	5118666	Loop_SE
L1300	466530	5118146	Loop_SE
L1300	466565	5118181	Loop_SE
L1300	466601	5118217	Loop_SE
L1300	466636	5118252	Loop_SE
L1300	466671	5118287	Loop_SE
L1300	466707	5118323	Loop_SE
L1300	466742	5118358	Loop_SE
L1300	466777	5118393	Loop_SE
L1300	466813	5118429	Loop_SE
L1300	466848	5118464	Loop_SE
L1300	466884	5118500	Loop_SE
L1300	466919	5118535	Loop_SE
L1400	466357	5118100	Loop_SE

L1400	466427	5118171	Loop_SE
L1400	466498	5118242	Loop_SE
L1400	466569	5118312	Loop_SE
L1400	466640	5118383	Loop_SE
L1400	466710	5118454	Loop_SE
L1400	466781	5118525	Loop_SE
L1400	466852	5118595	Loop_SE
L1400	466922	5118666	Loop_SE
L1400	466993	5118737	Loop_SE
L1400	467064	5118807	Loop_SE
L1600	466215	5118242	Loop_NW
L1600	466286	5118312	Loop_NW
L1600	466357	5118383	Loop_NW
L1600	466427	5118454	Loop_NW
L1600	466498	5118525	Loop_NW
L1600	466569	5118595	Loop_NW
L1600	466640	5118666	Loop_NW
L1600	466710	5118737	Loop_NW
L1600	466781	5118807	Loop_NW
L1600	466852	5118878	Loop_NW
L1600	466922	5118949	Loop_NW
L1800	466074	5118383	Loop_NW
L1800	466145	5118454	Loop_NW
L1800	466215	5118525	Loop_NW
L1800	466286	5118595	Loop_NW
L1800	466357	5118666	Loop_NW
L1800	466427	5118737	Loop_NW
L1800	466498	5118807	Loop_NW
L1800	466569	5118878	Loop_NW
L1800	466640	5118949	Loop_NW
L1800	466710	5119020	Loop_NW
L1800	466781	5119090	Loop_NW
L2000	465932	5118525	Loop_NW
L2000	466003	5118595	Loop_NW
L2000	466074	5118666	Loop_NW
L2000	466145	5118737	Loop_NW
L2000	466215	5118807	Loop_NW

L2000	466286	5118878	Loop_NW
L2000	466357	5118949	Loop_NW
L2000	466427	5119020	Loop_NW
L2000	466498	5119090	Loop_NW
L2000	466569	5119161	Loop_NW
L2000	466640	5119232	Loop_NW
L2200	465791	5118666	Loop_NW
L2200	465862	5118737	Loop_NW
L2200	465932	5118807	Loop_NW
L2200	466003	5118878	Loop_NW
L2200	466074	5118949	Loop_NW
L2200	466145	5119020	Loop_NW
L2200	466215	5119090	Loop_NW
L2200	466286	5119161	Loop_NW
L2200	466357	5119232	Loop_NW
L2200	466427	5119302	Loop_NW
L2200	466498	5119373	Loop_NW

Table 2: Lac Panache FLEM transmitter loops corner coordinates.

Loop ID	Corner	Easting	Northing
Loop_NW	1	466270	5119289
Loop_NW	2	466553	5119572
Loop_NW	3	467118	5119006
Loop_NW	4	466836	5118723
Loop_SE	1	466836	5118723
Loop_SE	2	467118	5119006
Loop_SE	3	467613	5118510
Loop_SE	4	467331	5118227

Table 3: Lac Panache FLEM survey parameters.

Configuration	Fixed-loop
Loop Size	800m x 400m and 600m x 400m
No. of Lines	8
Line Spacing	200m
Station Spacing	50-100m
Sensor	High-Temperature SQUID
Transmitter	TXU-30 (10kW)
Current	18-20A
Base Frequency	0.5Hz

Results

The ground within the survey area is highly resistive, highlighted by the majority of EM decays approaching the noise level by channel 20 (6.8ms). The early-time channels are dominated by a loop edge effect, resulting in a false anomalous EM response on the SW side of the transmitter loops (Figure 2). This response is common with large loops in resistive environments and is enhanced with the limited dynamic range of the SQUID sensor. It has been ignored in the modelling.

