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SCHEFFERVILLE MINES INC.

SCHEFFERVILLE PROJECT

PROVINCE OF QUEBEC

REPORT ON EXPLORATION PROGRAM (2015)

Ten (10) Mineral Licences:
2016806, 2016807, 2016808, 2016797, 2223065, 2223067, 2168471, 2168536, 2183175, 2386646

NTS MAP SHEETS:
23O03

Prepared by:
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For

Schefferville Mines Inc.
October 2015
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GM 69451

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1. EXECUTIVE SUMMARY

Schefferville Mines Inc. (the "Company", "SMI") conducted an exploration program during the summer exploration season of 2015 for which this report was written. Work carried out during this period in Quebec covered 168 hectares (415 acres) of the Company's claims. In total, the company conducted exploration work to explore for iron mineralization over an area measuring 1,500 hectares (3,700 acres) in size in Labrador and Quebec. Further still, this exploration area is part of a much larger land package owned by the Company in the Schefferville area of the Labrador Trough in the Provinces of Quebec and Newfoundland and Labrador.

Exploration activities conducted during 2015 included reconnaissance surveying, geological studies, and topographic surveys for the assessment of mineral potential on the Company's exploration licenses. These activities included the following:

1. Locating and selective sampling of historical exploration trenching and test pitting
2. High resolution aerial imagery surveys
3. High resolution topographic surveys
4. Collection, description and analysis of rock samples and hand specimens for
    a. Lithological classification
    b. Whole rock assay
    c. Selective petrographic description
    d. Cataloguing hand specimens for recommended future geological mapping programs
5. Collection and analysis of soil samples
6. Locating RC drilling roads and potential hole locations for interpretation of historical drilling

The focus of the 2015 Exploration Program was to investigate the bedrock geology on the claims and to ground-truth the location of past work, primarily physical sampling (test pits, trenches, and RC drilling) conducted by the Iron Ore Company of Canada (IOCC) for which there is limited data.

Ground work was traverse based on foot and by all-terrain-vehicle (ATV) over the course of a two (2) week period during the month of July. Personnel accessed the property by truck along the main road network in the Schefferville area and then by ATV along less travelled access trails and roads across much of the property.

A mapping exercise was carried out to locate and record the location of past exploration test pitting, trenching and RC drilling work in UTM coordinates, orientation and dimension. The location of overgrown trails and the purpose of the access was interpreted on the ground for the purposes of determining the areas which have been explored by some qualitative means versus those areas which appear unexplored.

Roads were surveyed using handheld GPS and Brunton geo-compass bearing with a non-magnetic survey head and tripod which were in turn plotted on paper maps in the field. These locations were later plotted digitally and a final map layer was created in ArcMap 10.3 as shapefiles.

High resolution aerial imaging was conducted over 97 hectares (240 acres) of the Company's claims in Quebec for the purposes of generating high resolution true color imagery at a scale useful for geological mapping, hydrogeological assessment and environmental characterization of the Company's exploration claims (Table 1). This ortho-rectified digital geo-TIFF imagery greatly enhances the Company's understanding of the property due its high quality at sub-10 centimeter resolution. This information has been compiled in map product form in this report for future use and interpretation.

TABLE 1 – HIGH RESOLUTION AERIAL IMAGING COVERAGE AREAS

PROVINCE	CLAIM NAME	CLAIM NUMBER	COVERAGE EXTENTS (ha)
Quebec	Sunny 1 & 2	2016797	125
Quebec		2016807	115
TOTAL COVERAGE			**240**

Information collected from the high resolution aerial imagery survey was processed to generate topographic maps with five (5) meter interval contour lines. This information was not previously available to the Company at this resolution. While the map product produced was at five meter intervals, the decision to resolve topographic contours at this scale was purely a matter of economy and it is possible to generate topography in a DEM at a much finer scale, up to 10 centimeter, if required at a later date. An ASCII (American Standard Code for Information Interchange) digital elevation model was also generated for use in drill hole planning, cut/fill engineering analysis, and other topographic/volume determination needs.

Rock sampling was conducted at selected sites for the purposes of geological characterization of the lithologies present on the Company's exploration claims. Prior to this program, the Company had not undertaken any geological mapping or traverse site visits across the subject claims. The outcrops and sample sites were selected based on accessibility and the availability of outcrop/subcrop in addition to their proximity to known geological units. A photo-catalogue of each sample site was generated and is scheduled to this report. Hand specimens were collected at each site that were later cut in to slab samples for retention by the Company for future geological interpretation. The location, field description and mode of occurrence are described in the body of this report.

Whole rock assay samples were collected from selected sample locations which displayed encouraging prospects for iron content. These assay locations and results have been plotted in an indexed map within this report. Samples were assayed at AGAT Laboratories in Mississauga, Ontario. The certificates for these analyses are scheduled to this report.

A selection of the hand specimens collected at the various sample sites were selected for additional description by thin section, reflected and transmitted light petrography. In this analysis, the samples are described by mineralogical composition and textural features that define the lithology succinctly for the classification of map units for future exploration mapping programs. A total of five (5) samples are described in this report which have been micro-photographed under plain, transmitted, and reflected light. In addition to composition and texture, an estimate of opaque oxide minerals and porosity was determined using computer software and in some cases where this was not possible, a measurement of specific gravity (SG) was determined from the multiple measurement mass and volume technique to determine SG. Polished thin sections were prepared by AGAT Laboratories in Calgary, Alberta.

Quaternary cover in the Schefferville Menihek area is characterized by varying depths (locally exceeding 30m) of glacial deposits deposited on top of bedrock which is in-turn overlain by a very thin and poorly developed soil profile. In areas with limited to no outcrop availability, several lines of soil sampling were conducted to assess the subsurface geology. The location and results of these sample collected are summarized in map and text within this report.

Several test pits and trenches were sampled during the exploration program which were previously excavated by IOCC for which the Company does not have the lithogeochemical results. At these sample sites, the excavated material was interpreted to be proximal to bedrock. It is a widely accepted exploration technique in this geological setting to assess the character of iron mineralization in bedrock by digging trenches and test pits for the purposes of obtaining assay geochemistry near the interpreted bedrock source of iron mineralization. Samples were assayed and have been described in map and text form in the body of this report.

Between October 14, 2015 and October 16, 2015, Corriveau J.L. & Associés Inc. was contracted by SMI to carry out of survey of Ferriman A and Ferriman B (2168471, 2386646), Ferriman C (2223067 & 2183175) and Ferriman D (2168536 & 2223065) stockpiles for the purposes of obtaining a mining lease at Ferriman. Two cadastral survey maps were produced for this work which are described in the body of this report. The maps are included as Plates in the back pocket of this report.

(November 12, 2015)

TERMS OF REFERENCE

The following report was prepared for the purposes of assessment reporting requirements as a summary of exploration activities. For the avoidance of doubt, the term "ore" has been referenced in the context of iron mineralization which does not necessarily have demonstrated economic viability as it relates to CIM Standards or National Instrument 43-101. The term "ore" has been used in the Labrador Trough since the start of its early mining and exploration history in both the names of companies and proper noun titles, and in addition to "iron-ore" as it relates to the formational geology. This terminology has no meaning beyond its geological reference to iron mineralized stratigraphy which may have economic significance in the future, but has not been determined to be of economic significance under current market conditions or as it relates to CIM Standards or National Instrument 43-101. Also, the term "Stockpiles" in this report refers to historical stockpiles produced from previous mining operations by IOCC and does not have demonstrated economic viability as it relates to CIM Standards or National Instrument 43-101.

2. LOCATION

The SMI project area is located in northwestern Quebec approximately 210 kilometres (km) north of Labrador City, NL and 550 km north of Sept Iles, QC (see Figure 1).

