TECHNICAL REPORT ON THE ARIANE PROPERTY

Project Location

Province of Québec, Canada
NTS Map Sheets 32G/06 & 32G/11

Prepared for

MAXTECH VENTURES INC.
1250 West Hastings Street
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Canada, V6E 2M4

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MAIN ABBREVIATIONS

Km: kilometre

UTM: Universal Transverse Mercator

NAD: North American Datum

g/t : gramme per metric ton

˚C: degree Celsius

NTS: National Topographic System

Gy: 1000 Million years

3.0 SUMMARY

The Ariane copper and gold property is located south-west of the town of Chapais in the province of Québec. In 2008 new claims (CDC) were added to the land package which now consists of 108 map designated claims covering 60.4 km². All claims are in good standing and 100% owned by MAXTECH VENTURES INC.

The Ariane property is located in the Caopatina segment of the Chibougamau-Matagami greenstone belt, within the Abitibi Subprovince. Rock units in this segment are dominantly composed of basalts of the Obatogamau Formation intruded by a series of mafic to felsic volcanic centers. The Caopatina segment is known for hosting the Joe Mann mine, main gold producer of the Chibougamau-Chapais mining district, but also smaller gold and base metals deposits. Several gold, copper, zinc and silver showings have been reported on the Ariane claims from past work in the area.

Historical exploration work conducted on the Ariane property area started in the late 1940's and allowed for different geological mapping, trenching, geophysical and drilling programs to define the property's mineralization.

Further exploration work was carried out by MAXTECH VENTURES INC. in 2008 and consisted in ground geophysics (IP, infiniTEM) leading to the recognition of new anomalies, followed by lithogeochemical sampling during two reconnaissance exploration programs. The IP and infiniTEM surveys, conducted during the winter 2008, were located on two (2) cut grids positioned over copper and gold targets generated by CARDS. The exploration programs, conducted the following summer, had for objective reconnaissance mapping and sampling over the geophysical grids and over other areas of interest. The mapping and sampling over the property permitted the localisation and confirmation of historical showings on the property; notably the Lac Pauline copper-gold zone (sample #876432: 0.88% Cu, 6.5 g/t Ag, 0.13 g/t Au).

The Lac Pauline mineralisation is hosted in gabbros, anorthositic-gabbros, pyroxenite-gabbros, and pyroxenites from the Opawica-River Complex. The mineralization at surface is dominantly composed of pyrite and minor chalcopyrite with, locally, trace amounts of magnetite and magnetic pyrrhotite. The sulfides are disseminated in the rocks of the Opawica River complex, and are concentrated as semi-massive lenses within sub-vertical E-W shear zones.

The best results obtained in the Lac Pauline mineralized zone are located within a series of E-W shear zones in an area of approximately 300 meters long by 15 meters wide.

The mineralization of the House showing is composed of disseminated pyrite and is hosted in sub-vertical E-W quartz veins and shear zones within tonalites of the Opawica pluton. Malachite has been described as part of the mineralization in a 5m long quartz vein is this area.

Since the summer of 2008, no further exploration work was performed on the Ariane property claims.

The Ariane claims show great potential for copper and gold mineralization based on historical and the 2008 results. Within and outside the Ariane claim limits, little work has been done on finding lateral along-strike extensions to mineralization or finding additional sub-parallel mineralized horizons.

In view of these considerations, it is the author's opinion that the Ariane claims should be maintained and additional work should be carried out in order to define the extent of the known mineralization.

Recommendations for the Ariane property consist of a work program that comprises two (2) phases, with Phase II conditional upon the results of Phase I.

Phase I:

a) - Ongoing compilation and integration of geological reports, drilling reports, geophysical ground and recent airborne surveys and satellite images, including data from adjacent properties.
- Ground IP & EM surveys over designated areas (Lac Pauline)

b) - Field follow up of the identified conductors and anomalies from the ground geophysical surveys, in order to identify surface mineralization and structures.
- A detailed analysis of the acquired Phase Ia information should be performed in order to re-evaluate the mineralogical potential of the property and delineate the appropriate locations and orientations of potential drill holes.

Phase II:

a) - Diamond drilling of targets established in Phase Ib.

b) - Based on the results obtained during the diamond drilling, a decision should be made about proceeding with additional drilling.

4.0 INTRODUCTION

At the request of MAXTECH VENTURES INC. (MAXTECH), the author was contracted to complete a technical report on the Ariane property located 200 km northeast of Val d'Or, Abitibi.

The purpose of this report is to present and assess the Ariane property for gold and copper mineralization, in relation with the recent and historical exploration work, the conducted ground geophysics and the different zones identified by DIAGNOS as favourable using CARDS prediction system in 2006.

On the property, gold and copper targets were generated using DIAGNOS' proprietary Computer Aided Resource Detection System (CARDS) in 2006. Generation of these targets using "data mining techniques" was carried out by the "CARDS team" at DIAGNOS INC (DIAGNOS).

This report presents the geology and potential for gold and copper mineralization of the Ariane property. It summarizes the ongoing exploration work carried on the property and sets out recommendations for additional work.

Parts of the information on the Ariane claims and surrounding areas presented in this report is derived from historical public data, including assessment reports and geological, geochemical, and geophysical compilations, available online from SIGÉOM and GESTIM of Québec Ministère des Ressources Naturelles et de la Faune (MRNF). The first author of this report, André Ciesielski P.Geo., conducted a site visit of the Ariane property on the 18th and 19th of August 2010.

DIAGNOS co-author geologists carried out exploration work on the Ariane property in the summer of 2008. Work was supervised by Jean-Philippe Mai, P.Geo.

In this report, figures with UTM coordinates are in NAD 83 zone 18 projection.

5.0 RELIANCE ON OTHER EXPERTS

If not commented, the author considers the documentary sources as reliable, technically valid and usable with considerations related to the present frame of work. The author relied on exploration works carried out by DIAGNOS personnel in 2008.

Field information and samples were obtain and processed according to industry standards. Cu-Au targets on the Ariane property were generated using DIAGNOS proprietary Computer Aided Resource Detection System (CARDS). The methodology, validity, and any representations made upon such targets is and remains the sole responsibility of the "CARDS team".

6.0 PROPERTY DESCRIPTION & LOCATION

The Ariane property is located approximately 50 km southwest of the town of Chapais, in the province of Quebec, Canada (Figure 1).

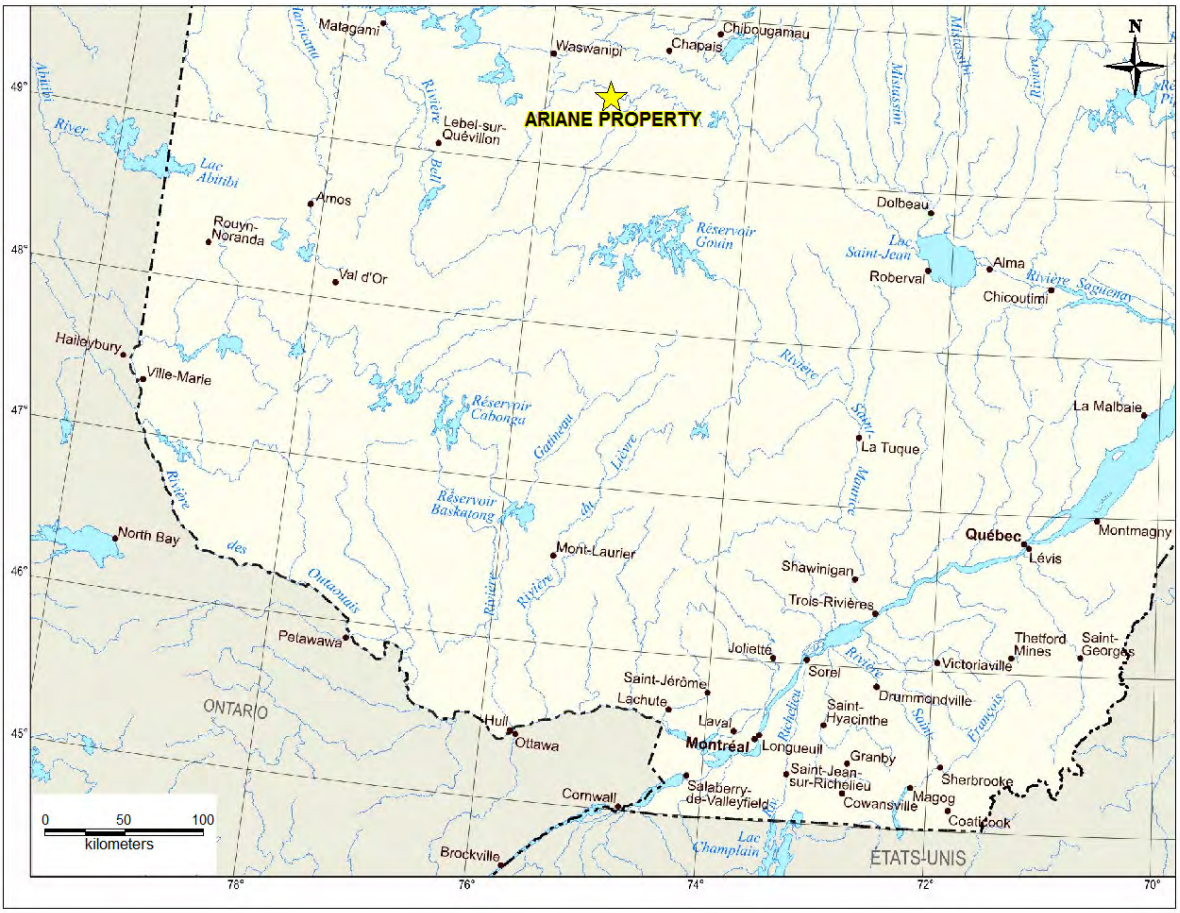

Figure 1: Location map of the Ariane property

All claims are in good standing and owned at 100% by MAXTECH. The property consists of 108 map designated claims, totalling 6 039.84 hectares (60.4 km^2) in one irregularly shaped claim block.

In 2007, MAXTECH entered into an option agreement with DIAGNOS to acquire a 100% interest in the Ariane claim group. This option was exercised on the 25th of November 2010 and MAXTECH acquired 100% interest in the property. DIAGNOS retains a net smelter return (NSR) interest of 2% on the claims, 1% NSR royalty may be acquired by MAXTECH upon payment of 1 000 000 $ to DIAGNOS at any time within five (5) years of the production by MAXTECH of a positive feasibility study, in compliance with NI 43-101, for the Ariane project.

The list of claims, title numbers and expiry dates are presented in Table 1.

Table 1: Ariane property claim list

Title #	Area (Ha)	Type	Status	Inscription Date	Expiry Date	Excess ($)	Holder
2060943	55.94	CDC	Actif	01/03/2007	28/02/2013	1075,48	Maxtech Ventures inc. (86696) 100 %
2060944	55.94	CDC	Actif	01/03/2007	28/02/2013	1075,48	Maxtech Ventures inc. (86696) 100 %
2060947	55.93	CDC	Actif	01/03/2007	28/02/2013	266,67	Maxtech Ventures inc. (86696) 100 %
2060949	55.93	CDC	Actif	01/03/2007	28/02/2013	1075,48	Maxtech Ventures inc. (86696) 100 %
2060950	55.93	CDC	Actif	01/03/2007	28/02/2013	954,04	Maxtech Ventures inc. (86696) 100 %
2060952	55.93	CDC	Actif	01/03/2007	28/02/2013	12145,23	Maxtech Ventures inc. (86696) 100 %
2060955	55.92	CDC	Actif	01/03/2007	28/02/2013	2154,04	Maxtech Ventures inc. (86696) 100 %
2060956	55.92	CDC	Actif	01/03/2007	28/02/2013	5754,04	Maxtech Ventures inc. (86696) 100 %
2060958	55.92	CDC	Actif	01/03/2007	28/02/2013	12145,23	Maxtech Ventures inc. (86696) 100 %
2060961	55.92	CDC	Actif	01/03/2007	28/02/2013	4675,48	Maxtech Ventures inc. (86696) 100 %
2060962	55.92	CDC	Actif	01/03/2007	28/02/2013	4675,47	Maxtech Ventures inc. (86696) 100 %
2060964	55.91	CDC	Actif	01/03/2007	28/02/2013	16554,02	Maxtech Ventures inc. (86696) 100 %
2060966	55.91	CDC	Actif	01/03/2007	28/02/2013	8545,21	Maxtech Ventures inc. (86696) 100 %
2060968	55.9	CDC	Actif	01/03/2007	28/02/2013	4554,03	Maxtech Ventures inc. (86696) 100 %
2060970	55.9	CDC	Actif	01/03/2007	28/02/2013	12145,21	Maxtech Ventures inc. (86696) 100 %
2160482	55.95	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160483	55.95	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
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2160485	55.95	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160486	55.95	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160487	55.95	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
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2160489	55.95	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160490	55.95	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160491	55.95	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
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2160493	55.95	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160494	55.94	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160495	55.94	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160496	55.94	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160497	55.94	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160498	55.94	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160499	55.94	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160500	55.93	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160501	55.93	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160502	55.93	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160503	55.93	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160504	55.93	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160505	55.93	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160506	55.92	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160507	55.92	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160508	55.92	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160509	55.92	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
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2160512	55.92	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160513	55.92	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %

Title #	Area (Ha)	Type	Status	Inscription Date	Expiry Date	Excess ($)	Holder
2160514	55.91	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160515	55.91	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160516	55.91	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160517	55.91	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160518	55.91	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160519	55.91	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160520	55.91	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
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2160522	55.91	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160523	55.91	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
2160524	55.91	CDC	Actif	11/06/2008	10/06/2012	-	Maxtech Ventures inc. (86696) 100 %
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2167841	55.94	CDC	Actif	28/07/2008	27/07/2012	808,82	Maxtech Ventures inc. (86696) 100 %
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2167860	55.93	CDC	Actif	28/07/2008	27/07/2012	-	Maxtech Ventures inc. (86696) 100 %
2167861	55.92	CDC	Actif	28/07/2008	27/07/2012	-	Maxtech Ventures inc. (86696) 100 %
2167862	55.92	CDC	Actif	28/07/2008	27/07/2012	808,81	Maxtech Ventures inc. (86696) 100 %
2167863	55.92	CDC	Actif	28/07/2008	27/07/2012	808,81	Maxtech Ventures inc. (86696) 100 %
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2167865	55.92	CDC	Actif	28/07/2008	27/07/2012	-	Maxtech Ventures inc. (86696) 100 %
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2167869	55.92	CDC	Actif	28/07/2008	27/07/2012	-	Maxtech Ventures inc. (86696) 100 %
2167870	55.92	CDC	Actif	28/07/2008	27/07/2012	-	Maxtech Ventures inc. (86696) 100 %

The Ariane claims are located on NTS map sheet 32G/06 and 32G/11 at the intersection of the Guercheville, Drouet, Gradis and Du Guesclin Townships. During the summer 2008, ninety-three (93) claims have been added to the existing land package which now totals 108 claims (Figure 2).

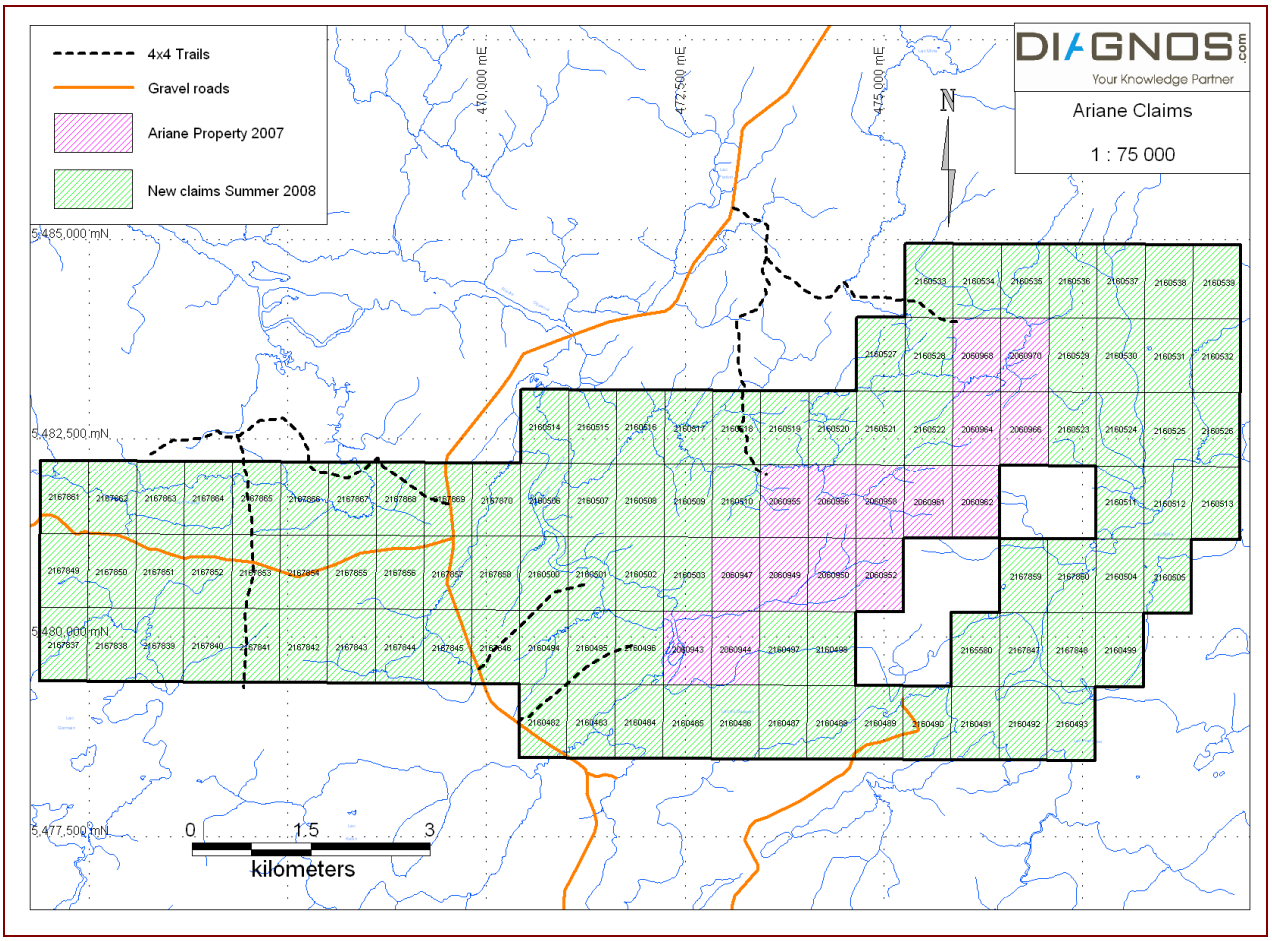

Figure 2: Ariane property claim map and access

Historical gold and copper showings are have been highlighted throughout the property by different companies over the years. Mineralized samples are recorded in the western and eastern part of the property, the best samples assayed 11.9 g/t Au, 3.0% Cu and 4.0% Zn. (Figure 3).

Exploration work performed during the summer of 2008 by MAXTECH confirmed the presence of mineralization on historical showings, notably the Lac Pauline and the House zones with surface samples up to 0.89% Cu, 6.5 g/t Ag, 0.13 g/t Au (Lac Pauline) and 0.26 g/t Au (House) (Figure 4).

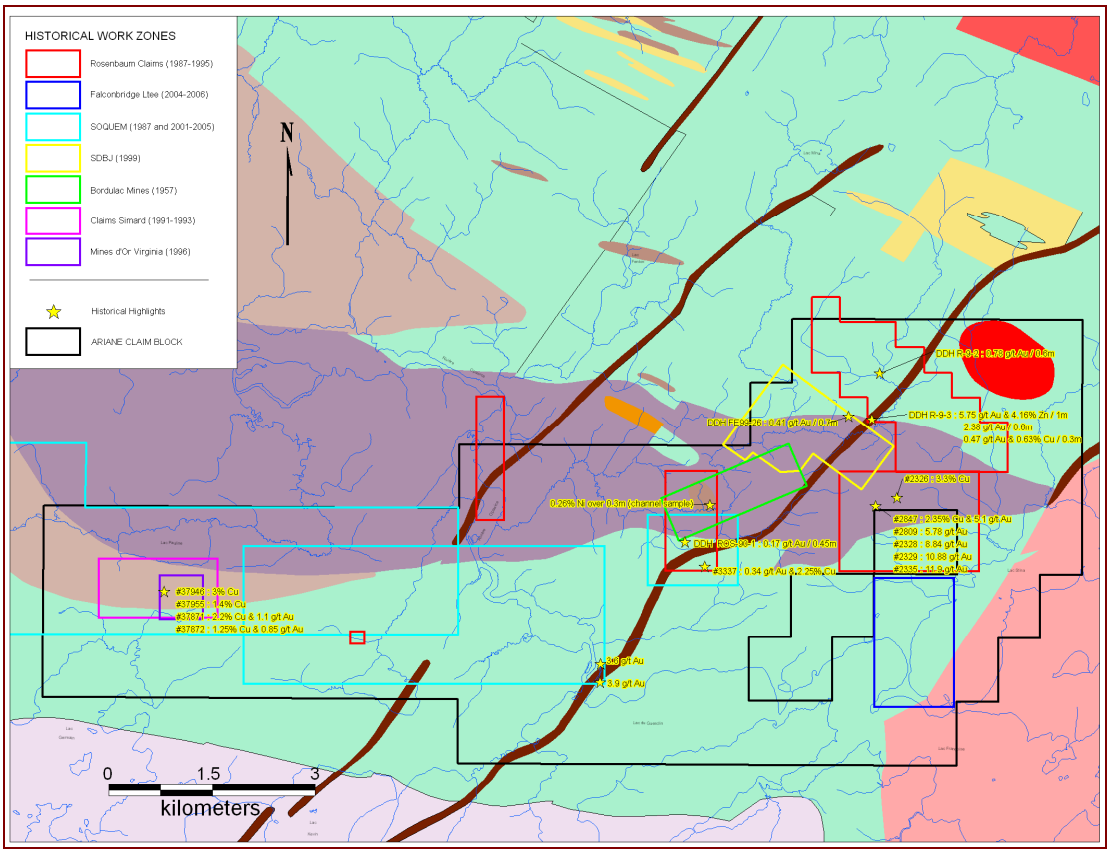

Figure 3: Mineralization from historical exploration work on the Ariane property

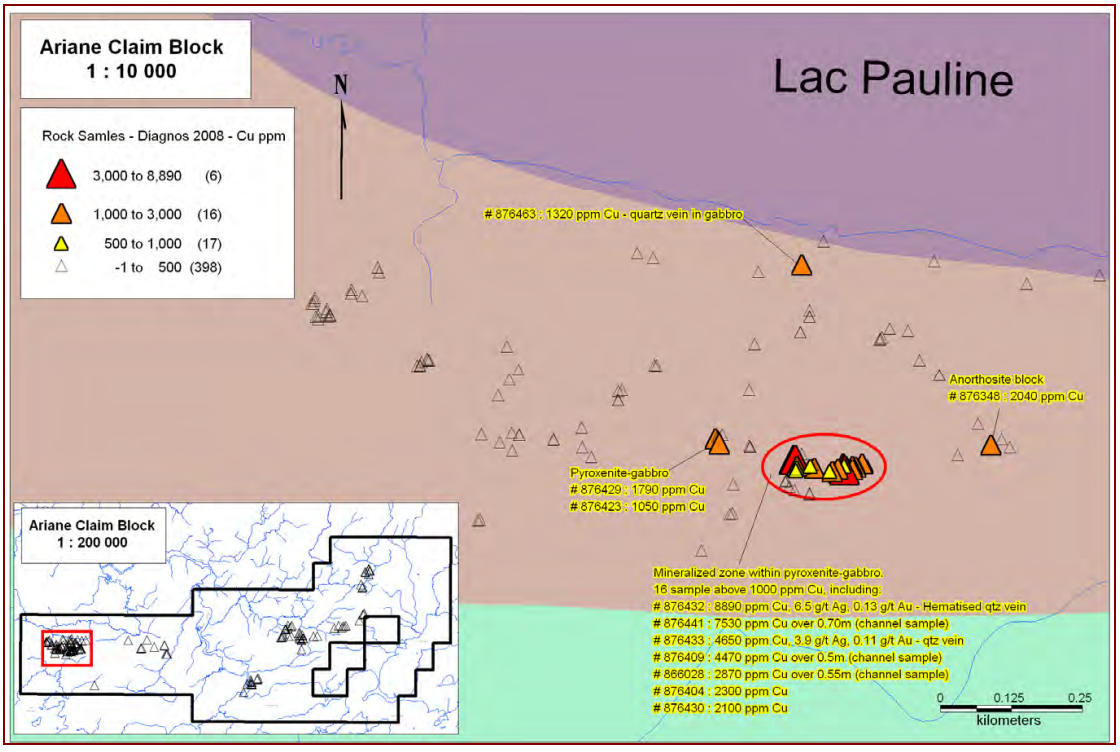

Figure 4: 2008 assay results from the Lac Pauline area

The Ariane property is subject to the Mining Law of the Province of Quebec. To the best knowledge of the author, the Ariane property is not subject to any other surface rights than those related to environmental protection of the mining law. To the knowledge of the author, the property has not been legally surveyed as the claims were map designated through the MRNF (Ministere de Ressources Naturelles et de la Faune) Gestim website. The author doesn't have information regarding environmental liabilities on the property.

In order to perform the recommended exploration work, intervention permits authorisations are required in accordance with L.R.Q., chapter M-13.1 of the “Loi sur les Mines” and article 20 of the “Loi sur les Forêts” (Quebec) and may be obtained from the MRNF. None of the above authorisations were obtained nor requested.

7.0 ACCESSIBILITY, CLIMATE & PHYSIOGRAPHY

The Ariane property can be accessed by all weather gravel roads and 4x4 trails which are part of a network of logging roads accessible from provincial highway 113, some 20 km west of Chapais (Figure 2). Some sectors can only be accessed by boat.

The climate is characterized by cold winter and mild summers. Temperatures can range from 5˚C to 35˚C during the summer months and can reach -35˚C, rarely rising above 0˚C during the winter months with an average snow cover of 83 cm and 115 mm of rain in summer. Lakes are typically frozen and suitable for diamond drilling from January to April.

Chapais, population 1630 (2006), is the closest town to the property area, located on route 113 near Chibougamau in the Jamésie region where major utilities and some services can be found. It is surrounded by, but not a part of, the municipality of Baie-James. The community was first settled in 1929, when copper, silver and gold was found in the area. Opémisca Copper Mines operated the community's mine until 1991. More recently, with the closure of the mines the community's primary industry has been forestry. Mining industrial resources can be found in Val d’Or, 200 km to the southwest.

The topography of the property is generally flat with a few small hills and swamps. The altitude ranges from 300 m to 400 m.

Except for a few protruding hill tops, most of the region is covered by glacial deposits, with a thickness ranging from under one meter to a few meters thick.

8.0 HISTORY

Much of the previous work conducted on the Ariane property area has been oriented towards geological mapping, trenching, geophysical surveys and diamond drilling. A list of assessment reports on the Ariane property claims, with brief details of previous work, is presented in the following sections. The following sections are based on public domain information released prior to December 2008.

8.1 Regional surveys covering the Ariane Property

1982 Quebec government INPUT survey was conducted by Questor Surveys Ltd (DP927).

1995 Quebec government SYGHEM 4 & 5 survey was conducted by Sial Geosciences Inc (DP-95-01).

2006 Falconbridge Ltd MEGATEM II Survey J conducted by Fugro Airborne Surveys (GM 62522).

8.2 Previous work

Over the past 60 years, exploration work has been reported over different sections of the Ariane property. This work, conducted by different companies over the years, includes airborne and ground geophysical surveys, mapping, sampling, and drilling. In total, twenty-four (24) historical drill holes are located on this property (Figure 5). Showings (mostly Au and Cu) are reported in drill holes R-9-2, R-9-3, ROS-90-1 and FE99-26, as well as in various grab samples taken on mineralized surface outcrops (Figure 6).

A complete description of the previous work on this property is listed below and followed by a summary table (Table 2).

1949 American Metal Co Ltd & Cominco Ltee conducted exploration work including geological mapping and sampling over the NE section of the Ariane property (GM 00565).

1957 American Metal Co Ltd conducted an Airborne geophysical survey (MAG) covering the NE section of the Ariane property (GM 05440).

1957 Bordulac Mines Ltd conducted an airborne geophysical survey (MAG and EM) over the center-north portion of the Ariane property (Figure 4) and identified one large strong anomaly. Follow up exploration work included trenching and drilling (DDH 1-14). 0.26% Ni is reported on 0.6m in Trench 2 / Zone 2, and 0.34% Cu is reported in a grab sample in zone 4. There are no available assay results for the fourteen drill holes (GM 05780, GM 06494, GM 05896).

1976-1979 Rock City Expls Ltd & Twentieth Century Expls Ltd conducted a ground geophysical survey (EM) which covers a small section in the northeastern part of the Ariane property (GM 32447, GM 33993, GM 35555).

1981-1983 SDBJ conducted several ground geophysical surveys (MAG, VLF) and identified a total of 4 anomalies and 12 conductors over five different areas on the Ariane property (GM 37580, GM 37715, GM 39608, GM 40470).

1983-1984 Mines Camchib Inc conducted two ground geophysical surveys (MAG/VLF and MAG/Max-Min) on the northwestern part of the Ariane property. They identified 1 anomaly and 7 conductors during the first survey and confirmed 1 conductor during the second survey (GM 40559, GM 42292).

1987 Ministère des Ressources Naturelles did a geological mapping campaign over an area which includes the Ariane property. During this reconnaissance mapping, they discovered the Lac du Guesclin showing (3.6 g/t Au and 3.9 g/t Au), on the east shore of the Opawica river, immediately north of du Guesclin lake (Figure 3) (DP 87-12, MB 93-12).

1987 SOQUEM conducted a geological mapping and sampling campaign in the center part of the Ariane property (Figure 4). During this campaign, a total of 238 grab samples were collected. The best results (700 ppm Ni and 950 ppm Cu) where obtained in grab samples taken from the Bordulac Mines historical trenches (GM 46013).

1987 Ecodir Inc conducted a ground geophysical survey (MAG, VLF) over a small area in the center of the Ariane property; however, no anomaly or conductor was clearly identified (GM 46200).

1987 Claim Rosenbaum & Claim Gallahan conducted an airborne MAG survey on the Rosenbaum Group 8 property, located on the west shore of Lac Stina, partly over the Ariane Property (Figure 4) (GM 45867).

1988 Claims Callahan conducted a ground geophysical survey (MAG, EM horizontal loop) as well as geological mapping and sampling on the Rosenbaum Group 8 property (Figure 4). Approximately 53 of the grab samples that were taken during the sampling program are located on the Ariane property; the others falling on the Margaret Nealon claims (See Appendix 2 for details). On the Ariane property, 5 samples assayed over 5 g/t Au, including 2 samples over 10 g/t Au, and 2 samples assayed over 2.35% Cu (Figure 5). These values were obtained on a historical showing from 1952, the “House” showing (GM 47663, GM 47664).

1989 Claims Rosenbaum and others conducted and airborne geophysical survey (MAG, VLF) on the Rosenbaum Group 9 property, at the northeastern section of the Ariane property (Figure 4). No conductors were clearly identified (GM 48477).

1990-1991 Claims Rosenbaum conducted a program of prospecting, mechanical stripping and diamond drilling over the Rosenbaum Group 8, 10A and 10B properties (Figure 4). 3 holes were drilled on Property 10A (ROS-90-1 to ROS-90-3) located in the center of the Ariane property; and 1 hole was drilled on Property 10B (ROS-90-10) about 5km to the southwest, also on the Ariane property. Hole ROS-90-1 intercepted 0.17 g/t Au over 0.45m. A few grab samples were taken on Property 10A and Property 8. Sample #3337,

located in the southeast corner of the Rosenbaum Grid on Property 10A returned 0.34 g/t Au & 2.25% Cu (Figure 5) (GM 50352, GM 51302).

1991 Claims Rosenbaum conducted ground geophysical surveys (MAG, EM horizontal loop) on the Rosenbaum Group 9, 10A and 11 properties (Figure 4) (GM 50446, GM 50551).

1991-1993 Claims Simard carried out an exploration campaign on the Lac Pauline property, located at the western end of the Ariane property (Figure 4). This campaign included prospecting, mapping, excavating, blasting, trenching and sampling. Many samples from this area contained copper and gold values. The highest grading sample for copper is sample #37946 (3% Cu), and the highest gold assay is from sample #37871 (2.2% Cu & 1.1 g/t Au) (Figure 5) (GM 51944, GM 55078).

1995 Claims Rosenbaum conducted a diamond drilling campaign on Rosenbaum Group 9 property (holes R-9-1 to R-9-3) (Figure 4). Hole R-9-2 returned 0.78 g/t Au over 0.6m, while hole DDH R-9-3 intercepted 5.75 g/t Au & 4.16% Zn over 1m, 2.38 g/t Au over 0.6m, and 0.47 g/t Au & 0.63% Cu over 0.3m (Figure 5) (GM 52919).

1996 Mines d'Or Virginia Inc. conducted a ground geophysical survey (EM horizontal loop) on the Lac Pauline property, followed by a two hole drilling campaign (LP-96-01 and LP-96-02) (Figure 4). The results from the drilling were low (<50 ppb Au, <0.1% Cu and <300 ppm Ni) (GM 55812, GM 55813).

1999 SDBJ and Exploration Boréale Inc conducted a ground geophysical survey (IP) on the Fenton-Est property, located in the northeast section of the Ariane property (Figure 4). Following this survey, a hole was drilled to test one of the IP anomalies (FE99-26). This hole intercepted 0.41 g/t Au over 0.7m (Figure 5) (GM 57977, GM 57987).

2001-2005 SOQUEM conducted a sampling campaign on the Wachigabau property, located in the western section of the Ariane property, in the Lac Pauline area (Figure 4). The purpose of this campaign was to determine the potential of the region for PGE elements. In assessment report GM 61780, SOQUEM reports having obtained, in 2000, a value of 319 ppb combined Pd-Pt. However, this result was not confirmed during the 2001-2005 work program, since no values of interest were discovered for Pd, Pt and Au. The highest value obtained for copper was 3736 ppm from sample # 22813 (GM 59765, GM 61780).

2004-2006 Falconbridge Ltée conducted a heliported geophysical survey (VTEM) on Du Guesclin A-04-01 property, located in the southeast section of the Ariane property (Figure 4). The purpose of this survey was to evaluate the potential of MEGATEM target DUG-101. Following the VTEM survey, target DUG-101 was not selected for drilling (GM 62536, GM 62522).