A strong anomalous response is identifiable in the mid- to late-time channels on lines L1200-L1400. The response exhibits exponential decays with time-constants in the order of 40ms, and has been modelled with two conductors, though they are likely to be part of the same surface (Figure 3). Conductor L1440N-1200N_400S is modelled as a 104m × 51m, 400S plate, steeply dipping to the southwest, and likely represents a zone of heavy disseminated or stringer sulphides. Conductor L1440N-1200N_9000S is modelled as an 86m × 26m, 8840S plate, also steeply dipping to the SW, and likely represents a more massive sulphide core to the conductive surface. The conductors coincide with a small magnetic high (the image was georeferenced from a report as the magnetic data has not yet been located) which may represent a discrete intrusion or the pyrrhotite from the conductor itself (Figure 4). A highly anomalous grab sample assaying 5560ppm Ni and 5520ppm Cu is located up-dip of the modelled conductors which is highly encouraging. Modelled conductor parameters are shown in Table 4.

Drilling of the conductors is recommended, with the plan and proposed parameters shown in Figure 5.

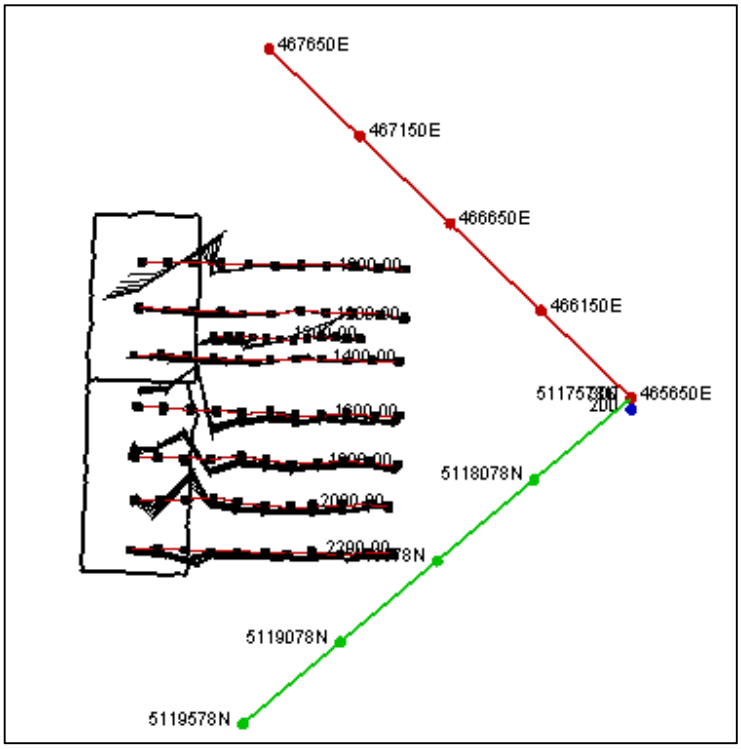


Figure 2: Oblique view of FLEM survey with early-time channel line profiles showing the false anomaly edge effect on the western side of the transmitter loops.