FIGURE 1 - SMI PROJECT LOCATION MAP

The town of Schefferville, Quebec lies centrally within the iron ore district of the Labrador Trough. Schefferville is the hub for logistics and infrastructure for the area. The provincial border of Labrador and Quebec is defined at the height of the land in the immediate vicinity of the town site.

3. ACCESSIBILITY AND INFRASTRUCTURE

The airport at Schefferville (CYKL) is capable of serving jet aircraft with newly re-paved (2015) runway that measures 1,524 metres (m) in length. At present, regular scheduled airline service is provided on a daily basis by Air Inuit and Provincial Airlines from and to the town of Kuujjuaq (CYVP) to the north of Schefferville and Labrador City/Wabush (CYWK), Sept Isles (CYZV) and Montreal (CYUL – International) located to the south of Schefferville.

PHOTO 1- SCHEFFERVILLE (CYKL) AIRPORT

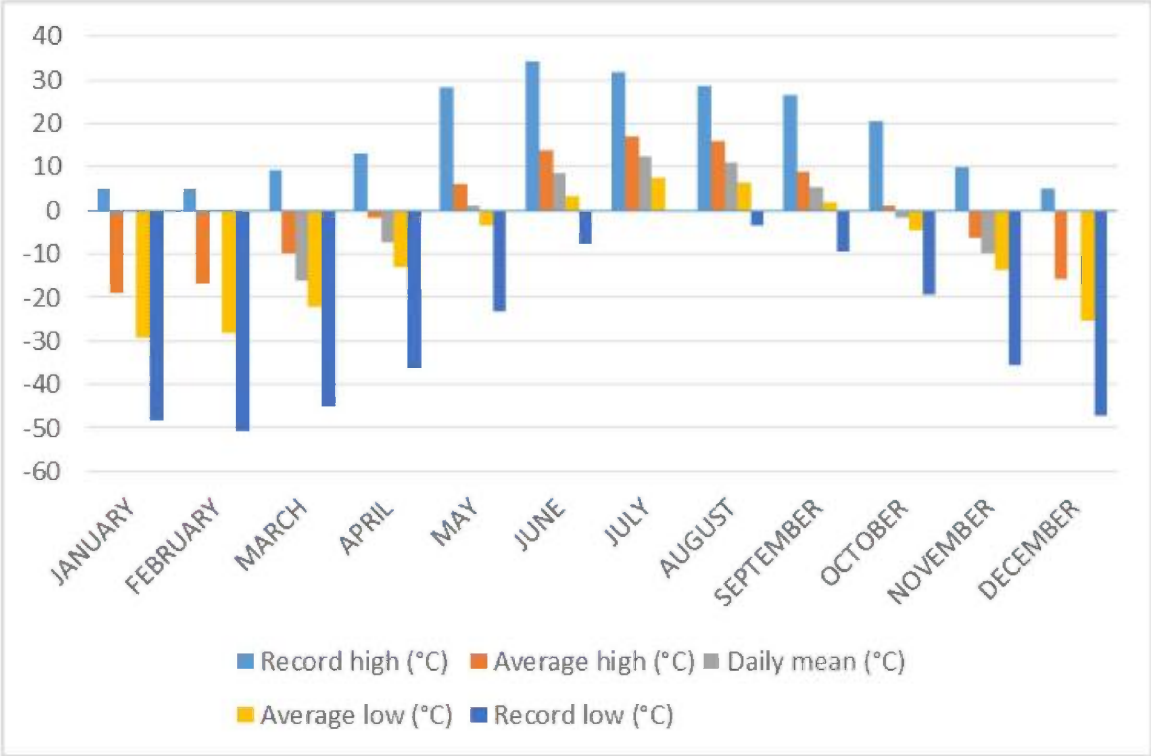
Regular scheduled rail service is provided twice weekly by Tshiuetin Tail Transportation Inc. ("TSH") between Sept Isles and Schefferville. A rail cargo facility at Emeril Junction provides access to the Labrador West area.

The Schefferville area receives hydroelectric power from the Menihek Power Dam located 40 kilometres to the south of the town site.

4. CLIMATE

The Schefferville area and vicinity have a sub-arctic continental climate with very severe winters.

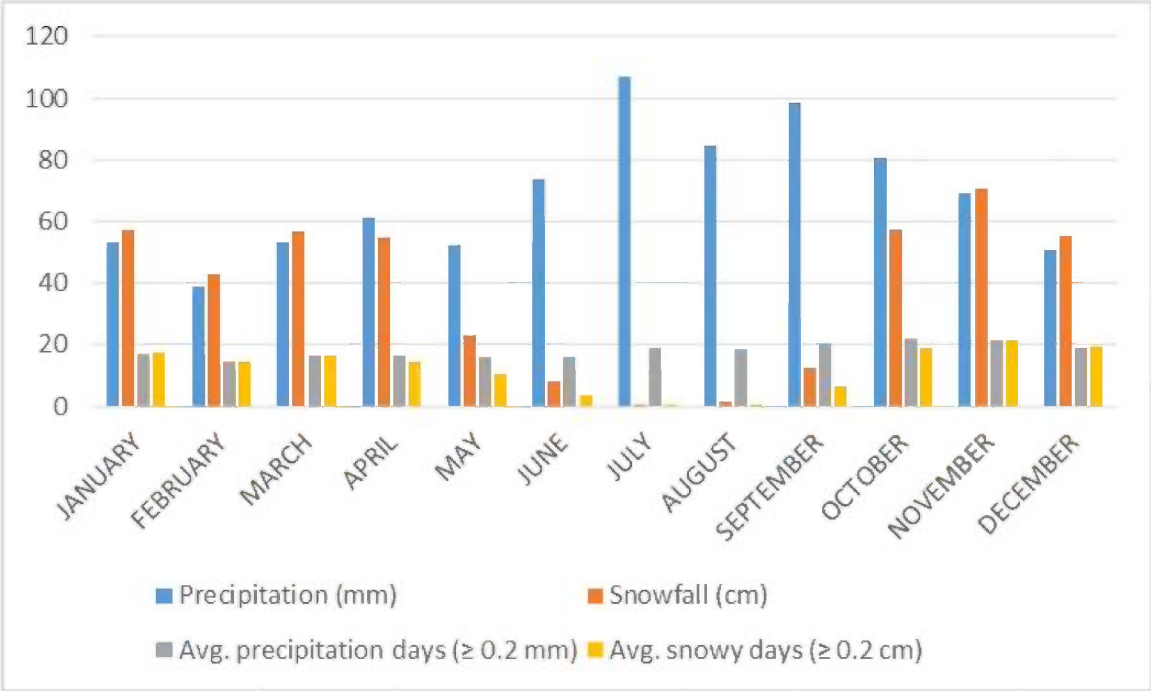
Daily average temperatures exceed 0°C for only five months a year. Daily mean temperatures for Schefferville average -24°C and -22°C in January and February respectively. Mean daily average temperatures in July and August are respectively 12°C and 11°C. A summary of climate temperature data sourced from Environment Canada is provided in Figure 2.



MONTH	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	YEAR
Record high (°C)	5.1	5.1	9.4	13.1	28.3	34	31.7	29	27	20.6	9.8	5	34.3
Average high (°C)	-19	-16.9	-9.8	-1.5	6	14	17.2	16	8.9	1.3	-6.1	-15.9	-0.5
Daily mean (°C)	−24.1	−22.6	-16	-7.3	1.2	8.5	12.4	11	5.4	-1.7	-9.8	−20.6	-5.3
Average low (°C)	-29.2	-28.1	-22	-13	-3.6	3.3	7.6	6.5	1.7	-4.6	-14	-25.2	-10
Record low (°C)	-48.3	-50.6	-45	-36	-23	-7.8	0	-3.3	-9.4	-19	-36	-47.2	-50.6

FIGURE 2 - ANNUAL TEMPERATURE DATA FOR SCHEFFERVILLE AREA

On average, snowfall in from November through January exceeds 50 cm per month. The wettest summer month is July with rainfall exceeding 100 mm on average. A summary of this precipitation data sourced from Environment Canada is provided in Figure 3.