Table 2: Ariane previous work

Report: number	Year	Company	Report: title	Geology	Geophysics	Drilling	Sampling	Result highlights	Notes
GM 00565	1949	AMERICAN METAL CO LTD, COMINCO LTEE, KENNEX LTD	REPORT ON THE 1949 PROGRAM	Geological mapping and sampling					
GM 05440	1957	AMERICAN METAL CO LTD	1 PLAN OF AIRBORNE MAG CONTOUR INCLUDING SKETCH OF CLAIMS LOCATION		Airborne MAG survey				
GM 05780	1957	BORDULAC MINES LTD, CLAIMS FERGUS, CLAIMS ROUSSEAU, CLAIMS SMITH, CLAIMS SWEENY, QUEBELLE MINES LTD	REPORT ON AIRBORNE MAG AND E M SURVEYS	Geological mapping	Airborne EM and MAG surveys				
GM 06494	1957	BORDULAC MINES LTD	DIAMOND DRILL RECORD			DDH: 1-14		No results	
GM 05896	1957	BORDULAC MINES LTD	GEOLOGICAL REPORT AND ASSAY RESULTS						
GM 32447	1976	ROCK CITY EXPLS LTD, TWENTIETH CENTURY EXPLS LTD	REPORT ON ELECTROMAGNETIC SURVEY		Ground EM survey				
GM 33993	1978	ROCK CITY EXPLS LTD, TWENTIETH CENTURY EXPLS LTD	ELECTROMAGNETIC SURVEY, CLAIM GROUP GUERCHEVILLE TOWNSHIP		Ground EM survey				
GM 35555	1979	MINEFINDERS CORP LTD, TWENTIETH CENTURY EXPLS LTD	REPORT ON ELECTROMAGNETIC SURVEY		Ground EM survey				
GM 37580	1981	S D B J	LEVES MAGNETOMETRIQUE ET DE TRES BASSE FREQUENCE (VLF),		Ground MAG and VLF surveys				3 MAG anomalies and 3 conductors are identified (SDBJ property DG1 and DG2)

Report: number	Year	Company	Report: title	Geology	Geophysics	Drilling	Sampling	Result highlights	Notes
			CANTON DU GUESCLIN						
GM 37715	1981	S D B J	LEVES ELECTROMAGNETIQUE DE TRES BASSE FREQUENCE ET GEOLOGIQUE DU GUESCLIN III	Geological mapping	Ground VLF survey				4 conductors are identified (SDBJ property DG3)
GM 39608	1982	S D B J	RAPPORT DES TRAVAUX GEOLOGIQUES ET GEOPHYSIQUES EFFECTUES SUR LA PROPRIETE DU LAC FENTON DE JUIN A SEPTEMBRE 1982	Geological mapping	Ground MAG and VLF surveys				1 MAG anomaly is identified (SDBJ property 82-C)
GM 40470	1983	S D B J	TRAVAUX EXECUTES SUR LA PROPRIETE DE FENTON	Geological mapping	Ground MAG and VLF surveys				4 conductors are identified (SDBJ property 83-A)
GM 40559	1983	MINES CAMCHIB INC	RAPPORT DE TRAVAUX, LEVES GEOPHYSIQUES PRELIMINAIRES		Ground MAG and VLF surveys				7 conductors (three first priority and 4 second priority) and one MAG anomaly
GM 42292	1984	MINES CAMCHIB INC	RAPPORT D'ACTIVITE 1984 (GEOLOGIE ET GEOPHYSIQUE), PROJET DODA, GROUPE BERTH-1, GROUPE CURE-2, GROUPE DROU-2, GROUPE GRAD-1		Ground MAG and EM surveys				1 conductor is identified (Mines Camchib property DROU-2)
DP 87-12	1987	MRN	GEOLOGIE DE LA REGION DE DU GUESCLIN - DISTRICT DE CHIBOUGAMAU	Geological mapping and sampling				Gab samples: 3.6 g/t Au 3.9 g/t Au	The grab samples were taken on the east side of the Opiwaca river immediately north of Lac Du Guesclin
GM 46013	1987	SOQUEM	PROGRAMME D'ECHANTILLONNAGE ET DE RECONNAISSANCE	Geological mapping and sampling			Rock samples: 121201-121437		

Report: number	Year	Company	Report: title	Geology	Geophysics	Drilling	Sampling	Result highlights	Notes
			GEOLOGIQUE, PROJET DU GUESCLIN						
GM 46200	1987	ECODIR INC	RESULTATS DES LEVES GEOPHYSIQUES AU SOL (EM-VLF ET MAG)		Ground MAG and VLF surveys				
GM 46716	1988	ECODIR INC	PROPERTY EVALUATION REPORT, DU GUESCLIN PROPERTY	Technical evaluation					
GM 45867	1987	CLAIMS GALLAHAN, CLAIMS ROSENBAUM	REPORT ON THE AIRBORNE GEOPHYSICAL SURVEY, EDWARD ROSENBAUM PROPERTY		Airborne MAG survey				
GM 47664	1988	CLAIMS CALLAHAN	REPORT ON THE HORIZONTAL LOOP-ELECTROMAGNETIC, MAGNETIC AND GEOLOGICAL SURVEYS ON THE PROPERTY OF EDWARD ROSENBAUM	Geological Mapping and sampling	Ground MAG and EMH survey		Grab samples: 2801-2824, 2843-2847, 2871-2875	2847: 2.35% Cu and 5.1 g/t Au 2809: 5.78 g/t Au	Outcrop 1, 2, 4 and 5 are located on the Ariane claims, outcrop 3 is located on the Margaret Nealon claims. Samples 2847 and 2809 are located on Outcrop 4 (see image P002 from GM47664)
GM 47663	1988	CLAIMS CALLAHAN	REPORT ON THE DETAILED TRENCHING AND SAMPLING PROGRAM, EDWARD ROSENBAUM PROPERTY	Geological mapping and sampling			Grab samples: 2309-2312, 2322-2336	2326: 3.3% Cu 2328: 8.84 g/t Au 2329: 10.88 g/t Au 2335: 11.9 g/t Au	outcrop 1,2,4 and 5 are located on the Ariane claims, outcrop 3 is located on the Margaret Nealon claims Sample 2328, 2329 & 2335 are located on Outcrop 4. Sample 2326 is located on Outcrop 5
GM 48477	1989	CLAIMS FERDERBER, CLAIMS MONASTESSE, CLAIMS ROSENBAUM	REPORT ON THE COMBINED AIRBORNE MAGNETIC AND VLF-ELECTROMAGNETIC SURVEY		Airborne VLF and MAG surveys				
GM 50352	1990	CLAIMS CHOUINARD,	REPORT ON THE DIAMOND	Geological Mapping		DDH: ROS-90-1	Grab samples:	Core samples : DDH ROS-90-1: 0.17 g/t	

Report: number	Year	Company	Report: title	Geology	Geophysics	Drilling	Sampling	Result highlights	Notes
		CLAIMS ROSENBAUM	DRILLING, MECHANICAL STRIPPING AND PROSPECTING, ROSENBAUM CLAIMS	and sampling		to ROS-90-3, ROS-90-10	7707, 7672-7683, 7654-7659	Au Grab samples: 7672: 0.24 g/t Au 7682: 0.18% Ni	
GM 51302	1991	CLAIMS ROSENBAUM	REPORT ON THE PROSPECTING, MECHANICAL STRIPPING, MAPPING AND SAMPLING PROGRAMS, GROUP 9 AND 10A PROPERTIES	Geological mapping and sampling			Grab samples: #0675, #7951-7952, #3321-3341	sample # 3337: 0.34 g/t Au & 2.25% Cu	
GM 50551	1991	CLAIMS ROSENBAUM	REPORT ON THE TOTAL FIELD MAGNETIC, VERTICAL GRADIENT MAGNETIC AND HORIZONTAL LOOP-ELECTROMAGNETIC SURVEYS, GROUPS 10 & 11 PROPERTY		Ground MAG, gradiometric and EMH survey				
GM 50446	1991	CLAIMS ROSENBAUM	REPORT ON THE TOTAL FIELD MAGNETIC, VERTICAL GRADIENT MAGNETIC AND HORIZONTAL LOOP ELECTROMAGNETIC SURVEYS, GROUP 9 PROPERTY		Ground MAG, gradiometric and EMH survey				
GM 51944	1991	CLAIMS SIMARD	RAPPORT TECHNIQUE, PROPRIETE DU LAC PAULINE	Geological Mapping and sampling	Beep mat		Grab samples: 37901-37965, 40787-40800	37946: 3% Cu 37955:1.4%Cu 37964:2.8% Cu 40788: 0.27 g/t Au	
GM 55078	1993	CLAIMS SIMARD	RAPPORT TECHNIQUE #2 , PROPRIETE LAC PAULINE	Geological Mapping and sampling			samples : EG93081001, EG93081501, EG9310061, 37851-37897, 47714-47715, 50034-50050	37860: 1.9% Cu 37871: 2.2% Cu & 1.1 g/t Au 37872: 1.25% Cu & 0.85 g/t Au 37897: 0.28% Cu & 0.18% Ni	
GM 52919	1995	CLAIMS ROSENBAUM	DIAMOND DRILL RECORD, ROSENBAUM PROPERTY			DDH: R-9-1, R-9-2 and R-9-		DDH R-9-2 : 0.78g/t Au /0.6m DDH R-9-3:	

Report: number	Year	Company	Report: title	Geology	Geophysics	Drilling	Sampling	Result highlights	Notes
						3		5,75 g/t Au & 4.16% Zn /1m 2.38 g/t Au /0.6m 0.47 g/t Au & 0,63% Cu /0.3m	
GM 55813	1996	MINES D'OR VIRGINIA INC	RAPPORT SOMMAIRE SUR L'INTERPRETATION DE LEVES ELECTROMAGNETIQUES E.M.H. MAXMIN II, PROPRIETE LAC PAULINE		Ground EMH survey				
GM 55812	1996	MINES D'OR VIRGINIA INC	RAPPORT DES TRAVAUX DE FORAGE, PROPRIETE LAC PAULINE			DDH: LP-96-01 and LP-96-02	core samples: 599051-599091		
GM 57987	1999	SOCIETE DE DEVELOPPEMENT DE LA BAIE JAMES	LEVE DE POLARISATION PROVOQUEE, PROPRIETE FENTON		PP survey				
GM 57977	1999	S D B J	RAPPORT DES TRAVAUX DE FORAGE, AOUT 1999, PROPRIETE FENTON			DDH: FE99-26		0.41 g/t Au / 0.7m	
GM 59765	2001	SOQUEM INC	RAPPORT DE QUALIFICATION, PROPRIETE WACHIGABAU, SECTEUR DE CHIBOUGAMAU	Geological Mapping and sampling			samples: 192301-192472		highest copper value, sample #192311: 2139 ppm Cu PGE assays: no good values
GM 62536	2004	FALCONBRIDGE LTEE	REPORT ON A HELICOPTER-BORNE TIME DOMAIN ELECTROMAGNETIC GEOPHYSICAL SURVEY		Airborne EM and MAG surveys				
GM 61780	2005	SOQUEM	RAPPORT D'EXPLORATION 2003-2004, SECTEUR LAC SHORTT,	Geological Mapping and sampling			samples: 22801-22814		highest copper value, sample # 22813: 3736 ppm Cu PGE assays: no good

Report: number	Year	Company	Report: title	Geology	Geophysics	Drilling	Sampling	Result highlights	Notes
			PROPRIETE WACHIGABAU						values
GM 62522	2006	FALCONBRIDGE LTEE	RAPPORT DE TRAVAUX STATUTAIRES, PROJET LEBEL-SUR-QUEVILLON / DESMARAISVILLE		airborne VTEM survey				A VTEM survey was conducted on property Du Guesclin-A-04-01, in order to survey MEGATEM target DUG-101. However, afterwards, the property was not chosen for drilling.

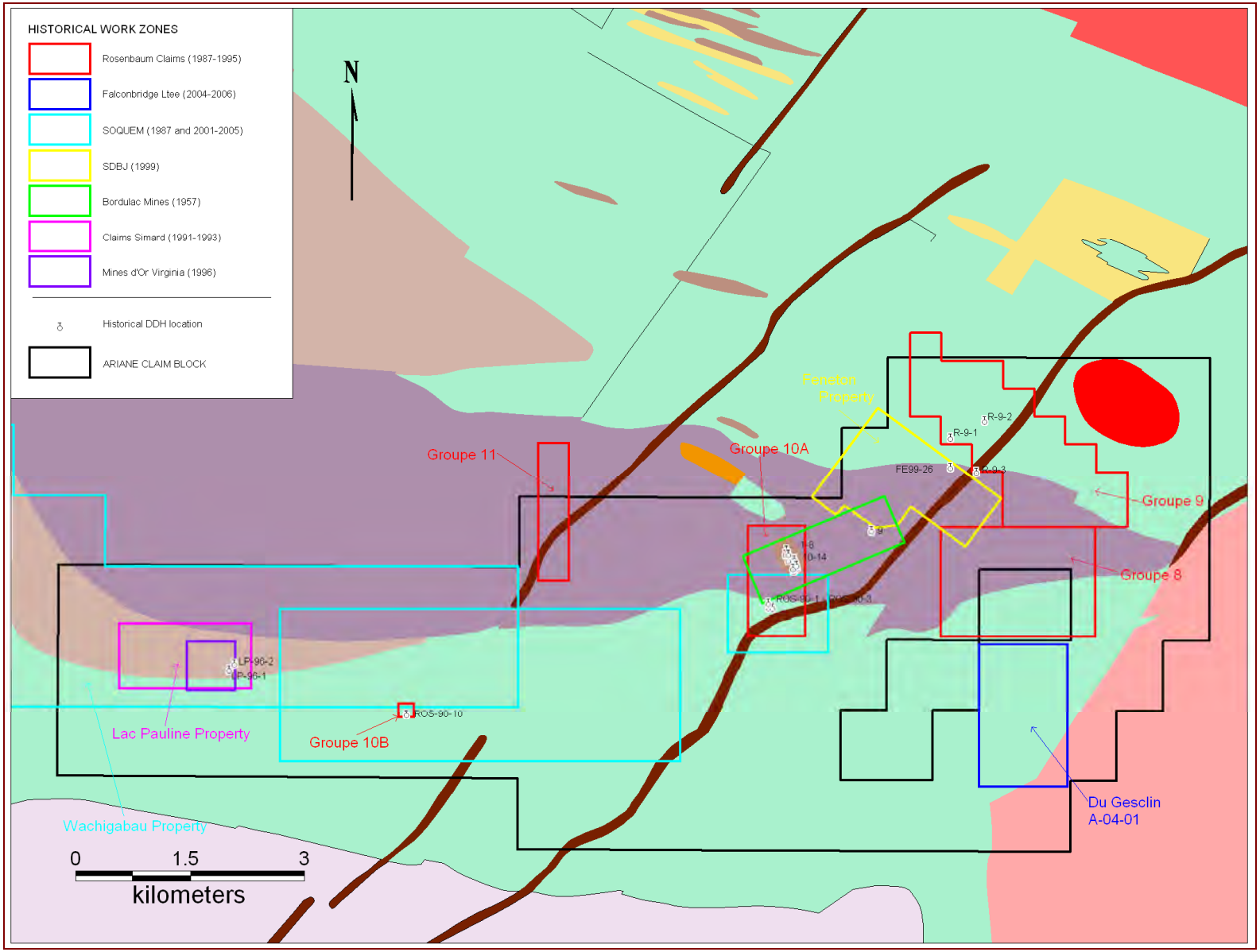

Figure 5: Historical works and drill holes on the Ariane property

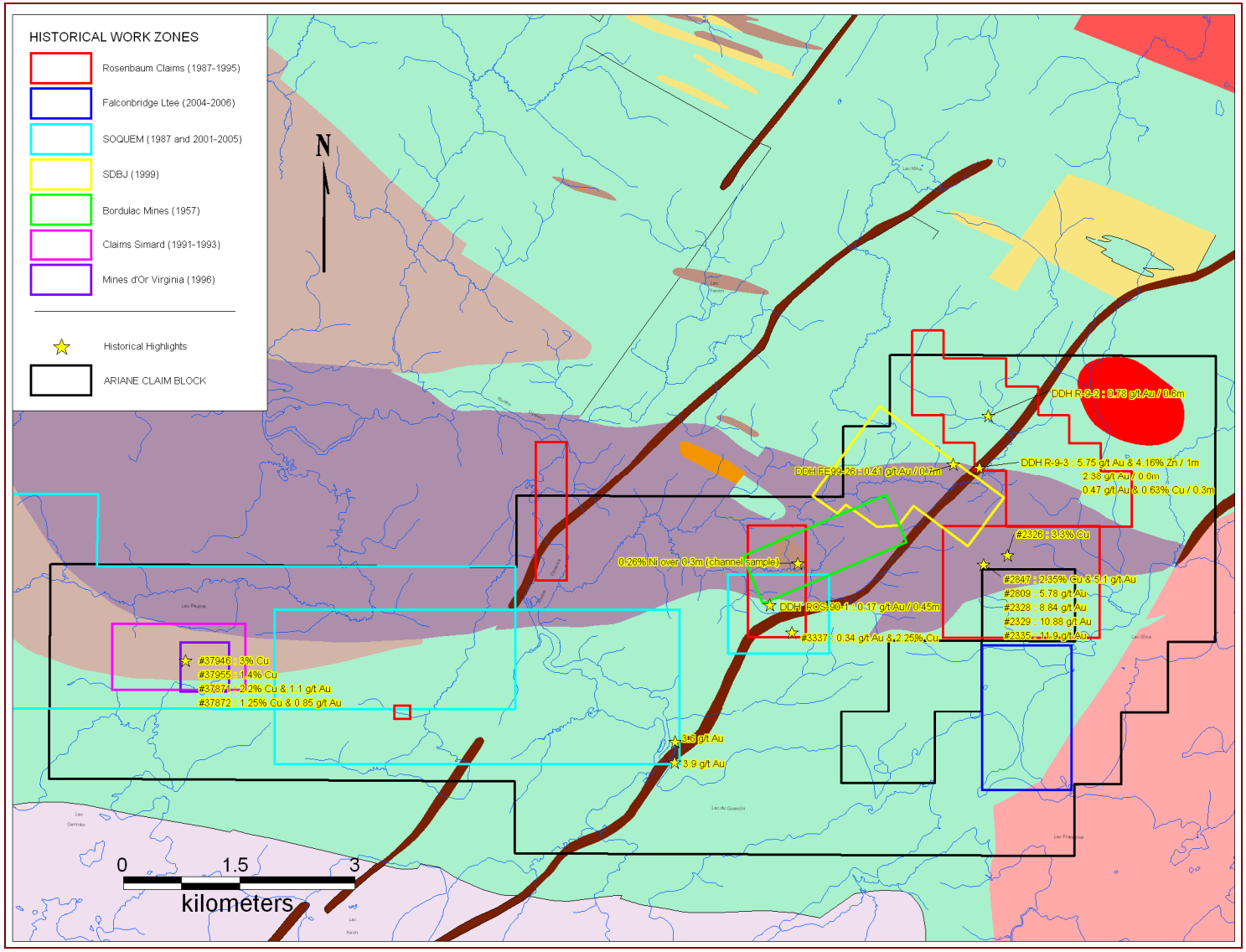

Figure 6: Historical mineralized intersections on the Ariane property.

Pale Green : Obatoganau basalt and felsic volcanics; Red : Rachel tonalite pluton; Pink : Granodiorite; Dark purple : Tonalite; Pale brown-purple : Gabbro-anorthosite Opawica complex.

8.3 Regional Occurrences & deposits

The Ariane property is surrounded by known mineral occurrences and deposits. The following deposits are all located within 35 km from the property (Figure 7):

- The Lac Fenton showing, located 1.5 km from Ariane property, was evaluated at 402 000 tonnes grading 5.01 g/t Au[1].

- The Mariposite deposit, located 25 km from the Ariane property, was evaluated at 518 000 tonnes grading 2.7 g/t Au[1].

- The Shortt Lake mine (abandoned), located 30 km from the Ariane property, produced 2 667 535 tonnes grading 4.34 g/t Au[2].

- The Zone Lemnac/Gand deposit, located 33 km from the Ariane property, was evaluated at 145 000 tonnes grading 5.14 g/t Au[1].

NOTE: The above are historic resources, not 43-101 compliant, obtained from the MRNF SIGEOM databases in 2008, the relevance and reliability of these historical estimates is questionable and are not necessarily indicative of the mineralization on the Ariane property.

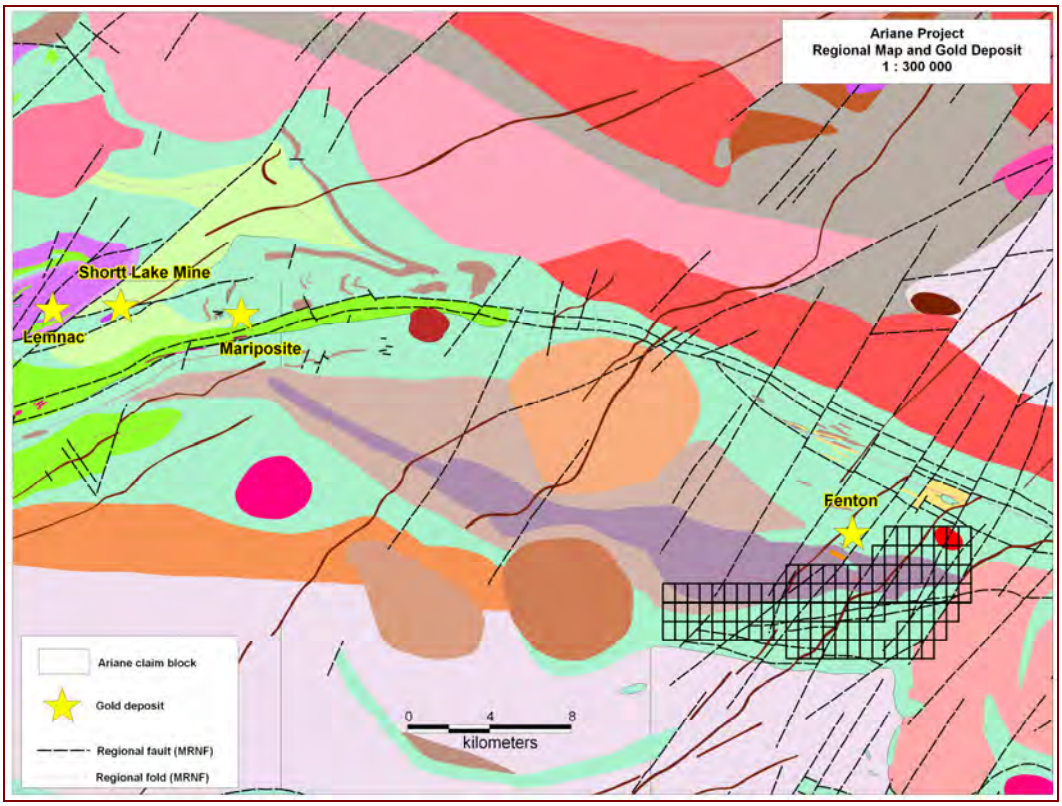

Figure 7: Gold deposits located in the Ariane property area.

[1] Ministère des Ressources Naturelles du Québec : SIGEOM database
[2] Natural Resources Canada : http://cgc.rncan.gc.ca/mindep/synth_dep/gold/greenstone/tables/appendix1_e.php

9.0 GEOLOGICAL SETTING

9.1 Regional Geology

The Ariane property lies within the southern Caopatina Segment of the NE Abitibi Archean greenstone belt (Figure 8). The Chibougamau-Matagami sequences form the northern half of the "Northern Volcanic Zone" of the Abitibi Subprovince as defined by Chown et al., (1992). The belt stretches for over 400 km, from the Kapuskasing structure to the Grenville front. The region is characterized by major 2.75 to 2.72 Gy WNW-trending volcanic and sedimentary segments intercalated with pre, syn and late-tectonic 2.72 to 2.65 Gy large plutonic or gneisso-plutonic complexes emplaced and deformed during or shortly after the major compressive/shortening Kenoran orogeny ca 2.7 Gy.

The Caopatina Segment is a volcano-sedimentary rock assemblage composed of two principal formations: the Obatogamau formation, a vast plain of tholeitic basalts with a few mafic to felsic volcanic centers, and the Caopatina formation, an overlying sedimentary sequence. These formations are part of the lower volcanic cycle of the Roy Group.

The Ariane property is located in the Obatogamau formation where numerous plutonic masses are recorded. Locally, stratification and schistosity observed within the volcanic rocks are moulded around theses pre to syn-tectonic intrusions.

9.2 Regional Structure & Metamorphism

Rocks from the Chibougamau-Matagami greenstone belt were deformed and metamorphosed by two orogenies. The Kenoran orogeny occurring ca. 2.7 Gy is a multi-phase regional deformation event that resulted in large E-W domes & basins structures and associated E-W, SE and NE regional fault systems. The NNE-trending regional fault system is much younger and related to the Grenville orogeny ocurring ca. 1 Gy.

Figure 8: Regional geological map of the Ariane property large area showing the main WNW-trending basaltic Caopatina segment located between the gneisso-plutonic Lapparent massif to the north and the Opawica plutonic belt to the south. Sequences are transected by the NE-trending Lamark fault to the west and the ENE-trending Gwillim fault in the Chapais area. After Goutier & Melançon (2010). Medium Green : Obatogamau basalt Fm, Pale Green : Intermediate felsic volcanics, Blue : late–Kenoran detrital Caopatina Fm, Red : syn-tectonic plutonic rocks, Pale Yellow : genissic complex, Medium Yellow : post-tectonic tonalitic pluton

The tectonic grain of the region is defined by a late phase of the Kenoran orogeny, considered to be the dominating tectonic event. This deformation phase, with a stress ($\sigma 1$) oriented N-S, provoked isoclinals folds, transposition and shears responsible for the predominantly E-W orientation of the stratification and associated schistosity. Corridors have preferentially absorbed the N-S stress to form E-W shear zones. The NE faults and the associated secondary faults are the result of a late phase of the orogeny. These faults crosscut older structures (stratification, schistosity, fold axis and E-W faults) and are the illustration of strike slip regional movement occurring towards the end of the orogeny (Figure 8).

The metamorphism of the belt reach greenshist grade, locally amphibolite facies near the Grenville front and along deformational corridors and intrusion margins.

9.3 Local geology

A good proportion of the Ariane property is underlain by massive and porphyritic basalts of the Obatogamau formation (Figure 9). The basalts surround tonalites and quartziferous diorites of the Opawica pluton. It has an elongated E-W shape, due to the regional deformation. The contact between basalts and the Opawica pluton is sheared (Tait and al., 1990). In the Lac Pauline area, in the west section of the property, the eastern extension of the Opawica River Complex is located along the south margin of the Opawica pluton.

The Opawica river igneous complex is a layered anorthositic intrusion located at the base of the Obatogamau formation (Chown et al., 1990). Like for the Lac Doré Complex, the Opawica River Complex is located on either side of a major structure, the Opawica anticline, the axis being occupied by a synvolcanic tonalitic intrusion, the Opawica pluton (Dion and Simard, 1999).

In the southeast of the Ariane property, the basalts of the Obatogamau formation are in contact with the La Tour pluton, a syntectonic granodiorite pluton. Furthermore, a small Archean tonalite stock is located in the NE corner of the property.

Finally, the Archean sequences are crosscut by NNE and NE-trending Proterozoic diabase dykes.

9.4 Local Structure

In the area the schistosity is subvertical and generally oriented ENE and EW. The regional axis of the Opawica anticline is located along the center of the Opawica pluton on the Ariane property (Figure 10). The property is located at a structural junction between the WNW-trending Opawica-Guercheville deformation corridor and an EW tributary structural zone relaterd to the Opawica anticline. The area is marked by strong magnetic anomalies (Figure 11)

Two regional ductile shear zones, parallel to local schistosity, are documented on the property. A series of NNE and NE faults are also present on the property and displace Archean sequences as well as late Kenoran structures.

Figure 9: Geological map of the Ariane property showing Archean Obatogamau basalts interstratified with metasediments, in contact with syn-tectonic tonalite and gabbro and crosscut by late Kenoran granodiorite.

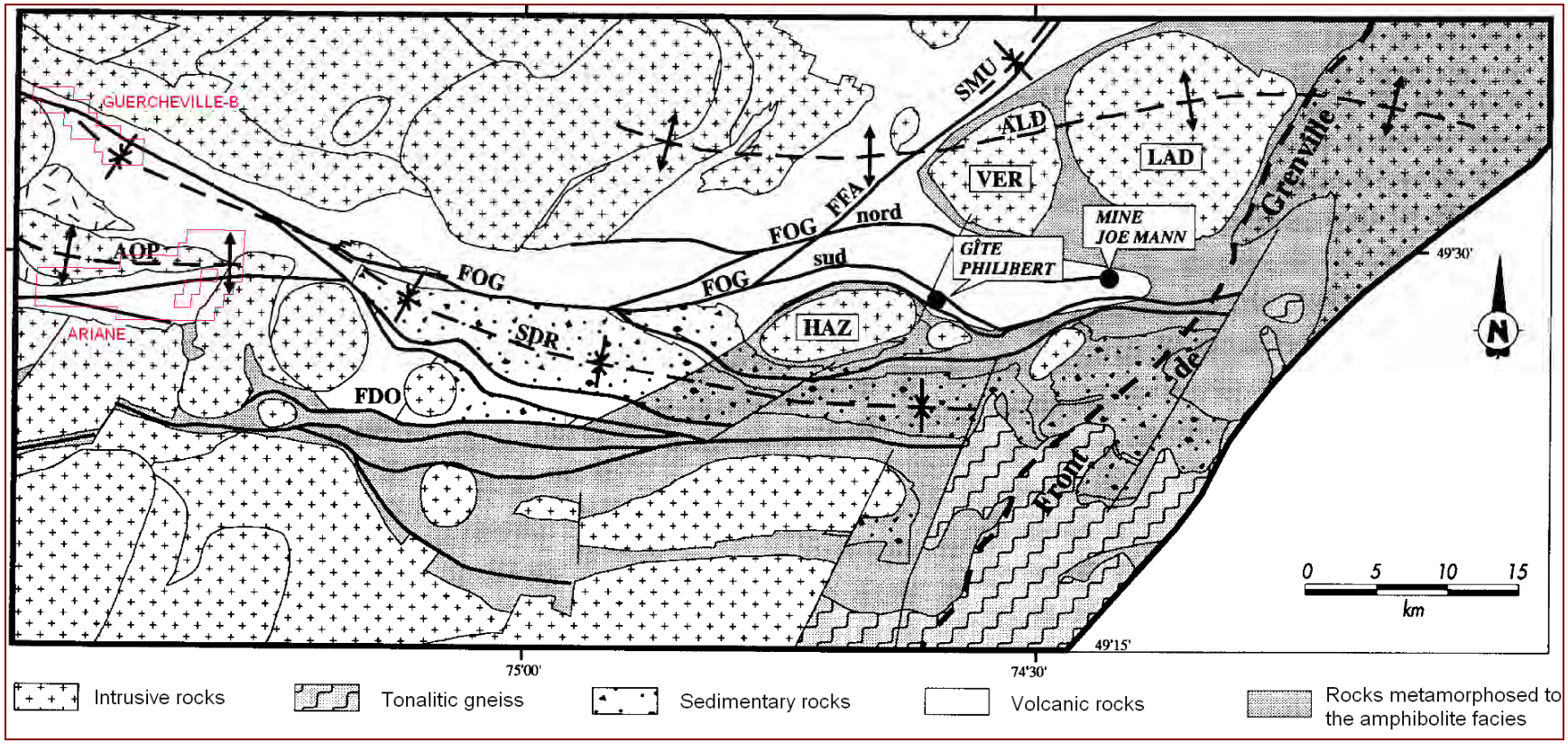

Figure 10: Regional structures in the Opawica Segment (after Dion and Simard, 1999). – FOG : Opawica-Guercheville Fault; FDO : Doda Fault; FFA : Fancamp Fault; SMU : Muscocho syncline; SDR : Druillettes syncline; ALD : La Dauversière anticline; APO : Opawica anticline; HAZ : La Dauversière pluton; VER : Verneuil pluton.

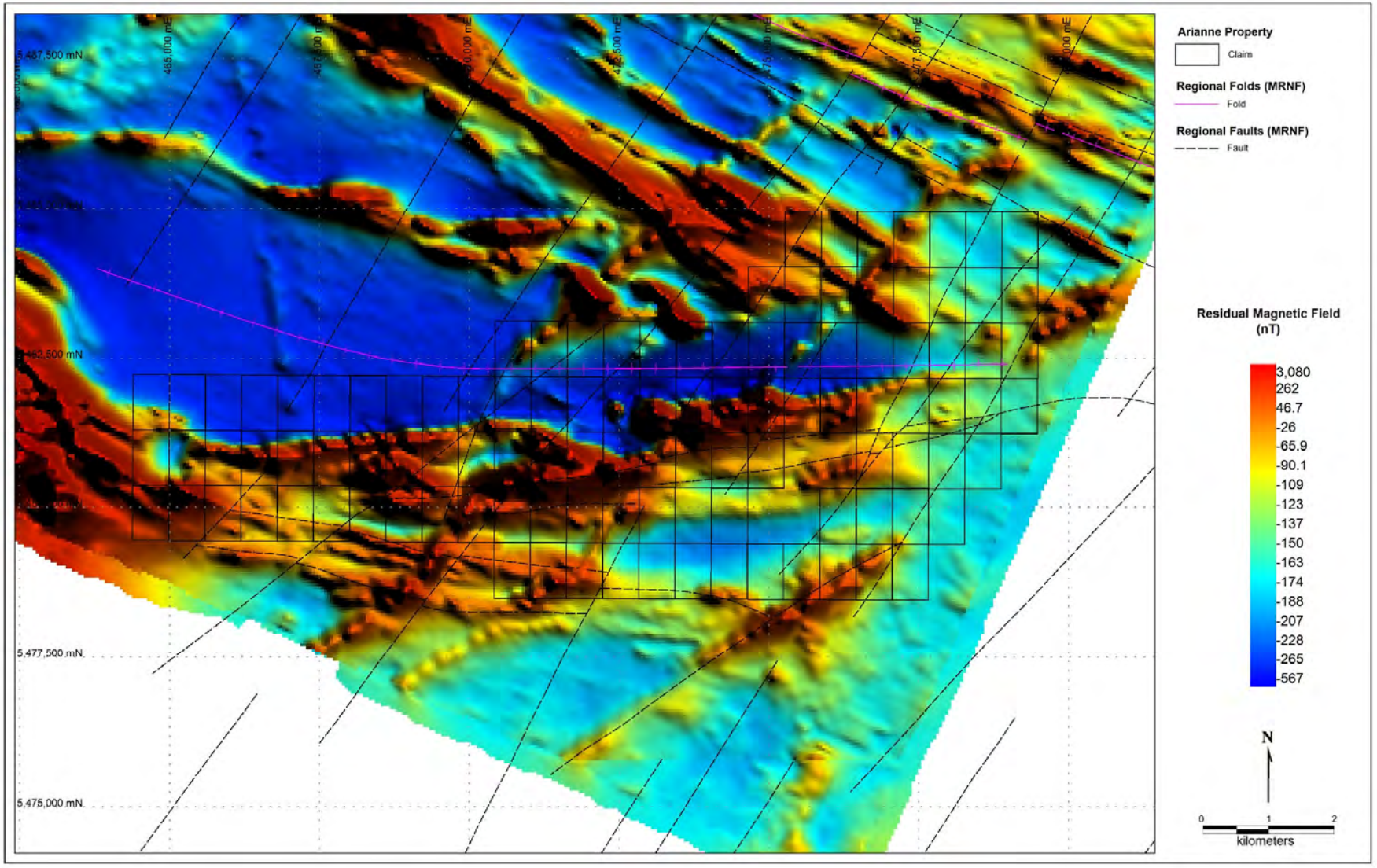

Figure 11: Residual Magnetic Field, on Ariane Property area showing junction between WNW and EW major structural trends.

10.0 DEPOSIT TYPES

The mining district of Chapais-Chibougamau has for long been known as "the shear zone hosted deposits region" and produced approximately 1.2M tons of copper, 3.7M oz of gold, 20.9M oz of silver, 115 000 kg of zinc and 4000 kg of lead (MB-96-14). The region is host to several types of deposits and showings within a wide variety of geological context.

The Caopatina Segment is host of the principal gold producing mine in the district, the Joe Mann mine. It is also host of two past producing gold deposits, the Lac Shortt mine and the Lac Bachelor mine, and of one past producing Zn-Pb-Ag deposit, the Coniagas mine (Figure 12).

Therefore the following sections present deposit types that are the most likely to be found on the Ariane property.

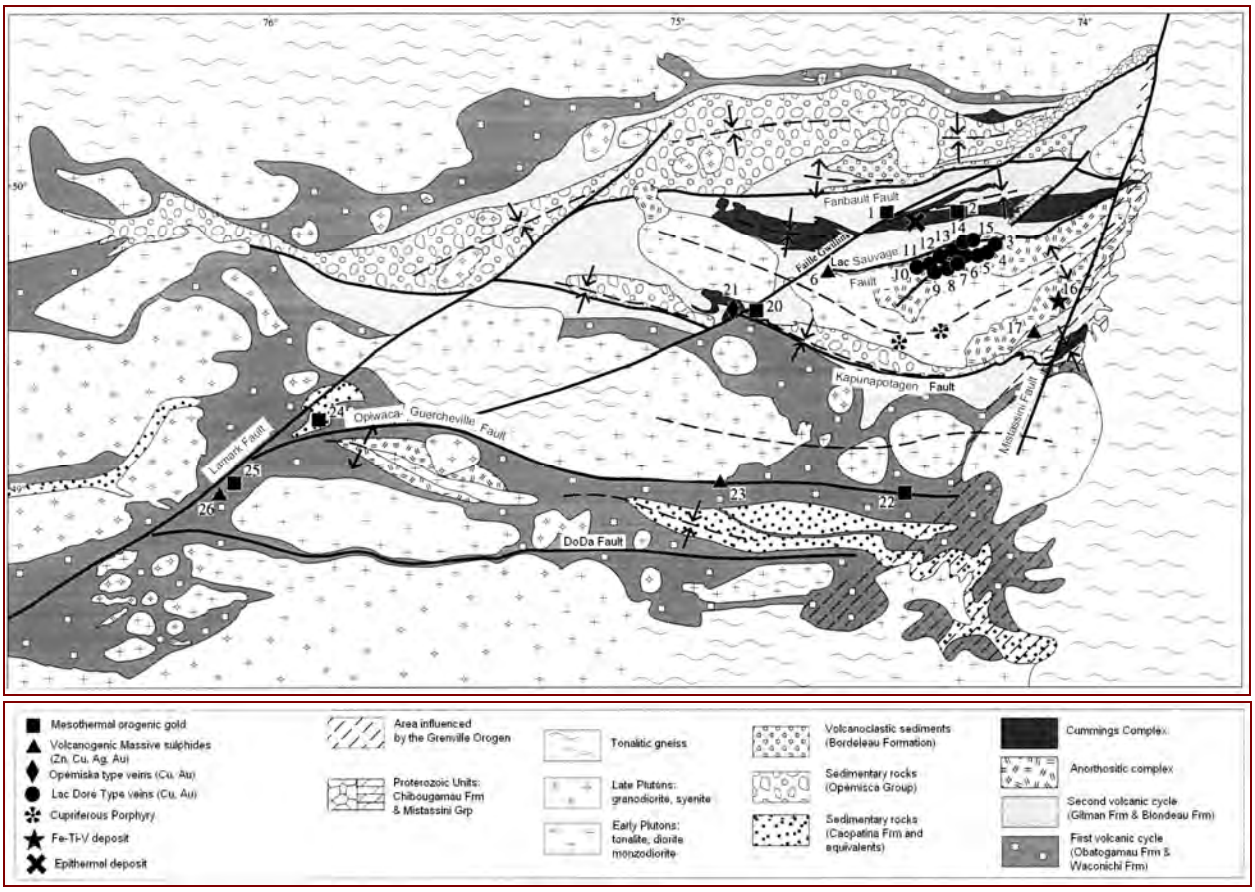

Figure 12: Geology and mineral deposits of the Chibougamau-Caopatina region (modified from Chown and al., 1990). 1: Gwillim mine; 2: Norbeau mine; 3: Portage mine; 4: Henderson mine; 5: Henderson II mine; 6: Bateman Bay mine; 7: Copper Rand mine; 8: Merill mine; 9: Campbell mine; 10: Obalski mine; 11: Kokko Creek mine; 12: Quebec Chibougamau mine; 13: Cedar Bay mine; 14: Copper Cliff mine; 15: Jaculet mine; 16: Vanadium showing; 17: Lemoine mine; 18: Delvin; 19: Queylus breccias; 20 Cooke mine; 21: Opemisca mine; 22: Joe Mann mine; 23: Lac des Vents showing; 24: Lac Shortt mine; 25: Bachelor mine; 26 Coniagas mine.

10.1 Mesothermal Orogenic Gold Deposits

Mesothermal orogenic gold deposits, also known as greenstone-hosted quartz-carbonate vein deposits, are structurally controlled, complex epigenetic deposits that are hosted in deformed and metamorphosed terranes. They consist of simple to complex networks of gold-bearing, laminated quartz-carbonate fault-fill veins in moderately to steeply dipping, compressional brittle-ductile shear zones and faults, with locally associated extensional veins and hydrothermal breccias. They are dominantly hosted by mafic metamorphic rocks of greenschist to locally lower amphibolite facies. Typically, the proximal alteration haloes are zoned and characterized , in rocks at greenschist facies, by iron-carbonatization and sericitization, with sulfidation of the immediate vein selvages (mainly pyrite) (Dubé and Gosselin, 2007).