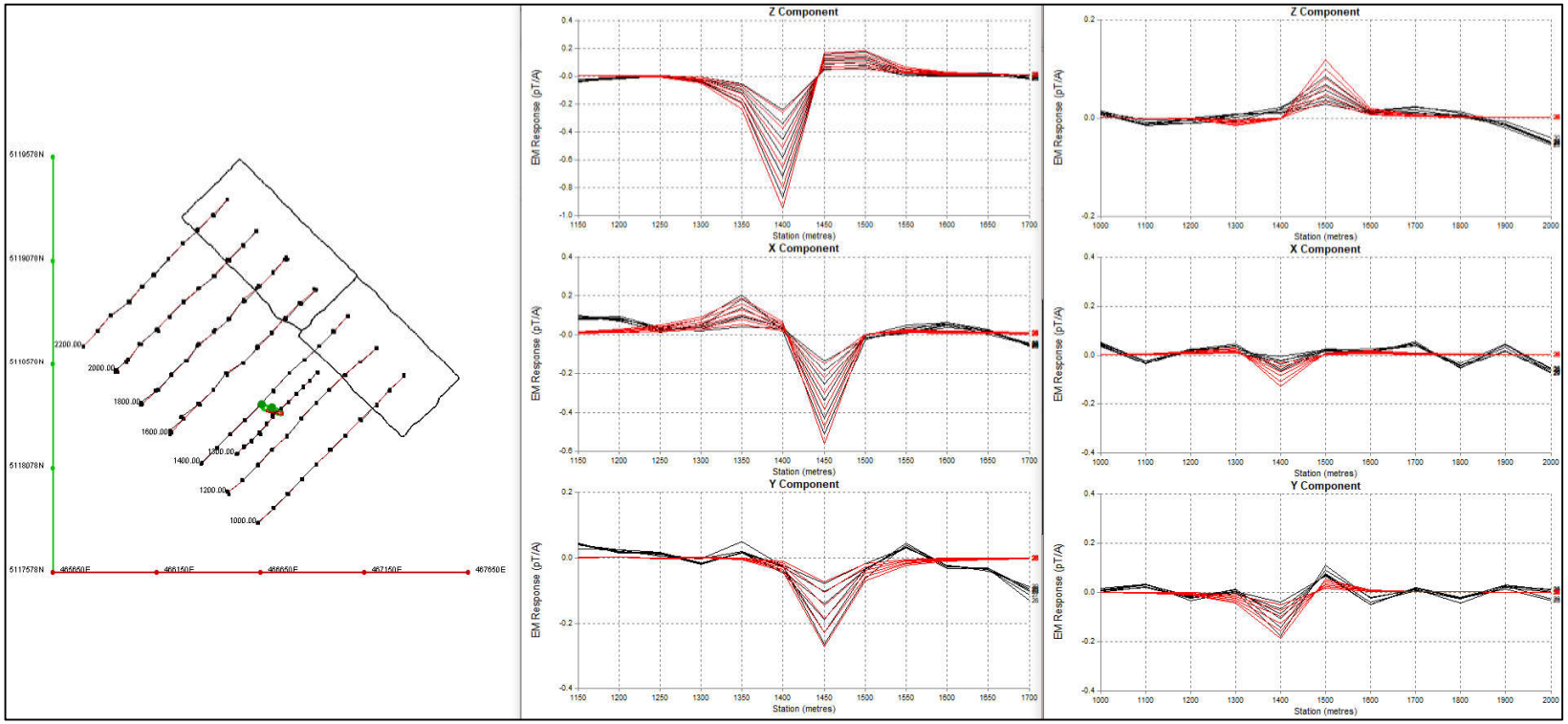


Figure 3: Plan view (left-hand panel) of Lac Panache FLEM survey stations with modelled conductors L1440N-1200N_9000S (red) and L1440N-1200N_400S (green). The middle and right-hand panels show the observed (black) and modelled (red) EM profile responses for channels 25-30 (15.7-59.6ms) of lines L1300 and L1400 respectively.