MONTH	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	YEAR
Precipitation (mm)	53.2	38.7	53.3	61.4	52.1	74	107	85	98	80.5	69.4	50.7	823
Snowfall (cm)	57.4	42.6	56.6	54.8	22.9	8	0.5	1.7	13	57.2	70.7	55.4	441
Avg. precipitation days (≥ 0.2 mm)	17.1	14.3	16.4	16.2	15.8	16	19	18	20	21.8	21.3	19	216
Avg. snowy days (≥ 0.2 cm)	17.4	14.3	16.6	14.6	10.3	3.4	0.2	0.3	6.4	19	21.3	19.2	143

FIGURE 3 - ANNUAL PRECIPITATION DATA FOR SCHEFFERVILLE AREA

5. TERRAIN AND GEOMORPHOLOGY

Terrain in the Schefferville area is generally gently rolling to flat, sloping north-westerly, with a total relief of approximately 50 to 100 metres. The elevation of the properties varies in height between 500 and 850 metres above sea level.

Topography in the Schefferville area controlled by the formational geology of the underlying bedrock. In the area immediately surrounding the core of the mining district at Schefferville, the topography consists of a series of northwest and southeast trending ridges while the distal regions at Astray Lake and Sawyer Lake areas have less topographic relief and are situated on the Labrador Lake Plateau. Topographic highs in the area are characterized by resistant quartzite, chert and silicified horizons of the iron mineralized formations. Lows are commonly underlain by softer siltstones and shales.

The watershed gently slopes to the west to northeast away from the land representing the border of Labrador and Quebec towards the Howells River Valley, which is oriented subparallel to the strike of the iron ore deposits at Schefferville. The finger-shaped region of Labrador that encloses the Howells River drains southwards into the Hamilton River Watershed and on to the Atlantic Ocean. Streams to the east and west of the height of land in Quebec, flow into the Kaniapiskau watershed, which flows north into Ungava Bay.

The mining district is characterized by thin erosional zone, which in the last period of glaciation (ending 10,000 years ago) has eroded away any pre-existing soil/overburden cover, with the zone of deposition of these sediments being well away from the area of interest. There has been very little subsequent soil development since the end of glaciation in this area. Vegetation commonly grows directly on glacial sediments and the landscape consists of bedrock, a thin veneer of till as well as lakes and bogs.

PHOTO 2 - TYPICAL MODERATE RELIEF AND TREE COVER (CHRISTINE AREA LOOKING WEST)

Till deposits in the area are characterized by glacial and glacial-fluvial sediments. Tills deposited during the early phases of glaciations were strongly affected by later sub glacial melt waters during glacial retreat. Commonly, the composition of till is sandy gravel with lesser silty clay, mostly preserved in topographic

lows. Incised channels resulting from glacial melt waters are preserved in the sides of ridges in the Schefferville area.

PHOTO 3 - ROCHE MOUTONÉE AND TYPICAL SUBCROPPING GEOLOGY (RIDGE ORIENTED 330°)

The direction of glacial ice flow in the area is evidenced by scouring from northwest to southeast (major) and to a lesser extent from northwest to southeast (minor) direction. The earliest and most pronounced major direction was oriented subparallel to bedrock stratigraphy, and the iron deposits in the area, while the less pronounced, final-episode was oriented perpendicular to stratigraphy and the resulting topography. The later northeast flow becomes more pronounced towards the southern end of the district near Astray Lake and Dyke Lake.

6. GEOLOGY

The Labrador Trough is a 1,600-km long and 100-km wide geological structure extending south-southeast from Ungava Bay on the north through Quebec and Labrador and southwestward into central Quebec. The southern part of the Trough is crossed by the Grenville Front representing a metamorphic fold-thrust belt in which Archean basement and Early Proterozoic platformal cover were thrust north-westwards across the southern portion of the southern margin of the North American Craton during the 1,000-Ma Grenvillian orogeny.

The regional geological descriptions are based on published reports by Gross (1965), Zajac (1974), Wardel (1979) and Neale (2000) and were first prepared for an internal scoping study report for Labrador Iron Mines Holdings Limited (LIMHL) in 2006. More than forty-five (45) hematite-goethite iron deposits have been discovered in an area twenty (20) kilometres wide that extends 100 kilometres northwest of Sawyer Lake, referred to as the Knob Lake Iron Range. Here, bedrock geology consists of tightly folded and faulted iron-formation exposed generally along the height of land that forms the boundary between Quebec and

Labrador. The iron deposits occur in deformed segments of iron-formation, and the iron mineralized content of single deposits varied from a million to more than fifty (50) million tonnes.

The Knob Lake properties are located on the western margin of the Labrador Trough adjacent to Archean basement gneisses. The Labrador Trough otherwise known as the Labrador-Quebec Fold Belt extends for more than 1,000 kilometres along the eastern margin of the Superior craton from Ungava Bay to Lake Plétipi, Quebec. The belt is about 100 kilometres wide in its central part and narrows considerably to the north and south.

The western half of the Labrador Trough, consisting of a thick sedimentary sequence, can be divided into three sections based on changes in lithology and metamorphism (North, Central and South). The Labrador Trough is comprised of a sequence of Proterozoic sedimentary rocks including iron formation, volcanic rocks and mafic intrusions known as the Kaniapiskau Supergroup. The Kaniapiskau Supergroup consists of the Knob Lake Group in the western part of the Trough and the Doublet Group, which is primarily volcanic, in the eastern part.

The Central or Knob Lake Range section extends for 550 kilometres south from the Koksoak River to the Grenville Front located 30 kilometres north of Wabush Lake. The principal iron formation unit, the Sokoman Formation, part of the Knob Lake Group, forms a continuous stratigraphic unit that thickens and thins from sub-basin to sub-basin throughout the fold belt (Table 2).

The southern part of the Labrador Trough is crossed by the Grenville Front. Trough rocks in the Grenville Province to the south are highly metamorphosed and complexly folded. Iron deposits in the Grenville part of the Labrador Trough comprise Lac Jeannine, Fire Lake, Mounts Wright and Reed and the Luce, Humphrey and Scully deposits in the Wabush area. The high-grade metamorphism of the Grenville Province is responsible for recrystallization of both iron oxides and silica in primary iron formation producing coarse-grained sugary quartz, magnetite, specular hematite schists (meta-taconites) that are of improved quality for concentrating and processing.

The main part of the Labrador Trough north of the Grenville Front is in the Churchill Province and has been subjected to low-grade (greenschist facies) metamorphism. In areas west of Ungava Bay, metamorphism increases to lower amphibolite grade. The iron mines developed in the Schefferville area by IOCC exploited residually enriched earthy iron deposits derived from taconite-type rocks.

Geological conditions throughout the central division of the Labrador Trough are generally similar to those in the Knob Lake Range. A generalized map showing the location of the Labrador West Project with respect to the Churchill Province within the Labrador Trough is provided in Figure 4.

The Labrador Trough contains four main types of iron deposits:

1. Soft iron ores formed by supergene leaching and enrichment of the weakly metamorphosed cherty iron formation; they are composed mainly of friable fine-grained secondary iron oxides (hematite, goethite, limonite).

2. Taconites, the fine-grained, weakly metamorphosed iron formations with above average magnetite content and which are also commonly called magnetite iron formation.
3. More intensely metamorphosed, coarser-grained, iron formations, termed meta-taconites contain specular hematite and subordinate amounts of magnetite as the dominant iron minerals.
4. Minor occurrences of hard high-grade hematite iron mineralized zones occur southeast of Schefferville at Sawyer Lake, Astray Lake and in some of the Houston deposits.