Furthermore, the Lac Fenton showing, located 1.5 km north of the Ariane property, is an orogenic gold type deposit. The ESE orientation of shear zones and stratigraphy in the Lac Fenton system is the main difference with the Joe Mann deposit (Dion and Simard, 1999).

10.2 Porphyritic & Hydrothermal Cu-Au Mineralisation related to Plutonic activity

The Opawica River Complex and the Opawica pluton form together a very similar geological and structural context as the one formed by the Lac Doré Complex and the Chibougamau pluton in the Chibougamau mining camp. The Opawica River Complex and Lac Doré Complex are both anorthositic complexes of similar composition and texture (Midra and al., 1994). Both were deformed by the Kenoran orogeny, and were intruded by a synvolcanic tonalite-diorite pluton (respectively the Opawica and Chibougamau plutons). The main difference between the two is their respective size.

The Lac Doré Complex and the Chibougamau Pluton are host to two type of Cu-Au mineralization: porhyritic type and lode type.

- Cu-Au Porphyritic Type

The Cu and Cu-Au porphyry mineralisation generally corresponds to disseminated, veins and veinlets within a complex network of mineralised fractures and breccias. These structures are enclosed within or along the margins of intermediate to felsic granitoid masses (Pilote and Guha 1995). Porphyritic type mineralisation has been described in both the Lac Doré Complex and the Chibougamau pluton. However, no porphyritic type mineralisation has been reported to date in the Opawica River Complex or in the Opawica pluton. Nevertheless, this type of mineralisation remains a possibility considering the favourable geological context.

- Cu-Au Lode Type

Cu-Au lode type deposits are numerous within the Lac Doré Complex and are historically known as the “Chibougamau type mineralization”. These Cu-Au veins can be classified as

structurally controlled lodes resulting from hydrothermal activity. The sulfide mineralogy within these veins is dominated by chalcopyrite, pyrite and pyrrhotite. Gold is present as isolated grains associated with pyrite and chalcopyrite; unlike in orogenic type veins were the gold is free (Pilote and Guha 1995).

Structurally controlled Cu-Au veins have been described in a few showings within the Opawica River Complex. These quartz-sulfide veins are located in fractures and shears zones and show certain common points with the Cu-Au lode type deposit of the Lac Doré complex (Dion and Simard, 1999). The Lac Pauline showing on the Ariane property is a good example of this type of mineralization.

10.3 Mafic Volcanic hosted Zn ± Cu ± Au ± Ag Shear Zones

This type of mineral occurrence includes base metal showings for which the exhalative origin is not evident. These occurrences are generally associated with shear zones and crosscutting various lithologies (Dion and Simard, 1999). Many showing in the Ariane property area, a few of them located on the property, can be classified under this deposit type. However no economic deposit of this type has been discovered so far in the region.

11.0 MINERALIZATION

Exploration work performed during the summer of 2008 confirmed the presence of mineralization on historical showings, notably the Lac Pauline and the House zones, Table 3.

Table 3: Mineral occurrences found during the 2008 summer campaign.

Name	Property	Description	2008 Assay results
House	Ariane	Historical showing - pyrite disseminated in tonalite, and pyrite-malachite in quartz vein	Surface samples up to 0.26 g/t Au
Lac Pauline	Ariane	Historical showing - pyrite and chalcopyrite mineralization in shear zones and disseminated in gabbros and pyroxenite-gabbros	Surface samples up to 0.89% Cu, 6.5 g/t Ag, and 0.13 g/t Au

11.1 House Showing

The mineralization of the House showing is composed of disseminated pyrite and is hosted in sub-vertical E-W quartz veins and shear zones within tonalites of the Opawica pluton. Malachite has been described as part of the mineralization in a 5m long quartz vein is this area. The House showing is located 750m south of geophysical GRID 1 (A1) on the Ariane property.

11.2 Lac Pauline

The Lac Pauline mineralisation is hosted in gabbros, anorthositic-gabbros, pyroxenite-gabbros, and pyroxenites from the Opawica-River Complex. The mineralization at surface is dominantly composed of pyrite and minor chalcopyrite with, locally, trace amounts of magnetite and magnetic pyrrhotite. The sulfides are disseminated in the rocks of the Opawica River complex, and are concentrated as semi-massive lenses within sub-vertical E-W shear zones (Figure 14).

The best results obtained in the Lac Pauline mineralized zone are located within a series of E-W shear zones in an area of approximately 300 meters long by 15 meters wide (Figure 13).

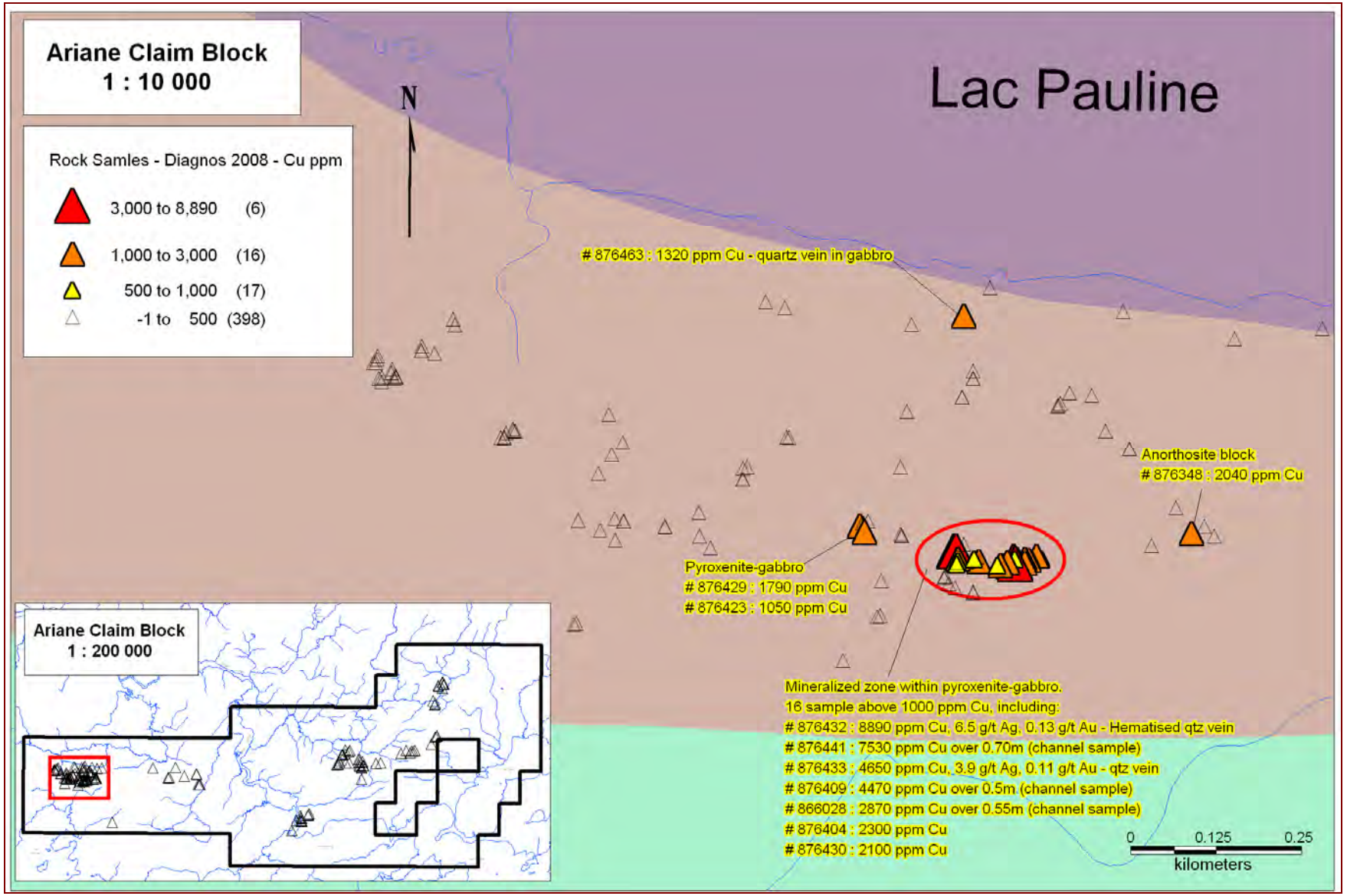

Figure 13: Assay results from Lac Pauline Area

Figure 14: Lac Pauline zone: mineralized E-W shear zones in pyroxenite/gabbro (above), disseminated sulfides in pyroxenite/gabbro (below)

12.0 EXPLORATION

In 2008, the exploration work performed on the Ariane property, includes ground induced polarization (IP) and infiniTEM surveys, and lithogeochemical sampling.

Table 4: Exploration work conducted on the Ariane property in 2008

Property	Lithogeochemistry		Geophysics
	Boulder	Outcrop	(Line-Km)
Ariane	7	213	33.56
Total	7	213	33.56

12.1 CARDS Targets

DIAGNOS used its proprietary Computer Aided Resource Detection System (CARDS) to target the mineral potential of the Abitibi Subprovince and generate copper and gold targets over several NTS map sheets in the Abitibi. Copper and gold targets within NTS map sheet 32G/06 and 32G/11, led to map staking of prospective ground, including claims of the Arinae property in 2006 which were later optioned and transferred to MAXTECH (Figure 15).

CARDS is a computer system used by researchers at DIAGNOS to identify areas with a high statistical probability of similarity to known areas of mineralization. The backbone of CARDS is the MCubiX-KE (Knowledge Extraction) data mining mathematical engine.

MCubiX-KE uses powerful pattern recognition algorithms to learn the signatures of positive and negative data points and create a model that can make predictions on the positive or negative nature of new data points. MCubiX-KE uses these algorithms to analyze digitally compiled exploration data and identify points (targets) with signatures similar to known areas of mineralization.

Data is entered into CARDS in the form of geo-referenced data points and images. Each point in the database is linked to its own set of characteristics that are extracted from the following sources :

- geological maps: rock type, alteration;
- geophysical surveys: total magnetic field, residual field, first derivative field, gravity;
- geochemical surveys: rock, soil, lake bottom, drill hole assays;
- sets of characteristics are calculated according to various models;
- proximity to mineral occurrences;
- proximity to mineralized drill holes;
- proximity to lithological contacts;

- proximity to specific intrusive suites;

- proximity to interpreted lineaments;

- proximity to mapped faults and shear zones.

Targets generated by CARDS should be evaluated in conjunction with all readily available geological data in the evaluation of the economic potential of a property as well as in the outlining of exploration and drill targets.

Note: high statistical probability refers to decision tree classification of targets zone signatures; it should not be viewed as high statistical probability of finding mineralization at a target zone.

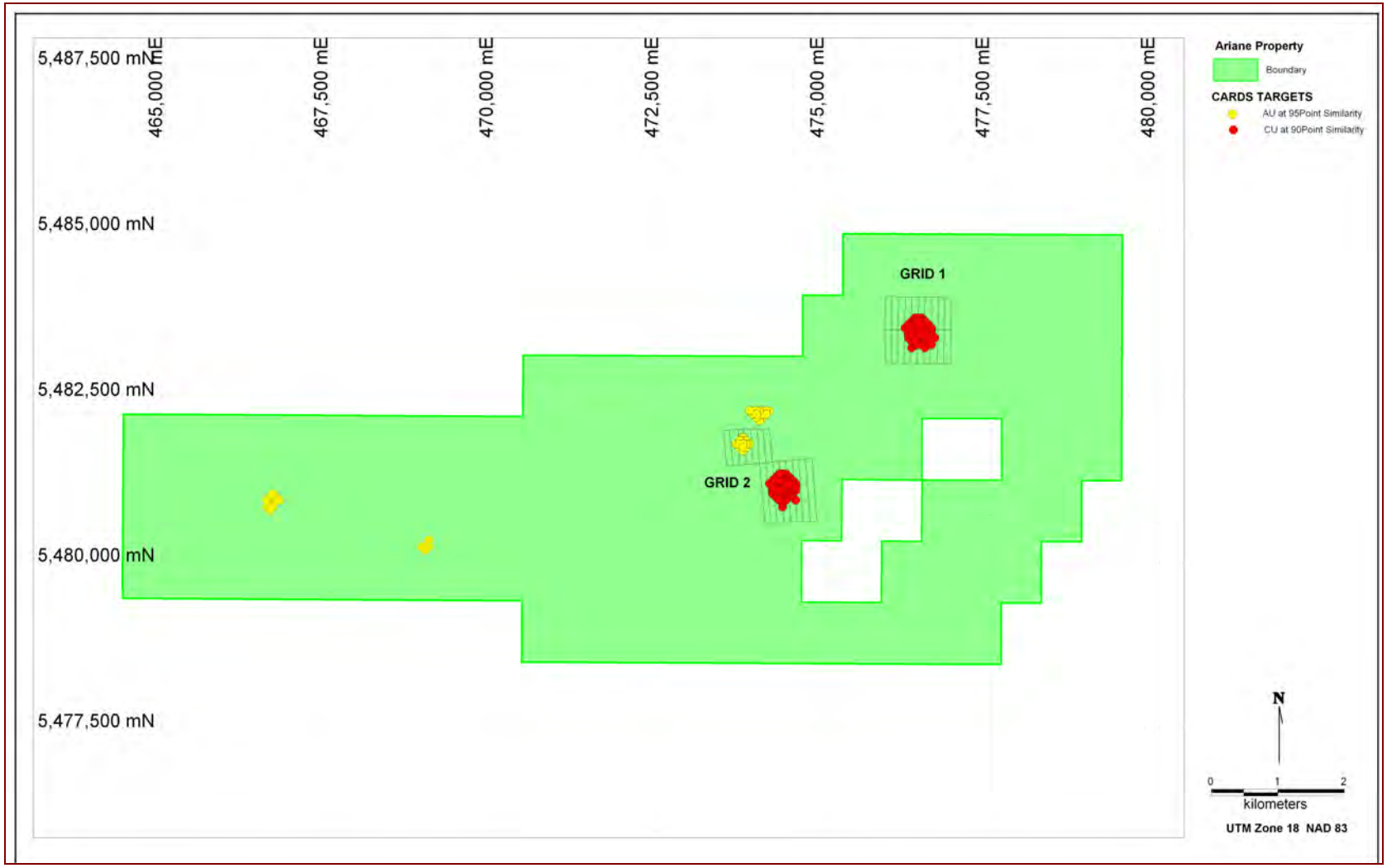

Figure 15: CARDS Targets and Geophysical Grids

12.2 Ground Geophysics

Several chargeability anomalies and conductors were identified in the course of the ground IP and infiniTEM surveys carried out by ABITIBI GEOPGHYSIQUES INC. in late 2007 and early 2008 on behalf of MAXTECH. These surveys were conducted on two cut grids at 100m (IP survey) and 200m (infiniTEM survey) line spacing for a total of 33.56 line-kilometres. The two (2) grids, located on the Ariane property (Figure 15), were positioned in order to survey the copper and gold targets generated by CARDS. ABITIBI GEOPGHYSIQUES INC. was commissioned to conduct the geophysical measurements along grid lines set up by B.J. Renaissance.

The report submitted by ABITIBI GEOPGHYSIQUES INC. is presented in Appendix II and the results are discussed and illustrated in section 12.4.1 of this report.

12.3 Lithogeochemical sampling

In the summer of 2008, MAXTECH conducted two fieldwork campaigns on the Ariane property. The first campaign took place from June 30th to July 13th, while the second took place from August 11th to August 24th. During these campaigns, a total of 201 grab samples and 19 channel samples were collected from boulders and outcrops (Figure 16), and delivered for analysis to ALS Chemex Laboratory in Val d'Or, Quebec.

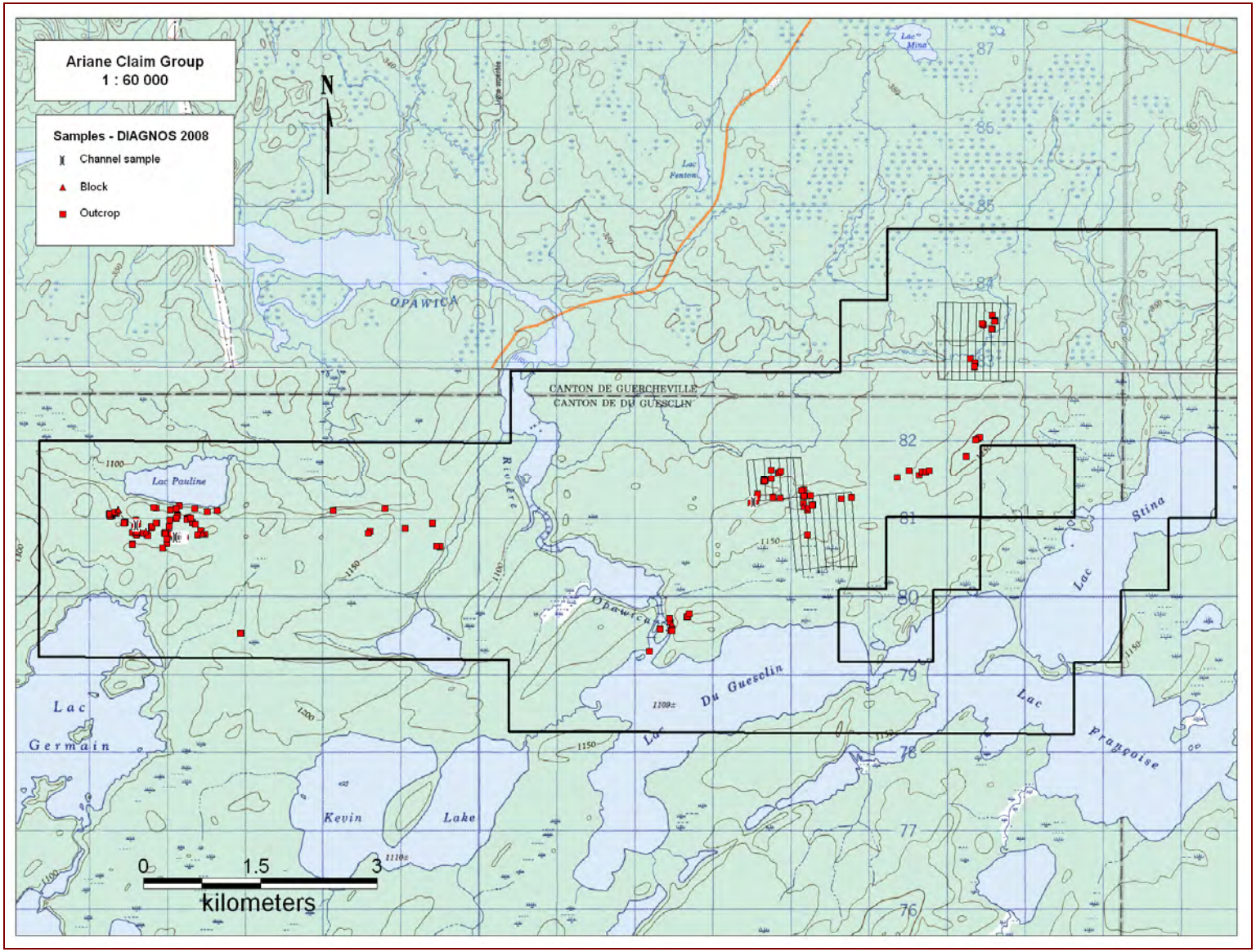

Figure 16: Ariane property – 2008 sample location

12.4 Results

12.4.1 Ground Geophysics

A total of nineteen (19) polarizable anomalous trends were compiled on the A1 grid (Grid 1) and twenty on the A2 grid (Grid 2) from the IP survey. One conductor (A2-EM01) was identified from the ground InfiniTEM survey and is located over the A2 grid.

On the A1 grid, the anomalous trends extend NW-SE and are probably caused by shallow sources. The most interesting targets (A1-02, A1-04 and A1-05) are characterized by the highest chargeability values among the overall of the interpreted anomalies. Their signatures are also associated with resistivity high. Therefore, their sources could be related to a quartz vein style mineralization. On the other hand, trends A1-07 and A1-12 are mostly represented by relatively lower chargeability values and they are embodied within a conductive background. Their signatures could be originated by disseminated to semi-massive sulphides. Thus, an enrichment of the content of sulphides could be related to the conductive areas.
Finally, trends A1-01, A1-05, A1-16 and A1-17 are located within a homogenous resistive background and their sources cannot be precisely defined (Figure 17).

On the A2 grid, the major features show that A2 grid is dominated by highly resistive values disrupted by E-W conductive zones. The chargeability shows a relatively homogenous background in the major portion of the surveyed grid. However, an anomalous chargeability area of unknown extension (A2-12), corresponds to high time constant values. The electrical response of A2-12 could mask the signature of A2-09. However, from the ground InfiniTEM survey, a good quality conductor was identified on lines 6+00E and 8+00E. Therefore, A2-09 could be a promising target. Following a meticulous comparison between the chargeability amplitudes and their resistive association, ABITIBI GEOPGHYSIQUES INC. concluded that A2-03, A2-04, A2-05 and A2-06 could likely be part of a single folded structure plunging towards the west and possibly outcropping towards the east. A2-02, A2-07 and A2-08 could also belong to a mayor folded structure. A2-03 and A2-04 are two closely spaced polarizable anomalies; prospecting and drilling would allow for a better geological understanding. Some polarizable anomalies are associated with high resistive values. These anomalies (A2-08, A-13, A-14 and A-15) are likely caused by quartz vein style mineralization. The most interesting targets (A2-03, A2-04, A2-05, A2-07, A2-08, A2-09, A2-11, and A2-18) do not present any resistive association (Figure 18).

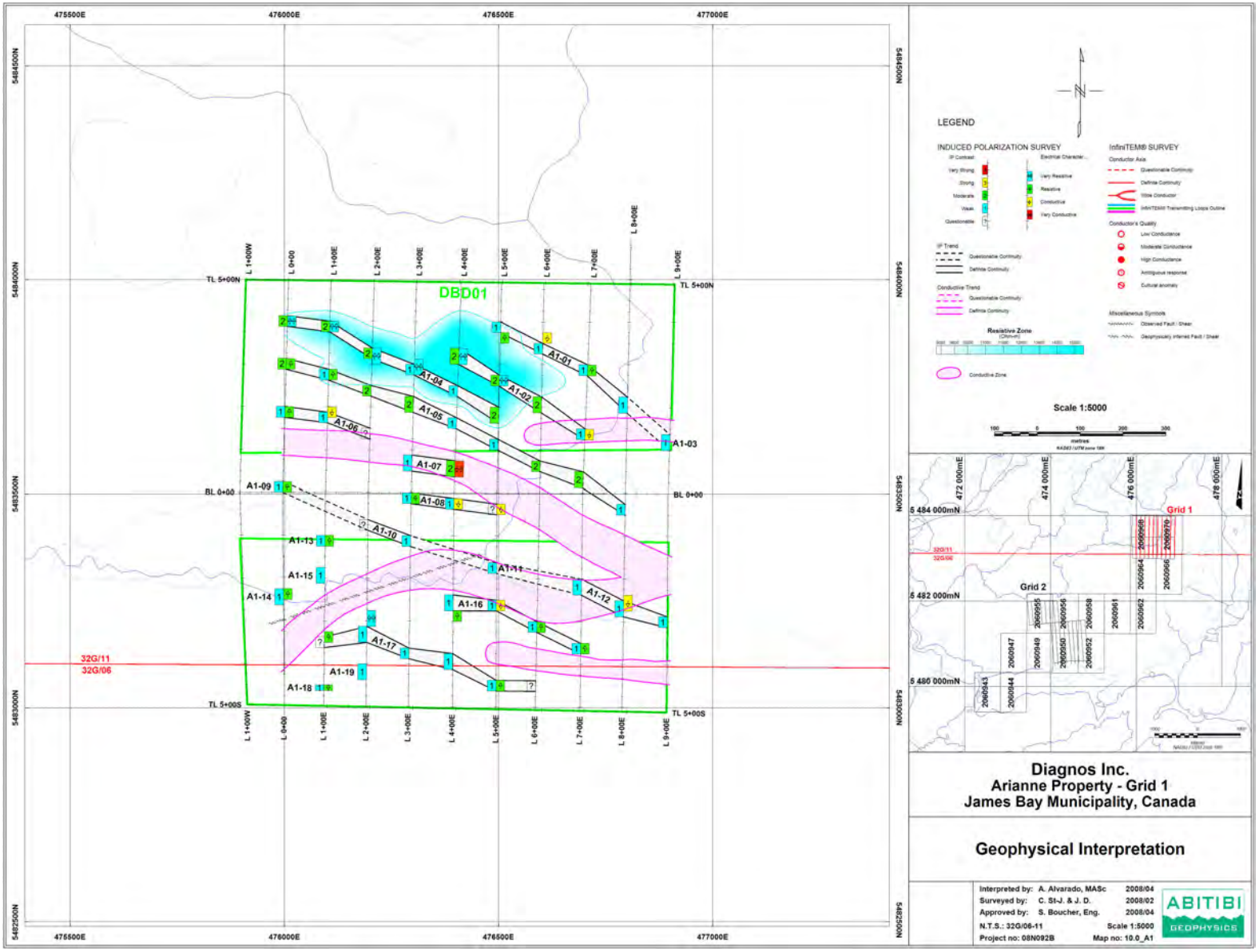

Figure 17: Grid A1 geophysical results & interpretation

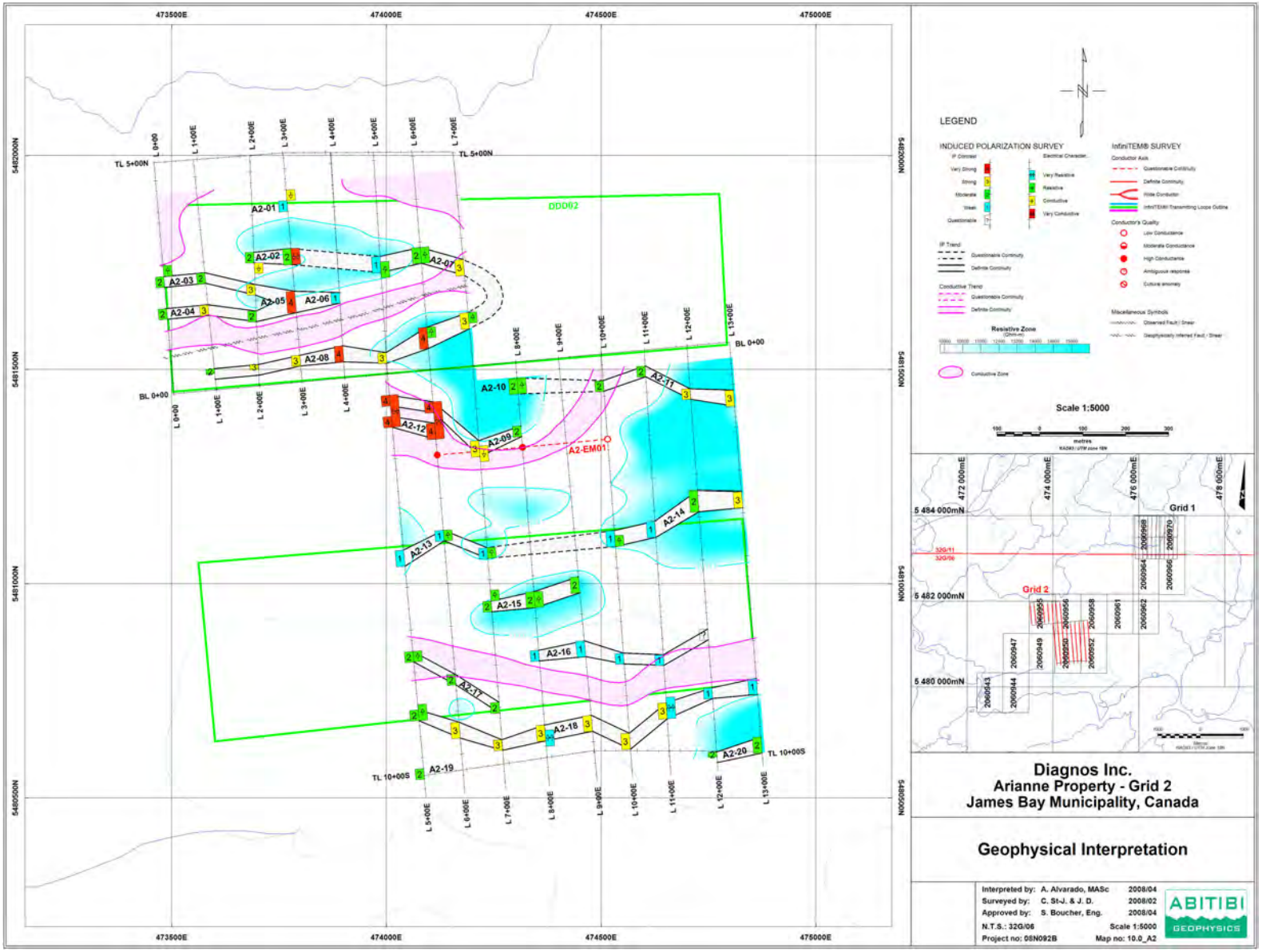

Figure 18: Grid A2 geophysical results & interpretation

12.4.2 Geochemical Results

The rock samples collected on the Ariane property were analysed for multi-element packages and for precious elements gold platinum and palladium. The 201 grab samples were taken from outcrops and occasional boulders, and the 19 channel samples were taken dominantly from outcrops located in the the Lac Pauline area. Overall, four (4) samples assayed above 0.1 g/t Au. Furthermore, in the Lac Pauline area, sixteen (16) samples assayed over 1000 ppm Cu and four (4) samples assayed over 4000 ppm Cu. Complete assays with standards and duplicates are listed in Appendix I.

Table 5: Lithogeochemical sampling results

Sample #	type	Au (ppm)	Ag (ppm)	Cu (ppm)	Length	Lithology	Area
876333	grab	0.26	1.1	745		Tonalite	House showing
876334	grab	0.21	1.3	786		Quartz vein	House showing
876432	grab	0.13	6.5	8890		Quartz vein	Lac Pauline
876411	channel	0.093	1.3	7530	over 0.7m	Pyroxenite-gabbro	Lac Pauline
876433	grab	0.11	3.9	4650		Quartz vein	Lac Pauline
876409	channel	0.096	1.7	4470	over 0.5m	Pyroxenite-gabbro	Lac Pauline

12.4.3 Results Discussion

On the Ariane claims, two hundred and twenty (220) rock samples (grab & channel samples) were collected within mafic volcanic rocks, quartz veins, pyroxenite-gabbro, gabbro, pyroxenite, anorthosite and tonalite. Quartz veins in sheared basalt revealed to be the most favourable hosts for mineralization.

Quartz vein samples returned the highest values for Cu. The mineralized units consists of N-S quartz veins intruded in rusty pyroxenite-gabbro, mineralization is found as clasts and disseminated sulfides. Samples of quartz vein had up to 15% Py : assays returned values up to 0.13 g/t Au, 6.5 g/t Ag, 8890 ppm Cu and 0.11 g/t Au, 3.9 g/t Ag, 4650 ppm Cu (Table 5 and Figure 13).

The Lac Pauline area is underlain by the Opawica River Complex (gabbro, anorthosite, pyroxenite). Locally sheared pyroxenite-gabbro is associated with semi-massive sulfide lenses. Mineralization consists of up to 10% Py, and 4% Cu and 2% Mag: assays returned values up to 7530 ppm Cu over 0.70m and 4470 ppm Cu, 0.096 g/t Au, 1.7 g/t Ag over 0.50m.

The house showing area consists of E-W sheared tonalite crosscut by E-W quartz veins. Mineralization consists of up to 2% Py, 2% chlorite and 2% malachite: assays returned values up to 0.21 g/t Au, 1.3 g/t Ag, 786 ppm Cu and 0.26 g/t Au, 1.1 g/t Ag, 745 ppm Cu.

Sampling within basalt, gabbro, anorthosite and pyroxenite outside the main targeted zone revealed no anomalous values.

13.0 DRILLING

No drilling has been performed on the Ariane property in the course of the present report.

14.0 SAMPLING METHOD & APPROACH

Lithogeochemical samples were collected in the course of geological mapping transects, either from outcrops or boulders. A sample description and the site location, obtained from a handheld GPS, were noted on a pre-numbered sampling booklet provided by ALS Chemex Laboratories. Sample descriptions include lithology, structural measurements, mineralogy, mineralization and alteration. The sampling site was flagged and clearly marked in the field with the sample number for eventual future visits.

15.0 SAMPLING PREPARATION, ANALYSES & SECURITY

All rock samples were kept under lock until hand delivered for analysis to ALS Minerals in Val d'Or, Quebec.

Rock samples were prepared at ALS Minerals laboratory in Val d'Or according to well established and secure protocol. The analytical methods favoured are as follows:
- ICP-AES for base metals and other elements of more general geochemical interest, following the Four-Acid "Near Total" Digestion Geochemical Procedure ME-ICP61. Followed by Procedure Cu-OG62 for samples containing higher copper values.
- 30g fire assay and ICP-AES finish for precious elements gold platinum and palladium, using Geochemical Procedure PGM-ICP23.

ALS Minerals is a well-known reputable laboratory that meets international standards for geochemical analysis. ALS Minerals has developed and implemented at each of its locations a Quality Management System (QMS) designed to ensure the production of consistently reliable data. The system covers all laboratory activities and takes into consideration the requirements of ISO standards.

The QMS operates under global and regional Quality Control (QC) teams responsible for the execution and monitoring of the Quality Assurance (QA) and Quality Control programs in each

department, on a regular basis. Audited both internally and by outside parties, these programs include, but are not limited to, proficiency testing of a variety of parameters, ensuring that all key methods have standard operating procedures (SOPs) that are in place and being followed properly, and ensuring that quality control standards are producing consistent results.

Perhaps the most important aspect of the QMS is the process of external auditing by recognized organizations and the maintaining of ISO registrations and accreditations. ISO registration and accreditation provides independent verification for our clients that a QMS is in operation at the location in question. Most ALS Minerals laboratories are registered or are pending registration to ISO 9001:2008, and a number of analytical facilities have received ISO 17025 accreditations for specific laboratory procedures.

The Val d'Or, Quebec, Canada analytical facility has received accreditation to ISO/IEC 17025:2005 from the Standards Council of Canada (SCC) for the following methods:

- Fire Assay Au by Atomic Absorption (AA) and Au by gravimetric finish.

Quality control samples including certified reference materials, blanks, and duplicates are inserted within each analytical run. The blank is inserted at the beginning, standards are inserted at random intervals, and duplicates are analyzed at the end of the batch. If any data for reference materials, duplicates, or blanks falls beyond the control limits established, it is automatically flagged red by the computer system for serious failures, and yellow for borderline results. The Department Manager conducting the final review of the Certificate is made aware that a problem may exist with the data set. Every batch of samples analyzed has a dual approval and review process. The individual analytical runs are monitored and approved by the analyst. The final work order has a second and very detailed review prior to final work order approval and certification.

It is the author's opinion that the sample preparation, security and analytical procedures used by ALS Minerals are adequate and that the results should be considered as reliable.

16.0 DATA VERIFICATION

For quality control purposes, commercial rock assay standards, duplicate field samples and blank samples were added to submitted rock samples by MAXTECH. The following table (Table 6) shows the results of the 13 commercial standards and 5 blank samples which were submitted.

Table 6: Standard material submitted for analysis

						Variance to standard value	
Sample #	Material	Reference	Au ppm	Cu ppm	Cu %	Au ppm	Cu %
866016	Standard	Oreas 54 Pa	2.65	>10000	1.48	0.250	0.070
876400	Standard	Oreas 54 Pa	2.89	>10000	1.54	0.010	0.010
876201	Standard	Oreas 54 Pa	2.73	>10000	1.53	0.170	0.020
866038	Standard	Oreas 15 Pa	0.678			0.342	
876230	Standard	Oreas 15 Pa	1.035			0.015	
794496	Standard	Oreas 15 Pa	0.975			0.045	
876335	Standard	Oreas 18Pb	3.29			0.340	
876474	Standard	Oreas 18Pb	3.06			0.570	
876127	Standard	Oreas 18Pb	0.007			3.623	
876410	Standard	Oreas 50Pb	0.884	6730		0.043	0.071
876021	Standard	Oreas 50Pb	0.852	1		0.011	0.774
794383	Standard	Oreas 50Pb	0.786	6720		0.055	0.072
876447	Standard	Oreas 4Pb	0.045			0.004	
866027	Blank		0.004	5			
876343	Blank		0.002	-1			
876428	Blank		0.005	7			
876453	Blank		0.005	7			
794393	Blank		-0.001	1			

It should be noted that sample # 876127 exceeds the tolorance limits. However, ALS Minerals was never asked to explain or re-assay any samples in order to identify the nature of the failure. Therefore, further analysis and check assays should be carried out in order to ensure the integrity of the conducted geochemical program.

The author has not taken any additional data verification action. The verification conducted by MAXTECH was judged to be adequate.

17.0 ADJACENT PROPERTIES

A total of 23 claims are directly adjacent to the property, all of them are located in the northeast corner and western edge of the Ariane claim block. Land area northwest and south of the claims remain open for staking.

Those 23 claims adjacent to the property are held by five (5) different companies or individuals: RESSOURCES GEOMEGA INC., JUNITA TEDY ASIHTO, SOQUEM INC., NATIVE EXPLORATION SERVICES and SAM R. BOSUM and may be part of larger claim groups or properties operated by each of the previously mentioned companies or individuals. The above information was acquired from the MRNF GESTIM public application available online through the MRNF website.

No information is available to the author on any exploration work currently being carried out on these claims.

18.0 MINERAL PROCESSING AND METALLURGICAL TESTING

No mineralogical processing or metallurgical testing has been carried out on the Ariane property samples.

19.0 MINERAL RESOURCE AND MINERAL RESERVE ESTIMATES

No mineral resource or mineral reserve estimates were performed using the Ariane property asssay results.

20.0 OTHER RELEVANT DATA INFORMATION

The authors are not aware of any other relevant data or information concerning the present report.