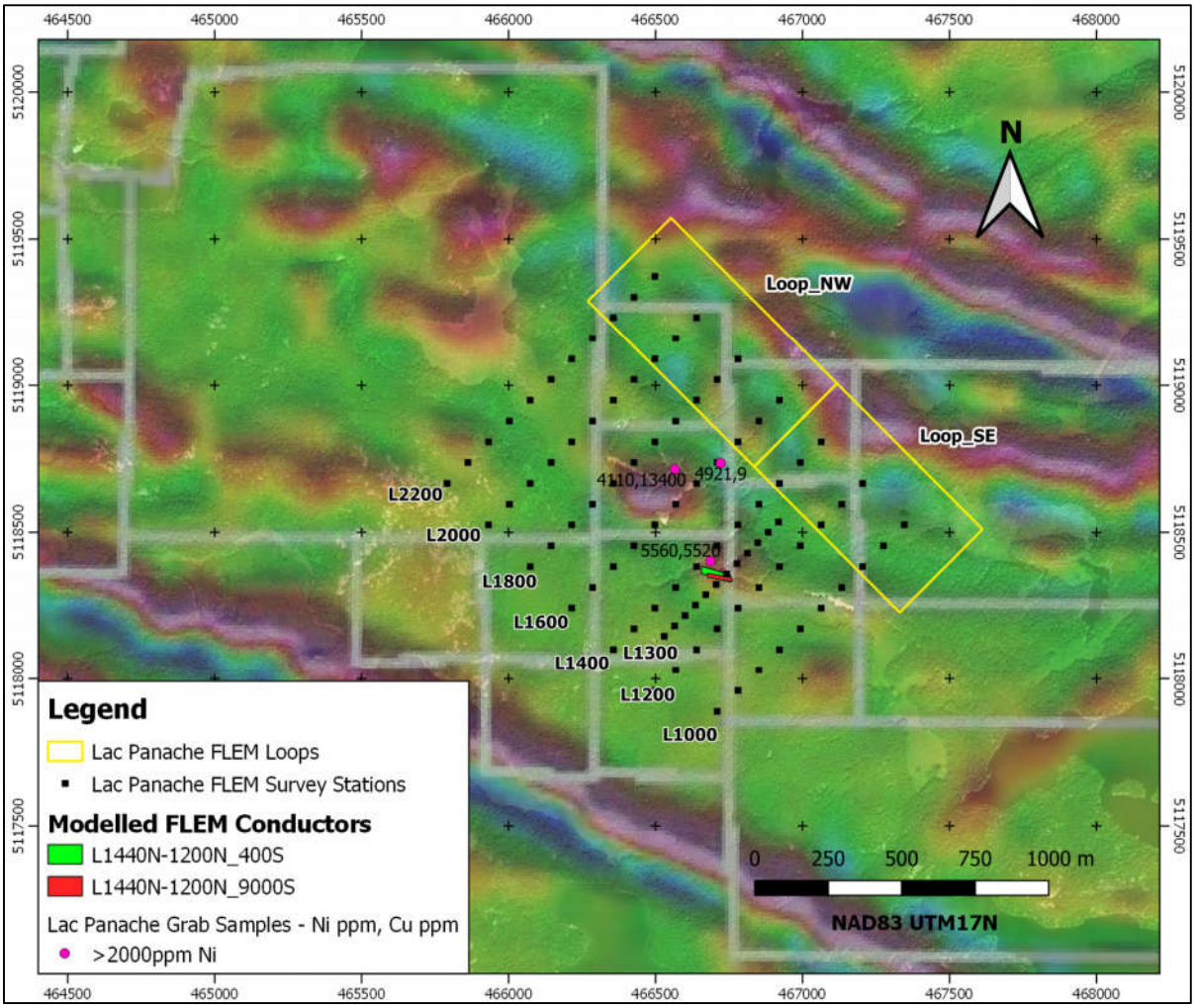
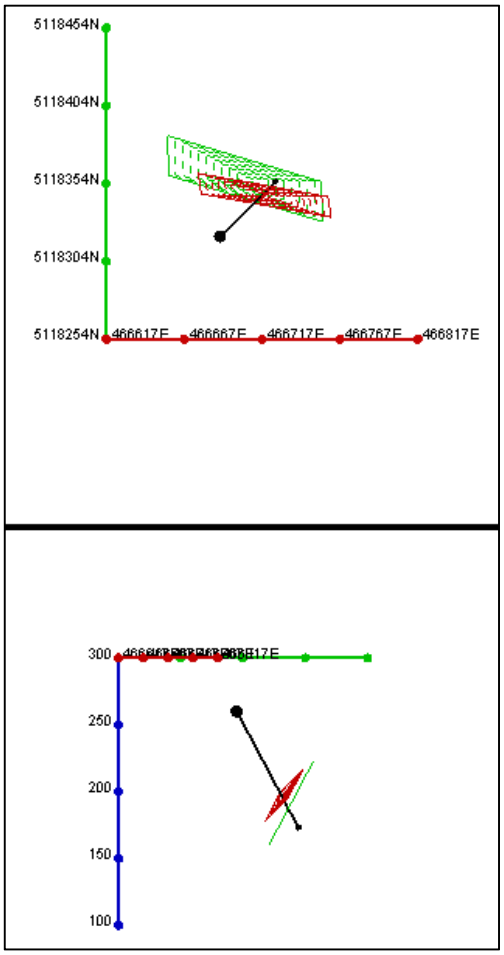


Figure 4: Lac Panache FLEM survey showing modelled conductors over airborne magnetic and Bing Imagery. The grab sample up dip of the conductor showing 5560ppm Ni and 5520ppm Cu is highly encouraging.