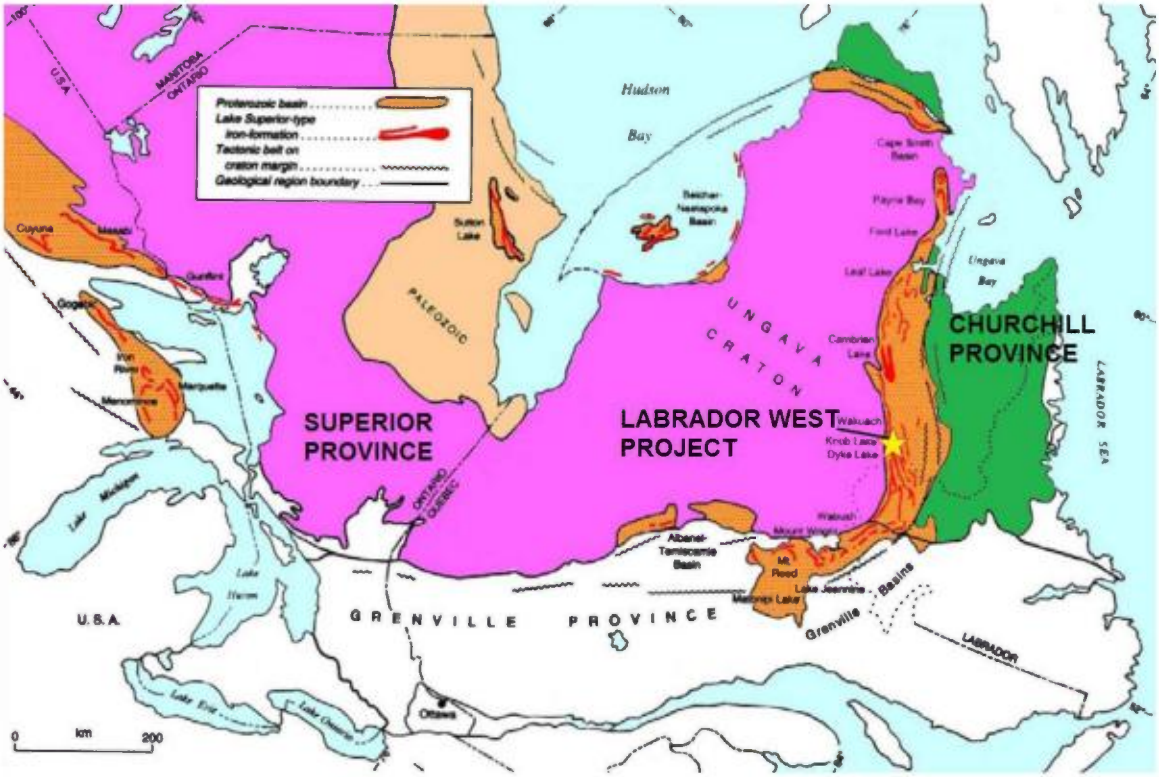


FIGURE 4 – SIMPLIFIED MAP OF GEOLOGICAL PROVINCES IN QUEBEC AND LABRADOR

TABLE 2 - REGIONAL STRATIGRAPHIC COLUMN - WESTERN LABRADOR TROUGH (CHURCHILL PROVINCE)

AGE	SUPERGROUP NAME	SUBGROUP NAME	FORMATION	STRATIGRAPHY
PROTEROZOIC	Helikian	Shabogamo Group		Gabbro, Diabase
	---------- Disconformity (Intrusive Contact) ----------			
	Aphebian Kaniapiskau Supergroup	Knob Lake Group	Menihek Formation	Carbonaceous slate, shale, quartzite, greywacke, mafic volcanic rocks, minor dolomite and chert
			Purdy Formation	Dolomite, developed locally
			Sokoman Iron Formation	Oxide, silicate and carbonate lithofacies; minor sulphide lithofacies; interbedded mafic volcanic rocks (Nimish Formation); ferruginous slate and slaty iron formation, slate and and carbonaceous shale. *NOTE: Zajac (1974) redefined the Ruth Formation, located between the Wishart and Sokoman formations as part of the Sokoman Formation.*
			Wishart Formation	Feldspathic quartz arenite, arkose, minor chert, greywacke, slate and mafic volcanic rocks
			Fleming Formation	Chert breccia, thin-bedded chert, limestone, minor lenses of shale and slate
			Denault Formation	Dolomite and minor chert
			Attikamagen Formation	Green, red, grey and black shale, and argillite intrerbedded with mafic volcanic rocks
	---------- Unconformity ----------			
ARCHEAN	Ashuanipi Complex			Granitic and granodioritic gneiss and mafic intrusives

6.1. GEOLOGY OF THE KNOB LAKE GROUP

The general stratigraphy of the Knob Lake area is representative of most of the range, except that the Denault and Fleming Formations are not uniformly distributed. The Knob Lake Group occupies an area measuring 100 kilometres long by eight (8) kilometres wide.

The stratigraphy of the Schefferville area is summarized below.

6.1.1. Attikamagen Formation

The Attikamagen Formation is exposed in folded and faulted segments of the stratigraphic succession where it varies in thickness from 30 metres near the western margin of the belt to more than 365 metres near Knob Lake. The lower part of the formation has not been observed. It consists of argillaceous material that is thinly bedded (2 to 3 mm), fine grained (0.02 to 0.05 mm), grayish green, dark grey to black, or reddish grey. Calcareous or arenaceous lenses as much as 0.3 metres in thickness occur locally interbedded with the argillite and slate, and lenses of chert are common. The formation grades upwards into Denault dolomite, or into Wishart quartzite in area where dolomite is absent. Beds are intricately drag-folded, and cleavage is well developed parallel with axial planes, perpendicular to axial lines of folds and parallel with bedding planes.

6.1.2. Denault Formation

The Denault Formation is interbedded with the slates of the Attikamagen Formation at its base and grades upwards into the chert breccia or quartzite of the Fleming Formation. The Denault Formation consists primarily of dolomite, which weathers buff-grey to brown. Most of it occurs in fairly massive beds which vary in thickness from a few centimetres to about one metre, some of which are composed of aggregates of dolomite fragments. Near Knob Lake the formation probably has a maximum thickness of 180 metres but in many other places it forms discontinuous lenses that are, at most, 30 metres thick. Leached and altered beds near the iron deposits are rubbly, brown or cream coloured and contain an abundance of chert or quartz fragments in a soft white siliceous matrix.

6.1.3. Fleming Formation

The Fleming Formation occurs a few kilometres southwest of Knob Lake and only above dolomite beds of the Denault Formation. It has a maximum thickness of about 100 metres and consists of rectangular fragments of chert and quartz within a matrix of fine chert. In the lower part of the formation the matrix is dominantly dolomite grading upwards into chert and siliceous material.

6.1.4. Wishart Formation

Quartzite and arkose of the Wishart Formation form one of the most persistent units in the Kaniapiskau Supergroup. Thick beds of massive quartzite are composed of well-rounded fragments of glassy quartz and 10-30% rounded fragments of pink and grey feldspar, well cemented by quartz and minor amounts of hematite and other iron oxides. Fresh surfaces of the rock are medium grey to pink or red. The thickness

of the beds varies from a few centimetres to about one metre but exposures of massive quartzite with no apparent bedding occur most frequently.

6.1.5. Ruth Formation

Overlying the Wishart Formation is a black, grey-green or maroon ferruginous slate, 3 to 36 metres thick. This thinly banded, fissile material contains lenses of black chert and various amounts of iron oxides. It is composed of angular fragments of quartz with potassium feldspar sparsely distributed through a very fine mass of chlorite, white mica, iron oxides and abundant finely disseminated carbon and opaque material. Much of the slate contains more than 20% iron. This formation was redefined by Zajac (1974) to be part of the Sokoman Formation.