21.0 INTERPRETATION AND CONCLUSION

Since 1949, the area of the Ariane property has seen several exploration programs: work included airborne and ground geophysical surveys, geochemical surveys, geological mapping, rock sampling and drilling.

In 2006, DIAGNOS used, its proprietary Computer Aided Resource Detection System (CARDS) to target the mineral potential of the Abitibi subprovince and generated targets covering several NTS map sheets in the Abitibi region. Copper and gold targets within areas

cover by NTS map sheet 32G/06 and 32G/11 led to map staking of prospective ground, including claims of the Ariane property which were later optioned and transferred to MAXTECH.

In 2008, ABITIBI GEOPGHYSIQUES INC. performed ground geophysical (IP, infiniTEM) surveys over selected areas previously identified by CARDS. The survey led to the recognition of new anomalies which were followed up by reconnaissance exploration programs, but remain to be drill tested.

Field exploration on the Ariane property conducted by DIAGNOS on behalf of MAXTECH, in the summer of 2008, consisted primarily of prospecting and rock sampling. A total of 220 mostly grab and channel rock samples from outcrop were collected and sent for assays.

Samples collected by during the 2008 field program, display the following assays :

4 samples above 0.1 ppm Au

18 samples above 1 000 ppm Cu

4 samples above 200 ppm Mo

6 samples above 150 ppm Co

23 samples above 12 % Fe

Copper-rich sulfide lenses, gold-copper veins and gold veins mineralization on the Ariane property occurs in E-W sheared horizons as well as N-S veins in the Lac Pauline area. Sheared horizons are 0.10m to ~1m wide and laterally extend over 300m.

The mineralization consists of variable amounts of Po, Py, and Cp occurring largely within the E-W shears in pyroxenite / pyroxenite-gabbro. Sulfides are generally semi-massive lenses near shear zones, more or less disseminated within mafic units; sulfide mineralization within quartz veins is more disseminated and occasionally occurs as centimetre size clasts.

Quartz veins and semi-massive sulfide lenses are the main host to the Au-Cu mineralization with grades varying from 0.1 ppm to 3.96 ppm Au, from 745 ppm to 8890 ppm Cu and from 1.1 ppm to 6.5 ppm Ag. Alteration associated with mineralization is primarily silicification, chloritization and hematisation.

The Ariane claims show great potential for Au & Cu mineralization based on historical and the 2008 results. The following points should also be taken into consideration:

- Lac Pauline area

In 1991-1993, Claims Simard carried out a trenching and sampling. The highest grading sample for copper is sample #37946 (3% Cu), and the highest grading sample for gold is sample # 37871 (2.2% Cu & 1.1 g/t Au) (Figure 5). (GM 51944, GM 55078)

Diamond drill holes date back to 1996 in Lac Pauline area.

There have never been drill holes in the main mineralized zone of Lac Pauline area, to evaluate the Au-Cu potential.

Only two (2) drill hole have been done in 1996 by Virginia, 350m east of the main mineralized zone in the Lac Pauline area. (MRNF: GM 55812, GM 55813)

Ground geophysical surveys date back to 1996 in the Lac Pauline area.

No work has been done on deeper penetrating ground geophysical surveys to better delineate mineralization at depth.

Within and outside the Ariane claim limits, little work has been done to find lateral along-strike extensions to mineralization or additional sub-parallel mineralized horizons.

Mineralization is commonly associated with N-S quartz veins and semi-massive sulfide lenses near sheared zones in pyroxenite-gabbro, and yet the extent and location of these quartz veins and semi-massive sulfide lenses units is very poorly defined within and outside the Ariane claims.

In view of these considerations, the Ariane claims should be maintained; the property and surrounding region warrants additional work.

The purpose of this report was to present and assess the Ariane property for gold and copper mineralization, in relation with the recent and historical exploration work, the conducted ground geophysics and the different zones identified by DIAGNOS as favourable using CARDS prediction system in 2006. Therefore, the author believes that the completed project met all of its original objectives.

22.0 RECOMMENDATIONS

Although a first phase field exploration program on the Ariane property did reveal Au and Cu anomalous mineralization, the gold and copper potential of the property has not been fully evaluated.

Recommendations for the Ariane property consist of a work program comprising two (2) phases, with Phase II conditional upon the results of Phase I.

Phase I:

a) - Ongoing compilation and integration of geological reports, drilling reports, geophysical ground and recent airborne surveys and satellite pictures, including data from adjacent properties.
- Ground IP & EM surveys over designated areas (Lac Pauline)

b) - Field follow up of the identified conductors and anomalies from the ground geophysical surveys, in order to identify surface mineralization and structures.
- A detailed analysis of the acquired Phase Ia information should be performed in order to re-evaluate the mineralogical potential of the property and delineate the appropriate locations and orientations of potential drill holes.

Phase II:

a) - Diamond drilling of targets established in Phase Ib.

b) - Based on the results obtained during the diamond drilling, a decision should be made about proceeding with additional drilling.

The following represent the estimated costs of the recommended program to be used for the project:

	man/days - qty	Rate	Totals
PHASE Ia			
Ongoing Compilation and integration			
Digitalized historical drill holes logs	10	$ 750.00	$ 7,500.00
Geological and structural models based on available information	5	$ 750.00	$ 3,750.00
Ground geophysical surveys			
Line cutting / re-opening (line/km)	40	$ 350.00	$ 14,000.00
IP survey (line/km)	40	$ 1,500.00	$ 60,000.00
EM survey (line/km)	40	$ 1,900.00	$ 76,000.00
		TOTAL PHASE Ia	$ 161,250.00
PHASE Ib			
Preliminary prospecting			
Geochemical sampling of identified conductors & anomalies	14	$ 750.00	$ 10,500.00
Assays (rock & soil samples)	100	$ 50.00	$ 5,000.00
Definition of drilling targets			
Detailed geochemical/structural/geophysical analysis	10	$ 750.00	$ 7,500.00
Delineation of location and orientation of potential drill targets	5	$ 750.00	$ 3,750.00
		TOTAL PHASE Ib	$ 26,750.00
		TOTAL PHASE Ia & Ib	**$ 188,000.00**
PHASE IIa			
Diamond drilling (m)	2000	$ 300.00	**$ 600,000.00**
PHASE IIb			
Evaluation of Phase IIa drilling program	10	$ 750.00	**$ 7,500.00**
		TOTAL PHASE IIa & IIb	**$ 607,500.00**
		TOTAL Phase I & II	**$ 795,500.00**

* All of the above costs are **ESTIMATED** and are subject to change

23.0 REFERENCES

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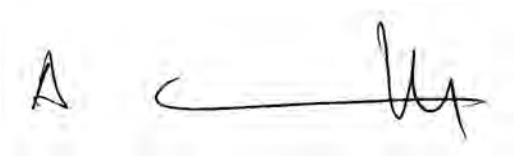
24.0 DATE AND SIGNATURE

Report Title: Technical Report on the Ariane Property

Signed in Montreal

This 18th of February 2011



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Tel : 514 544 9741

CERTIFICATE OF AUTHOR

I, Andre Ciesielski, P. Geo. do hereby certify that :

I am a Canadian citizen, living at 1777 Du Manoir Av., Montreal, H2V 1B7, Qc, Canada ; telephone : 1 514 544 9741; e-mail : ancies@videotron.ca

I have a bachelor degree in geology from Université de Montréal (BSc. geol) a DEA and a Doctorat (3e) from "Université Pierre et Marie Curie" (Paris VI) (DEA, and DSc. geol).

I am a geologist member of "L'Ordre des Géologues du Québec" under # 514.

I have performed geological works, studies and reports in eastern and western Abitibi, mostly for gold and base metals and made numerous field trips in the Abitibi belt.

I have read the definition of "qualified person" set out in National Instrument 43-101 (NI 43-101) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.

I am responsible for the preparation of the Report titled

"Technical Report on the Ariane Property" dated February 18th 2011, Revised September 1st 2011.

I have visited the property on August 18 and 19, 2010 to complete this report.

I have not had prior involvement with the property that is the subject of this Technical Report.

I am not aware of any material fact or material change with respect to the subject matter of this Technical Report that would make it misleading.

I am independent of the issuer applying all of the tests in Section 1.4 of National Instrument 43-101.

I have read National Instrument 43-101 and Form 43-101F1 and the technical Report has been prepared in compliance with that instrument and form.

I consent to the filing of the Technical Report with any stock exchange and other regulatory authority and any publication by them for regulatory purposes, including electronic publication in the public company files or on their websites accessible by the public, of the Technical Report.

This February 18th 2011, André Ciesielski, P. Geol.

_____

Certificate of Author

Report Title: "Technical Report on the Ariane Property" dated February 18th 2011, Revised September 1st 2011

I, Jean-Philippe Mai, residing in St-Bruno-de-Montarville, Québec, Canada do hereby certify that:

1. I am Project Manager with the firm of DIAGNOS inc. with an office at Suite 340, 7005, Taschereau Boulevard, Brossard, Québec, Canada;
2. I am a graduate of Université du Québec à Montréal (UQAM), Montréal, Québec with a B.Sc. in Geology in 2003. I have participated in exploration programs for gold, base metals and coal in Canada (Québec, Ontario), South America (Guyana), Australia and in the Dominican Republic.
3. I am a member in good standing of l'Ordre des Géologues du Québec (#1170).
4. I am an employee of and hold stocks options in DIAGNOS inc., vendor of the Ariane property claims and hence not independent of the issuer;
5. I am a co-author and have assisted in the preparation of this report, but I have not personally visited the project area;
6. The current report is based on compilation of historical data in the public domain carried out by employees of DIAGNOS inc. under my supervision using Exploration Best Practices Guidelines;
7. I consent to the filing of the Technical Report with any stock exchange and other regulatory authority and to any publication of the Technical Report by them for regulatory purposes, including electronic publication in the public company files or on their websites accessible by the public.

Dated February 18, 2011 Brossard, Québec, Canada

_____

Jean-Philippe Mai B.Sc., P.Geo.

Certificate of Author

Report Title: "Technical Report on the Ariane Property" dated February 18th 2011, Revised September 1st 2011

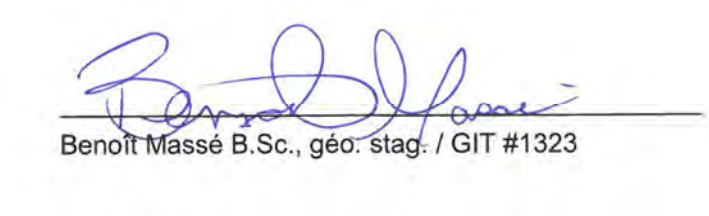
I, Benoit Masse, residing in Brossard, Québec, Canada do hereby certify that:

1) I am a Geologist in Training with the firm of DIAGNOS inc. with an office at Suite 340, 7005, Taschereau Boulevard, Brossard, Québec, Canada;

2) I am a member in good standing of the Ordre des géologues du Québec (#1323) as a Geologist in Training (GIT).

3) I am a co-author of this report and have visited the Ariane property in July and August 2008.

Dated February 18, 2011 Brossard, Québec, Canada



Benoît Massé B.Sc., géo. stag. / GIT #1323

APPENDIX I

Easting NAD 83	Northing NAD 83	Sample #	Assay Certificate	Au ppm PGM-ICP23	Pt ppm PGM-ICP23	Pd ppm PGM-ICP23	Ag ppm ME-ICP61	Al % ME-ICP61	As ppm ME-ICP61	Ba ppm ME-ICP61	Be ppm ME-ICP61	Bi ppm ME-ICP61	Ca % ME-ICP61	Cd ppm ME-ICP61	Co ppm ME-ICP61	Cr ppm ME-ICP61	Cu ppm ME-ICP61	Fe % ME-ICP61	Ga ppm ME-ICP61
469855	5490796	866036	TB08127354	0.002	-0.005	-0.001	-0.5	0.91	-5	-10	-0.5	-2	1.02	-0.5	9	19	12	2.59	-10
469859	5490784	866037	TB08127354	0.005	-0.005	-0.001	-0.5	2.17	9	20	-0.5	3	1.57	-0.5	19	17	143	5.25	10
460801	5496059	876434	TB08127354	0.004	-0.005	0.001	-0.5	7.21	-5	50	-0.5	4	5.14	-0.5	43	113	150	8.35	20
460822	5496069	876435	TB08127354	0.004	-0.005	0.001	-0.5	6.28	-5	220	0.7	2	1.31	-0.5	5	15	24	1.37	20
469864	5490783	876436	TB08127354	0.002	-0.005	0.001	-0.5	0.08	-5	80	-0.5	-2	0.08	-0.5	1	26	10	0.54	-10
469863	5490785	876437	TB08127354	0.002	-0.005	-0.001	-0.5	0.16	-5	40	-0.5	2	0.07	-0.5	1	18	13	0.92	-10
469863	5490785	876438	TB08127354	0.004	-0.005	-0.001	-0.5	0.77	5	10	-0.5	2	0.34	-0.5	34	12	329	3.44	-10
469863	5490785	876439	TB08127354	0.004	-0.005	-0.001	-0.5	1.09	5	20	-0.5	3	0.67	-0.5	13	12	67	4.17	10
470426	5490162	876475	TB08127354	0.01	0.011	0.011	-0.5	7.5	21	40	-0.5	2	6.12	-0.5	50	215	121	7.8	20
470440	5490169	876476	TB08127354	0.004	0.01	0.011	-0.5	7.27	-5	40	-0.5	-2	6.5	-0.5	41	177	67	6.8	10
470868	5490125	876477	TB08127354	0.003	-0.005	0.002	-0.5	7.39	21	40	-0.5	-2	6.83	-0.5	42	233	80	7.78	20
470868	5490120	876478	TB08127354	0.002	-0.005	0.001	-0.5	6.64	17	20	-0.5	-2	7.57	-0.5	22	186	63	6.69	20
470721	5490329	876479	TB08127354	0.002	-0.005	0.003	-0.5	6.23	7	30	-0.5	3	5.22	-0.5	51	155	30	8.37	10
470323	5490527	876480	TB08127354	0.003	-0.005	-0.001	-0.5	6.53	12	10	-0.5	-2	7.91	-0.5	34	264	56	7.17	10
470325	5490528	876481	TB08127354	0.001	-0.005	-0.001	-0.5	2.99	-5	10	-0.5	-2	1.7	-0.5	18	81	4	3.36	10
470097	5490559	876482	TB08127354	0.012	-0.005	0.001	-0.5	3.04	8	10	-0.5	-2	2.23	-0.5	18	102	202	3.84	-10
469077	5491950	876001	VO08099353	0.003	-0.005	0.002	-0.5	7.26	-5	10	-0.5	-2	7.4	-0.5	42	147	122	7.45	20
469056	5491834	876002	VO08099353	0.003	-0.005	0.012	-0.5	7.4	-5	10	-0.5	-2	5.87	-0.5	45	208	104	8.28	20
468989	5491665	876003	VO08099353	0.008	-0.005	-0.001	-0.5	7.58	18	40	-0.5	-2	5.06	-0.5	40	156	69	9.08	20
468620	5491509	876004	VO08099353	0.003	0.006	0.002	-0.5	7.02	5	10	-0.5	-2	5.55	-0.5	35	135	22	7.69	10
468627	5491528	876005	VO08099353	0.002	0.006	0.004	-0.5	7.64	8	20	-0.5	-2	7.83	-0.5	42	165	157	7.9	20
468656	5491570	876006	VO08099353	0.006	-0.005	-0.001	-0.5	7.78	8	10	-0.5	-2	7.59	-0.5	41	166	98	8.13	20
468693	5491645	876007	VO08099353	0.008	-0.005	-0.001	-0.5	6.97	15	30	-0.5	-2	6.13	-0.5	39	94	141	7.89	20
466475	5491988	876008	VO08099353	0.004	-0.005	-0.001	-0.5	7.87	6	70	-0.5	-2	7.38	-0.5	33	152	34	8.47	20
466472	5492026	876009	VO08099353	0.009	0.005	-0.001	-0.5	7.29	-5	90	-0.5	-2	10.2	-0.5	31	152	72	7.42	20
466489	5492020	876010	VO08099353	0.003	-0.005	-0.001	-0.5	5.74	-5	190	0.8	-2	2.01	-0.5	9	36	33	1.85	10
466492	5492014	876011	VO08099353	0.006	-0.005	-0.001	0.6	5.47	-5	40	0.5	-2	1.37	-0.5	11	53	9	2.49	10
466492	5492014	876012	VO08099353	0.009	-0.005	-0.001	-0.5	5.28	-5	40	0.5	2	1.38	-0.5	15	38	23	2.8	20
466513	5492024	876013	VO08099353	0.006	-0.005	-0.001	-0.5	6.4	-5	60	0.7	-2	8.29	-0.5	30	114	63	7.62	20
466531	5492179	876014	VO08099353	0.005	-0.005	-0.001	-0.5	7.2	-5	320	0.5	-2	4.06	-0.5	63	209	172	11.7	30
466669	5492582	876015	VO08099353	0.005	-0.005	-0.001	-0.5	6.84	-5	20	-0.5	-2	5.76	-0.5	41	68	92	10.55	20
466820	5492393	876016	VO08099353	0.003	-0.005	-0.001	-0.5	0.91	-5	10	-0.5	-2	0.18	-0.5	4	38	4	0.88	-10
466819	5492397	876017	VO08099353	0.003	-0.005	-0.001	-0.5	2.67	6	10	-0.5	-2	2.34	-0.5	17	70	51	4.47	10
466795	5492317	876018	VO08099353	0.005	-0.005	0.001	-0.5	8.41	9	30	-0.5	-2	6.76	-0.5	47	227	105	6.77	20
466758	5492242	876019	VO08099353	0.003	-0.005	-0.001	-0.5	0.29	-5	-10	-0.5	-2	0.18	-0.5	3	27	23	0.73	-10
466723	5492116	876020	VO08099353	0.001	-0.005	-0.001	-0.5	7.19	5	10	-0.5	-2	7.49	-0.5	40	196	90	6.11	20
Standard: 50 Pb		876021	VO08099353	0.852	-0.005	0.011	-0.5	5.67	-5	-10	-0.5	-2	2.68	-0.5	38	120	1	9.93	10
473517	5481421	876022	VO08099353	0.005	-0.005	-0.001	-0.5	5.62	10	10	-0.5	-2	2.62	-0.5	37	108	1	9.77	10
473553	5481442	876023	VO08099353	0.002	-0.005	-0.001	-0.5	2.25	-5	-10	-0.5	-2	0.37	-0.5	16	16	-1	3.87	10
473555	5481442	876024	VO08099353	0.01	-0.005	-0.001	-0.5	5.28	-5	10	-0.5	-2	4.88	-0.5	44	20	90	5.71	10
473572	5481446	876025	VO08099353	0.002	-0.005	-0.001	-0.5	0.58	-5	-10	-0.5	-2	0.04	-0.5	5	43	-1	1.36	-10
473593	5481488	876026	VO08099353	0.003	-0.005	-0.001	-0.5	4.57	-5	10	-0.5	-2	4.02	-0.5	35	19	-1	9.45	10
473598	5481537	876027	VO08099353	0.018	-0.005	-0.001	-0.5	7.04	-5	470	0.7	-2	4.58	-0.5	33	89	42	6.69	20
469082	5490774	876028	VO08099353	0.006	-0.005	-0.001	-0.5	7.2	-5	10	-0.5	-2	6.45	0.5	41	116	65	8.28	20
469103	5490845	876029	VO08099353	0.004	0.011	0.014	-0.5	7.94	5	40	-0.5	-2	8.55	-0.5	46	261	59	7.08	20
469187	5490838	876030	VO08099353	0.002	-0.005	-0.001	-0.5	2.36	-5	40	-0.5	-2	1.58	-0.5	7	58	63	3.51	-10
469141	5490749	876031	VO08099353	0.014	-0.005	-0.001	-0.5	0.46	-5	-10	-0.5	-2	0.04	-0.5	4	38	-1	0.82	-10
469141	5490749	876032	VO08099353	0.007	0.005	-0.001	-0.5	0.17	-5	-10	-0.5	-2	0.03	-0.5	-1	39	-1	0.31	-10
469154	5490793	876033	VO08099353	0.003	-0.005	0.007	-0.5	6.64	8	50	-0.5	-2	8.29	-0.5	27	200	508	12.8	10
469358	5490718	876034	VO08099353	0.007	0.014	0.016	-0.5	7.82	-5	20	-0.5	-2	7.99	-0.5	44	266	50	7.15	20
469743	5491008	876035	VO08099353	0.004	-0.005	-0.001	-0.5	0.74	-5	10	-0.5	-2	0.49	-0.5	4	38	4	1.12	-10
464122	5494167	876036	VO08099353	0.004	-0.005	0.001	-0.5	7.76	6	60	-0.5	-2	6.17	-0.5	43	192	82	8.29	20
464489	5494087	876037	VO08099353	0.007	0.016	0.017	-0.5	8.06	8	40	-0.5	-2	7.45	-0.5	47	263	76	7.27	10
469730	5490991	876038	VO08099353	0.003	-0.005	-0.001	0.5	0.31	-5	10	-0.5	-2	0.18	-0.5	2	38	10	0.63	-10
469729	5490989	876039	VO08099353	0.003	-0.005	-0.001	-0.5	7.54	47	30	-0.5	-2	4.96	-0.5	41	190	78	9.88	20
469814	5490738	876040	VO08099353	0.013	-0.005	-0.001	-0.5	0.51	-5	-10	-0.5	-2	0.33	-0.5	3	32	2	1.01	-10
469813	5490747	876041	VO08099353	0.008	-0.005	-0.001	-0.5	0.52	-5	20	-0.5	-2	0.26	-0.5	4	61	1	0.9	-10
469813	5490747	876042	VO08099353	0.006	0.008	0.004	-0.5	7.44	12	30	-0.5	-2	4.82	-0.5	47	204	80	8.89	20
469869	5490781	876043	VO08099353	0.007	-0.005	-0.001	-0.5	5.73	8	20	0.6	-2	4.41	-0.5	29	11	12	13	20
469870	5490773	876044	VO08099353	0.002	-0.005	-0.001	-0.5	0.28	-5	-10	-0.5	-2	0.07	-0.5	1	21	-1	1.12	-10

Easting NAD 83	Northing NAD 83	Sample #	Assay Certificate	Au ppm PGM-ICP23	Pt ppm PGM-ICP23	Pd ppm PGM-ICP23	Ag ppm ME-ICP61	Al % ME-ICP61	As ppm ME-ICP61	Ba ppm ME-ICP61	Be ppm ME-ICP61	Bi ppm ME-ICP61	Ca % ME-ICP61	Cd ppm ME-ICP61	Co ppm ME-ICP61	Cr ppm ME-ICP61	Cu ppm ME-ICP61	Fe % ME-ICP61	Ga ppm ME-ICP61
469833	5490809	876045	VO08099353	0.002	-0.005	-0.001	-0.5	5.92	14	20	-0.5	-2	4.82	-0.5	44	4	44	13.65	20
469833	5490814	876046	VO08099353	0.006	-0.005	-0.001	-0.5	6.05	6	50	-0.5	-2	5.95	-0.5	43	8	57	11.3	20
469863	5490779	876047	VO08099353	0.003	-0.005	-0.001	-0.5	0.53	-5	10	-0.5	-2	0.34	-0.5	7	21	163	2.59	-10
469969	5490851	876048	VO08099353	0.001	-0.005	-0.001	-0.5	2.22	-5	30	-0.5	-2	0.86	-0.5	10	72	19	2.2	-10
469967	5490847	876049	VO08099353	0.13	-0.005	-0.001	-0.5	0.46	260	30	-0.5	-2	0.08	-0.5	1	42	2	0.9	-10
469959	5490843	876050	VO08099353	0.004	-0.005	-0.001	-0.5	6.6	28	10	-0.5	-2	1.38	-0.5	44	4	36	13.5	20
466371	5491992	876051	VO08099353	0.013	-0.005	0.001	-0.5	7.63	7	340	0.7	-2	5.91	-0.5	34	124	199	7.1	20
466489	5492339	876052	VO08099353	0.004	0.005	-0.001	-0.5	7.46	5	60	-0.5	-2	7.08	-0.5	42	177	64	7.92	20
466471	5492355	876053	VO08099353	0.002	-0.005	-0.001	-0.5	7.75	9	30	-0.5	-2	5.12	-0.5	40	152	96	8.66	20
466501	5492374	876054	VO08099353	0.003	-0.005	-0.001	-0.5	7.45	-5	30	-0.5	-2	5.74	-0.5	39	168	62	8.73	20
466496	5492367	876055	VO08099353	0.004	-0.005	-0.001	-0.5	8.7	-5	100	-0.5	-2	7.22	-0.5	36	177	75	6.95	20
466486	5492418	876056	VO08099353	0.003	-0.005	0.002	-0.5	7.35	-5	20	-0.5	-2	7.2	-0.5	41	205	80	8.26	20
466509	5492394	876057	VO08099353	0.002	-0.005	0.001	-0.5	7.79	-5	20	-0.5	-2	8.89	-0.5	41	192	92	7.69	20
466670	5492298	876058	VO08099353	0.002	-0.005	0.001	-0.5	7.56	6	10	-0.5	-2	10.75	-0.5	39	254	7	5.87	20
466630	5492208	876059	VO08099353	0.007	-0.005	-0.001	-0.5	6.18	-5	130	0.9	-2	1.23	-0.5	2	24	33	0.77	20
466627	5492167	876060	VO08099353	0.003	0.005	-0.001	-0.5	7.51	-5	20	-0.5	-2	6.49	-0.5	52	141	18	8.76	20
466731	5491941	876061	VO08099353	0.004	-0.005	-0.001	-0.5	7.59	-5	80	2.4	-2	2.21	-0.5	3	17	15	2.22	30
466722	5491932	876062	VO08099353	0.002	-0.005	-0.001	-0.5	7.01	-5	60	0.7	-2	5.08	-0.5	37	127	71	8.54	20
466789	5492087	876063	VO08099353	0.002	0.007	0.003	-0.5	7.37	-5	20	-0.5	-2	6.98	-0.5	41	226	64	8.08	20
466793	5492108	876064	VO08099353	0.006	-0.005	0.006	-0.5	8.83	-5	30	-0.5	-2	9	-0.5	33	161	67	6.52	20
467060	5492504	876065	VO08099353	0.002	-0.005	-0.001	-0.5	8.07	-5	20	-0.5	-2	7.92	-0.5	47	260	90	7.16	20
467055	5492500	876066	VO08099353	0.002	-0.005	-0.001	-0.5	7.97	-5	40	-0.5	-2	7.42	-0.5	48	247	79	8.16	20
467051	5492489	876067	VO08099353	0.006	-0.005	-0.001	-0.5	7.85	-5	90	-0.5	-2	7.4	-0.5	45	227	94	7.93	20
467023	5492505	876068	VO08099353	0.006	0.005	-0.001	-0.5	7.08	-5	30	-0.5	-2	5.15	-0.5	43	210	51	8.25	20
467016	5492500	876069	VO08099353	0.003	-0.005	-0.001	-0.5	7.36	-5	30	-0.5	-2	7.27	-0.5	42	220	75	7.88	20
466993	5492514	876070	VO08099353	0.004	-0.005	-0.001	-0.5	7.12	-5	30	-0.5	-2	5.59	-0.5	44	227	59	8.05	20
467013	5492438	876071	VO08099353	0.006	0.007	0.018	-0.5	7.61	-5	40	-0.5	-2	7.01	-0.5	46	223	74	7.39	20
467031	5492439	876072	VO08099353	0.006	0.005	0.02	-0.5	7.86	-5	50	-0.5	-2	7.55	-0.5	48	215	95	7.69	20
467030	5492440	876073	VO08099353	0.006	0.006	0.019	-0.5	7.18	-5	60	-0.5	-2	7.17	-0.5	47	196	99	7.41	20
466981	5492322	876074	VO08099353	0.006	-0.005	-0.001	-0.5	6.2	-5	50	-0.5	-2	1.23	-0.5	35	162	82	7.53	10
466967	5492330	876075	VO08099353	0.004	-0.005	0.001	-0.5	8.27	-5	70	-0.5	-2	6.01	-0.5	43	175	46	9.11	20
466959	5492350	876076	VO08099353	0.002	-0.005	-0.001	-0.5	6.97	-5	40	-0.5	-2	7.78	-0.5	32	132	56	10.2	20
467000	5492270	876077	VO08099353	0.006	-0.005	-0.001	-0.5	0.53	-5	10	-0.5	-2	0.64	-0.5	5	24	28	1.43	-10
466996	5492280	876078	VO08099353	0.001	-0.005	-0.001	-0.5	8.99	-5	30	-0.5	-2	6.34	-0.5	45	108	83	9.22	20
466980	5492285	876079	VO08099353	0.003	-0.005	-0.001	-0.5	0.07	-5	-10	-0.5	-2	0.12	-0.5	-1	36	10	2.12	-10
466846	5491852	876080	VO08099353	0.004	-0.005	-0.001	-0.5	7.56	-5	20	-0.5	-2	5.77	-0.5	41	189	72	9	20
466847	5491836	876081	VO08099353	0.002	-0.005	-0.001	-0.5	2.52	-5	10	-0.5	-2	0.38	-0.5	6	34	3	1.92	10
466845	5491828	876082	VO08099353	0.004	-0.005	-0.001	-0.5	4.2	-5	10	-0.5	-2	0.7	-0.5	9	53	3	2.88	10
467022	5491878	876083	VO08099353	0.003	-0.005	0.001	-0.5	7.68	-5	30	-0.5	-2	7.57	-0.5	44	211	81	8.17	20
467234	5492374	876084	VO08099353	0.003	-0.005	-0.001	-0.5	7.68	-5	30	-0.5	-2	7.24	-0.5	44	226	53	8.06	20
467216	5492305	876085	VO08099353	0.002	0.011	0.008	-0.5	7.39	5	20	-0.5	-2	10.35	-0.5	42	237	10	6.93	20
467201	5492327	876086	VO08099353	0.006	0.008	0.008	-0.5	5.03	-5	30	-0.5	-2	5.75	-0.5	27	149	29	5.06	10
467153	5492176	876087	VO08099353	0.001	-0.005	-0.001	-0.5	0.41	-5	10	-0.5	-2	0.6	-0.5	2	35	7	1.43	-10
467155	5492177	876088	VO08099353	0.002	-0.005	-0.001	-0.5	1.31	-5	-10	-0.5	-2	0.83	-0.5	10	37	15	2.88	-10
467095	5492177	876089	VO08099353	0.003	-0.005	-0.001	-0.5	4.8	-5	10	-0.5	-2	6.15	-0.5	24	127	28	5.56	10
467038	5491885	876090	VO08099353	0.002	-0.005	-0.001	-0.5	5.17	-5	20	-0.5	-2	4.1	-0.5	32	170	33	6.03	10
467125	5491749	876091	VO08099353	0.002	-0.005	0.002	0.6	7.93	-5	-10	-0.5	-2	7.51	-0.5	42	177	108	7.99	20
467116	5491703	876092	VO08099353	0.003	-0.005	0.001	0.5	7.49	-5	-10	-0.5	-2	4.46	-0.5	43	211	70	6.98	20
467455	5492403	876093	VO08099353	0.031	-0.005	0.001	-0.5	7.85	40	510	0.9	-2	0.89	-0.5	19	89	55	3.9	20
467686	5492428	876094	VO08099353	0.002	-0.005	0.001	0.6	8.02	8	-10	-0.5	-2	4.35	-0.5	40	156	14	8.54	20
467681	5492462	876095	VO08099353	0.004	-0.005	-0.001	0.7	8.36	15	-10	-0.5	-2	2.69	-0.5	36	144	50	9.49	20
467599	5492165	876096	VO08099353	0.003	0.009	0.008	-0.5	7.89	19	50	-0.5	-2	3.55	-0.5	40	69	113	8.23	20
467585	5492167	876097	VO08099353	0.015	0.009	0.007	0.7	7.41	26	50	-0.5	-2	4.77	-0.5	41	79	146	7.59	20
467603	5492069	876098	VO08099353	0.006	-0.005	-0.001	0.7	6.7	25	180	0.9	-2	3.92	-0.5	22	2	23	7.62	20
467542	5492081	876099	VO08099353	0.003	-0.005	-0.001	-0.5	7.29	5	230	0.6	-2	6.35	-0.5	7	27	19	1.92	20
467542	5492081	876100	VO08099353	0.004	-0.005	-0.001	-0.5	7.63	5	230	0.6	-2	3.68	-0.5	6	36	26	2.1	20
467661	5491571	876101	VO08099353	0.005	-0.005	-0.001	-0.5	4.54	5	-10	-0.5	-2	2.87	-0.5	31	52	23	7.12	10
467590	5491508	876102	VO08099353	0.003	-0.005	-0.001	0.7	7.71	-5	-10	-0.5	-2	6.98	-0.5	41	194	67	7.86	20
467527	5491509	876103	VO08099353	0.002	-0.005	-0.001	0.6	8.17	7	-10	-0.5	-2	6.52	-0.5	45	185	110	7.9	20
467532	5491517	876104	VO08099353	0.003	-0.005	-0.001	0.6	8.19	-5	60	-0.5	-2	6.35	-0.5	41	186	46	7.92	20