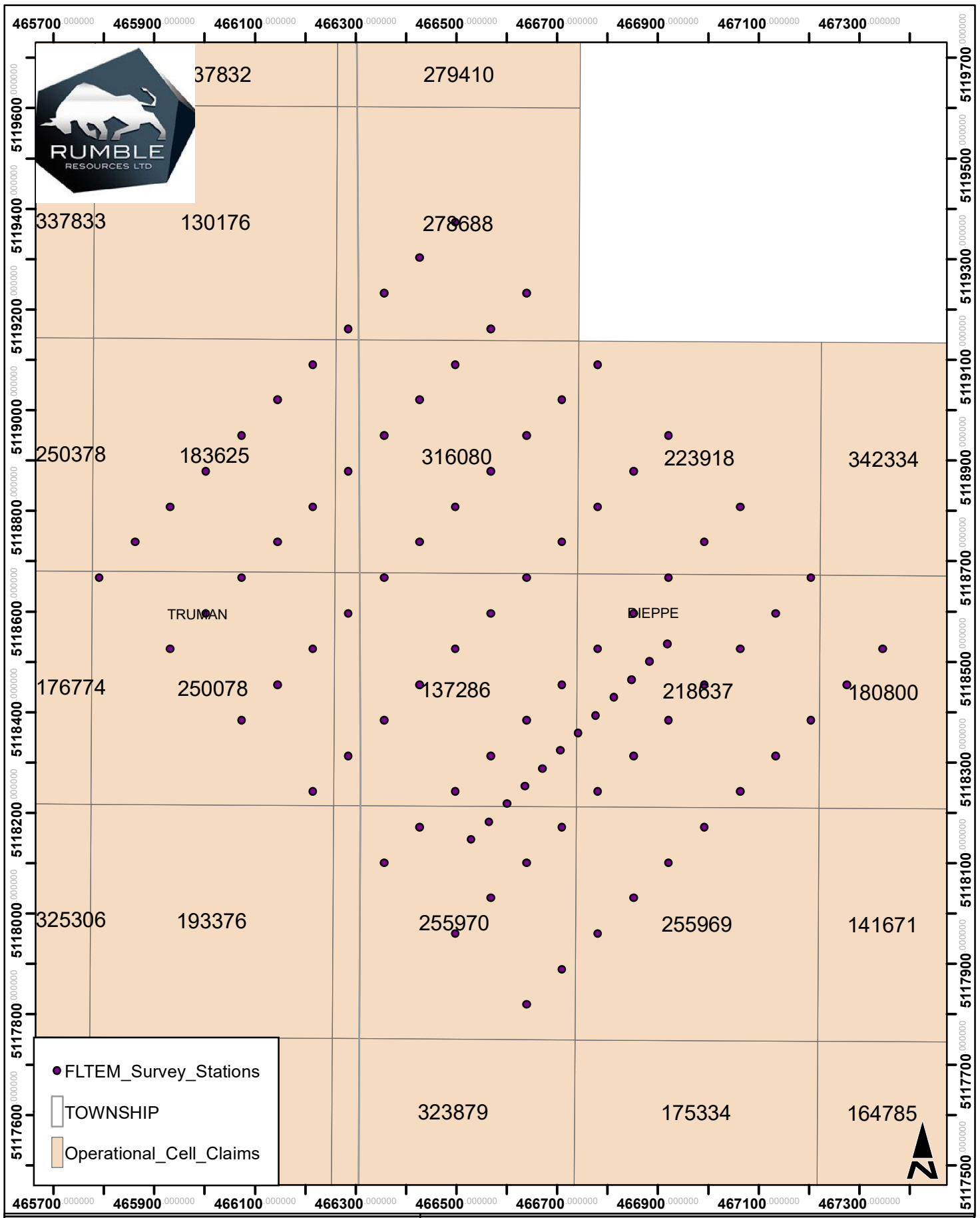
Table 4: Lac Panache modelled conductor parameters.

Conductor	L1440N-1200N_400S	L1440N-1200N_9000S
Easting (centre top edge)	466706	466718
Northing	5118370	5118353
RL	214	208
Dip (º)	62	61
Dip Direction (º)	202	197
Rotation (º)	11	13
Strike Length (m)	104	86
Depth Extent (m)	51	26
Conductance (S.m)	387	8841



Easting	466690
Northing	5118320
RL	260
Azimuth	45
Dip	60
Target Depth	80m
EOH	100m

Figure 5: Planned drillhole (plan view on top and view from 111° on bottom) to intersect the modelled conductors, and a table of drill parameters on right.