6.1.6. Sokoman Formation

More than 80% of the iron mineralization in the Knob Lake Range occurs within this formation. Lithologically the iron formation varies in detail in different parts of the range and the thickness of individual members is not consistent. A thinly bedded, slatey facies at the base of the formation consists largely of fine chert with an abundance of iron silicates and disseminated magnetite (Fe_3O_4) and siderite ($FeCO_3$). Fresh surfaces are grey to olive green and weathered surfaces brownish yellow to bright orange where minnesotaite ($(Fe^{2+},Mg)_3Si_4O_{10}(OH)_2$) is abundant.

Thin-banded oxide facies of iron formation occurs above the silicate-carbonate facies in nearly all parts of the area. Jasper bands, which are 1.25 cm or less wide and deep red, or in a few places greenish yellow to grey, are interbanded with hard, blue layers of fine-grained hematite (Fe_2O_3) and a little magnetite. The thin jasper beds grade upwards into thick massive beds of grey to pinkish chert and beds that are very rich in blue and black iron oxides. These massive beds are commonly referred to as "cherty metallic" iron formation and make up most of the Sokoman Formation.

The iron oxides are usually concentrated in layers a few centimetres thick interbedded with leaner cherty beds. In many places iron-rich layers and lenses contain more than 50% hematite and magnetite. The upper part of the Sokoman Formation comprises beds of dull green to grey or black massive chert that contains considerable siderite or other ferruginous carbonate. Bedding is discontinuous and the rock as a whole contains much less iron than the lower part of the formation.

6.1.7. Menihek Formation

A thin-banded, fissile, grey to black argillaceous slate conformably overlies the Sokoman Formation in the Knob Lake area. Total thickness is not known, as the slate is only found in faulted blocks in the main iron mineralized horizon. East and south of Knob Lake, the Menihek Formation is more than 300 metres thick but tight folding and lack of exposure prevent determination of its true thickness. The Menihek slate is mostly dark grey or jet black. It has a dull sooty appearance but weathers light grey or becomes buff coloured where leached. Bedding is less distinct than in the slates of other slate formations but thin laminae or beds are visible in thin sections.

7. CLAIMS

Schefferville Mines Inc. is the owner of a 100% interest in the three hundred and eighty six (386) mineral licenses that are located in the Schefferville area of the Labrador Trough in the province of Quebec. These licences cover an area measuring 11,794 hectares (29,142 acres) in size, which are summarized in Table 3.

Work detailed in the body of this report summarizes the activities carried out during 2015 on the following ten (10) claims: 2016806, 2016807, 2016808, 2016797, 2223065, 2223067, 2168471, 2168536, 2183175, and 2386646.

A map showing the location of these claims is appended to this report (See Plate 1 in the back pocket of this report).

TABLE 3 - LIST OF MINERAL LICENSES HELD BY SCHEFFERVILLE MINES INC. IN QUEBEC

S/No.	Title No.	Sheet	Issued	Expiry Date	Area (Ha)
1	CDC-58039	NTS 23J10	24/02/2005	23/02/2017	20.81
2	CDC-58040	NTS 23J10	24/02/2005	23/02/2017	4.44
3	CDC-58045	NTS 23J15	24/02/2005	23/02/2017	49.76
4	CDC-58048	NTS 23J10	24/02/2005	23/02/2017	47.86
5	CDC-2016779	NTS 23J15	20/06/2006	19/06/2016	49.64
6	CDC-2016780	NTS 23J15	20/06/2006	19/06/2016	49.63
7	CDC-2016781	NTS 23J15	20/06/2006	19/06/2016	49.61
8	CDC-2016787	NTS 23J15	20/06/2006	19/06/2016	49.11
9	CDC-2016789	NTS 23J15	20/06/2006	19/06/2016	46.99
10	CDC-2016790	NTS 23J15	20/06/2006	19/06/2016	44.96
11	CDC-2016791	NTS 23J15	20/06/2006	19/06/2016	24.97
12	CDC-2016797	NTS 23O03	20/06/2006	19/06/2016	49.36
13	CDC-2016800	NTS 23O03	20/06/2006	19/06/2016	49.35
14	CDC-2016803	NTS 23O03	20/06/2006	19/06/2016	49.34
15	CDC-2016805	NTS 23O03	20/06/2006	19/06/2016	48.01
16	CDC-2016806	NTS 23O03	20/06/2006	19/06/2016	47.23
17	CDC-2016807	NTS 23O03	20/06/2006	19/06/2016	45.14
18	CDC-2016808	NTS 23O03	20/06/2006	19/06/2016	35.78
19	CDC-2016925	NTS 23O03	20/06/2006	19/06/2016	49.45
20	CDC-2016926	NTS 23O03	20/06/2006	19/06/2016	49.45
21	CDC-2016927	NTS 23O03	20/06/2006	19/06/2016	49.45
22	CDC-2168457	NTS 23J14	30/07/2008	29/07/2016	3.35
23	CDC-2168458	NTS 23J14	30/07/2008	29/07/2016	23.81
24	CDC-2168459	NTS 23J14	30/07/2008	29/07/2016	0.6
25	CDC-2168460	NTS 23J14	30/07/2008	29/07/2016	26.64
26	CDC-2168461	NTS 23J14	30/07/2008	29/07/2016	46.59

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27	CDC-2168462	NTS 23J14	30/07/2008	29/07/2016	1.39
28	CDC-2168463	NTS 23J14	30/07/2008	29/07/2016	48.09
29	CDC-2168464	NTS 23J14	30/07/2008	29/07/2016	49.62
30	CDC-2168465	NTS 23J14	30/07/2008	29/07/2016	49.62
31	CDC-2168466	NTS 23J15	30/07/2008	29/07/2016	9.96
32	CDC-2168467	NTS 23J15	30/07/2008	29/07/2016	14.85
33	CDC-2168468	NTS 23J15	30/07/2008	29/07/2016	3.07
34	CDC-2168469	NTS 23J15	30/07/2008	29/07/2016	0.31
35	CDC-2168470	NTS 23J15	30/07/2008	29/07/2016	19.86
36	CDC-2168471	NTS 23J15	30/07/2008	29/07/2016	8.07
37	CDC-2168472	NTS 23J15	30/07/2008	29/07/2016	14.42
38	CDC-2168473	NTS 23J15	30/07/2008	29/07/2016	5.02
39	CDC-2168474	NTS 23J15	30/07/2008	29/07/2016	24.43
40	CDC-2168475	NTS 23J15	30/07/2008	29/07/2016	34.47
41	CDC-2168476	NTS 23J15	30/07/2008	29/07/2016	20.11
42	CDC-2168477	NTS 23J15	30/07/2008	29/07/2016	22.13
43	CDC-2168478	NTS 23J15	30/07/2008	29/07/2016	3.71
44	CDC-2168479	NTS 23J15	30/07/2008	29/07/2016	25.28
45	CDC-2168480	NTS 23J15	30/07/2008	29/07/2016	49.66
46	CDC-2168481	NTS 23J15	30/07/2008	29/07/2016	49.66
47	CDC-2168482	NTS 23J15	30/07/2008	29/07/2016	49.44
48	CDC-2168483	NTS 23J15	30/07/2008	29/07/2016	1
49	CDC-2168484	NTS 23J15	30/07/2008	29/07/2016	26.58
50	CDC-2168485	NTS 23J15	30/07/2008	29/07/2016	34.59
51	CDC-2168486	NTS 23J15	30/07/2008	29/07/2016	1.07
52	CDC-2168487	NTS 23J15	30/07/2008	29/07/2016	0.18
53	CDC-2168488	NTS 23J15	30/07/2008	29/07/2016	2.33
54	CDC-2168489	NTS 23J15	30/07/2008	29/07/2016	1.01
55	CDC-2168490	NTS 23J15	30/07/2008	29/07/2016	46.83
56	CDC-2168491	NTS 23J15	30/07/2008	29/07/2016	43.56
57	CDC-2168492	NTS 23J15	30/07/2008	29/07/2016	49.65
58	CDC-2168493	NTS 23J15	30/07/2008	29/07/2016	46.18
59	CDC-2168494	NTS 23J15	30/07/2008	29/07/2016	5.11
60	CDC-2168495	NTS 23J15	30/07/2008	29/07/2016	14.91
61	CDC-2168496	NTS 23J15	30/07/2008	29/07/2016	38.11
62	CDC-2168497	NTS 23J15	30/07/2008	29/07/2016	49.65
63	CDC-2168498	NTS 23J15	30/07/2008	29/07/2016	49.64
64	CDC-2168499	NTS 23J15	30/07/2008	29/07/2016	46.99
65	CDC-2168500	NTS 23J15	30/07/2008	29/07/2016	14.44
66	CDC-2168501	NTS 23J15	30/07/2008	29/07/2016	6.16