Easting NAD 83	Northing NAD 83	Sample #	Assay Certificate	Au ppm PGM-ICP23	Pt ppm PGM-ICP23	Pd ppm PGM-ICP23	Ag ppm ME-ICP61	Al % ME-ICP61	As ppm ME-ICP61	Ba ppm ME-ICP61	Be ppm ME-ICP61	Bi ppm ME-ICP61	Ca % ME-ICP61	Cd ppm ME-ICP61	Co ppm ME-ICP61	Cr ppm ME-ICP61	Cu ppm ME-ICP61	Fe % ME-ICP61	Ga ppm ME-ICP61
467552	5491540	876105	VO08099353	0.002	-0.005	-0.001	-0.5	8.58	11	60	-0.5	-2	6.35	-0.5	45	220	98	7.72	20
467451	5491647	876106	VO08099353	0.004	-0.005	0.001	-0.5	8.58	-5	-10	-0.5	-2	7.89	-0.5	45	198	105	8.08	20
467475	5491622	876107	VO08099353	0.004	-0.005	0.001	0.5	7.98	-5	20	-0.5	-2	8.61	-0.5	41	199	98	7.31	20
467520	5491837	876108	VO08099353	0.004	-0.005	-0.001	0.6	0.25	-5	-10	-0.5	-2	10.45	-0.5	5	11	20	4	-10
467791	5492440	876109	VO08099353	0.003	-0.005	-0.001	-0.5	7.74	9	10	-0.5	-2	4.29	-0.5	38	149	92	8.55	20
464288	5494074	876110	VO08099353	0.003	-0.005	-0.001	-0.5	8.41	-5	40	-0.5	-2	5.91	-0.5	41	129	119	7.92	20
464284	5494073	876111	VO08099353	0.003	-0.005	-0.001	-0.5	9.16	11	60	-0.5	-2	8.46	-0.5	46	125	115	7.15	20
464577	5494033	876112	VO08099353	0.006	0.012	0.015	-0.5	8.55	9	-10	-0.5	2	8.21	-0.5	47	201	116	7.08	20
465055	5494769	876113	VO08099351	0.002	-0.005	0.001	-0.5	0.54	-5	10	-0.5	-2	0.1	-0.5	5	37	2	1.03	-10
469806	5490957	876114	VO08099351	0.079	0.005	0.003	-0.5	1.3	-5	20	-0.5	-2	0.71	-0.5	9	45	112	1.79	-10
469808	5490953	876115	VO08099351	0.002	0.005	0.001	-0.5	7.52	-5	20	-0.5	-2	7.22	-0.5	43	145	131	8.47	20
469792	5490930	876116	VO08099351	0.005	-0.005	-0.001	-0.5	0.32	-5	-10	-0.5	-2	0.19	-0.5	2	20	69	0.73	-10
469795	5490928	876117	VO08099351	0.006	-0.005	0.001	-0.5	1.29	-5	10	-0.5	-2	7.68	-0.5	7	25	97	1.56	-10
469785	5490929	876118	VO08099351	0.001	-0.005	0.001	-0.5	7.42	-5	20	-0.5	-2	6.34	-0.5	44	162	151	8.15	10
469763	5490912	876119	VO08099351	3.96	-0.005	-0.001	-0.5	1.12	56	60	-0.5	-2	0.18	-0.5	13	23	147	3.31	-10
469894	5490707	876120	VO08099351	0.006	-0.005	0.001	-0.5	0.17	-5	-10	-0.5	-2	0.14	-0.5	2	26	6	0.34	-10
470021	5490808	876121	VO08099351	0.01	-0.005	0.001	-0.5	7.58	24	210	-0.5	-2	0.96	-0.5	27	123	13	6.26	20
474186	5481506	876122	VO08099351	0.011	-0.005	0.001	-0.5	6.46	5	10	0.5	-2	6.78	-0.5	40	69	155	9.54	20
474192	5481508	876123	VO08099351	0.005	-0.005	-0.001	-0.5	6.47	-5	10	0.5	-2	6.93	-0.5	44	70	122	9.48	20
469747	5490864	876124	VO08099351	0.005	-0.005	-0.001	-0.5	7.02	26	10	-0.5	-2	6.4	-0.5	31	24	153	8.44	20
469861	5490782	876125	VO08099351	0.005	-0.005	0.001	-0.5	1.62	9	20	-0.5	-2	1.27	-0.5	25	9	508	5.54	10
469977	5490647	876126	VO08099351	0.001	-0.005	-0.001	0.8	0.05	6	10	-0.5	-2	0.03	-0.5	-1	19	2	0.28	-10
STANDARD?-Oreas 18Pb		876127	VO08099351	0.007	0.01	0.002	-0.5	5.9	3820	230	0.9	-2	4.39	-0.5	33	150	91	8.34	20
464386	5494096	876151	VO08099351	0.002	-0.005	-0.001	-0.5	6.68	5	630	0.8	-2	1.54	-0.5	4	12	6	1.75	20
465052	5494720	876152	VO08099351	0.009	-0.005	-0.001	-0.5	6.73	6	80	-0.5	-2	8.53	-0.5	32	253	12	5.38	10
465065	5494723	876153	VO08099351	0.002	0.006	0.001	-0.5	7.63	11	50	-0.5	-2	8.54	-0.5	35	356	122	5.53	10
465050	5494734	876154	VO08099351	0.001	-0.005	-0.001	-0.5	8.17	7	30	-0.5	-2	4.21	-0.5	45	415	154	5.79	10
465038	5494730	876155	VO08099351	0.001	-0.005	0.001	-0.5	7.63	7	20	-0.5	-2	8.9	-0.5	32	349	78	5.5	10
465667	5494525	794342	VO08099352	0.012	-0.005	0.003	-0.5	6.78	-5	10	-0.5	-2	11.05	0.6	24	124	203	5.89	20
465617	5494291	794343	VO08099352	-0.001	-0.005	-0.001	-0.5	6.89	-5	280	0.8	-2	1.73	-0.5	5	31	6	2.08	20
465511	5494086	794344	VO08099352	0.001	-0.005	0.001	-0.5	7.11	-5	350	0.7	2	2.21	-0.5	6	31	9	2.24	20
465475	5494004	794345	VO08099352	0.003	-0.005	-0.001	-0.5	7.09	-5	350	0.7	-2	3	-0.5	11	40	3	3.34	20
465318	5494646	794346	VO08099352	0.02	-0.005	0.001	-0.5	0.2	-5	-10	-0.5	-2	0.77	-0.5	3	51	273	0.63	-10
465210	5494680	794347	VO08099352	0.003	-0.005	-0.001	-0.5	7.6	-5	330	0.8	2	4.67	-0.5	22	174	17	4.71	20
469095	5491428	794348	VO08099352	0.004	-0.005	0.001	-0.5	7.28	-5	10	-0.5	-2	6.82	-0.5	39	179	90	7.85	20
469092	5491445	794349	VO08099352	0.001	-0.005	-0.001	-0.5	7.57	9	30	-0.5	3	5.56	-0.5	35	181	56	8.15	20
468991	5491931	794350	VO08099352	0.004	0.012	0.015	-0.5	6.96	-5	40	-0.5	-2	5.39	-0.5	39	60	104	8.3	20
467419	5491593	794440	VO08099352	0.003	-0.005	0.007	-0.5	5.46	5	200	-0.5	-2	8.75	-0.5	46	292	14	7.21	10
467526	5491989	794441	VO08099352	0.001	-0.005	0.001	-0.5	7.94	8	30	-0.5	-2	7.43	-0.5	39	201	41	7.97	10
467483	5491937	794442	VO08099352	-0.001	0.013	0.017	-0.5	8.59	8	110	-0.5	-2	6.92	-0.5	44	282	90	7.78	10
467512	5491951	794443	VO08099352	0.001	0.011	0.018	-0.5	8.34	7	100	-0.5	-2	8.57	-0.5	46	269	68	7.01	10
467550	5491541	794444	VO08099352	0.001	-0.005	-0.001	-0.5	8.01	8	20	-0.5	-2	8.9	-0.5	40	230	55	8.34	10
467562	5491564	794445	VO08099352	0.001	-0.005	0.001	-0.5	7.93	-5	50	-0.5	-2	7.36	-0.5	44	230	86	8.69	10
467508	5491552	794446	VO08099352	0.001	-0.005	-0.001	-0.5	7.77	-5	30	-0.5	-2	6.83	-0.5	42	213	127	8.68	10
467491	5491546	794447	VO08099352	0.001	-0.005	-0.001	-0.5	5.26	7	30	-0.5	-2	2.47	-0.5	30	179	49	5.82	10
467419	5491593	794448	VO08099352	0.002	-0.005	-0.001	-0.5	8	-5	30	-0.5	-2	7.07	-0.5	42	208	51	7.41	10
464540	5494510	794449	VO08099352	0.001	-0.005	-0.001	-0.5	7.09	-5	400	0.7	-2	1.91	-0.5	5	18	6	1.52	20
464540	5494510	794450	VO08099352	-0.001	-0.005	-0.001	-0.5	8.75	9	340	0.7	-2	1.87	-0.5	4	26	6	1.85	10
466263	5492694	794467	VO08099352	0.001	-0.005	-0.001	-0.5	0.22	9	-10	-0.5	-2	0.1	-0.5	1	47	4	0.54	-10
465169	5494711	794468	VO08099352	0.001	-0.005	-0.001	-0.5	1.52	9	20	-0.5	-2	0.51	-0.5	6	92	2	1.16	-10
465175	5494216	794469	VO08099352	0.002	-0.005	-0.001	-0.5	7.56	-5	400	0.7	-2	3.03	-0.5	9	21	15	3.3	20
465028	5493842	794470	VO08099352	-0.001	-0.005	0.004	-0.5	7.89	12	30	-0.5	-2	6.81	-0.5	45	240	103	7.75	10
465221	5493800	794471	VO08099352	0.001	-0.005	-0.001	-0.5	8.02	7	80	-0.5	-2	5.25	-0.5	40	225	123	10.1	10
469146	5491844	794472	VO08099352	0.001	-0.005	-0.001	0.5	0.12	-5	-10	-0.5	-2	0.05	-0.5	-1	44	2	0.39	-10
469103	5491635	794473	VO08099352	0.495	-0.005	-0.001	-0.5	4.17	60	490	-0.5	2	0.55	-0.5	8	93	42	1.68	10
469075	5491630	794474	VO08099352	0.005	-0.005	0.001	-0.5	7.78	25	40	-0.5	-2	4.54	-0.5	41	170	73	9.64	10
468825	5491772	794475	VO08099352	0.003	-0.005	-0.001	-0.5	2.71	8	10	-0.5	-2	2.1	-0.5	12	77	14	3.1	-10
468708	5492081	794476	VO08099352	0.002	-0.005	0.004	-0.5	7.62	12	10	-0.5	-2	7	-0.5	45	216	119	8.97	10
468669	5491966	794477	VO08099352	-0.001	-0.005	0.002	-0.5	7.73	6	50	-0.5	-2	5.34	-0.5	43	181	122	8.09	10
468602	5491730	794478	VO08099352	0.002	-0.005	-0.001	-0.5	6.01	-5	20	0.7	-2	4.09	-0.5	36	-1	12	12.4	20

Easting NAD 83	Northing NAD 83	Sample #	Assay Certificate	Au ppm PGM-ICP23	Pt ppm PGM-ICP23	Pd ppm PGM-ICP23	Ag ppm ME-ICP61	Al % ME-ICP61	As ppm ME-ICP61	Ba ppm ME-ICP61	Be ppm ME-ICP61	Bi ppm ME-ICP61	Ca % ME-ICP61	Cd ppm ME-ICP61	Co ppm ME-ICP61	Cr ppm ME-ICP61	Cu ppm ME-ICP61	Fe % ME-ICP61	Ga ppm ME-ICP61
468600	5491693	794479	VO08099352	0.001	-0.005	-0.001	-0.5	8.25	10	60	-0.5	-2	5.06	-0.5	49	51	94	11.6	20
468626	5491663	794480	VO08099352	0.001	-0.005	-0.001	-0.5	7.84	12	50	-0.5	-2	6.91	-0.5	42	182	111	8.79	10
467622	5492583	794481	VO08099352	0.002	-0.005	-0.001	-0.5	7.99	11	20	-0.5	-2	6.01	-0.5	42	123	70	9.33	10
467620	5492574	794482	VO08099352	0.007	-0.005	-0.001	-0.5	6.97	6	530	0.5	-2	1.08	-0.5	2	6	1	0.63	10
467587	5492519	794483	VO08099352	0.003	-0.005	0.003	-0.5	7.83	26	10	-0.5	-2	5.76	-0.5	42	178	94	7.85	10
467507	5492348	794484	VO08099352	0.001	0.008	0.007	-0.5	7.47	18	20	-0.5	-2	6.22	-0.5	34	173	67	8.72	10
467467	5492124	794485	VO08099352	0.001	-0.005	0.003	-0.5	2.28	7	20	-0.5	-2	0.66	-0.5	15	76	40	4.86	-10
467295	5491637	794486	VO08099352	-0.001	-0.005	0.001	-0.5	7.98	6	20	-0.5	-2	7.55	-0.5	45	219	82	8.86	10
467698	5491755	794487	VO08099352	0.001	-0.005	-0.001	-0.5	5.43	8	50	-0.5	-2	4.69	-0.5	24	138	27	8.9	-10
467122	5491817	794488	VO08099352	0.001	-0.005	0.001	-0.5	8.14	8	20	-0.5	-2	7.06	-0.5	47	226	69	9.13	10
467144	5491857	794489	VO08099352	0.002	-0.005	0.002	-0.5	7.97	6	20	-0.5	-2	7.08	-0.5	45	222	95	8.52	10
466943	5491808	794490	VO08099352	-0.001	-0.005	0.001	-0.5	8.14	11	40	-0.5	-2	4.46	-0.5	47	202	30	9.78	10
466943	5491808	794491	VO08099352	0.001	-0.005	0.001	-0.5	7.82	9	30	-0.5	-2	6	-0.5	38	183	50	8.78	10
467104	5491814	794492	VO08099352	0.002	-0.005	0.001	-0.5	7.25	8	20	-0.5	-2	6.67	-0.5	44	206	86	8.44	10
466915	5491765	794493	VO08099352	0.001	-0.005	-0.001	-0.5	2.94	6	20	-0.5	-2	2.63	-0.5	15	83	19	4.02	-10
467014	5492048	794494	VO08099352	-0.001	-0.005	0.001	-0.5	7.51	-5	40	-0.5	-2	6.71	-0.5	41	223	57	8.09	10
467024	5492074	794495	VO08099352	0.001	-0.005	0.001	-0.5	7.92	5	30	-0.5	-2	6.42	-0.5	47	218	101	8.25	10
Standard: Oreas 15Pa		794496	VO08099352	0.975	-0.005	0.001	-0.5	6.94	1075	250	0.9	-2	5.32	-0.5	36	194	56	7.58	10
467050	5492157	794497	VO08099352	0.002	-0.005	-0.001	-0.5	8.11	12	50	-0.5	-2	6.95	-0.5	43	201	69	8.55	20
467084	5492231	794498	VO08099352	0.001	-0.005	-0.001	-0.5	3.79	-5	10	-0.5	-2	3.47	-0.5	25	89	44	6.26	10
467133	5492350	794499	VO08099352	0.001	-0.005	-0.001	-0.5	3.32	9	110	-0.5	-2	1.12	-0.5	3	21	8	1.33	-10
467680	5491571	794500	VO08099352	0.002	-0.005	-0.001	-0.5	7.36	6	20	-0.5	-2	10.9	-0.5	40	111	92	7.71	10

Standard
Duplicate

Easting NAD 83	Northing NAD 83	Sample #	Assay Certificate	K % ME-ICP61	La ppm ME-ICP61	Mg % ME-ICP61	Mn ppm ME-ICP61	Mo ppm ME-ICP61	Na % ME-ICP61	Ni ppm ME-ICP61	P ppm ME-ICP61	Pb ppm ME-ICP61	S % ME-ICP61	Sb ppm ME-ICP61	Sc ppm ME-ICP61	Sr ppm ME-ICP61	Th ppm ME-ICP61	Ti % ME-ICP61	Tl ppm ME-ICP61
469855	5490796	866036	TB08127354	0.02	-10	0.3	483	-1	0.16	6	260	-2	0.02	-5	8	11	-20	0.21	-10
469859	5490784	866037	TB08127354	0.06	-10	0.37	616	-1	0.61	7	420	5	0.57	-5	13	58	-20	0.38	-10
460801	5496059	876434	TB08127354	0.23	-10	3.93	1220	8	0.94	122	330	2	0.23	-5	36	101	-20	0.56	-10
460822	5496069	876435	TB08127354	0.61	10	0.45	212	3	3.61	11	240	4	0.02	-5	2	216	-20	0.11	-10
469864	5490783	876436	TB08127354	-0.01	-10	0.03	64	1	0.02	7	20	-2	0.01	-5	-1	3	-20	0.01	-10
469863	5490785	876437	TB08127354	-0.01	-10	0.04	97	1	0.05	3	20	-2	0.01	-5	-1	4	-20	0.01	-10
469863	5490785	876438	TB08127354	0.01	-10	0.18	274	1	0.17	6	170	-2	0.89	-5	4	15	-20	0.13	-10
469863	5490785	876439	TB08127354	0.02	-10	0.23	357	-1	0.25	12	190	4	0.4	5	7	20	-20	0.18	-10
470426	5490162	876475	TB08127354	0.13	-10	2.97	1170	-1	2.14	134	190	4	0.02	-5	32	75	-20	0.39	-10
470440	5490169	876476	TB08127354	0.11	-10	3.48	1220	-1	1.64	113	150	-2	0.01	-5	34	103	-20	0.35	-10
470868	5490125	876477	TB08127354	0.09	-10	3.55	1405	-1	1.83	136	210	-2	0.03	-5	33	165	-20	0.46	-10
470868	5490120	876478	TB08127354	0.04	-10	2.63	1100	-1	0.8	66	130	3	0.14	-5	32	129	-20	0.37	-10
470721	5490329	876479	TB08127354	0.11	-10	5.31	1290	-1	1.29	180	190	-2	0.01	-5	24	83	-20	0.39	-10
470323	5490527	876480	TB08127354	0.06	-10	4.9	1300	-1	0.91	84	90	2	0.04	-5	44	84	-20	0.35	-10
470325	5490528	876481	TB08127354	0.03	-10	1.93	542	-1	0.24	50	50	-2	-0.01	-5	16	22	-20	0.12	10
470097	5490559	876482	TB08127354	0.02	-10	1.79	569	-1	0.44	34	90	-2	0.03	-5	17	39	-20	0.21	-10
469077	5491950	876001	VO08099353	0.02	-10	3.14	1625	-1	1.05	114	210	4	0.04	-5	38	90	-20	0.43	10
469056	5491834	876002	VO08099353	0.02	-10	3.84	1530	-1	0.72	108	190	2	0.1	-5	36	78	-20	0.39	10
468989	5491665	876003	VO08099353	0.15	-10	3.87	1405	-1	2.57	85	390	-2	0.02	5	40	99	-20	0.75	-10
468620	5491509	876004	VO08099353	0.03	-10	3.41	882	-1	0.84	105	220	2	-0.01	-5	35	143	-20	0.42	-10
468627	5491528	876005	VO08099353	0.07	-10	3.51	1235	-1	1.28	109	240	-2	0.03	-5	40	159	-20	0.48	-10
468656	5491570	876006	VO08099353	0.03	-10	3.98	1315	-1	1.02	118	260	2	0.13	-5	36	100	-20	0.48	-10
468693	5491645	876007	VO08099353	0.06	-10	4.07	1405	-1	1.55	53	210	-2	0.05	-5	41	103	-20	0.41	10
466475	5491988	876008	VO08099353	0.34	-10	3.68	1400	-1	1.84	81	560	2	0.06	-5	36	138	-20	0.8	-10
466472	5492026	876009	VO08099353	0.31	-10	2.26	1590	-1	1.23	70	490	3	0.14	-5	36	129	-20	0.79	-10
466489	5492020	876010	VO08099353	0.37	20	0.38	283	-1	3.84	13	400	9	0.58	-5	4	283	-20	0.14	-10
466492	5492014	876011	VO08099353	0.11	10	0.71	257	-1	2.52	18	240	11	0.52	-5	9	348	-20	0.16	-10
466492	5492014	876012	VO08099353	0.11	10	0.84	228	-1	2.01	18	270	12	0.65	-5	9	358	-20	0.15	-10
466513	5492024	876013	VO08099353	0.48	-10	2.5	1495	-1	1.04	47	440	2	0.05	-5	37	96	-20	0.76	-10
466531	5492179	876014	VO08099353	1.92	-10	4.27	1465	-1	0.83	109	240	-2	0.44	-5	30	126	-20	0.77	-10
466669	5492582	876015	VO08099353	0.11	-10	3.22	1450	-1	1.29	36	420	-2	0.07	5	43	194	-20	0.76	-10
466820	5492393	876016	VO08099353	0.02	-10	0.3	110	-1	0.15	7	30	-2	-0.01	-5	5	14	-20	0.03	-10
466819	5492397	876017	VO08099353	0.05	-10	1.43	694	-1	0.51	18	140	2	0.03	-5	18	36	-20	0.23	-10
466795	5492317	876018	VO08099353	0.06	-10	3.13	1520	-1	2.8	132	310	10	0.02	-5	41	94	-20	0.47	10
466758	5492242	876019	VO08099353	0.01	-10	0.15	131	-1	0.06	7	70	-2	0.03	-5	2	2	-20	0.01	-10
466723	5492116	876020	VO08099353	0.11	-10	4.01	1320	-1	0.87	96	260	4	0.13	7	35	91	-20	0.51	-10
Standard: 50 Pb		876021	VO08099353	0.02	-10	6.56	1725	-1	1.58	35	20	2	-0.01	-5	80	30	-20	0.98	-10
473517	5481421	876022	VO08099353	0.02	-10	8.46	1725	-1	1.57	33	20	-2	-0.01	-5	78	31	-20	1.01	-10
473553	5481442	876023	VO08099353	-0.01	-10	2.3	264	-1	0.06	23	10	-2	-0.01	-5	13	3	-20	0.09	-10
473555	5481442	876024	VO08099353	0.04	-10	4.32	975	-1	2.51	45	110	2	0.04	-5	43	64	-20	1.12	10
473572	5481446	876025	VO08099353	-0.01	-10	0.53	98	-1	0.03	9	10	-2	-0.01	-5	5	3	-20	0.02	-10
473593	5481488	876026	VO08099353	0.02	-10	5.37	1490	-1	0.01	47	40	-2	-0.01	-5	23	58	-20	1.16	-10
473596	5481537	876027	VO08099353	1.44	10	2.82	1075	-1	2.23	59	630	2	0.05	-5	24	243	-20	0.61	-10
469082	5490774	876028	VO08099353	0.05	-10	3.89	1260	-1	1.02	67	240	-2	0.04	-5	33	83	-20	0.48	-10
469103	5490845	876029	VO08099353	0.1	-10	3.66	1260	-1	0.89	151	110	-2	0.02	-5	35	99	-20	0.33	-10
469187	5490838	876030	VO08099353	0.17	-10	0.64	427	-1	0.52	12	110	-2	0.07	-5	8	28	-20	0.14	-10
469141	5490749	876031	VO08099353	0.01	-10	0.27	92	-1	0.09	9	20	-2	-0.01	-5	1	1	-20	0.01	-10
469141	5490749	876032	VO08099353	0.01	-10	0.04	77	-1	0.09	2	10	-2	-0.01	-5	1	1	-20	0.01	10
469154	5490793	876033	VO08099353	0.29	-10	3.06	2870	-1	0.65	82	200	-2	0.23	-5	31	68	-20	0.32	10
469358	5490718	876034	VO08099353	0.07	-10	4.79	1250	-1	0.98	148	140	2	0.01	-5	32	124	-20	0.33	10
469743	5491008	876035	VO08099353	0.01	-10	0.33	191	-1	0.11	10	40	-2	-0.01	-5	5	6	-20	0.04	-10
464122	5494167	876036	VO08099353	0.29	-10	4.11	1270	-1	1.8	108	250	3	0.07	-5	34	136	-20	0.47	-10
464489	5494087	876037	VO08099353	0.15	-10	4.24	1335	-1	1.29	146	160	-2	0.02	-5	36	89	-20	0.32	10
469730	5490991	876038	VO08099353	0.02	-10	0.13	61	-1	0.08	6	20	-2	0.01	-5	1	1	-20	0.01	-10
469729	5490989	876039	VO08099353	0.06	-10	4.77	1440	-1	1.44	105	220	-2	0.03	7	50	92	-20	0.69	-10
469814	5490738	876040	VO08099353	0.01	-10	0.3	141	-1	0.08	5	80	-2	-0.01	-5	2	5	-20	0.02	-10
469813	5490747	876041	VO08099353	0.01	-10	0.25	124	-1	0.09	6	40	-2	-0.01	-5	3	11	-20	0.04	-10
469813	5490747	876042	VO08099353	0.08	-10	4.1	1305	-1	1.78	70	290	-2	0.01	-5	34	162	-20	0.58	-10
469869	5490781	876043	VO08099353	0.14	-10	1.2	2440	-1	1.66	-1	700	-2	0.05	-5	38	73	-20	1.01	-10
469870	5490773	876044	VO08099353	-0.01	-10	0.07	120	-1	0.04	-1	40	-2	0.01	-5	2	2	-20	0.04	-10

Easting NAD 83	Northing NAD 83	Sample #	Assay Certificate	K % ME-ICP61	La ppm ME-ICP61	Mg % ME-ICP61	Mn ppm ME-ICP61	Mo ppm ME-ICP61	Na % ME-ICP61	Ni ppm ME-ICP61	P ppm ME-ICP61	Pb ppm ME-ICP61	S % ME-ICP61	Sb ppm ME-ICP61	Sc ppm ME-ICP61	Sr ppm ME-ICP61	Th ppm ME-ICP61	Ti % ME-ICP61	Tl ppm ME-ICP61
469833	5490809	876045	VO08099353	0.14	-10	1.94	2640	-1	1.21	1	540	2	0.22	11	46	48	-20	1.08	10
469833	5490814	876046	VO08099353	0.14	-10	1.99	1350	-1	1.69	6	440	-2	0.11	-5	49	104	-20	1.1	10
469863	5490779	876047	VO08099353	0.03	-10	0.08	167	-1	0.16	-1	120	-2	0.35	-5	4	18	-20	0.12	-10
469969	5490851	876048	VO08099353	0.07	-10	0.66	285	-1	0.49	27	50	2	0.01	-5	8	24	-20	0.2	-10
469967	5490847	876049	VO08099353	0.14	-10	0.08	96	-1	0.03	1	20	-2	0.01	-5	1	4	-20	0.01	-10
469959	5490843	876050	VO08099353	0.01	-10	3	1090	-1	1.63	47	440	-2	0.01	-5	51	100	-20	1.42	-10
466371	5491992	876051	VO08099353	1.07	10	2.89	1235	-1	2.72	70	310	10	0.11	-5	26	501	-20	0.44	10
466489	5492339	876052	VO08099353	0.31	-10	4.34	1335	-1	1.29	103	270	-2	0.05	-5	35	86	-20	0.52	-10
466471	5492355	876053	VO08099353	0.35	-10	4.05	1310	-1	2.52	77	390	9	0.06	6	36	72	-20	0.56	-10
466501	5492374	876054	VO08099353	0.12	-10	3.35	1395	-1	2.16	88	330	15	0.01	-5	35	95	-20	0.53	-10
466496	5492367	876055	VO08099353	0.56	-10	2.94	1215	-1	1.74	75	200	-2	0.02	6	31	145	-20	0.47	-10
466486	5492416	876056	VO08099353	0.12	-10	4.15	1365	-1	1.19	94	210	-2	0.06	5	39	126	-20	0.48	-10
466509	5492394	876057	VO08099353	0.13	-10	3.3	1260	-1	1.27	86	230	-2	0.03	6	37	110	-20	0.46	-10
466670	5492298	876058	VO08099353	0.02	-10	1.35	1725	-1	0.09	109	340	-2	-0.01	-5	41	71	-20	0.52	-10
466630	5492208	876059	VO08099353	0.12	-10	0.17	113	-1	4.16	4	20	11	0.06	-5	2	134	-20	0.04	-10
466627	5492167	876060	VO08099353	0.24	-10	4.68	1405	-1	1.61	157	270	2	-0.01	-5	26	62	-20	0.53	-10
466731	5491941	876061	VO08099353	0.12	10	0.81	408	-1	3.47	3	30	12	0.02	-5	6	133	-20	0.11	-10
466722	5491932	876062	VO08099353	0.51	-10	2.86	1350	-1	1.87	50	430	-2	0.1	-5	36	101	-20	0.7	-10
466789	5492087	876063	VO08099353	0.16	-10	4.43	1395	-1	1.52	102	220	-2	0.01	6	38	93	-20	0.46	-10
466793	5492108	876064	VO08099353	0.15	-10	2.23	1300	-1	0.92	70	200	-2	0.02	-5	29	127	-20	0.38	-10
467060	5492504	876065	VO08099353	0.06	-10	2.1	1520	-1	1.13	135	250	-2	0.06	-5	40	134	-20	0.5	-10
467055	5492500	876066	VO08099353	0.14	-10	3.01	1740	-1	1.18	142	230	-2	0.03	-5	40	99	-20	0.5	-10
467051	5492489	876067	VO08099353	0.2	-10	4.68	1410	-1	1.17	138	240	-2	0.02	5	38	114	-20	0.48	-10
467023	5492505	876068	VO08099353	0.13	-10	5.25	1265	-1	1.7	117	220	-2	-0.01	-5	33	69	-20	0.47	-10
467016	5492500	876069	VO08099353	0.15	-10	4.47	1345	-1	1.35	129	230	-2	0.08	-5	34	97	-20	0.5	-10
466993	5492514	876070	VO08099353	0.12	-10	5.11	1110	-1	2.02	123	190	-2	-0.01	-5	30	98	-20	0.49	-10
467013	5492438	876071	VO08099353	0.13	-10	5.14	1265	-1	1.4	139	140	-2	0.02	-5	36	91	-20	0.36	-10
467031	5492439	876072	VO08099353	0.19	-10	4.15	1185	-1	1.39	133	160	-2	0.06	-5	38	112	-20	0.37	-10
467030	5492440	876073	VO08099353	0.14	-10	4.73	1325	-1	1.25	131	140	-2	0.01	-5	31	106	-20	0.36	-10
466981	5492322	876074	VO08099353	0.1	-10	2.63	896	-1	1.6	69	90	-2	0.01	-5	29	62	-20	0.45	-10
466967	5492330	876075	VO08099353	0.31	-10	4.4	1180	-1	2.07	78	250	-2	-0.01	-5	38	191	-20	0.55	-10
466959	5492350	876076	VO08099353	0.18	-10	3.06	1610	-1	0.67	54	210	-2	0.02	-5	37	64	-20	0.59	-10
467000	5492270	876077	VO08099353	-0.01	-10	0.28	214	-1	0.1	3	80	-2	0.04	-5	2	3	-20	0.03	-10
466996	5492280	876078	VO08099353	0.08	-10	4.34	1580	-1	1.59	62	190	-2	0.02	-5	43	118	-20	0.54	-10
466980	5492285	876079	VO08099353	-0.01	-10	0.04	67	-1	0.01	-1	90	-2	0.18	-5	-1	1	-20	0.01	-10
466846	5491852	876080	VO08099353	0.13	-10	3.71	1430	-1	1.15	75	360	-2	0.03	-5	39	154	-20	0.66	-10
466847	5491836	876081	VO08099353	0.01	-10	0.74	137	-1	0.3	9	60	-2	-0.01	-5	11	51	-20	0.08	-10
466845	5491828	876082	VO08099353	0.04	-10	1.19	229	2	0.87	13	90	-2	0.01	-5	14	73	-20	0.13	-10
467022	5491878	876083	VO08099353	0.06	-10	3.57	1605	-1	1.54	108	210	-2	0.04	-5	39	97	-20	0.47	-10
467234	5492374	876084	VO08099353	0.12	-10	3.89	1400	-1	1.74	126	240	-2	0.03	-5	38	120	-20	0.49	-10
467216	5492305	876085	VO08099353	0.04	-10	2.6	1230	-1	0.77	134	80	-2	-0.01	-5	38	84	-20	0.37	-10
467201	5492327	876086	VO08099353	0.06	-10	1.76	839	-1	1.32	78	50	-2	0.02	-5	22	53	-20	0.22	-10
467153	5492176	876087	VO08099353	0.01	-10	0.13	183	-1	0.04	3	280	12	0.02	-5	1	4	-20	0.02	-10
467155	5492177	876088	VO08099353	0.01	-10	0.99	350	-1	0.22	8	90	-2	0.01	-5	9	7	-20	0.14	-10
467096	5492177	876089	VO08099353	0.05	-10	2.3	1035	-1	0.35	56	120	-2	0.01	-5	19	61	-20	0.23	-10
467038	5491885	876090	VO08099353	0.07	-10	2.28	1250	-1	1.58	73	130	-2	0.03	-5	27	54	-20	0.34	-10
467125	5491749	876091	VO08099353	0.12	-10	4.28	1400	-1	0.92	100	320	-2	0.21	-5	37	94	-20	0.5	-10
467116	5491703	876092	VO08099353	0.06	-10	2.96	1420	-1	1.66	110	160	2	0.02	-5	37	85	-20	0.47	-10
467455	5492403	876093	VO08099353	1.12	10	0.88	697	-1	2.83	54	680	-2	0.2	-5	14	164	-20	0.21	-10
467686	5492428	876094	VO08099353	0.05	-10	4.02	1415	-1	2.32	70	380	3	-0.01	-5	40	104	-20	0.63	-10
467681	5492462	876095	VO08099353	0.05	10	3.59	1555	-1	1.51	86	500	-2	0.03	-5	40	83	-20	0.84	-10
467599	5492165	876096	VO08099353	0.11	-10	2.71	1085	-1	1.84	63	300	-2	0.05	-5	43	74	-20	0.36	-10
467585	5492167	876097	VO08099353	0.19	-10	2.05	1425	-1	1.79	70	310	-2	0.42	-5	39	85	-20	0.38	-10
467603	5492069	876098	VO08099353	0.58	10	0.66	1580	-1	1.58	1	930	-2	0.09	-5	26	245	-20	0.89	-10
467542	5492081	876099	VO08099353	0.98	10	0.53	1145	-1	1.95	34	330	6	0.05	-5	5	276	-20	0.1	-10
467542	5492081	876100	VO08099353	0.95	10	0.65	705	-1	2.02	46	340	5	0.08	-5	5	246	-20	0.1	-10
467661	5491571	876101	VO08099353	0.04	-10	2.58	1145	1	0.93	29	120	5	0.01	-5	36	36	-20	0.5	-10
467590	5491508	876102	VO08099353	0.1	-10	3.84	1460	-1	1.04	103	210	-2	0.05	-5	38	125	-20	0.48	-10
467527	5491509	876103	VO08099353	0.07	10	4.32	1380	-1	0.83	109	280	-2	0.01	-5	38	83	-20	0.46	-10
467532	5491517	876104	VO08099353	0.09	10	4.44	1410	-1	1.23	100	270	-2	0.02	-5	38	69	-20	0.49	-10

Easting NAD 83	Northing NAD 83	Sample #	Assay Certificate	K % ME-ICP61	La ppm ME-ICP61	Mg % ME-ICP61	Mn ppm ME-ICP61	Mo ppm ME-ICP61	Na % ME-ICP61	Ni ppm ME-ICP61	P ppm ME-ICP61	Pb ppm ME-ICP61	S % ME-ICP61	Sb ppm ME-ICP61	Sc ppm ME-ICP61	Sr ppm ME-ICP61	Th ppm ME-ICP61	Ti % ME-ICP61	Tl ppm ME-ICP61
467552	5491540	876105	VO08099353	0.33	-10	4.73	1495	-1	1.3	137	240	-2	0.04	-5	37	151	-20	0.43	-10
467451	5491647	876106	VO08099353	0.05	-10	4	1485	-1	1.22	122	270	2	0.08	-5	37	163	-20	0.46	-10
467475	5491622	876107	VO08099353	0.08	-10	3.83	1350	-1	1.66	104	240	6	0.07	-5	35	126	-20	0.44	-10
467520	5491837	876108	VO08099353	-0.01	-10	3.34	1670	-1	0.02	35	80	5	0.11	-5	1	17	-20	0.01	-10
467791	5492440	876109	VO08099353	0.05	-10	3.77	1370	-1	1.64	86	370	-2	0.07	-5	38	76	-20	0.61	-10
464288	5494074	876110	VO08099353	0.3	-10	2.91	1855	-1	1.65	88	280	-2	0.05	-5	39	105	-20	0.5	-10
464284	5494073	876111	VO08099353	0.27	-10	2.22	1545	-1	1.03	82	320	5	0.08	-5	41	158	-20	0.51	-10
464577	5494033	876112	VO08099353	0.11	-10	4.12	1325	-1	1.06	171	190	-2	0.04	-5	34	131	-20	0.35	-10
465055	5494769	876113	VO08099351	0.01	-10	0.38	125	1	0.1	19	40	-2	0.01	-5	3	6	-20	0.05	-10
469806	5490957	876114	VO08099351	0.03	-10	0.59	254	1	0.22	21	30	-2	0.02	-5	7	14	-20	0.1	-10
469808	5490953	876115	VO08099351	0.07	10	3.49	1425	-1	1.31	96	260	-2	0.17	-5	37	100	-20	0.5	-10
469792	5490930	876116	VO08099351	0.01	-10	0.14	92	1	0.07	6	-10	-2	0.01	-5	1	4	-20	0.01	-10
469795	5490928	876117	VO08099351	0.03	-10	0.56	789	1	0.29	17	80	2	0.01	-5	4	26	-20	0.05	-10
469785	5490929	876118	VO08099351	0.05	10	3.41	1385	-1	1.67	106	250	-2	0.13	-5	38	111	-20	0.52	-10
469763	5490912	876119	VO08099351	0.12	-10	0.24	102	1	0.23	46	70	4	0.36	-5	2	13	-20	0.04	-10
469894	5490707	876120	VO08099351	0.02	-10	0.04	52	1	0.04	4	10	-2	0.01	-5	1	4	-20	0.01	-10
470021	5490808	876121	VO08099351	1.33	-10	3.01	534	-1	1.16	103	220	-2	0.03	-5	21	66	-20	0.16	-10
474188	5481506	876122	VO08099351	0.12	-10	2.5	1670	-1	1.45	35	630	-2	0.24	-5	41	148	-20	1.09	-10
474192	5481508	876123	VO08099351	0.12	-10	2.48	1665	-1	1.41	42	720	2	0.32	6	41	148	-20	1.13	-10
469747	5490864	876124	VO08099351	0.07	-10	3.29	1260	-1	1.01	30	290	-2	0.13	6	44	140	-20	0.57	-10
469861	5490782	876125	VO08099351	0.06	-10	0.3	484	-1	0.41	1	270	5	1.01	6	11	38	-20	0.29	-10
469977	5490647	876126	VO08099351	-0.01	-10	0.02	30	-1	0.01	1	10	-2	0.01	-5	1	1	-20	-0.01	-10
STANDARD7-Oreas 18Pb		876127	VO08099351	0.58	10	3.04	1640	2	1.58	125	1400	18	1.59	9	15	299	-20	0.76	-10
464386	5494096	876151	VO08099351	1.71	10	0.38	269	-1	3.2	4	590	5	0.01	-5	3	595	-20	0.22	-10
465052	5494720	876152	VO08099351	0.32	-10	4.78	1160	-1	1.88	93	130	2	-0.01	-5	47	40	-20	0.3	-10
465065	5494723	876153	VO08099351	0.19	-10	5.07	1095	-1	1.15	109	90	-2	0.01	-5	43	70	-20	0.25	-10
465050	5494734	876154	VO08099351	0.1	-10	4.68	1150	-1	2.43	132	110	-2	0.01	-5	37	39	-20	0.29	-10
465038	5494730	876155	VO08099351	0.09	-10	4.98	1075	-1	1.12	108	90	4	0.01	-5	41	74	-20	0.25	-10
465667	5494525	794342	VO08099352	0.05	10	1.16	1140	-1	0.11	84	150	-2	0.34	-5	27	281	20	0.28	-10
465617	5494291	794343	VO08099352	1.38	20	0.47	420	-1	3.01	3	440	3	0.02	-5	3	156	20	0.19	-10
465511	5494086	794344	VO08099352	0.95	10	0.45	315	-1	2.97	4	420	2	0.01	-5	3	268	-20	0.21	-10
465475	5494004	794345	VO08099352	0.71	10	0.89	487	1	2.79	18	570	2	-0.01	-5	10	213	-20	0.27	-10
465318	5494646	794346	VO08099352	0.01	-10	0.12	134	1	0.03	7	20	-2	0.02	-5	1	6	-20	0.01	-10
465210	5494680	794347	VO08099352	0.78	30	2.47	854	1	2.27	61	1140	-2	0.02	-5	17	545	20	0.41	-10
469095	5491428	794348	VO08099352	0.06	10	3.86	1260	-1	1.12	101	240	-2	0.08	-5	35	101	20	0.46	-10
469092	5491445	794349	VO08099352	0.15	10	3.96	1260	-1	1.55	94	220	-2	0.04	-5	36	97	-20	0.47	-10
468991	5491931	794350	VO08099352	0.34	10	3.51	1410	-1	1.77	37	290	-2	0.14	-5	41	99	20	0.48	-10
467419	5491593	794440	VO08099352	0.63	10	7.17	1130	-1	1.43	220	1350	-2	0.01	-5	36	424	-20	0.73	10
467526	5491989	794441	VO08099352	0.15	-10	4.29	1340	-1	1.16	120	330	-2	-0.01	-5	36	115	-20	0.46	-10
467483	5491937	794442	VO08099352	0.75	-10	4.9	1200	-1	1.26	168	140	-2	0.06	-5	36	124	-20	0.33	-10
467512	5491951	794443	VO08099352	0.51	-10	4.73	1265	-1	1.32	156	130	-2	0.01	-5	36	103	-20	0.33	10
467550	5491541	794444	VO08099352	0.06	-10	3.77	1310	-1	0.83	102	220	-2	0.01	-5	41	151	-20	0.5	-10
467562	5491564	794445	VO08099352	0.13	-10	4.55	1390	-1	1.23	114	230	-2	0.02	-5	40	135	-20	0.49	10
467508	5491552	794446	VO08099352	0.16	-10	4.3	1285	-1	1.24	100	200	-2	0.14	-5	40	80	-20	0.5	10
467491	5491546	794447	VO08099352	0.08	-10	2.78	866	-1	0.69	78	160	-2	-0.01	-5	25	82	-20	0.35	-10
467419	5491593	794448	VO08099352	0.11	-10	2.83	1310	-1	2.04	106	200	-2	0.04	-5	39	90	-20	0.49	-10
464540	5494510	794449	VO08099352	1.08	10	0.35	203	-1	3.46	4	380	-2	-0.01	-5	2	426	-20	0.17	-10
464540	5494510	794450	VO08099352	0.79	-10	3.25	107	-1	2.46	3	280	2	-0.01	-5	1	376	-20	0.12	-10
466263	5492694	794467	VO08099352	0.01	-10	0.12	85	1	0.03	4	10	-2	-0.01	-5	1	-1	-20	0.01	-10
465169	5494711	794468	VO08099352	0.03	-10	0.7	225	2	0.64	16	40	-2	-0.01	-5	6	6	-20	0.06	-10
465175	5494216	794469	VO08099352	1.04	20	0.72	538	-1	2.93	4	800	3	0.01	-5	9	289	-20	0.31	-10
465028	5493842	794470	VO08099352	0.11	-10	4.67	1370	-1	1.18	146	200	-2	0.01	6	36	104	-20	0.4	10
465221	5493800	794471	VO08099352	0.22	-10	3.11	1410	-1	2.15	73	240	-2	0.13	-5	45	65	-20	0.53	10
469146	5491844	794472	VO08099352	0.01	-10	0.05	59	1	0.02	3	-10	-2	-0.01	-5	-1	1	-20	0.01	-10
469103	5491635	794473	VO08099352	1.4	-10	0.24	86	3	1.35	13	210	-2	0.42	-5	19	24	-20	0.45	-10
469075	5491630	794474	VO08099352	0.15	-10	3.88	1375	-1	2.26	87	410	-2	0.06	-5	40	71	-20	0.79	10
468825	5491772	794475	VO08099352	0.03	-10	1.08	536	1	0.79	22	150	-2	-0.01	-5	11	24	-20	0.28	-10
468708	5492081	794476	VO08099352	0.03	-10	4.66	1470	-1	1.18	92	240	-2	0.05	-5	42	121	-20	0.5	-10
468669	5491966	794477	VO08099352	0.22	-10	3.15	1415	-1	2.12	111	230	-2	0.13	-5	41	130	-20	0.49	10
468602	5491730	794478	VO08099352	0.18	10	2.03	1715	-1	1.44	-1	820	-2	0.02	-5	42	42	-20	1.2	10