Lac Panache
FLEM Survey Stations

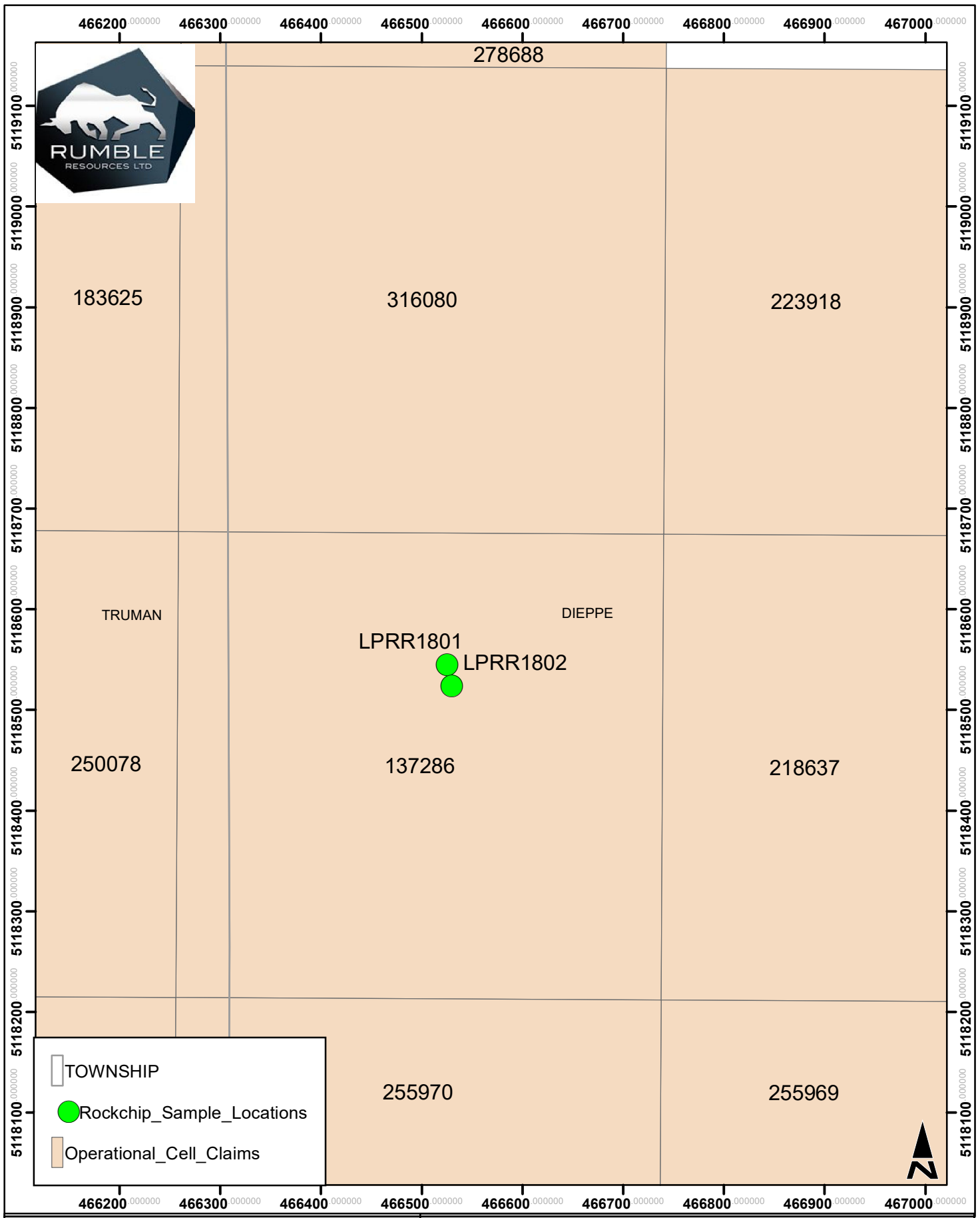
WESTERN AUSTRALIA

0 0.1 0.2 0.3 0.4 0.5 0.6

Kilometers

Scale: 1:10,000

Originator: S.Mc. Date: 11/04/2019	Drawn : S.Mc Date: 11/04/2019
Projection : NAD_1983_UTM_Zone_17N	
Scale: 1:10,000	



Lac Panache
Rock Chip Sampling Locations

WESTERN AUSTRALIA

0 0.1 0.2 0.3
Kilometers

Scale: 1:5,000

Originator: S.Mc. Date: 11/04/2019	Drawn : S.Mc Date: 11/04/2019
Projection : NAD_1983_UTM_Zone_17N	
Scale: 1:5,000	

Sally McGuinness

Statement of qualifications

I completed a Bachelor of Applied Science (Geology) at the University of Ballarat, graduating in 1997.

I have 17 years of experience in mineral exploration and scientific research in Australia.