S/No.	Title No.	Sheet	Issued	Expiry Date	Area (Ha)
67	CDC-2168502	NTS 23J15	30/07/2008	29/07/2016	49.64
68	CDC-2168503	NTS 23J15	30/07/2008	29/07/2016	49.64
69	CDC-2168504	NTS 23J15	30/07/2008	29/07/2016	49.63
70	CDC-2168505	NTS 23J15	30/07/2008	29/07/2016	49.63
71	CDC-2168506	NTS 23J15	30/07/2008	29/07/2016	49.63
72	CDC-2168507	NTS 23J15	30/07/2008	29/07/2016	49.63
73	CDC-2168508	NTS 23J15	30/07/2008	29/07/2016	49.63
74	CDC-2168509	NTS 23J15	30/07/2008	29/07/2016	49.63
75	CDC-2168510	NTS 23J15	30/07/2008	29/07/2016	49.63
76	CDC-2168511	NTS 23J15	30/07/2008	29/07/2016	49.62
77	CDC-2168512	NTS 23J15	30/07/2008	29/07/2016	49.62
78	CDC-2168513	NTS 23J15	30/07/2008	29/07/2016	49.62
79	CDC-2168514	NTS 23J15	30/07/2008	29/07/2016	49.62
80	CDC-2168515	NTS 23J15	30/07/2008	29/07/2016	49.62
81	CDC-2168516	NTS 23J15	30/07/2008	29/07/2016	49.62
82	CDC-2168517	NTS 23J15	30/07/2008	29/07/2016	49.62
83	CDC-2168518	NTS 23J15	30/07/2008	29/07/2016	49.62
84	CDC-2168519	NTS 23J15	30/07/2008	29/07/2016	49.61
85	CDC-2168520	NTS 23J15	30/07/2008	29/07/2016	49.61
86	CDC-2168521	NTS 23J15	30/07/2008	29/07/2016	49.61
87	CDC-2168522	NTS 23J15	30/07/2008	29/07/2016	49.61
88	CDC-2168523	NTS 23J15	30/07/2008	29/07/2016	49.61
89	CDC-2168524	NTS 23J15	30/07/2008	29/07/2016	49.61
90	CDC-2168525	NTS 23J15	30/07/2008	29/07/2016	49.61
91	CDC-2168526	NTS 23J15	30/07/2008	29/07/2016	49.61
92	CDC-2168527	NTS 23J15	30/07/2008	29/07/2016	49.61
93	CDC-2168528	NTS 23J15	30/07/2008	29/07/2016	49.61
94	CDC-2168529	NTS 23J15	30/07/2008	29/07/2016	49.61
95	CDC-2168530	NTS 23J15	30/07/2008	29/07/2016	49.61
96	CDC-2168531	NTS 23O03	30/07/2008	29/07/2016	20.33
97	CDC-2168532	NTS 23O03	30/07/2008	29/07/2016	17.71
98	CDC-2168533	NTS 23O03	30/07/2008	29/07/2016	27.79
99	CDC-2168534	NTS 23J14	30/07/2008	29/07/2016	3.06
100	CDC-2168535	NTS 23J15	30/07/2008	29/07/2016	0.37
101	CDC-2168536	NTS 23J15	30/07/2008	29/07/2016	13.02
102	CDC-2168537	NTS 23J15	30/07/2008	29/07/2016	34.11
103	CDC-2168538	NTS 23J15	30/07/2008	29/07/2016	29.59
104	CDC-2168539	NTS 23J15	30/07/2008	29/07/2016	21.17
105	CDC-2168540	NTS 23J15	30/07/2008	29/07/2016	36.25
106	CDC-2168541	NTS 23J15	30/07/2008	29/07/2016	48.39

S/No.	Title No.	Sheet	Issued	Expiry Date	Area (Ha)
107	CDC-2168612	NTS 23J15	31/07/2008	30/07/2016	3.45
108	CDC-2172892	NTS 23J14	14/10/2008	13/10/2016	40.63
109	CDC-2183173	NTS 23J15	08/05/2009	07/05/2017	49.74
110	CDC-2183174	NTS 23J15	08/05/2009	07/05/2017	49.74
111	CDC-2183175	NTS 23J15	08/05/2009	07/05/2017	49.67
112	CDC-2183176	NTS 23J15	08/05/2009	07/05/2017	39.78
113	CDC-2188826	NTS 23J10	17/09/2009	16/09/2017	49.77
114	CDC-2189054	NTS 23J14	17/09/2009	16/09/2017	0.09
115	CDC-2189055	NTS 23J15	17/09/2009	16/09/2017	45.36
116	CDC-2189056	NTS 23J15	17/09/2009	16/09/2017	47.34
117	CDC-2189057	NTS 23J15	17/09/2009	16/09/2017	49.66
118	CDC-2189058	NTS 23J15	17/09/2009	16/09/2017	49.66
119	CDC-2189059	NTS 23J15	17/09/2009	16/09/2017	49.66
120	CDC-2189060	NTS 23J15	17/09/2009	16/09/2017	49.65
121	CDC-2198039	NTS 23O10	18/12/2009	17/12/2015	48.69
122	CDC-2198040	NTS 23O10	18/12/2009	17/12/2015	48.66
123	CDC-2198041	NTS 23O10	18/12/2009	17/12/2015	48.66
124	CDC-2198042	NTS 23O10	18/12/2009	17/12/2015	48.66
125	CDC-2198043	NTS 23O10	18/12/2009	17/12/2015	48.67
126	CDC-2198044	NTS 23O10	18/12/2009	17/12/2015	48.67
127	CDC-2198045	NTS 23O10	18/12/2009	17/12/2015	48.67
128	CDC-2198046	NTS 23O10	18/12/2009	17/12/2015	48.65
129	CDC-2198047	NTS 23O10	18/12/2009	17/12/2015	48.65
130	CDC-2198048	NTS 23O10	18/12/2009	17/12/2015	48.65
131	CDC-2198049	NTS 23O10	18/12/2009	17/12/2015	48.64
132	CDC-2198050	NTS 23O10	18/12/2009	17/12/2015	48.64
133	CDC-2198889	NTS 23O03	13/01/2010	12/01/2016	49.31
134	CDC-2198890	NTS 23O03	13/01/2010	12/01/2016	49.31
135	CDC-2198891	NTS 23O03	13/01/2010	12/01/2016	49.32
136	CDC-2198892	NTS 23O03	13/01/2010	12/01/2016	49.3
137	CDC-2198893	NTS 23O03	13/01/2010	12/01/2016	49.3
138	CDC-2198894	NTS 23O03	13/01/2010	12/01/2016	49.3
139	CDC-2198895	NTS 23O03	13/01/2010	12/01/2016	49.29
140	CDC-2198896	NTS 23O03	13/01/2010	12/01/2016	49.29
141	CDC-2198897	NTS 23O03	13/01/2010	12/01/2016	49.29
142	CDC-2198898	NTS 23O03	13/01/2010	12/01/2016	49.29
143	CDC-2198899	NTS 23O03	13/01/2010	12/01/2016	49.28
144	CDC-2198900	NTS 23O03	13/01/2010	12/01/2016	49.28
145	CDC-2198901	NTS 23O03	13/01/2010	12/01/2016	49.28
146	CDC-2198902	NTS 23O03	13/01/2010	12/01/2016	49.28