Easting NAD 83	Northing NAD 83	Sample #	Assay Certificate	K % ME-ICP61	La ppm ME-ICP61	Mg % ME-ICP61	Mn ppm ME-ICP61	Mo ppm ME-ICP61	Na % ME-ICP61	Ni ppm ME-ICP61	P ppm ME-ICP61	Pb ppm ME-ICP61	S % ME-ICP61	Sb ppm ME-ICP61	Sc ppm ME-ICP61	Sr ppm ME-ICP61	Th ppm ME-ICP61	Ti % ME-ICP61	Tl ppm ME-ICP61
468600	5491693	794479	VO08099352	0.24	-10	4.51	1555	-1	1.46	58	270	-2	0.04	-5	58	102	-20	0.8	-10
468626	5491663	794480	VO08099352	0.11	-10	4.07	1435	-1	1.39	113	250	-2	0.04	-5	38	106	-20	0.51	10
467622	5492583	794481	VO08099352	0.07	-10	3.84	1370	-1	1.47	84	280	-2	0.07	-5	38	175	-20	0.54	-10
467620	5492574	794482	VO08099352	1.67	-10	0.27	99	-1	3.12	2	60	-2	-0.01	-5	1	91	-20	0.05	-10
467587	5492519	794483	VO08099352	0.01	-10	3.23	1415	-1	1.45	126	210	-2	0.09	-5	40	123	-20	0.48	10
467507	5492348	794484	VO08099352	0.03	-10	4.17	1405	-1	1.68	46	240	-2	0.01	-5	41	140	-20	0.52	10
467467	5492124	794485	VO08099352	0.01	-10	1	1450	-1	0.18	20	120	-2	-0.01	-5	13	11	-20	0.18	-10
467296	5491637	794486	VO08099352	0.11	-10	4.55	1435	-1	1.42	102	200	-2	0.04	-5	41	103	-20	0.5	-10
467698	5491755	794487	VO08099352	0.45	-10	3.04	1830	1	0.67	49	100	-2	0.01	-5	31	20	-20	0.27	10
467122	5491817	794488	VO08099352	0.13	-10	5.05	1470	-1	1.85	119	190	-2	0.06	5	42	94	-20	0.5	-10
467144	5491857	794489	VO08099352	0.16	-10	4.3	1435	-1	1.4	122	210	-2	0.01	-5	39	132	-20	0.46	-10
466943	5491808	794490	VO08099352	0.1	-10	4.85	1585	-1	1.4	102	290	-2	0.01	-5	39	88	-20	0.69	10
466943	5491808	794491	VO08099352	0.1	-10	3.78	1410	-1	1.3	85	280	-2	0.05	-5	37	105	-20	0.65	10
467104	5491814	794492	VO08099352	0.11	-10	4.64	1335	-1	1.23	116	190	-2	0.03	-5	36	74	-20	0.45	10
466915	5491765	794493	VO08099352	0.08	-10	1.19	677	-1	0.46	28	150	-2	0.01	-5	15	59	-20	0.27	-10
467014	5492048	794494	VO08099352	0.22	-10	4.18	1360	-1	1.51	106	190	-2	-0.01	-5	37	126	-20	0.41	10
467024	5492074	794495	VO08099352	0.17	-10	4.75	1350	-1	1.39	135	220	-2	0.03	-5	39	91	-20	0.45	10
Standard: Oreas 15Pa		794496	VO08099352	0.58	20	3.67	1150	-1	1.98	130	1290	6	0.46	-5	17	357	-20	0.92	10
467050	5492157	794497	VO08099352	0.22	-10	4.45	1350	-1	1.12	105	200	2	0.01	-5	38	124	-20	0.46	-10
467084	5492231	794498	VO08099352	0.05	-10	2.12	998	-1	0.84	21	200	-2	0.01	-5	27	63	-20	0.38	-10
467133	5492350	794499	VO08099352	0.15	-10	0.41	172	-1	1.34	4	100	-2	-0.01	-5	1	106	-20	0.08	-10
467680	5491571	794500	VO08099352	0.07	-10	2.54	1355	-1	1.4	69	250	-2	0.02	-5	40	138	-20	0.5	10

Standard
Duplicate

Easting NAD 83	Northing NAD 83	Sample #	Assay Certificate	U ppm ME-ICP61	V ppm ME-ICP61	W ppm ME-ICP61	Zn ppm ME-ICP61	Cu % Cu-OG62
469855	5490796	866036	TB08127354	-10	60	-10	12	
469859	5490784	866037	TB08127354	-10	29	-10	41	
460801	5496059	876434	TB08127354	-10	256	-10	100	
460822	5496069	876435	TB08127354	-10	22	-10	16	
469864	5490783	876436	TB08127354	-10	2	-10	2	
469863	5490785	876437	TB08127354	-10	2	-10	3	
469863	5490785	876438	TB08127354	-10	9	-10	10	
469863	5490785	876439	TB08127354	-10	12	-10	12	
470426	5490162	876475	TB08127354	-10	230	-10	82	
470440	5490169	876476	TB08127354	-10	200	-10	69	
470868	5490125	876477	TB08127354	-10	256	-10	82	
470868	5490120	876478	TB08127354	-10	208	-10	65	
470721	5490329	876479	TB08127354	-10	219	-10	53	
470323	5490527	876480	TB08127354	-10	239	-10	57	
470325	5490528	876481	TB08127354	-10	90	-10	23	
470097	5490559	876482	TB08127354	-10	106	-10	33	
469077	5491950	876001	VO08099353	-10	239	-10	148	
469056	5491834	876002	VO08099353	-10	240	-10	85	
468989	5491665	876003	VO08099353	10	318	-10	102	
468620	5491509	876004	VO08099353	-10	224	-10	35	
468627	5491528	876005	VO08099353	-10	255	-10	50	
468656	5491570	876006	VO08099353	-10	240	-10	80	
468693	5491645	876007	VO08099353	-10	235	-10	77	
466475	5491988	876008	VO08099353	-10	296	-10	90	
466472	5492026	876009	VO08099353	-10	286	-10	88	
466489	5492020	876010	VO08099353	20	34	-10	24	
466492	5492014	876011	VO08099353	10	78	-10	41	
466492	5492014	876012	VO08099353	10	93	-10	50	
466513	5492024	876013	VO08099353	-10	295	-10	67	
466531	5492179	876014	VO08099353	-10	309	-10	193	
466669	5492582	876015	VO08099353	-10	322	-10	121	
466820	5492393	876016	VO08099353	-10	38	20	6	
466819	5492397	876017	VO08099353	-10	119	-10	54	
466795	5492317	876018	VO08099353	10	246	-10	91	
466758	5492242	876019	VO08099353	-10	9	-10	9	
466723	5492116	876020	VO08099353	-10	239	-10	118	
Standard: 50 Pb		876021	VO08099353	-10	89	10	35	
473517	5481421	876022	VO08099353	-10	89	-10	34	
473553	5481442	876023	VO08099353	-10	70	-10	24	
473555	5481442	876024	VO08099353	10	129	-10	35	
473572	5481446	876025	VO08099353	-10	25	-10	6	
473593	5481488	876026	VO08099353	-10	152	-10	41	
473598	5481537	876027	VO08099353	-10	189	-10	78	
469082	5490774	876028	VO08099353	-10	249	-10	131	
469103	5490845	876029	VO08099353	-10	210	-10	69	
469187	5490838	876030	VO08099353	-10	50	-10	19	
469141	5490749	876031	VO08099353	-10	9	-10	5	
469141	5490749	876032	VO08099353	-10	2	-10	2	
469154	5490793	876033	VO08099353	-10	189	-10	116	
469358	5490718	876034	VO08099353	-10	205	-10	71	
469743	5491008	876035	VO08099353	-10	30	-10	8	
464122	5494167	876036	VO08099353	-10	225	-10	97	
464489	5494087	876037	VO08099353	-10	200	-10	66	
469730	5490991	876038	VO08099353	-10	8	-10	4	
469729	5490989	876039	VO08099353	-10	332	10	103	
469814	5490738	876040	VO08099353	-10	16	-10	15	
469813	5490747	876041	VO08099353	-10	17	-10	7	
469813	5490747	876042	VO08099353	-10	249	-10	101	
469869	5490781	876043	VO08099353	-10	82	-10	156	
469870	5490773	876044	VO08099353	-10	3	-10	4	

Easting NAD 83	Northing NAD 83	Sample #	Assay Certificate	U ppm ME-ICP61	V ppm ME-ICP61	W ppm ME-ICP61	Zn ppm ME-ICP61	Cu % Cu-OG62
469833	5490809	876045	VO08099353	-10	381	-10	122	
469833	5490814	876046	VO08099353	-10	542	-10	59	
469863	5490779	876047	VO08099353	-10	9	-10	5	
469969	5490851	876048	VO08099353	-10	62	-10	24	
469967	5490847	876049	VO08099353	-10	12	-10	5	
469959	5490843	876050	VO08099353	-10	950	-10	46	
466371	5491992	876051	VO08099353	10	204	10	91	
466489	5492339	876052	VO08099353	-10	249	-10	72	
466471	5492355	876053	VO08099353	10	273	-10	96	
466501	5492374	876054	VO08099353	10	238	-10	124	
466496	5492367	876055	VO08099353	10	226	-10	75	
466486	5492418	876056	VO08099353	-10	245	-10	84	
466509	5492394	876057	VO08099353	-10	237	-10	82	
466670	5492298	876058	VO08099353	-10	228	-10	160	
466630	5492208	876059	VO08099353	30	12	-10	18	
466627	5492167	876060	VO08099353	10	235	-10	160	
466731	5491941	876061	VO08099353	20	112	-10	62	
466722	5491932	876062	VO08099353	10	281	-10	99	
466789	5492087	876063	VO08099353	10	235	-10	79	
466793	5492108	876064	VO08099353	-10	194	-10	78	
467060	5492504	876065	VO08099353	-10	257	-10	84	
467055	5492500	876066	VO08099353	10	255	-10	93	
467051	5492489	876067	VO08099353	10	241	-10	78	
467023	5492505	876068	VO08099353	10	236	-10	84	
467016	5492500	876069	VO08099353	-10	251	-10	87	
466993	5492514	876070	VO08099353	10	250	-10	84	
467013	5492438	876071	VO08099353	-10	215	-10	69	
467031	5492439	876072	VO08099353	10	219	-10	79	
467030	5492440	876073	VO08099353	-10	212	-10	73	
466981	5492322	876074	VO08099353	10	207	-10	93	
466967	5492330	876075	VO08099353	10	261	-10	98	
466959	5492350	876076	VO08099353	-10	285	-10	114	
467000	5492270	876077	VO08099353	-10	17	-10	7	
466996	5492280	876078	VO08099353	10	279	-10	94	
466980	5492285	876079	VO08099353	-10	4	-10	2	
466846	5491852	876080	VO08099353	-10	281	-10	100	
466847	5491836	876081	VO08099353	-10	119	-10	16	
466845	5491828	876082	VO08099353	10	161	-10	30	
467022	5491878	876083	VO08099353	-10	248	-10	83	
467234	5492374	876084	VO08099353	10	242	-10	86	
467216	5492305	876085	VO08099353	-10	200	-10	78	
467201	5492327	876086	VO08099353	10	132	-10	57	
467153	5492176	876087	VO08099353	-10	12	-10	2	
467155	5492177	876088	VO08099353	-10	71	-10	22	
467095	5492177	876089	VO08099353	-10	135	-10	46	
467038	5491885	876090	VO08099353	10	179	-10	59	
467125	5491749	876091	VO08099353	-10	263	-10	91	
467116	5491703	876092	VO08099353	-10	255	-10	84	
467455	5492403	876093	VO08099353	-10	110	-10	98	
467686	5492428	876094	VO08099353	-10	317	-10	94	
467681	5492462	876095	VO08099353	-10	349	-10	132	
467599	5492165	876096	VO08099353	-10	304	-10	109	
467585	5492167	876097	VO08099353	-10	265	-10	112	
467603	5492069	876098	VO08099353	-10	31	-10	162	
467542	5492081	876099	VO08099353	-10	33	-10	41	
467542	5492081	876100	VO08099353	-10	40	-10	47	
467661	5491571	876101	VO08099353	-10	265	-10	81	
467590	5491508	876102	VO08099353	-10	265	-10	91	
467527	5491509	876103	VO08099353	-10	265	-10	88	
467532	5491517	876104	VO08099353	-10	276	-10	87	

Easting NAD 83	Northing NAD 83	Sample #	Assay Certificate	U ppm ME-ICP61	V ppm ME-ICP61	W ppm ME-ICP61	Zn ppm ME-ICP61	Cu % Cu-OG62
467552	5491540	876105	VO08099353	-10	259	-10	85	
467451	5491647	876106	VO08099353	-10	258	-10	96	
467475	5491622	876107	VO08099353	-10	249	-10	96	
467520	5491837	876108	VO08099353	10	11	-10	19	
467791	5492440	876109	VO08099353	-10	316	-10	121	
464288	5494074	876110	VO08099353	-10	277	-10	109	
464284	5494073	876111	VO08099353	-10	286	-10	89	
464577	5494033	876112	VO08099353	-10	224	-10	79	
465055	5494769	876113	VO08099351	-10	18	-10	5	
469806	5490957	876114	VO08099351	-10	46	-10	14	
469808	5490953	876115	VO08099351	-10	265	-10	81	
469792	5490930	876116	VO08099351	-10	10	-10	3	
469795	5490928	876117	VO08099351	-10	30	-10	12	
469785	5490929	876118	VO08099351	-10	267	-10	85	
469763	5490912	876119	VO08099351	-10	23	-10	3	
469894	5490707	876120	VO08099351	10	3	-10	-2	
470021	5490808	876121	VO08099351	-10	187	-10	38	
474188	5481506	876122	VO08099351	-10	387	-10	74	
474192	5481508	876123	VO08099351	-10	380	-10	76	
469747	5490864	876124	VO08099351	-10	288	-10	73	
469861	5490782	876125	VO08099351	-10	20	-10	16	
469977	5490647	876126	VO08099351	-10	1	-10	-2	
STANDARD?-Oreas. 18Pb		876127	VO08099351	-10	130	-10	118	
464386	5494096	876151	VO08099351	10	26	-10	60	
465052	5494720	876152	VO08099351	10	184	-10	52	
465065	5494723	876153	VO08099351	-10	186	-10	54	
465050	5494734	876154	VO08099351	10	169	-10	72	
465038	5494730	876155	VO08099351	-10	187	-10	52	
465667	5494525	794342	VO08099352	10	189	-10	61	
465617	5494291	794343	VO08099352	10	32	-10	44	
465511	5494086	794344	VO08099352	10	32	-10	60	
465475	5494004	794345	VO08099352	10	64	-10	57	
465318	5494646	794346	VO08099352	-10	7	-10	7	
465210	5494680	794347	VO08099352	10	132	-10	111	
469095	5491428	794348	VO08099352	10	243	-10	76	
469092	5491445	794349	VO08099352	10	250	-10	83	
468991	5491931	794350	VO08099352	10	260	-10	90	
467419	5491593	794440	VO08099352	-10	247	-10	86	
467526	5491989	794441	VO08099352	-10	238	-10	75	
467483	5491937	794442	VO08099352	-10	198	-10	59	
467512	5491951	794443	VO08099352	10	196	-10	95	
467550	5491541	794444	VO08099352	10	254	-10	78	
467562	5491564	794445	VO08099352	-10	249	-10	83	
467508	5491552	794446	VO08099352	-10	248	-10	85	
467491	5491546	794447	VO08099352	-10	158	-10	59	
467419	5491593	794448	VO08099352	10	247	-10	79	
464540	5494510	794449	VO08099352	10	20	-10	51	
464540	5494510	794450	VO08099352	20	15	-10	41	
466263	5492694	794467	VO08099352	-10	8	-10	3	
465169	5494711	794468	VO08099352	10	22	-10	11	
465175	5494216	794469	VO08099352	10	55	-10	82	
465028	5493842	794470	VO08099352	-10	213	-10	78	
465221	5493800	794471	VO08099352	10	279	-10	81	
469146	5491844	794472	VO08099352	-10	5	-10	11	
469103	5491635	794473	VO08099352	-10	167	20	9	
469075	5491630	794474	VO08099352	10	324	-10	99	
468825	5491772	794475	VO08099352	-10	98	-10	33	
468708	5492081	794476	VO08099352	-10	265	-10	86	
468669	5491966	794477	VO08099352	10	264	-10	91	
468602	5491730	794478	VO08099352	-10	213	-10	66	

Easting NAD 83	Northing NAD 83	Sample #	Assay Certificate	U ppm ME-ICP61	V ppm ME-ICP61	W ppm ME-ICP61	Zn ppm ME-ICP61	Cu % Cu-OG62
468600	5491693	794479	VO08099352	-10	410	-10	105	
468626	5491663	794480	VO08099352	-10	256	-10	90	
467622	5492583	794481	VO08099352	10	260	-10	97	
467620	5492574	794482	VO08099352	10	8	-10	23	
467587	5492519	794483	VO08099352	10	260	-10	84	
467507	5492348	794484	VO08099352	-10	266	-10	89	
467467	5492124	794485	VO08099352	-10	91	-10	47	
467295	5491637	794486	VO08099352	-10	252	-10	92	
467698	5491755	794487	VO08099352	-10	206	-10	136	
467122	5491817	794488	VO08099352	-10	251	-10	88	
467144	5491857	794489	VO08099352	-10	240	-10	84	
466943	5491808	794490	VO08099352	-10	289	-10	124	
466943	5491808	794491	VO08099352	10	276	10	109	
467104	5491814	794492	VO08099352	-10	226	-10	83	
466915	5491765	794493	VO08099352	-10	119	-10	37	
467014	5492048	794494	VO08099352	10	227	-10	89	
467024	5492074	794495	VO08099352	-10	233	-10	84	
Standard: Oreas 15Pa		794496	VO08099352	-10	141	-10	107	
467050	5492157	794497	VO08099352	-10	232	-10	96	
467084	5492231	794498	VO08099352	-10	186	-10	101	
467133	5492350	794499	VO08099352	-10	20	-10	20	
467680	5491571	794500	VO08099352	-10	254	-10	70	

Standard
Duplicate

APPENDIX II

ABITIBI GEOPHYSICS

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DIAGNOS INC.

RESISTIVITY / INDUCED POLARIZATION & GROUND *INFINITEM*® SURVEYS

ARIANNE PROPERTY
JAMES BAY MUNICIPALITY
QUEBEC, CANADA
INTERPRETATION REPORT

07N092B APRIL 2008

INFINI-TEM®
Patent No.: US 7,116,107 B2

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APPENDIXES

ABSTRACT

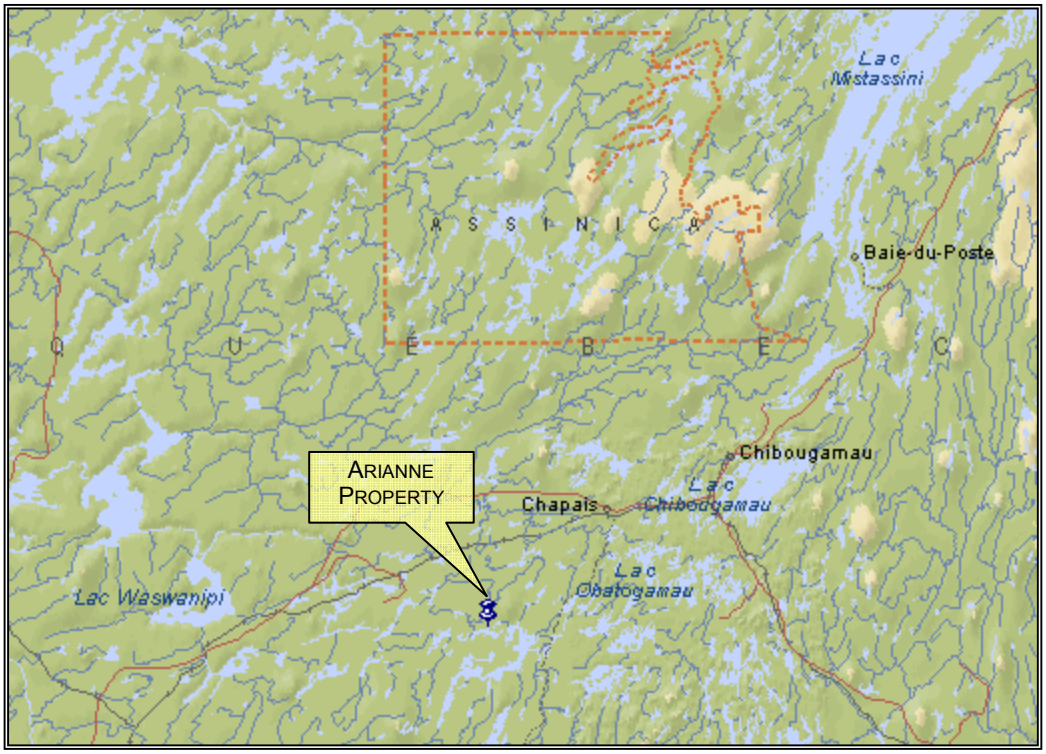
*On behalf of Diagnos Inc., a **Resistivity / Induced Polarization** and a ground **InfiniTEM®** TDEM survey were carried out over the Arianne Property. The complementary use of both techniques will allow us to map the full range from disseminated to massive sulphides mineralization.*

*During the months of February and March 2008, **23.08 km** of IP surveying (dipole-dipole; a = 25 m and n = 1 to 6) and **10.11 km** of ground InfiniTEM® were carried out over part of the **Arianne Property**. Survey specifications, instrumentation control, data acquisition, processing and interpretation were all successfully performed within our Quality System framework.*

*A total of nineteen chargeability anomalies were identified on the **A1 Grid** and twenty three on the **A2 Grid.** On the **A1 Grid**, the IP anomalies extend NW-SE and are probably caused by shallow sources. The most interesting targets could be related to quartz veins style mineralization (**A1-02**, **A1-04** and the northern portion of **A1-05**). On the **A2 Grid**, the most promising targets (**A2-03**, **A2-04**, **A2-05**, **A2-07**, **A2-08**, **A2-09**, **A2-11**, and **A2-18**) do not have a resistive association which could allow to interpret their origins. However, prospecting and drilling is suggested to better define their origin. One ground InfiniTEM® anomaly (**A2-EM01**) was detected over the **A2 Grid.** It shows a moderate to poor conductance which seems to correspond to a chargeable and conductive anomaly (**A2-09**). On both grids, large conductive areas disrupt the background and could be related to shear zones (two faults were interpreted on the **A1** and **A2 Grids**).*

1. THE MANDATE

❑ *PROJECT ID*	**Arianne Property** (Our reference: **07N092B**)
❑ *GENERAL LOCATION*	James Bay Municipality, Quebec, Canada.
❑ *CUSTOMER*	**Diagnos Inc.** 7005, boul. Taschereau, # 340 Brossard, Quebec, Canada J4Z 1A7 Phone: (450) 678-8882, extension 239. Fax: (450) 678-8119
❑ *REPRESENTATIVE*	**Mr. Jean-Philippe Mai**, B. Sc., GIT Project Manager - Diagnos Inc. jpmai@diagnos.ca
❑ *SURVEY TYPE*	• **Time domain resistivity / induced polarization** • **Ground *InfiniTEM*® TDEM**
❑ *GEOPHYSICAL OBJECTIVES*	• Assess the presence of semi-massive, massive and disseminated sulphides. • Propose a follow-up program over the most promising anomalies.



GENERAL LOCATION OF THE ARIANNE PROPERTY

2. THE ARIANNE PROPERTY

- ❑ *LOCATION*: James Bay Municipality
  Centered on ~49° 33' N and ~75° 20' W
  NTS sheets: **32G/06**, **11 & 12**

- ❑ *NEAREST SETTLEMENT*: **Chapais** (approximately 43 km towards the northeast from the Arianne Property).

- ❑ *ACCESS*: About 15 km before the town of Chapais, drive south for approximately 37 km on a logging road and turn west. From there, continue for about 15 km to reach the Arianne Property.

- ❑ *GEOMORPHOLOGY*: The property lies over a flat terrain crossed by several rivers. The topography presents a denivelation of approximately 16 feet. It is covered by dense vegetation and some swamps.

- ❑ *CULTURAL FEATURES*: None over the survey area.

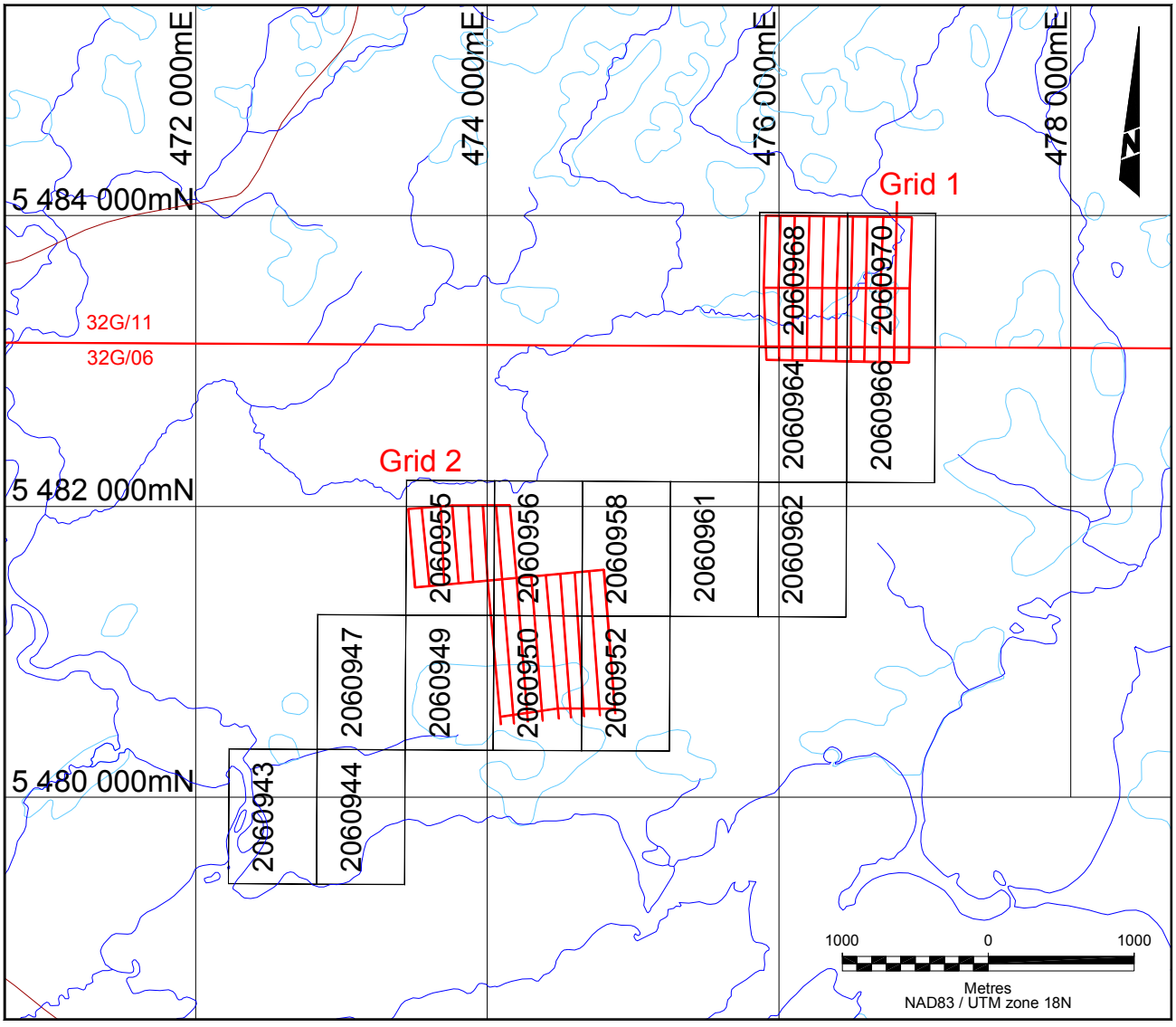
- ❑ *SURVEY GRIDS*: The Arianne Property includes two survey grids, named **A1** and **A2**.

  A1 Grid consists of N-S survey lines at 100 m interval extending from lines 0+00E to 9+00E, crossed by a baseline (0+00) and two tie lines (5+00N and 5+00S). All lines were picketed at every 25 m.

  A2 Grid consists of N-S survey lines of variable length at 100 m interval extending from 0+00E to 13+00E. One base line and (0+00) two tie lines (5+00N and 10+00S) cross the survey lines. All lines are picketed every 25 m.

  Refer to the figure on the following page for the grid layout.

- ❑ *COORDINATE SYSTEM*: Projection: Universal Transverse Mercator
  Datum: NAD27
  UTM Zone: 18N

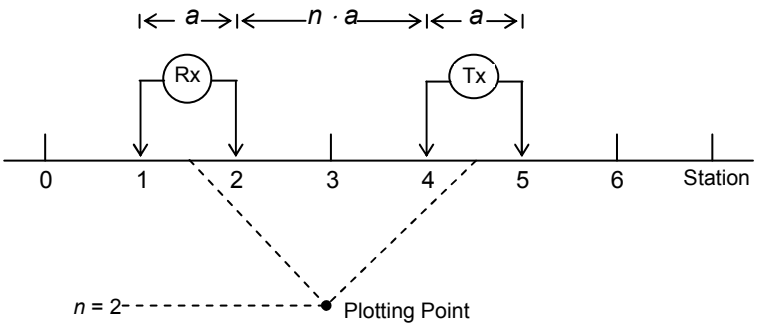


INDEX OF CLAIMS AND SURVEY GRIDS – ARIANNE PROPERTY

3. RESISTIVITY / INDUCED POLARIZATION SURVEY

❑ *TYPE OF SURVEY*

Time domain resistivity / induced polarization
Dipole-dipole array, "a" = **25 m**, "n" = **1 to 6**



❑ *PERSONNEL*

Claude Saint Jacques,	Crew chief & geophysical operator
Martin Fournier,	Field assistant
Jocelyn Desgagnés,	Field assistant
Darryl Ouellette,	Field assistant
Carole Picard, Tech.,	Data processing & plotting
Martin Dubois, Geo.,	QC
Antonia Alvarado, MASc,	QC & Interpretation
Steve Boucher, Eng.,	Final validation of product conformity

❑ *DATA ACQUISITION*

A1 Grid: February 14th to 18th , 2008
A2 Grid: February 19th to 24th , 2008

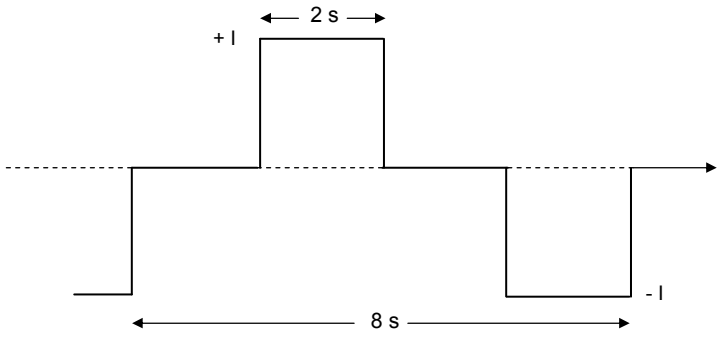
❑ *SURVEY COVERAGE*

A1 Grid: 10.1 km
A2 Grid: 12.98 km

❑ *IP TRANSMITTER (TX)*

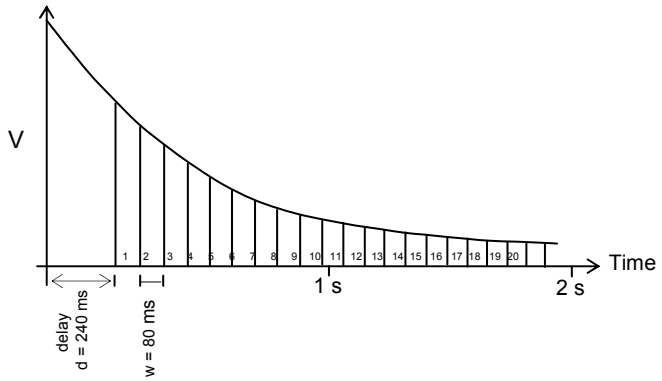
GDD Instruments TxII, s/n 296

Power supply:	Honda 1.8 kVA
Maximum output:	up to 1.8 kW or 10 A or 2000 V
Electrodes:	shape memory alloy
Resolution:	1 mA on output current display I
Waveform:	bipolar square wave with 50% duty cycle
Pulse duration:	2 seconds



❑ *IP RECEIVER (RX)*

IRIS Elrec-PRO, s/n 184 (10 input channels)
Electrodes: shape memory alloy
V_P Primary voltage measurement:
✧ Input impedance: 100 MΩ
✧ Resolution: 1 µV
✧ Typical accuracy: **0.2%**
M_a Apparent chargeability measurement:
✧ Resolution: 0.01 mV/V
✧ Typical accuracy: **0.4%**
✧ Arithmetic sampling mode, 20 time slices (M_1 to M_{20})



All gates are normalized with respect to a standard decay curve for QC in the field.

❑ *APPARENT RESISTIVITY CALCULATION*

$$\rho_a = \pi \cdot n \cdot (n+1) \cdot (n+2) \cdot a \cdot \frac{V_p}{I} \quad (\Omega \cdot m)$$

Cumulative error: 5% max, mainly due to chaining accuracy.

❑ *QUALITY CONTROL*

Before the survey:
✓ Transmitter & motor generator were checked for maximum output using calibrated loads.
✓ Receiver was checked using the Abitibi Geophysics SIMP™ certified and calibrated V_P & M_a signal simulator.

During data acquisition:
✓ Rx & Tx cable insulation was verified every morning.
✓ Proprietary Software *Refusilo*® allowed a daily thorough monitoring of data quality and survey efficiency.
✓ Enough pulses were stacked: 6 pulses for every reading.
✓ The crew chief reported that there were several errors in the numbering (picketing) of the stations on both grids. This fact affects the daily productivity and the QC of the data.

At the Base of Operations:
✓ Field QCs were inspected & validated.
✓ Each IP decay curve was analyzed with *Refusilo*®. The few gates that were rejected were not included in the calculation of the plotted M_a.

❑ *QUALITY STATISTICS*

Dipole-dipole: a = 25 m, n= 1 to 6		A1 Grid	A2 Grid
Average contact resistance at the Rx		9.4 kΩ	8.1 kΩ
Average output current across C_1-C_2		485 mA	496 mA
Average measured voltage Vp across P_1-P_2	n = 1	3383 mV	4803 mV
	n = 6	131 mV	194 mV
Observed gates found to fit a pure electrode polarization relaxation curve		96.6 %	97.7 %
Average deviation of the validated normalized gates with respect to the plotted mean chargeabilities	n = 1	0.06 mV/V	0.16 mV/V
	n = 6	0.19 mV/V	0.21 mV/V

4. GROUND *INFINITEM*® SURVEY

- ❑ *TYPE OF SURVEY*

  TDEM (Time Domain ElectroMagnetics)
  Configuration : *InfiniTEM*® (Patent No.: US 7,116,107 B2)
  Reading intervals: 50 m / detail every 25 m

- ❑ *MEASUREMENTS*

  Vertical **Z** and horizontal/orthogonal **X** & **Y** partial derivatives **∂B/∂t** of the secondary magnetic field (inductive coils).