I have substantial work experience in geosciences and mineral exploration within both the private sector and the Geological Survey of Western Australia. I was a geologist within the Geochemistry, and Minerals Resources and Regional Mapping Sections and a Senior Geologist in the Regolith Geochemistry Section of the GSWA. My work has been published in eight reports and three regolith materials maps.

I have been employed by a number of junior companies where I was responsible for planning and implementing on-ground exploration programs for commodities including, gold, base metals and uranium.

In 2016, I started my own business working for major and junior mining and exploration companies and tenement management services providers, providing assistance with geological interpretation, exploration planning, tenement management and report writing.

Sally McGuinness

Consultant Geologist

49 Kenmure Avenue

Bayswater

Western Australia, 6053

(+61) 410 512 408

Jacob Paggi

Statement of Qualifications

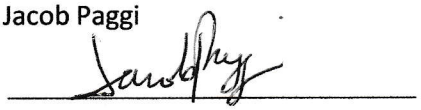
I complete a BSc Geophysics degree at Curtin University, graduating with Honours in 2005. I have 13 years' experience in mineral exploration in Australia and overseas.

I joined Independence Group (IGO) in 2005 and spent 3 years at the Long Nickel mine in Kambalda, where I played a key role in the discovery of the Moran nickel deposit. Moving back to Perth, my role involved providing geophysical support for nickel, gold, and base metal exploration in a wide variety of geological terrains across Australia and Sweden. I was a key member of the teams that discovered the Rosie nickel deposit in Western Australia, and the Eureka VMS lens in Victoria.

In 2015, I started my own business, Armada Exploration Services, working for major and junior exploration and mining companies by planning, supervising and interpreting geophysical data for nickel, gold and base metal exploration programs.

I am a member of the ASEG.