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147	CDC-2198903	NTS 23O03	13/01/2010	12/01/2016	49.28
148	CDC-2198904	NTS 23O03	13/01/2010	12/01/2016	49.27
149	CDC-2198905	NTS 23O03	13/01/2010	12/01/2016	49.27
150	CDC-2198906	NTS 23O03	13/01/2010	12/01/2016	49.27
151	CDC-2198907	NTS 23O03	13/01/2010	12/01/2016	49.27
152	CDC-2198908	NTS 23O03	13/01/2010	12/01/2016	49.26
153	CDC-2198909	NTS 23O03	13/01/2010	12/01/2016	49.26
154	CDC-2198910	NTS 23O03	13/01/2010	12/01/2016	49.26
155	CDC-2198911	NTS 23O03	13/01/2010	12/01/2016	49.26
156	CDC-2198912	NTS 23O03	13/01/2010	12/01/2016	49.25
157	CDC-2198913	NTS 23O03	13/01/2010	12/01/2016	49.25
158	CDC-2198914	NTS 23O03	13/01/2010	12/01/2016	49.25
159	CDC-2198915	NTS 23O03	13/01/2010	12/01/2016	49.25
160	CDC-2198916	NTS 23O03	13/01/2010	12/01/2016	49.25
161	CDC-2198917	NTS 23O03	13/01/2010	12/01/2016	49.24
162	CDC-2198918	NTS 23O03	13/01/2010	12/01/2016	49.24
163	CDC-2198919	NTS 23O03	13/01/2010	12/01/2016	49.24
164	CDC-2214980	NTS 23O07	16/04/2010	15/04/2016	49.01
165	CDC-2214981	NTS 23O07	16/04/2010	15/04/2016	49.01
166	CDC-2214982	NTS 23O07	16/04/2010	15/04/2016	49.01
167	CDC-2214983	NTS 23O07	16/04/2010	15/04/2016	49.01
168	CDC-2214984	NTS 23O07	16/04/2010	15/04/2016	49.01
169	CDC-2214985	NTS 23O07	16/04/2010	15/04/2016	49.01
170	CDC-2214986	NTS 23O07	16/04/2010	15/04/2016	49.00
171	CDC-2214987	NTS 23O07	16/04/2010	15/04/2016	49.00
172	CDC-2214988	NTS 23O07	16/04/2010	15/04/2016	49.00
173	CDC-2214989	NTS 23O07	16/04/2010	15/04/2016	49.00
174	CDC-2214990	NTS 23O07	16/04/2010	15/04/2016	49.00
175	CDC-2214991	NTS 23O07	16/04/2010	15/04/2016	49.00
176	CDC-2214992	NTS 23O07	16/04/2010	15/04/2016	48.99
177	CDC-2214993	NTS 23O07	16/04/2010	15/04/2016	48.99
178	CDC-2214994	NTS 23O07	16/04/2010	15/04/2016	48.99
179	CDC-2214995	NTS 23O07	16/04/2010	15/04/2016	48.99
180	CDC-2214996	NTS 23O07	16/04/2010	15/04/2016	48.99
181	CDC-2214997	NTS 23O07	16/04/2010	15/04/2016	48.98
182	CDC-2214998	NTS 23O07	16/04/2010	15/04/2016	48.98
183	CDC-2214999	NTS 23O07	16/04/2010	15/04/2016	48.98
184	CDC-2215000	NTS 23O07	16/04/2010	15/04/2016	48.98
185	CDC-2215001	NTS 23O07	16/04/2010	15/04/2016	48.98
186	CDC-2215002	NTS 23O07	16/04/2010	15/04/2016	48.98

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187	CDC-2223062	NTS 23J15	28/04/2010	27/04/2016	49.69
188	CDC-2223063	NTS 23J15	28/04/2010	27/04/2016	37.51
189	CDC-2223064	NTS 23J15	28/04/2010	27/04/2016	49.68
190	CDC-2223065	NTS 23J15	28/04/2010	27/04/2016	46.66
191	CDC-2223066	NTS 23J15	28/04/2010	27/04/2016	49.67
192	CDC-2223067	NTS 23J15	28/04/2010	27/04/2016	49.67
193	CDC-2233265	NTS 23J10	11/05/2010	10/05/2016	11.63
194	CDC-2233266	NTS 23J10	11/05/2010	10/05/2016	10.28
195	CDC-2233267	NTS 23J10	11/05/2010	10/05/2016	48.76
196	CDC-2233268	NTS 23J10	11/05/2010	10/05/2016	49.79
197	CDC-2233269	NTS 23J10	11/05/2010	10/05/2016	37.60
198	CDC-2233270	NTS 23J10	11/05/2010	10/05/2016	49.78
199	CDC-2242564	NTS 24E08	27/07/2010	26/07/2016	46.35
200	CDC-2242565	NTS 24E08	27/07/2010	26/07/2016	46.35
201	CDC-2242566	NTS 24E08	27/07/2010	26/07/2016	46.35
202	CDC-2242567	NTS 24E08	27/07/2010	26/07/2016	46.35
203	CDC-2242568	NTS 24E08	27/07/2010	26/07/2016	46.35
204	CDC-2242569	NTS 24E08	27/07/2010	26/07/2016	46.34
205	CDC-2242570	NTS 24E08	27/07/2010	26/07/2016	46.34
206	CDC-2242571	NTS 24E08	27/07/2010	26/07/2016	46.34
207	CDC-2242572	NTS 24E08	27/07/2010	26/07/2016	46.34
208	CDC-2242573	NTS 24E08	27/07/2010	26/07/2016	46.34
209	CDC-2242574	NTS 24E09	27/07/2010	26/07/2016	46.33
210	CDC-2242575	NTS 24E09	27/07/2010	26/07/2016	46.33
211	CDC-2242576	NTS 24E09	27/07/2010	26/07/2016	46.33
212	CDC-2242577	NTS 24E09	27/07/2010	26/07/2016	46.33
213	CDC-2242578	NTS 24E09	27/07/2010	26/07/2016	46.32
214	CDC-2242579	NTS 24E09	27/07/2010	26/07/2016	46.32
215	CDC-2242580	NTS 24E09	27/07/2010	26/07/2016	46.31
216	CDC-2242581	NTS 24E09	27/07/2010	26/07/2016	46.31
217	CDC-2242582	NTS 24E09	27/07/2010	26/07/2016	46.3
218	CDC-2242583	NTS 24E09	27/07/2010	26/07/2016	46.29
219	CDC-2242584	NTS 24E09	27/07/2010	26/07/2016	46.29
220	CDC-2259638	NTS 23J10	09/11/2010	08/11/2016	49.77
221	CDC-2279509	NTS 23J15	25/03/2011	24/03/2017	48.55
222	CDC-2298702	NTS 23J10	22/06/2011	21/06/2017	17.22
223	CDC-2298703	NTS 23J10	22/06/2011	21/06/2017	40.99
224	CDC-2298704	NTS 23J10	22/06/2011	21/06/2017	10.88
225	CDC-2298705	NTS 23J10	22/06/2011	21/06/2017	1.70
226	CDC-2298706	NTS 23J10	22/06/2011	21/06/2017	36.79