- ❑ *PERSONNEL*

Jacques Demers, Tech.,	Crew chief
Mathieu Simard,	Field Assistant
P. François Leger,	Field assistant
Pascal Demontigny,	Field assistant
Carole Picard, Tech.,	Data plotting
Antonia Alvarado, MASc,	Fieldwork supervision, data processing, QC & interpretation
Steve Boucher, Eng.,	Final validation of product conformity

- ❑ *DATA ACQUISITION*

  A1 Grid: March 14th and 15th , 2008
  A2 Grid: February 17th and 18th, 2008

- ❑ *SURVEY COVERAGE*

  A1 Grid: 5.0 km
  A2 Grid: 5.48 km

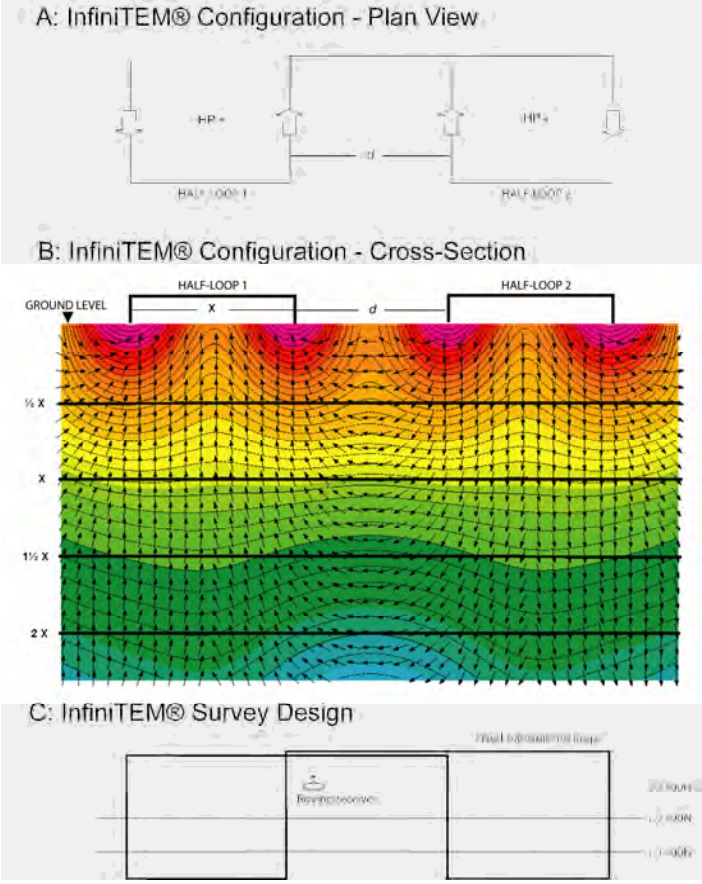
- ❑ *TRANSMITTING LOOPS SPECIFICATIONS*

  Refer to table 1 and to the *Geophysical Interpretation Map* (10.0_A2) inserted in a pouch at the end of this report for the loop layout.

Table 1: Transmitting Loops Specifications

Grid	Loop #	Size (mN x mE)	Acquisition (YY-MM-DD)	Current (A)	Turn-Off Time (µs)
A1	DBD01	1000 x 1000	08-03-14 08-03-15	15.2	400
A2	DDD02	1200 x 1300	08-03-17 08-03-18	13.3	400

❑ *INFINITEM® PRIMARY FIELD*

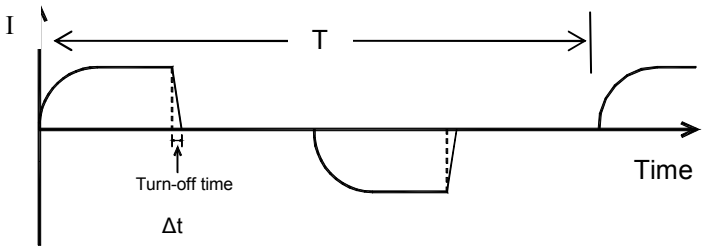


❑ *TDEM TRANSMITTER (TX)*

Geonics **TEM57-MK2**, s/n 30604

Power supply :	5.5 kVA Kubota motor generator
Maximum output :	up to 7.5 kW, 25 A or 1000 V
Transmitted signal :	bipolar wave, 50% duty cycle
Repetition rate :	30 Hz (T/4 = 8.333 ms)

Current (I) waveform in the Tx loop:



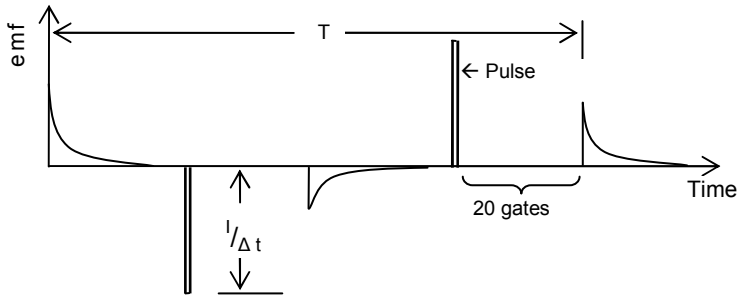
❑ *TDEM RECEIVER (RX)*

Geonics Digital **Protem 67D**, s/n 31704
T_x synchronization: crystal
Integration time: 1 cycle of 30 seconds
Start of integration : 80 µs from end of trailing edge
Number of gates : 20, geometrically spaced
Additional delay : 0

Table 2 : PROTEM Time Gates Location

Gates #	Start (µs)	Center (µs)	Width (µs)
1	80.00	88.13	16.25
2	96.25	106.9	21.25
3	117.5	131.3	27.50
4	145.0	161.9	33.75
5	178.8	200.6	43.75
6	222.5	250.6	56.25
7	278.5	314.4	71.25
8	350.0	395.6	91.25
9	441.3	499.4	116.3
10	557.5	631.3	147.5
11	705.0	799.4	188.8
12	893.8	1014	240.0
13	1134	1287	306.3
14	1440	1636	391.3
15	1831	2081	498.8
16	2330	2648	636.3
17	2966	3373	812.5
18	3779	4297	1036
19	4815	5475	1321
20	6136	6978	1685

Electromotive force waveform generated in the ground



❑ *SURFACE COIL*

Geonics **3D-3**, s/n 303
Simultaneous measurement of the Z, X & Y components.
Effective area: 200 m^2

❑ *SIGNS CONVENTION*

Z: vertical, positive upward.
X: orthogonal, positive towards grid's North.
Y: orthogonal, positive towards grid's West.

❑ *SOFTWARE*

Geonics PROTEM : Rx data transfer to PC via RS232
Geonics DATEM : Quality control
EMIT Maxwell© : Data processing, plotting and interpretation.

❑ *QUALITY CONTROL (RECORDS AVAILABLE UPON REQUEST)*

Before the survey:
- ✓ Transmitter & motor generator were checked for maximum output using calibrated loads.
- ✓ GSC geomagnetic forecasts were consulted.

Daily and prior to data acquisition:
- ✓ Receiver was calibrated and accurately synchronized with the transmitter.
- ✓ The battery voltage of the receiver was checked.
- ✓ The polarity of the primary field was checked.
- ✓ Crystal drifts have been thoroughly monitored daily and are within quality control specifications.

At the Base of Operations:
- ✓ Field QCs were inspected & validated.
- ✓ X, Y & Z - Primary field components polarity was checked & corrected if required.

Survey noise evaluation:
- ✓ No geomagnetic activity was observed throughout the survey period.
- ✓ No abnormal instrumental noise was detected during the survey.
- ✓ The background geological noise over the Arianne Property is evaluated at approximately 0.11 nV/Am^2.

5. DATA PROCESSING AND DELIVERABLES

- ***SPECTRAL IP PROCESSING***

The spectral analysis of the measured IP decay curve results in a quantitative evaluation of the IP time constant of the various sources. This parameter is the fingerprint of the mineral causing the IP response whereas chargeability is indicative of the amount of this polarizable mineral; both are complementary. So spectral analysis may lead to mineral discrimination based upon the characteristics of the source (sulphides, oxides, clay minerals). Inversion of the IP decay curves was done using the Australian AGR robust core algorithm. A map of the time constant at a depth of 40 or 50 m is presented in addition to the ***image2D®*** resistivity and chargeability maps.

- ***TRUE-DEPTH IP SECTIONS***

Apparent resistivity and chargeability pseudosections were inverted using our proprietary ***image2D®*** package. The process is fully automated as there is no need to guess a starting model or to filter the pseudosection to generate one. The ground is divided in cells of a/4 side and a back-projection of the raw data is performed. The result is a smooth earth model showing all conductive, resistive and polarizable sources. The resulting true-depth sections integrate all possible solutions, highlighting the most probable ones.

A synthetic example showing the ability of ***image2D®*** to resolve sources and to facilitate the location of DDH is presented on page 14.

- ***PRECISIONS CONCERNING image2D®***

Imaging cannot create information that is not in the raw data set (pseudosections), i.e., the limitations of the technique and array that was used will still prevail. With pole-dipole, for instance, resolution is asymmetrical and vertical sources may show a false dip. However, noise is efficiently rejected, near-surface effects are easily identified and complex responses, such as two adjoining sources, a wide body or a dipping geological contact, are well resolved.

This imaging process will not recover intrinsic resistivities unless the source is very wide. However, as opposed to pseudosections, geological data from drill-holes may be superimposed on ***image2D®*** true-depth sections.

- ***NORMALIZATION OF THE TDEM MEASUREMENTS***

The Geonics field measurements were converted from mV to nV/Am^2 (nT/A-s) units, according to current intensity inside the loop and effective surface area of the Rx antenna.

$$nV/Am^2 = \frac{V * 192}{A * 2^n * S/100}$$

where V = measured voltage at the Rx coil (mV),
n = gain of each reading,
S = effective area of the Rx coil,
A = current inside the loop.

❑ *STACKED PROFILES*

The ground vertical (Z) and horizontal (X, Y) partial derivatives ∂B/∂t of the secondary magnetic field are shown as distinct linear-linear stacked profiles at a scale of 1:10 000 (refer to appendix). Channels 8-20 are plotted.

❑ *SUPPLIED MAP*

The following maps are inserted in a pouch at the end of this report. Our Quality System requires that every final map be inspected by at least two qualified persons before being approved and included within a final report.

Grid	Map Number	Description	Scale
A1	Line 0+00E to line 9+00E (10 plates)	Color Apparent Resistivity / Chargeability Pseudosections and ***image2D*** ® True-depth Sections	1:2500
	8.2_A1	IP Survey - ***image2D*** ® Resistivity at a depth of 40 m	1:5000
	8.3_A1	IP Survey - ***image2D*** ® Chargeability at a depth of 40 m	1:5000
	8.5_A1	IP Survey – ***image2D*** ® Time Constant at a depth of 40 m	1:5000
	5 stacked profiles	Ground *InfiniTEM* ® survey - Partial Derivatives ∂B/∂t	1:5000
	6.6b_A1	Ground *InfiniTEM* ® survey – Total Secondary Field Contours Channels 12 to 19 (nV/Am^2)	1:5000
	10.0_A1	Geophysical Interpretation	1:5000
A2	Line 0+00E to line 13+00E (14 plates)	Color Apparent Resistivity / Chargeability Pseudosections and ***image2D*** ® True-depth Sections	1:2500
	8.2_A2	IP Survey - ***image2D*** ® Resistivity at a depth of 50 m	1:5000
	8.3_A2	IP Survey - ***image2D*** ® Chargeability at a depth of 50 m	1:5000
	8.5_A2	IP Survey – ***image2D*** ® Time Constant at a depth of 50 m	1:5000
	6 stacked profiles	Ground *InfiniTEM* ® survey - Partial Derivatives ∂B/∂t	1:5000
	6.6b_A2	Ground *InfiniTEM* ® survey – Total Secondary Field Contours Channels 12 to 19 (nV/Am^2)	1:5000
	10.0_A2	Geophysical Interpretation	1:5000

❑ *DIGITAL DATA*

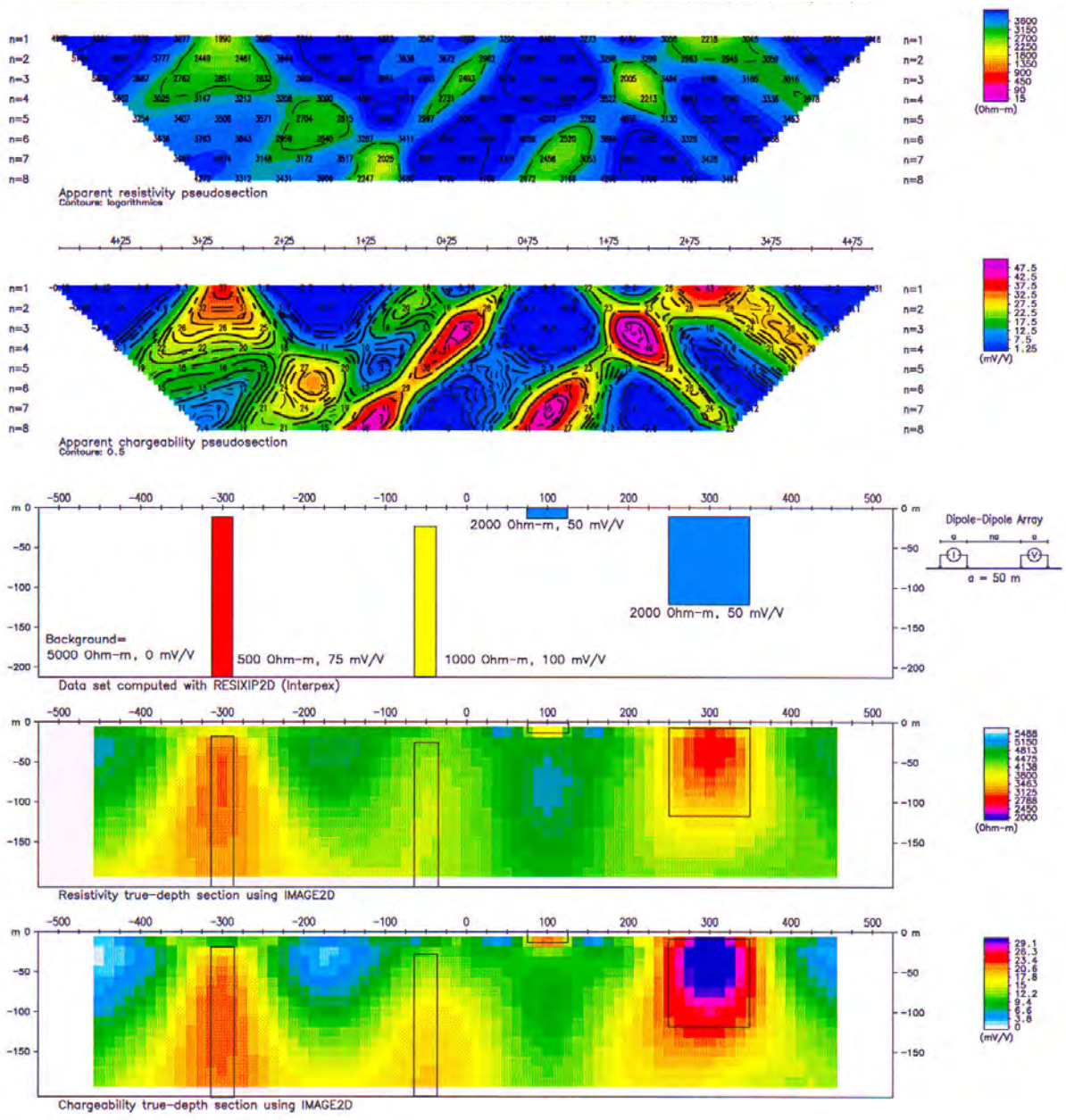
The above-described maps are delivered in the Oasis Montaj map file format on CD-Rom.

A copy of all survey acquisition data (ASCII text format) and processed data (Geosoft Montaj databases) area also delivered on CD-Rom.

image2D ® DEMO ON SYNTHETIC DATASETS

Top half of figure: classic apparent resistivity and chargeability pseudosections.

Centre of plate: the synthetic model that generates these pseudosections.



Bottom half of figure: the reconstructed resistivity and chargeability true-depth sections after inversion of the pseudosections using ***image2D*** ®. The model is superimposed on these sections.

6. IP SURVEY - RESULTS & RECOMMENDATIONS

- *RESISTIVITY & CHARGEABILITY MAPS – **A1 GRID***

Following interpretation of pseudosections and ***image2D®*** true-depth sections, a total of nineteen NW-SE polarizable anomalous trends (**A1-01** to **A1-19**) were compiled over **A1 Grid**. These anomalies have been correlated from line-to-line according to their strength, resistivity association and the general strike orientation. The inferred surface projections of their sources are shown along the survey lines on both the *Geophysical Interpretation Map* (10.0_A1) and the pseudosection plates. On the *Geophysical Interpretation Map*, the conductive zones were outlined using pink contoured shaded areas. The 10 000 Ω-m contour line (in blue) was chosen to delineate the most resistive zones (blue-shaded areas).

The ***image2D®*** *Resistivity Map* (8.2_A1) plotted at a depth of 40 m shows an homogenous background of ~8000 Ω-m disrupted by large E-W conductive areas and a wide highly resistive zone in the northern portion of the survey grid. Generally, the IP anomalies extend NW-SE and are probably caused by shallow sources (subcropping).

On one hand, trends **A1-02**, **A1-04** and **A1-05** (from line 0+00E to line 3+00E) are characterized by the highest chargeability values (map 8.3_A1) among the overall of the interpreted anomalies. Their signatures are also associated with resistivity high. Therefore, their sources could be related to a quartz vein style mineralization.

On the other hand, trends **A1-07** and **A1-12** are mostly represented by relatively lower chargeability values and they are embodied within a conductive background. Their signatures could be originated by disseminated to semi-massive sulphides. Thus, an enrichment of the content of sulphides could be related to the conductive areas.

Finally, trends **A1-01**, **A1-05** (from line 5+00E to line 8+00E), **A1-16** and **A1-17** are located within a homogenous resistive background (~8000 Ω-m) and their sources cannot be precisely defined. Therefore, prospecting and drilling is suggested to better define their origin.

Single line weakly polarizable anomalies (**A1-11**, **A1-13**, **A1-14** and **A1-15**) are ill-defined; they might simply result from variations in the overburden thickness.

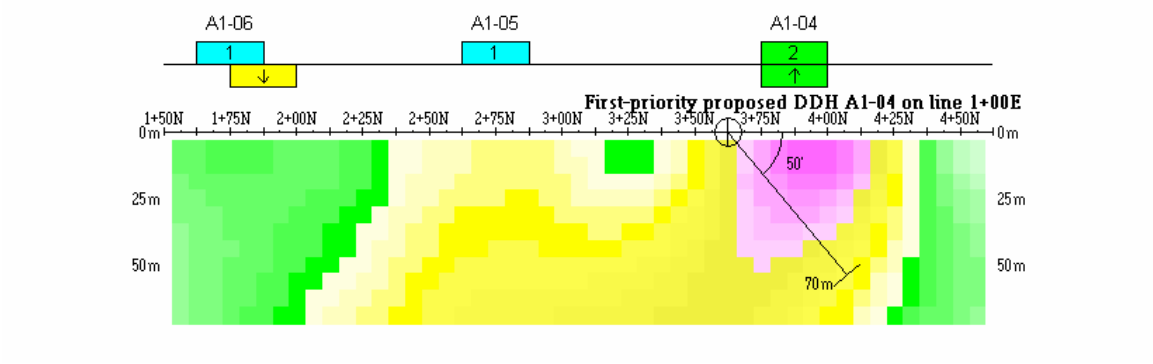
Following the interpretation of the pseudosections, a NE-SW fault was interpreted from line 0+00E to line 5+00E. Therefore, the corresponding conductive zone could be the result of a deformation zone.

The interpreted anomalies are fully described in the Appendix A found at the end of this report.

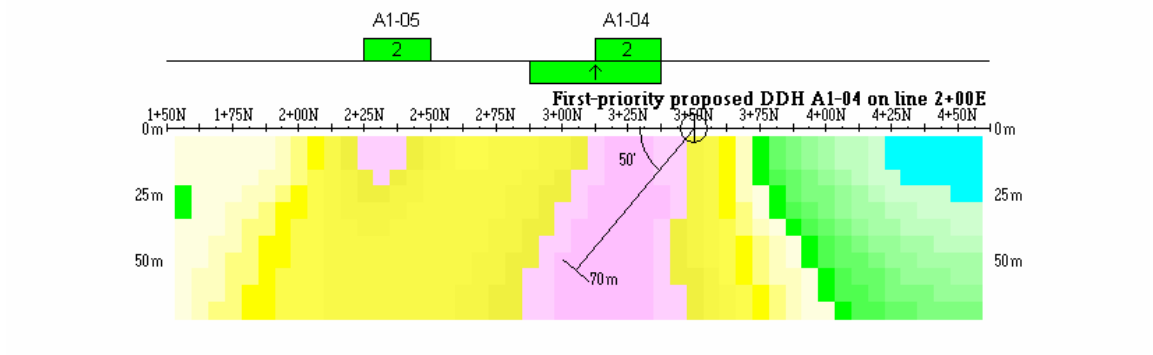
All-priority DDH targets are illustrated hereafter on their respective chargeability true-depth sections.

❑ ***A1 GRID**: FIRST-PRIORITY DDH TARGETS (**A1-04**, **A1-05** & **A1-07**)*

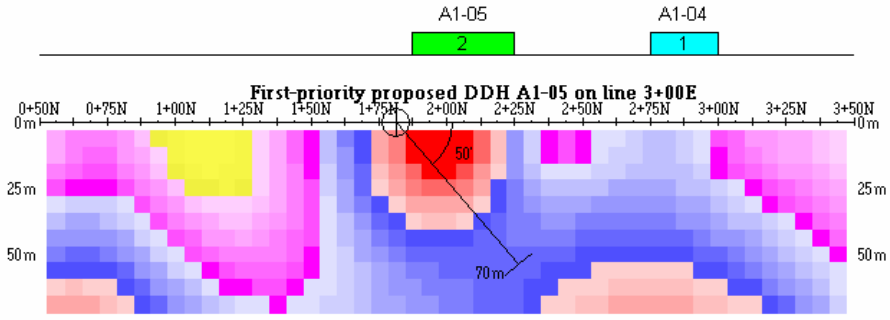
FIRST-PRIORITY PROPOSED DDH A1-04 ON LINE 1+00E:



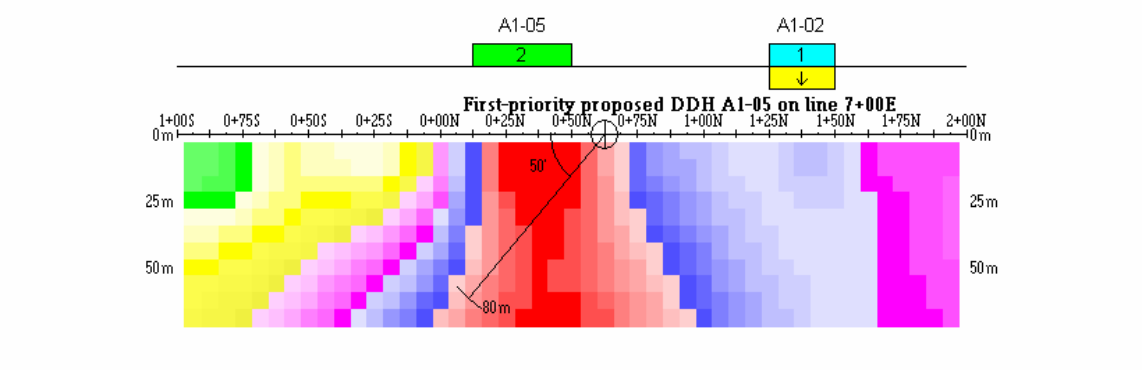
FIRST-PRIORITY PROPOSED DDH A1-04 ON LINE 2+00E:



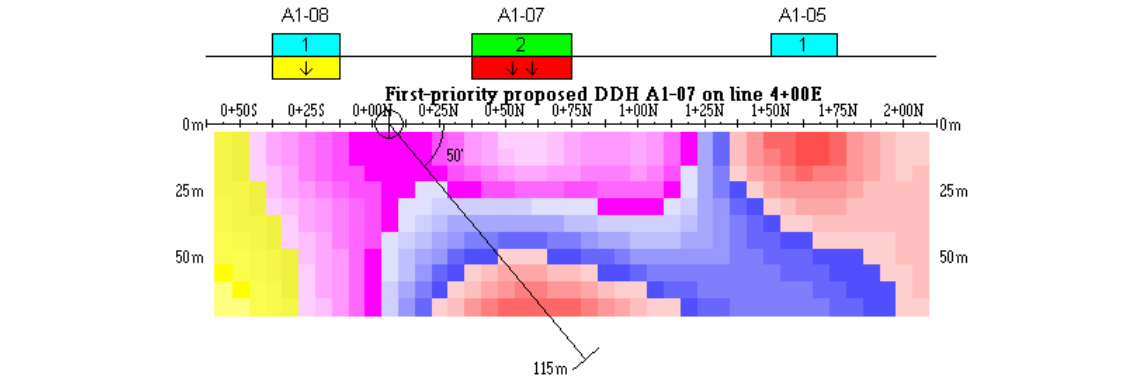
FIRST-PRIORITY PROPOSED DDH A1-05 ON LINE 3+00E:



FIRST-PRIORITY PROPOSED DDH A1-05 ON LINE 7+00E:

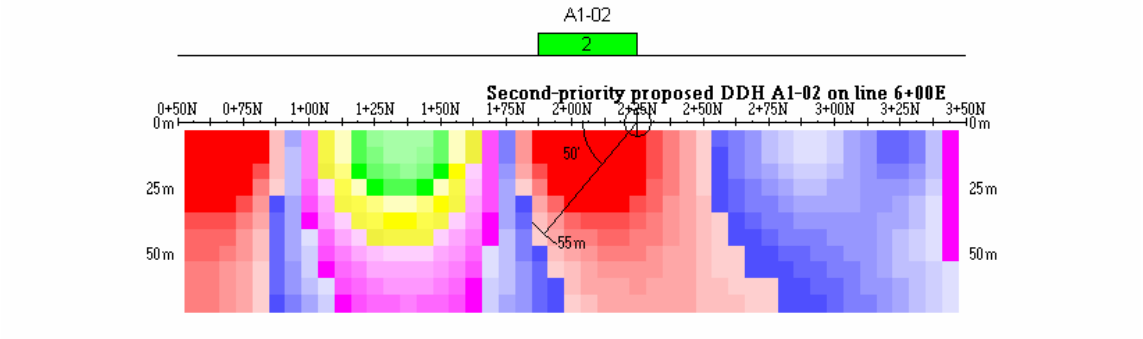


FIRST-PRIORITY PROPOSED DDH A1-07 ON LINE 4+00E:

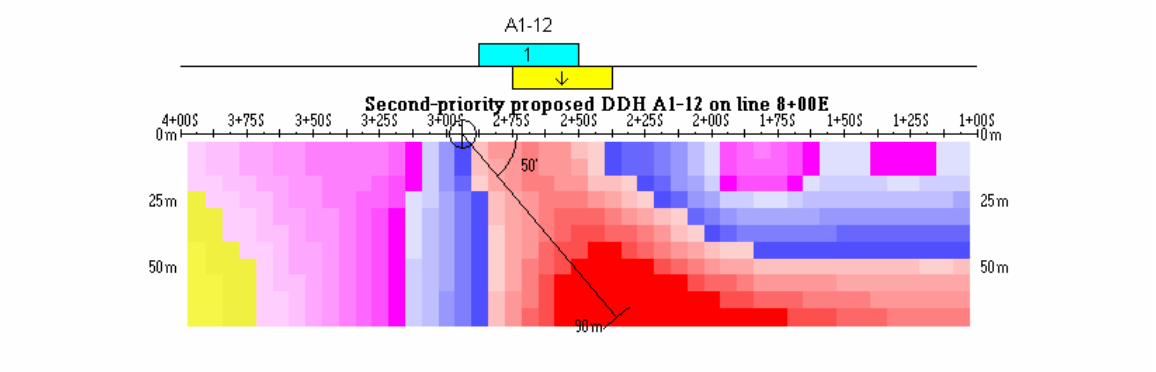


❑ *A1 GRID: SECOND-PRIORITY DDH TARGETS (A1-02, A1-12 & A1-17)*

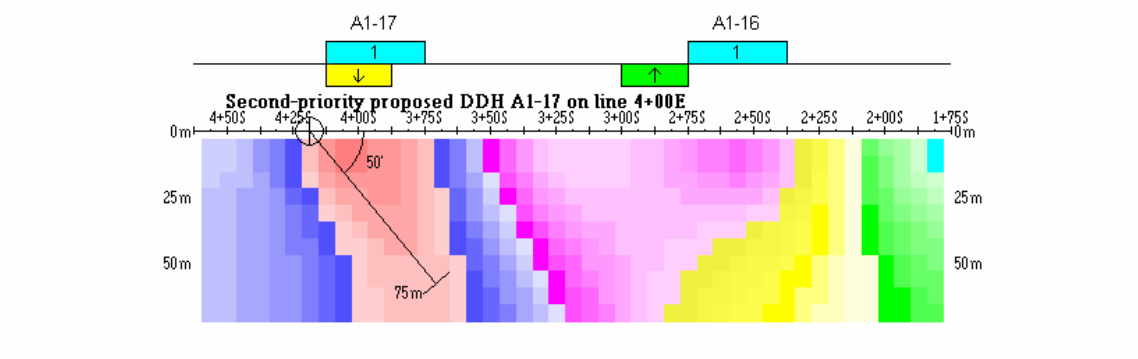
SECOND-PRIORITY PROPOSED DDH A1-02 ON LINE 6+00E:



SECOND-PRIORITY PROPOSED DDH A1-12 ON LINE 8+00E:



SECOND-PRIORITY PROPOSED DDH A1-17 ON LINE 4+00E:



❑ *RESISTIVITY & CHARGEABILITY MAPS – **A2 GRID***

Following interpretation of pseudosections and ***image2D***® true-depth sections, a total of twenty E-W polarizable anomalous trends (**A2-01** to **A1-20**) were compiled over **A2 Grid**. These anomalies have been correlated from line-to-line according to their strength, resistivity association and the general strike orientation. The inferred surface projections of their sources are shown along the survey lines on both the *Geophysical Interpretation Map* (10.0_A2) and the pseudosection plates. On the *Geophysical Interpretation Map*, the conductive zones were outlined using pink contoured shaded areas. The 10 000 Ω-m contour line (in blue) was chosen to delineate the most resistive zones (blue-shaded areas).

The major features of the ***image2D***® *Resistivity Map* (8.2_A2) plotted at a depth of 50 m shows that **A2 Grid** is dominated by highly resistive values disrupted by ~E-W conductive zones. The *Chargeability Map* (8.3_A2) plotted at a depth of 50 m shows a relatively homogenous background in the major portion of the surveyed grid. However, an anomalous chargeability area of unknown extension (**A2-12**), located on lines 5+00E and 6+00E, corresponds to high time constant values. The electrical response of **A2-12** could mask the signature of **A2-09**. However, from the ground *InfiniTEM*® survey, a good quality conductor was identified on lines 6+00E and 8+00E. Therefore, **A2-09** could be a promising target.

Following a meticulous comparison between the chargeability amplitudes and their resistive association, we concluded that **A2-03**, **A2-04**, **A2-05** and **A2-06** could likely be part of a single folded structure plunging towards the west and possibly outcropping towards the east. **A2-02**, **A2-07** and **A2-08** could also belong to a mayor folded structure.

A2-03 and **A2-04** are two closely spaced polarizable anomalies; prospecting and drilling should allow for a better geological understanding. They may share the same mineralization potential.

Some polarizable anomalies are associated with high resistive values. These anomalies (**A2-08** (from line 5+00E to line 7+00E), **A-13**, **A-14** and **A-15**) are likely caused by quartz vein style mineralization.

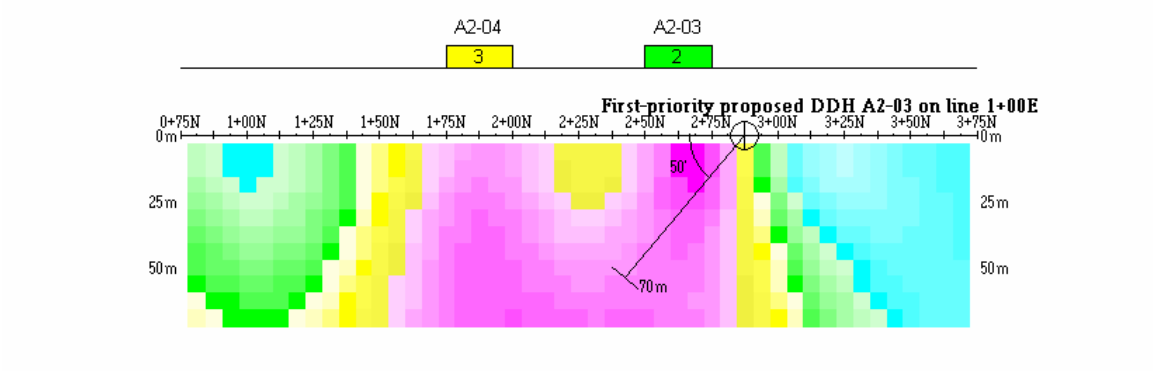
For the most interesting targets (**A2-03**, **A2-04**, **A2-05**, **A2-07**, **A2-08**, **A2-09**, **A2-11**, and **A2-18**) do not present any resistive association. However, prospecting and drilling is suggested to better define their origin.

The interpreted anomalies are fully described in the Appendix B found at the end of this report.

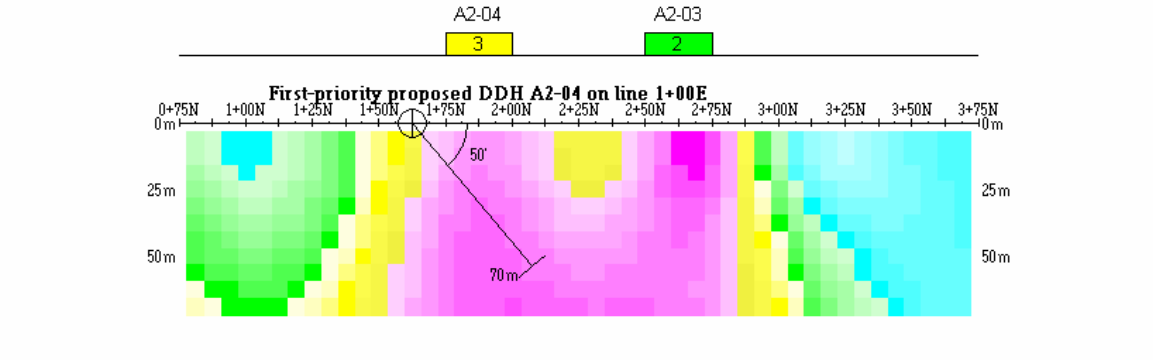
All-priority DDH targets are illustrated hereafter on their respective chargeability true-depth sections.