Jacob Paggi



Principle Geophysicist

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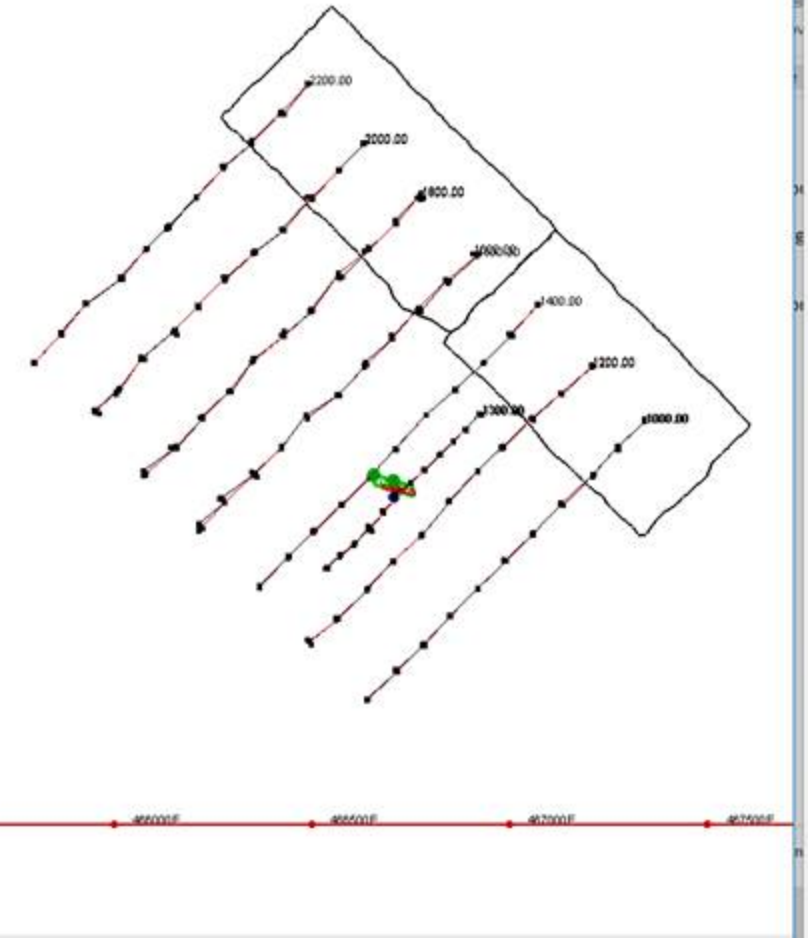
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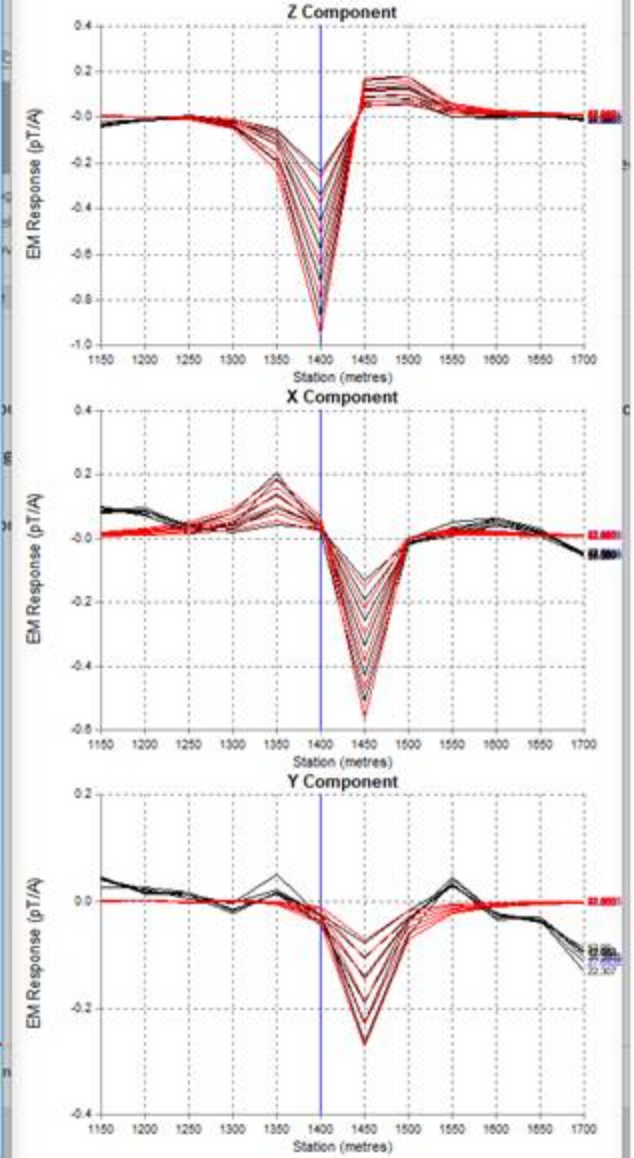
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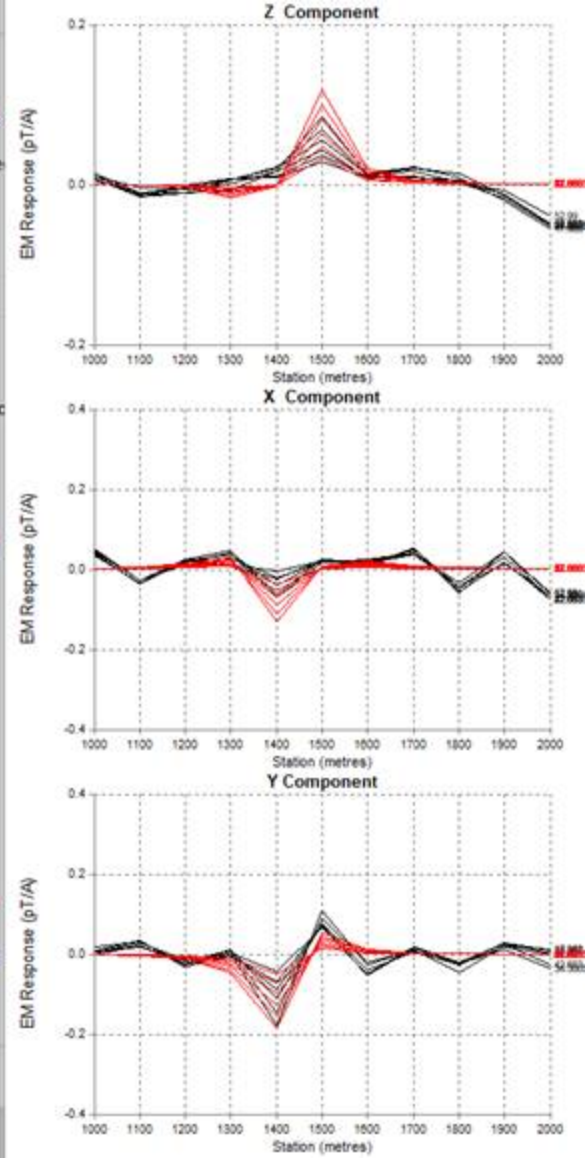
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