- ***A2 GRID**: FIRST-PRIORITY DDH TARGETS (**A2-03**, **A2-04, A2-05, A2-08, A2-09, A2-11** & **A2-18**)*

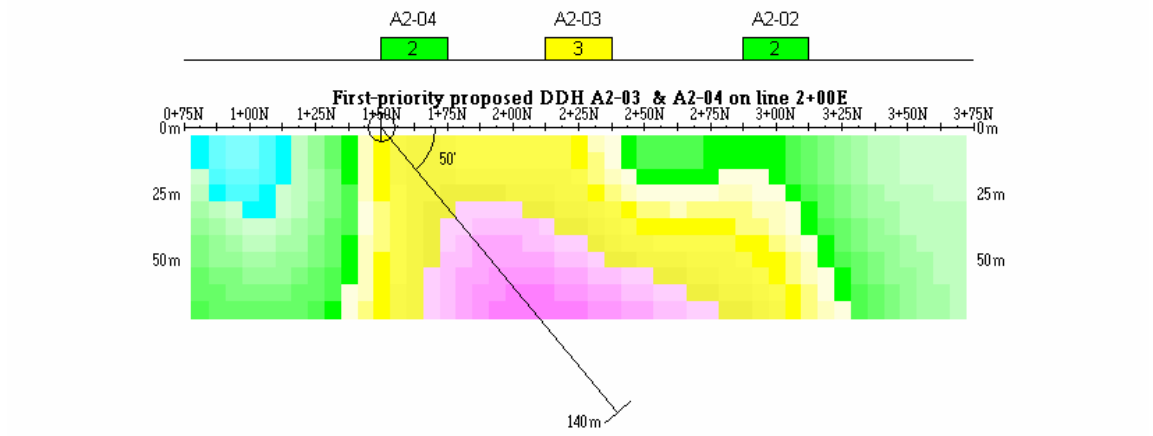
FIRST-PRIORITY PROPOSED DDH A2-03 ON LINE 1+00E:



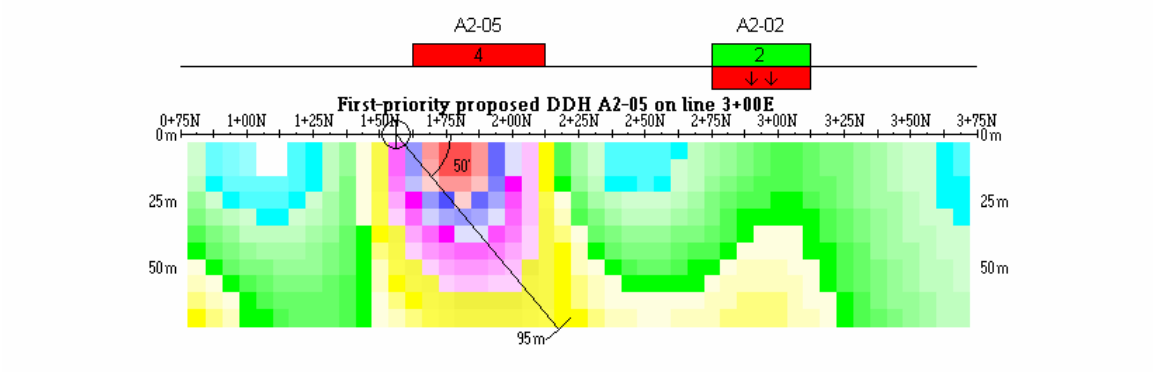
FIRST-PRIORITY PROPOSED DDH A2-04 ON LINE 1+00E:



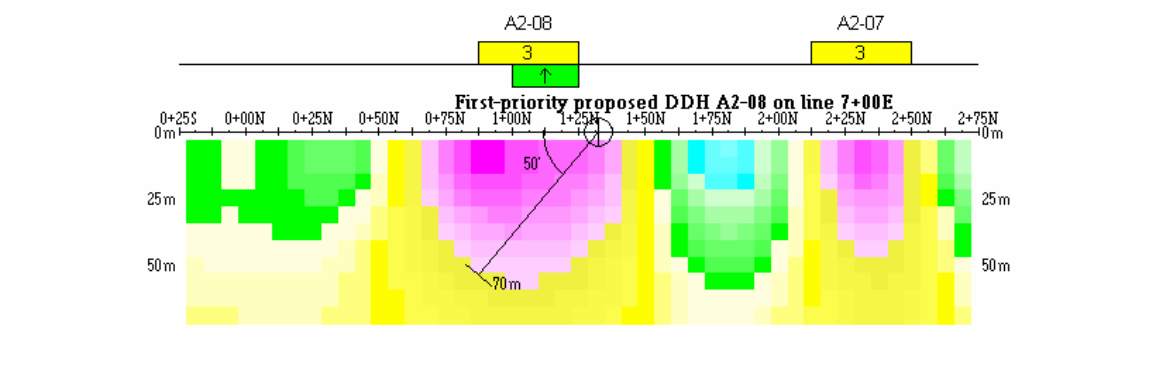
FIRST-PRIORITY PROPOSED DDH A2-03 & A2-04 ON LINE 2+00E:



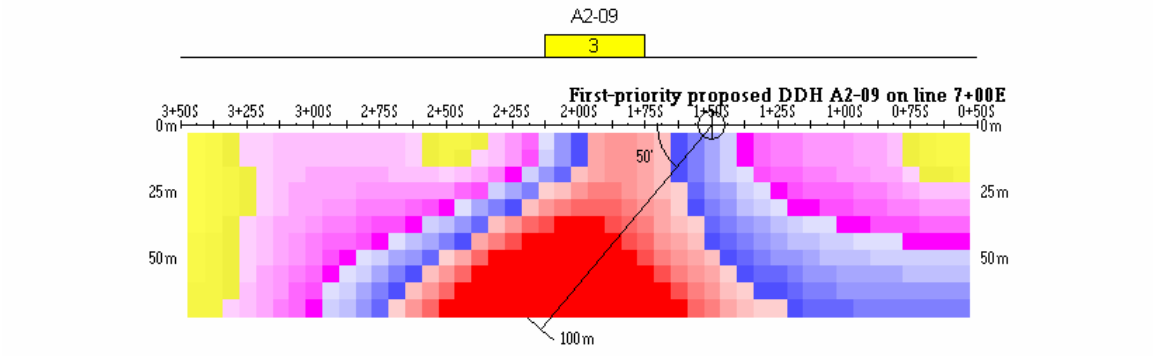
FIRST-PRIORITY PROPOSED DDH A2-05 ON LINE 3+00E:



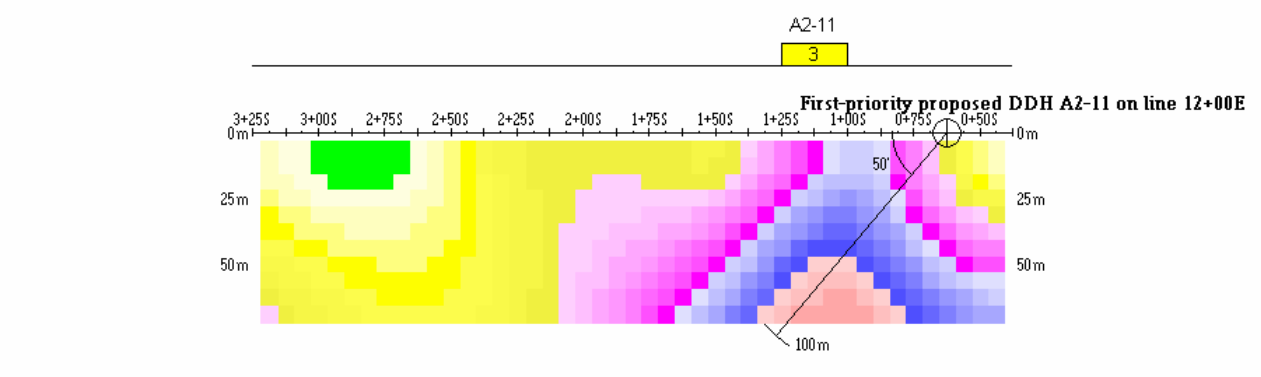
FIRST-PRIORITY PROPOSED DDH A2-08 ON LINE 7+00E:



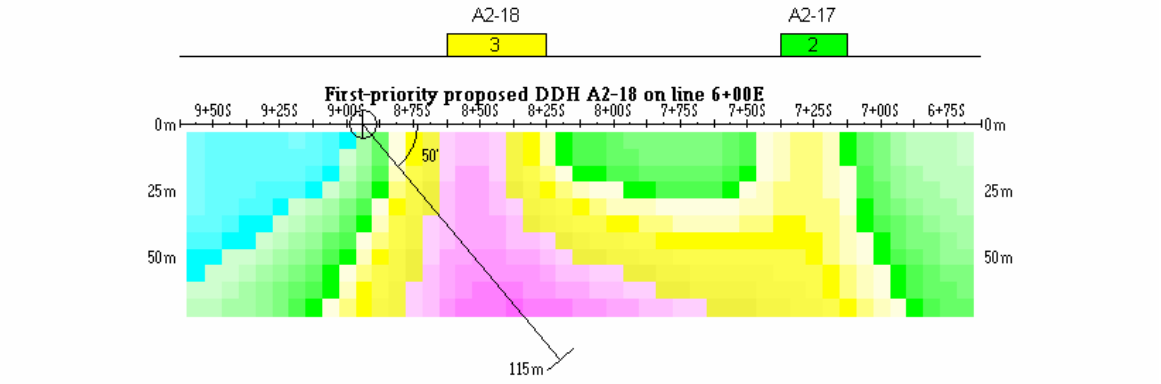
FIRST-PRIORITY PROPOSED DDH A2-09 ON LINE 7+00E:



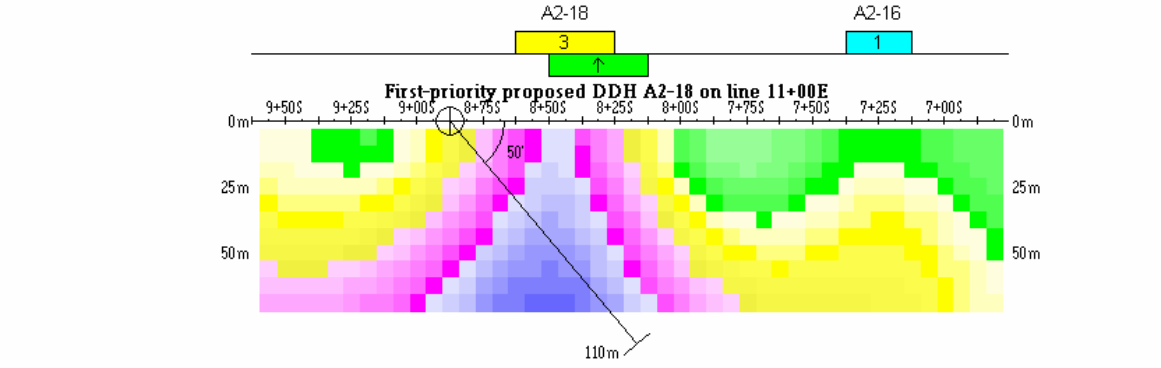
FIRST-PRIORITY PROPOSED DDH A2-11 ON LINE 12+00E:



FIRST-PRIORITY PROPOSED DDH A2-18 ON LINE 6+00E:

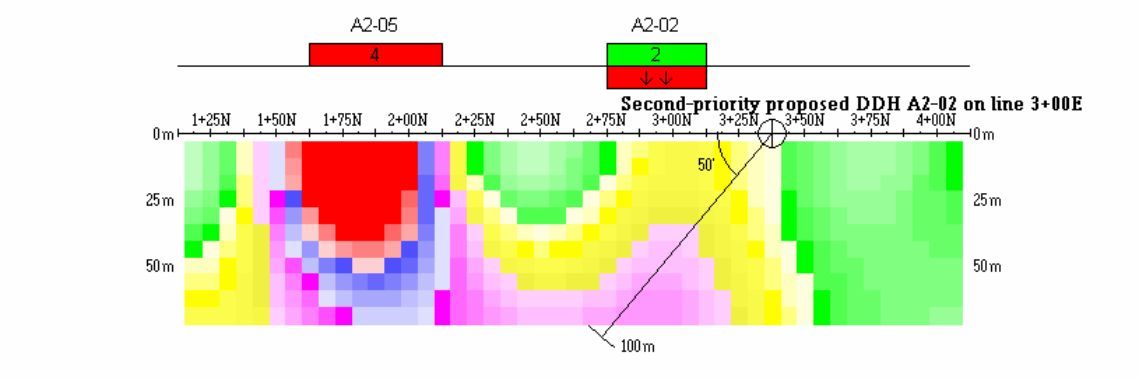


FIRST-PRIORITY PROPOSED DDH A2-18 ON LINE 11+00E:

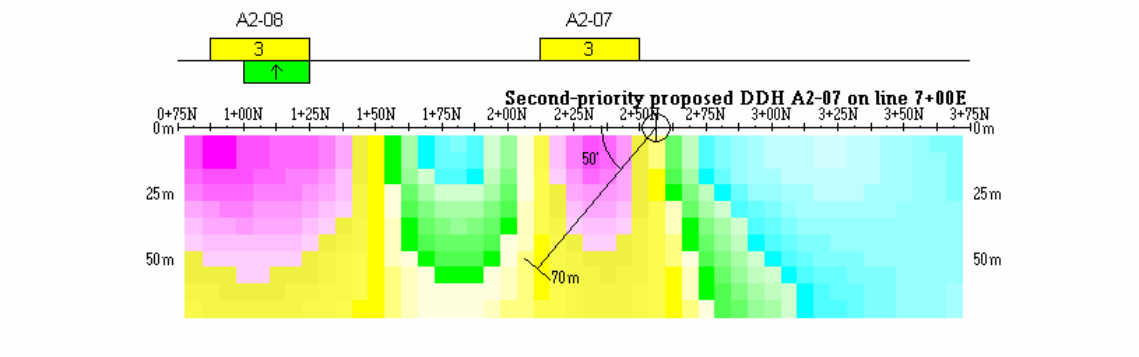


- ***A2 GRID**: SECOND-PRIORITY DDH TARGETS (**A2-02, A2-07, A2-09, A2-14, A2-15 & A2-17**)*

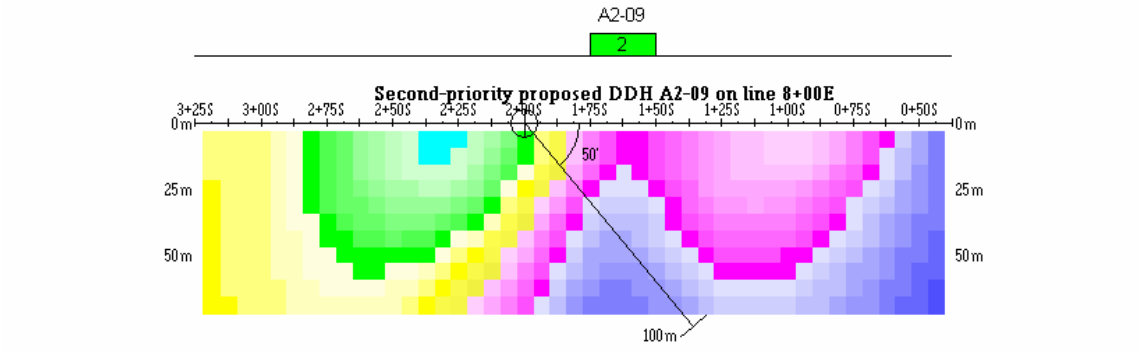
SECOND-PRIORITY PROPOSED DDH A2-02 ON LINE 3+00E:



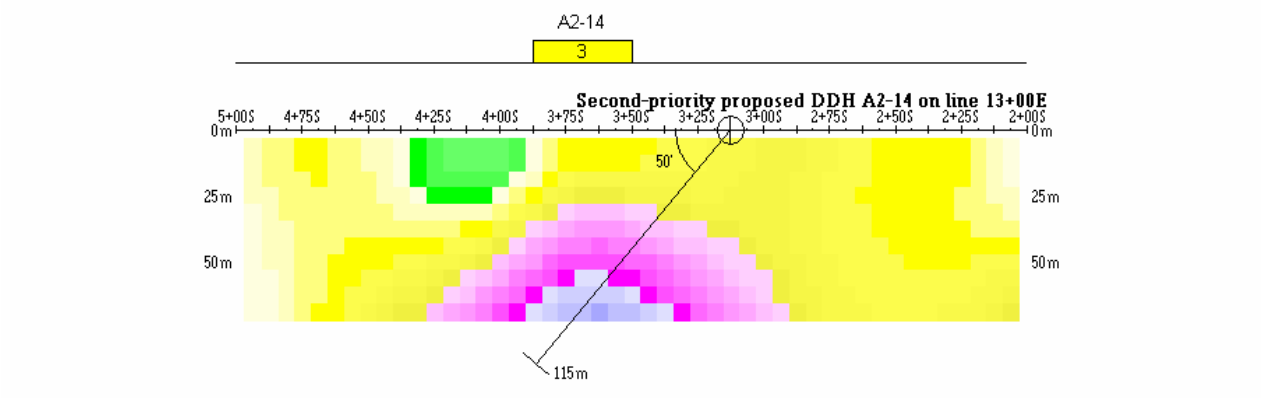
SECOND-PRIORITY PROPOSED DDH A2-07 ON LINE 7+00E:



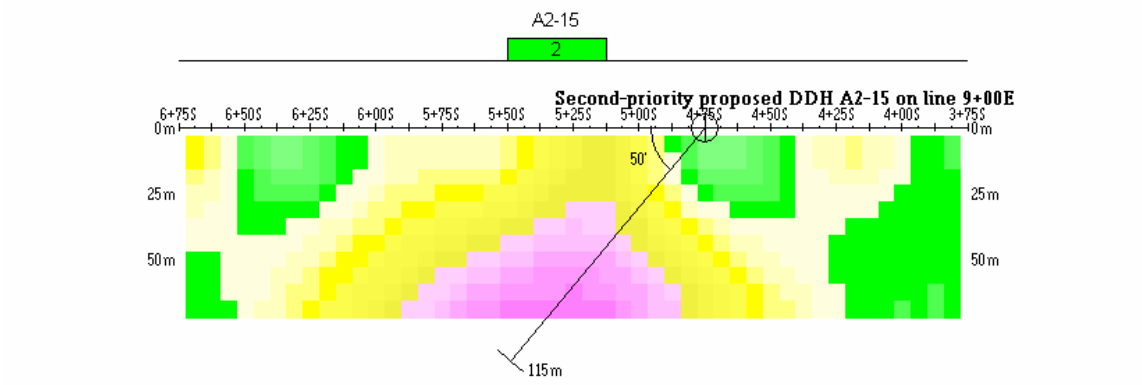
SECOND-PRIORITY PROPOSED DDH A2-09 ON LINE 8+00E:



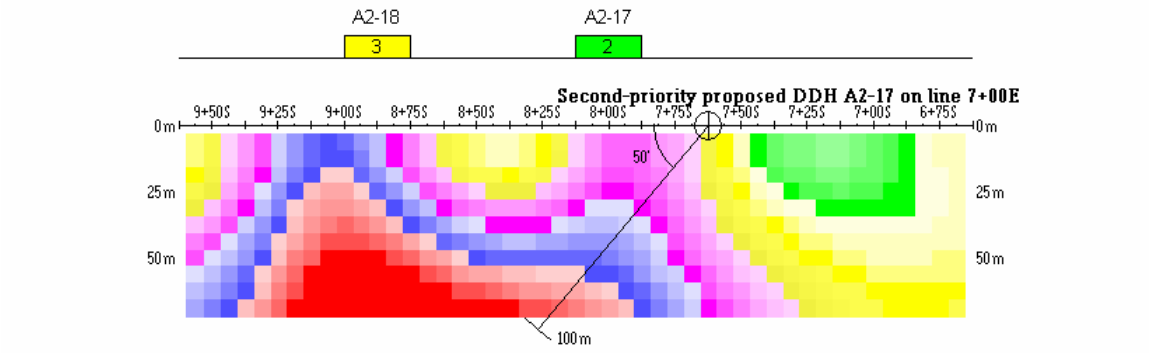
SECOND-PRIORITY PROPOSED DDH A2-14 ON LINE 13+00E:



SECOND-PRIORITY PROPOSED DDH A2-15 ON LINE 9+00E:



SECOND-PRIORITY PROPOSED DDH A2-17 ON LINE 7+00E:



7. GROUND *INFINITEM*® SURVEY- RESULTS & RECOMMENDATIONS

One conductor (**A2-EM01**) has been identified from the ground *InfiniTEM*® survey over the **A2 Grid**. Refer to Table 3 for a full description. A time constant (τ) value has been computed from the decay curve analysis for each anomalous profile segments. A good conductor would be characterized by a strong τ value. Conductors' depth-to-top was estimated to more or less a quarter of its signature wavelength. Note that this depth value may be overshot if the conductive source is not perpendicular to the survey lines.

Table 3: Description of the Ground *InfiniTEM*® Anomalies

Anomaly	Location		Conductor's quality	Estimated depth-to-top ($\lambda/4$)	Dip	Comments
	Line	Station				
A2-EM01	6+00E	2+00S	Good (τ = 2.1 ms)	Deep (-125 m)	Sub-vertical	Its signature from line 6+00E to line 8+00E corresponds to a good quality conductor. On line 7+00E, this conductor is proximal to a strongly polarizable source (**A2-09**). Therefore its source could be caused by semi-massive sulphides. **Drilling recommended on line 7+00E (see page 21).**
	8+00E	2+00S	Good (τ = 1.6 ms)	Deep (-100 m)		
	10+00E	2+00S	Poor (τ = 0.9 ms)	Deep (-150 m)		

8. FOLLOW-UP SUMMARY

❒ *PROSPECTING*

Grid	Priority	Anomaly	Location	
			Line	Station
A1	1	A1-04	1+00E	3+88N
			2+00E	3+25N
		A1-05	3+00E	2+06N
			7+00E	0+38N
	2	A1-02	4+00E	3+19N
			6+00E	2+06N
		A1-17	3+00E	3+75S
			4+00E	3+94S
	3	A1-01	8+00E	2+06N
		A1-03	9+00E	1+06N
		A1-10	3+00E	1+13S
		A1-11	5+00E	1+75S
		A1-16	4+00E	2+56S
			7+00E	3+63S
A2	1	A2-03	1+00E	2+63N
		A2-04	1+00E	1+88N
		A2-08	5+00E	0+38N
			6+00E	0+75N
			7+00E	1+06N
		A2-11	12+00E	1+13S
		A2-18	6+00E	8+44S
			9+00E	8+56S
			11+00E	8+44S
	2	A2-07	6+00E	2+69N
			7+00E	2+31N
	3	A2-06	4+00E	1+88N
		A2-12	5+00E	1+13S
			6+00E	1+44S
		A2-13	6+00E	3+88S
			7+00E	4+38S
		A2-16	9+00E	6+81S
			10+00E	7+13S

❒ *DRILLING*

Grid	Priority	Anomaly	DDH target (not collar) (*)		
			Line	Station	Estimated Vertical Depth (m)
A1	1	A1-04	1+00E	3+87N	30
			2+00E	3+25N	35
		A1-05	3+00E	2+06N	30
			7+00E	0+31N	40
		A1-07	4+00E	0+56N	65
	2	A1-02	6+00E	2+63N	25
		A1-12	8+00E	2+68S	35
		A1-17	4+00E	3+93S	35
A2	1	A2-03	1+00E	2+63N	30
		A2-04	1+00E	1+88N	35
		A2-03 & A2-04	2+00E	1+93N	55
		A2-05	3+00E	1+88N	40
		A2-08	7+00E	1+06N	35
		A2-09	7+00E	1+94S	55
		A2-11	12+00E	1+13S	60
		A2-18	6+00E	8+43S	65
			11+00E	8+43S	55
	2	A2-02	3+00E	2+94N	55
		A2-07	7+00E	2+31N	35
		A2-09	8+00E	1+63S	50
		A2-14	13+00E	3+68S	65
		A2-15	9+00E	5+31S	70
		A2-17	7+00E	8+00S	45
(*) Pending prospecting results.					

❒ *SURVEY EXTENSIONS*

Grid	Extensions Suggested	Comments
A1	From line 0+00E towards the west	To follow the northwest extensions of **A1-05**, **A1-04** and **A1-01**.
	From line 0+00E to line 4+00E towards the north	
	From line 9+00E towards the east	To follow the eastern extensions of **A1-12**, **A1-05** and **A1-01**.
A2	From line 0+00E to line 4+00E towards the south	To better define **A2-08** from line 1+00E to line 3+00E (open-ended anomalies). To follow the western extensions of **A2-12**, **A2-13**, **A2-17**, **A2-18** and **A2-19**.
	From line 0+00E towards the west	To follow the western extensions of **A2-03**, **A2-04** and **A2-08**.
	From line 13+00E towards the east	To follow the eastern extensions of **A2-11**, **A2-14**, **A2-18** and **A2-20**.

The interpretation of the geophysical data embodied in this report is essentially a geophysical appraisal of the Arianne Property. As such, it incorporates only as much geoscientific information as the author has on hand at the time. Geoscientists thoroughly familiar with the area are in a better position to evaluate the geological significance of the various geophysical signatures. Moreover, as time passes and information provided by follow-up programs are compiled, exploration targets recognized in this study might be down-graded or up-graded.

Respectfully submitted,
Abitibi Geophysics Inc.

Antonia Alvarado, MASc

Steve Boucher, MASc, Eng.,
Geophysicist

DESCRIPTION OF ALL IP / RESISTIVITY ANOMALIES INTERPRETED ON THE A1 GRID

Anomaly	Location		Contrast		Comments	Priority
	Line	Station	Charg.	Res.		
A1-01	5+00E	3+88N	1	-	Weakly polarizable anomaly. Not very well defined. NW-SE trending, extends on approximately 300 m. Probably shallow sources. **Prospecting suggested on line 8+00E.**	**3**
	6+00E	3+38N	1	-		
	7+00E	2+88N	1	↑		
	8+00E	2+06N	1	-		
A1-02	4+00E	3+19N	2	↑↑	Moderately polarizable anomaly embodied within a resistive zone. Its source could be related to quartz veins style mineralization. NW-SE trending, extends on approximately 300 m. Could be caused by shallow sources (likely outcropping). **Initial prospecting is recommended on lines 4+00E and 6+00E, followed by possible drilling on line 6+00E.**	**2**
	5+00E	2+63N	2	↑↑		
	6+00E	2+06N	2	-		
	7+00E	1+38N	1	↓		
A1-03	9+00E	1+06N	1	-	Single line weakly polarizable anomaly. Could be caused from variations of the overburden thickness. Faint signature, likely outcropping. Could be interpreted as the southeastern extension of **A1-01**. **Could be investigated by prospecting to establish a correlation with A1-01.**	**3**
A1-04	0+00E	4+00N	2	↑↑	Moderately polarizable trend associated with a resistivity high. Its signature could be related to quartz veins style mineralization. NW-SE trending, extends on approximately 500 m. Best responses on lines 1+00E, 2+00E and 5+00E. **Prospecting suggested on lines 1+00E and 2+00E. Pending results, drilling could be carried out on both lines.**	**1**
	1+00E	3+88N	2	↑↑		
	2+00E	3+25N	2	↑↑		
	3+00E	2+88N	1	↑↑		
	4+00E	2+38N	1	-		
	5+00E	1+81N	2	-		

DESCRIPTION OF ALL IP / RESISTIVITY ANOMALIES INTERPRETED ON THE A1 GRID

Anomaly	Location		Contrast		Comments	Priority
	Line	Station	Charg.	Res.		
A1-05	0+00E	3+00N	2	↑	Weakly to moderately polarizable anomaly extending NW-SE across the complete grid. The northern portion (from line 0+00E to line 3+00E) is located within a resistive background. Its signature could be related to a quartz veins style mineralization. The southern portion (from line 4+00E to line 7+00E) is mostly located within a conductive zone. Its signature on line 8+00E could be simply the result of variations in the overburden thickness. Its source could be outcropping towards the east from line 2+00E to line 8+00E. **Prospecting suggested on lines 3+00E and 7+00E. Pending results, drilling could be carried out on both lines 3+00E and 7+00E.**	**1**
	1+00E	2+75N	1	↑		
	2+00E	2+38N	2	(R)		
	3+00E	2+06N	2	(R)		
	4+00E	1+63N	1	-		
	5+00E	1+13N	1	-		
	6+00E	0+63N	2	-		
	7+00E	0+38N	2	-		
	8+00E	0+38S	1	-		
A1-06	0+00E	1+88N	1	↑	Weakly polarizable anomaly. Not very well defined. Source likely outcropping. NW-SE trending. No further work recommended for the moment.	4
	1+00E	1+75N	1	↓		
	2+00E	1+38N	?	-		
A1-07	3+00E	0+69N	1	-	Weakly to moderately polarizable anomaly partially associated with a resistivity low. E-W trending. Its signature could be associated with semi-massive or disseminated sulphides. Could be caused by a deep source. **Drilling is recommended on line 4+00E.**	**1**
	4+00E	0+56N	2	↓↓		
A1-08	3+00E	0+13S	1	↑	Weakly polarizable and partially conductive anomaly. Rather ill-defined. No further work recommended for the moment.	4
	4+00E	0+25S	1	↓		
	5+00E	0+38S	?	↓		
A1-09	0+00E	0+13N	1	↑	Single line weakly polarizable and resistive anomaly. Faint signature, could be caused by a shallow source. **Could be investigated by prospecting.**	4
A1-10	2+00E	0+75S	?	-	Weakly polarizable anomaly. Faint signature. Likely outcropping. Could be interpreted as the southeastern extension of **A1-09**. **Could be investigated by prospecting on line 3+00E to establish a correlation with A1-09.**	**3**
	3+00E	1+13S	1	-		

DESCRIPTION OF ALL IP / RESISTIVITY ANOMALIES INTERPRETED ON THE A1 GRID

Anomaly	Location		Contrast		Comments	Priority
	Line	Station	Charg.	Res.		
A1-11	5+00E	1+75S	1	-	Single line weakly polarizable anomaly embodied within a conductive background. Faint signature. Likely outcropping. Could be interpreted as the southeastern extension of **A1-10**. **Could be investigated by prospecting to establish a correlation with A1-10.**	**3**
A1-12	7+00E	2+19S	1	-	Weakly polarizable anomaly located within a conductive background. Its signature could be caused by disseminated sulphides. NW-SE trending, extends on approximately 300 m. Best responses on lines 8+00E and 9+00E. Could be interpreted as the southeastern extension of **A1-11**. **Drilling recommended on line 8+00E.**	**2**
	8+00E	2+69S	1	↓		
	9+00E	3+00S	1	-		
A1-13	1+00E	1+13S	?	↑	Single line polarizable anomalies. Rather ill-defined. No further work recommended at the moment.	4
A1-14	0+00E	2+44S	1	R		
A1-15	1+00E	1+94S	1	-	Weakly polarizable single line anomaly. Rather ill-defined. May be the result of variations in the overburden thickness. No further work recommended at the present time.	4
A1-16	4+00E	2+56S	1	-	Weakly polarizable anomaly. NW-SE trending, extends on approximately 300 m. Not very well defined on all its extension. Likely outcropping. Shows its higher chargeability amplitudes on lines 4+00E and 7+00E. **Prospecting is recommended on lines 4+00E and 7+00E.**	**3**
	5+00E	2+63S	1	↓		
	6+00E	3+13S	?	↑		
	7+00E	3+63S	1	↑		
A1-17	1+00E	3+50S	?	(R)	Weakly polarizable anomaly extending NW-SE on approximately 500 m. Could be caused by shallow sources. Best responses on lines 3+00E and 4+00E. **Initial prospecting on line 3+00E and 4+00E, followed by possible drilling is recommended on line 4+00E.**	**3**
	2+00E	3+31S	1	-		
	3+00E	3+75S	1	-		
	4+00E	3+94S	1	-		
	5+00E	South End	1	↑		
	6+00E	South End	?	-		

DESCRIPTION OF ALL IP / RESISTIVITY ANOMALIES INTERPRETED ON THE A1 GRID

Anomaly	Location		Contrast		Comments	Priority
	Line	Station	Charg.	Res.		
A1-18	1+00E	South End	1	↑	Single line weakly and conductive polarizable anomalies. Rather ill-defined. No further work recommended at the moment.	4
A1-19	2+00E	4+19S	1	-		

LEGEND:

Chargeability Increase
? = Marginal
1 = Weak
2 = Moderate
3 = High
4 = Very High

Resistivity Increase
↑ = Resistive
↑↑ = Very Resistive
(R) = Wide Resistive Zone

Decrease
↓ = Conductive
↓↓ = Very Conductive

DESCRIPTION OF ALL IP / RESISTIVITY ANOMALIES INTERPRETED ON THE A2 GRID

Anomaly	Location		Contrast		Comments	Priority
	Line	Station	Charg.	Res.		
A2-01	3+00E	4+13N	1	-	Single line weakly polarizable anomaly. Faint signature. Source likely outcropping. Could be caused from variations in overburden thickness. No further work recommended at the moment.	4
A2-02	2+00E	3+00N	2	↓	Moderately polarizable and conductive trend. Its signature could be related to disseminated sulphides. E-W trending. Deep sources. Best responses on lines 1+00E, 2+00E, 4+00E and 5+00E. **Drilling suggested on line 3+00E.**	**2**
	3+00E	2+94N	2	↓↓		
A2-03	0+00E	2+63N	2	-	Moderately polarizable trends. E-W trending, both extends on approximately 200 m each. Their proximity and chargeability amplitudes on lines 0+00E and 2+00E suggest that these anomalies could share the same source. Both seem to be outcropping on line 1+00E. **Initial prospecting on line 1+00E followed by drilling of both anomalies is suggested.** **Also, drilling of both anomalies could be carried out on line 2+00E using a single DDH.**	**1**
	1+00E	2+63N	2	-		
	2+00E	2+25N	3	-		
A2-04	0+00E	1+88N	2	-		**1**
	1+00E	1+88N	3	-		
	2+00E	1+63N	2	-		
A2-05	3+00E	1+88N	4	-	Single line highly polarizable anomaly. Its signature could be the result of its proximity to a shear zone. Caused by a shallow source (outcropping). Could be the eastern extension of the merged responses of **A2-03** and **A2-04**. **Drilling is recommended.**	**1**
A2-06	4+00E	1+88N	1	-	Single line weakly polarizable anomaly. Could be caused by a shallow source. Faint signature, likely outcropping. Could be interpreted as the eastern extension of **A2-05**. **Prospecting is suggested in order to establish its correlation with A2-05.**	**3**

DESCRIPTION OF ALL IP / RESISTIVITY ANOMALIES INTERPRETED ON THE A2 GRID

Anomaly	Location		Contrast		Comments	Priority
	Line	Station	Charg.	Res.		
A2-07	5+00E	2+56N	1	(R)	Weakly to moderately polarizable trend. Partially associated with a resistivity high. E-W trending, extends on approximately 200 m. Likely caused by shallow sources. Could be interpreted as the eastern extension of **A2-02**. **Prospecting recommended on lines 6+00E and 7+00E. Pending results, drilling could be carried on line 7+00E.**	**2**
	6+00E	2+69N	2	↑		
	7+00E	2+31N	3	-		
A2-08	1+00E	South End	2	-	Moderately to strongly polarizable E-W trend, extending on approximately 600 m. Partially associated with a resistivity high towards the east (from line 5+00E to line 7+00E). Its signatures could be caused by a quartz vein style mineralization. Its signature is incomplete towards the west from line 1+00E to line 4+00E. Likely outcropping **A survey extension towards the south is recommended from line 1+00E to line 4+00E.** **Prospecting suggested on lines 5+00E, 6+00E and 7+00E. Pending results, drilling could be carried out on line 7+00E.**	**1**
	2+00E	South End	3	-		
	3+00E	South End	3	-		
	4+00E	South End	4	-		
	5+00E	0+38N	3	(R)		
	6+00E	0+75N	4	(R)		
	7+00E	1+06N	3	↑		
A2-09	5+00E	0+63S	4	↓↓	Moderately to strongly polarizable anomaly. E-W trending, extends on approximately 300 m. Best response on the western portion (lines 5+00E and 6+00E) located within a chargeable and conductive area. From the ground *InfiniTEM*® survey, a conductor of good quality was identified on lines 6+00E and 8+00E. Its proximity to **A-12** on line 6+00E could mask its signature. Likely caused by deep sources. **Drilling recommended on lines 7+00E and 8+00E.**	**1**
	6+00E	0+88S	4	↓↓		
	7+00E	1+94S	3	-		
	8+00E	1+63S	2	-		
A2-10	8+00E	North End	2	↑	Single line moderately polarizable and resistive anomaly. Its signature is not completely defined (open-ended anomaly). **A survey extension towards the north will allow to better define its source.**	**3**

DESCRIPTION OF ALL IP / RESISTIVITY ANOMALIES INTERPRETED ON THE A2 GRID

Anomaly	Location		Contrast		Comments	Priority
	Line	Station	Charg.	Res.		
A2-11	10+00E	North End	2	-	Moderately polarizable anomaly. E-W trending, extends on approximately 300 m. Partially embodied within a resistive zone towards the east (lines 12+00E and 13+00E). However, the west end (lines 10+00E) is located within a conductive background. Could be interpreted as the eastern extension of **A2-10**. Likely caused by deep sources; could be outcropping on line 12+00E. **A survey extension towards the north on lines 10+00E and 11+00E will allow to better define its source.** **Initial prospecting followed by possible drilling is recommended on line 12+00E.**	**1**
	11+00E	North End	2	-		
	12+00E	1+13S	3	-		
	13+00E	1+31S	3	-		
A2-12	5+00E	1+13S	4		Strongly polarizable and conductive anomaly. Well defined and likely subcropping. Could affect the signature of **A2-09** on line 5+00E. A survey extension towards the west could help to better define this anomaly. **Prospecting is suggested on lines 5+00E and 6+00E.**	**3**
	6+00E	1+44S	4			
A2-13	5+00E	4+31S	1	-	Weakly polarizable, associated with a resistivity high. E-W trending. Faint signature, likely outcropping (shallow sources). Its signature could be related to quartz veins style mineralization. **Initial prospecting followed could be carried out on lines 6+00E and 7+00E.**	**3**
	6+00E	3+88S	1	↑		
	7+00E	4+38S	1	↑		
A2-14	10+00E	4+31S	1	↑	Weakly to moderately polarizable anomaly located within a resistive background. E-W trending, extends on approximately 300 m. Could be caused by deep sources. Its signature could be related to quartz veins style mineralization Could be interpreted as the eastern extension of **A2-13**. If so, the trend **A2-13/A2-14** extents on approximately 800 m and seems to plunge towards the east. **Drilling is recommended on line 13+00E.**	**2**
	11+00E	4+19S	1	(R)		
	12+00E	3+63S	2	(R)		
	13+00E	3+69S	3	(R)		
A2-15	7+00E	5+63S	2	-	Moderately polarizable anomaly associated with a resistivity high. Its source could be caused by quartz veins style mineralization. EW trending. Shows its higher chargeability amplitude on line 9+00E. Could be caused by deep sources. **Drilling is recommended on line 9+00E.**	**2**
	8+00E	5+56S	2	↑		
	9+00E	5+31S	2	-		

DESCRIPTION OF ALL IP / RESISTIVITY ANOMALIES INTERPRETED ON THE A2 GRID

Anomaly	Location		Contrast		Comments	Priority
	Line	Station	Charg.	Res.		
A2-16	8+00E	6+88S	1	-	Weakly polarizable and conductive E-W trend extending on approximately 400 m. Not well defined. Likely outcropping. However, its signature on lines 11+00E and 12+00E becomes deeper. Best responses on lines 9+00E and 11+00E. Could be partially caused from variations in overburden thickness (lines 8+00E, 10+00E and 12+00E). **Could be investigated by prospecting on lines 9+00E and 10+00E.**	3
	9+00E	6+81S	1	-		
	10+00E	7+13S	1	-		
	11+00E	7+25S	1	-		
	12+00E	6+75S	?	-		
A2-17	5+00E	6+63S	2	-	Moderately polarizable anomaly. NW-SE trending. Not well defined, shows its best response on line 7+00E. Could be caused by a deep source. **Drilling is recommended on line 7+00E.**	3
	6+00E	7+25S	2	-		
	7+00E	8+00S	2	-		
A2-18	5+00E	8+00S	2	↑	Strongly polarizable E-W trend extending on approximately 800 m. Best responses from line 7+00E to 11+00E. Mostly outcropping. **A survey extension towards the south is suggested.** **Prospecting is recommended on lines 6+00E, 9+00E and 11+00E.** **Pending results, drilling is recommended on lines 6+00E and 11+00E.**	1
	6+00E	8+44S	3	-		
	7+00E	8+88S	3	-		
	8+00E	8+69S	3	↑		
	9+00E	8+56S	3	-		
	10+00E	9+06S	3	-		
	11+00E	8+44S	3	↑↑		
	12+00E	8+13S	1	-		
	13+00E	8+06S	1	-		
A2-19	5+00E	9+38S	2	-	Single line moderately polarizable anomaly. Probably caused by shallow sources. Its signature is not well defined (open-ended anomaly). **A survey extension towards the south is suggested.**	3
A2-20	12+00E	South End	2	-	Moderately polarizable anomaly located within a resistive environment. Its source could be caused by quartz veins style mineralization. Not well defined (open-ended anomaly). Its response on line 13+00E suggests that it could be outcropping. **A survey extension towards the south is suggested.**	3
	13+00E	South End	2	-		

LEGEND:

Chargeability Increase
? = Marginal
1 = Weak
2 = Moderate
3 = High
4 = Very High

Resistivity Increase
↑ = Resistive
↑↑ = Very Resistive
(R) = Wide Resistive Zone
Decrease
↓ = Conductive
↓↓ = Very Conductive

APPENDIX C

GROUND INFINITEM® SURVEY
PROFILES OF SECONDARY MAGNETIC FIELD
PARTIAL DERIVATIVES:

$\partial B_z/\partial t$
$\partial B_x/\partial t$
$\partial B_y/\partial t$