S/No.	Title No.	Sheet	Issued	Expiry Date	Area (Ha)
227	CDC-2298707	NTS 23J15	22/06/2011	21/06/2017	11.62
228	CDC-2298708	NTS 23J15	22/06/2011	21/06/2017	37.30
229	CDC-2298709	NTS 23J15	22/06/2011	21/06/2017	49.75
230	CDC-2298710	NTS 23J15	22/06/2011	21/06/2017	49.74
231	CDC-2317779	NTS 23J10	13/10/2011	12/10/2017	49.79
232	CDC-2317780	NTS 23J10	13/10/2011	12/10/2017	32.37
233	CDC-2317781	NTS 23J10	13/10/2011	12/10/2017	49.78
234	CDC-2317782	NTS 23J10	13/10/2011	12/10/2017	28.74
235	CDC-2317783	NTS 23J10	13/10/2011	12/10/2017	4.01
236	CDC-2317784	NTS 23J10	13/10/2011	12/10/2017	39.44
237	CDC-2317785	NTS 23J10	13/10/2011	12/10/2017	21.59
238	CDC-2317786	NTS 23J15	13/10/2011	12/10/2017	3.61
239	CDC-2317787	NTS 23J15	13/10/2011	12/10/2017	0.67
240	CDC-2350893	NTS 23J15	12/06/2012	11/06/2016	49.69
241	CDC-2375170	NTS 23J15	14/01/2013	13/01/2017	8.54
242	CDC-2375171	NTS 23J15	14/01/2013	13/01/2017	45.41
243	CDC-2375172	NTS 23J15	14/01/2013	13/01/2017	36.57
244	CDC-2375173	NTS 23J15	14/01/2013	13/01/2017	34.28
245	CDC-2375174	NTS 23J15	14/01/2013	13/01/2017	7.77
246	CDC-2386623	NTS 23J10	18/06/2013	17/06/2017	10.17
247	CDC-2386624	NTS 23J10	18/06/2013	17/06/2017	1.78
248	CDC-2386625	NTS 23J10	18/06/2013	17/06/2017	1.91
249	CDC-2386626	NTS 23J14	18/06/2013	17/06/2017	2.84
250	CDC-2386627	NTS 23J14	18/06/2013	17/06/2017	8.98
251	CDC-2386628	NTS 23J14	18/06/2013	17/06/2017	6.85
252	CDC-2386629	NTS 23J14	18/06/2013	17/06/2017	0.95
253	CDC-2386630	NTS 23J14	18/06/2013	17/06/2017	1.18
254	CDC-2386631	NTS 23J14	18/06/2013	17/06/2017	3.62
255	CDC-2386632	NTS 23J14	18/06/2013	17/06/2017	5.85
256	CDC-2386633	NTS 23J14	18/06/2013	17/06/2017	0.14
257	CDC-2386634	NTS 23J14	18/06/2013	17/06/2017	6.33
258	CDC-2386635	NTS 23J14	18/06/2013	17/06/2017	1.13
259	CDC-2386636	NTS 23J14	18/06/2013	17/06/2017	11.62
260	CDC-2386637	NTS 23J14	18/06/2013	17/06/2017	8.80
261	CDC-2386638	NTS 23J14	18/06/2013	17/06/2017	0.51
262	CDC-2386639	NTS 23J14	18/06/2013	17/06/2017	0.04
263	CDC-2386640	NTS 23J14	18/06/2013	17/06/2017	2.44
264	CDC-2386641	NTS 23J14	18/06/2013	17/06/2017	4.37
265	CDC-2386642	NTS 23J14	18/06/2013	17/06/2017	17.33
266	CDC-2386643	NTS 23J14	18/06/2013	17/06/2017	5.35

S/No.	Title No.	Sheet	Issued	Expiry Date	Area (Ha)
267	CDC-2386644	NTS 23J14	18/06/2013	17/06/2017	5.17
268	CDC-2386646	NTS 23J15	18/06/2013	17/06/2017	6.84
269	CDC-2386647	NTS 23J15	18/06/2013	17/06/2017	25.39
270	CDC-2386648	NTS 23J15	18/06/2013	17/06/2017	12.68
271	CDC-2386650	NTS 23J15	18/06/2013	17/06/2017	28.27
272	CDC-2386652	NTS 23J15	18/06/2013	17/06/2017	3.03
273	CDC-2386653	NTS 23J15	18/06/2013	17/06/2017	36.66
274	CDC-2386654	NTS 23J15	18/06/2013	17/06/2017	49.63
275	CDC-2386655	NTS 23J15	18/06/2013	17/06/2017	49.68
276	CDC-2386656	NTS 23J15	18/06/2013	17/06/2017	45.60
277	CDC-2386657	NTS 23J15	18/06/2013	17/06/2017	15.62
278	CDC-2386660	NTS 23J15	18/06/2013	17/06/2017	9.90
279	CDC-2386661	NTS 23J15	18/06/2013	17/06/2017	16.87
280	CDC-2386662	NTS 23J15	18/06/2013	17/06/2017	15.21
281	CDC-2386663	NTS 23J15	18/06/2013	17/06/2017	29.57
282	CDC-2386664	NTS 23J15	18/06/2013	17/06/2017	27.50
283	CDC-2386665	NTS 23J15	18/06/2013	17/06/2017	0.42
284	CDC-2386666	NTS 23J15	18/06/2013	17/06/2017	8.90
285	CDC-2386667	NTS 23J15	18/06/2013	17/06/2017	11.17
286	CDC-2386668	NTS 23J15	18/06/2013	17/06/2017	0.22
287	CDC-2386669	NTS 23J15	18/06/2013	17/06/2017	22.08
288	CDC-2386670	NTS 23J15	18/06/2013	17/06/2017	15.08
289	CDC-2386671	NTS 23J15	18/06/2013	17/06/2017	0.30
290	CDC-2386672	NTS 23J15	18/06/2013	17/06/2017	17.44
291	CDC-2386673	NTS 23J15	18/06/2013	17/06/2017	0.88
292	CDC-2386674	NTS 23J15	18/06/2013	17/06/2017	15.54
293	CDC-2386675	NTS 23J15	18/06/2013	17/06/2017	24.64
294	CDC-2386676	NTS 23J15	18/06/2013	17/06/2017	6.09
295	CDC-2386677	NTS 23J15	18/06/2013	17/06/2017	3.48
296	CDC-2386678	NTS 23J15	18/06/2013	17/06/2017	29.63
297	CDC-2386679	NTS 23J15	18/06/2013	17/06/2017	11.55
298	CDC-2386680	NTS 23J15	18/06/2013	17/06/2017	1.98
299	CDC-2386681	NTS 23J15	18/06/2013	17/06/2017	1.53
300	CDC-2386682	NTS 23J15	18/06/2013	17/06/2017	9.54
301	CDC-2386683	NTS 23J15	18/06/2013	17/06/2017	9.62
302	CDC-2386684	NTS 23J15	18/06/2013	17/06/2017	10.46
303	CDC-2386685	NTS 23J15	18/06/2013	17/06/2017	9.12
304	CDC-2386686	NTS 23J15	18/06/2013	17/06/2017	0.89
305	CDC-2386687	NTS 23J15	18/06/2013	17/06/2017	20.06
306	CDC-2386688	NTS 23J15	18/06/2013	17/06/2017	2.65

S/No.	Title No.	Sheet	Issued	Expiry Date	Area (Ha)
307	CDC-2386689	NTS 23J15	18/06/2013	17/06/2017	29.05
308	CDC-2386690	NTS 23J15	18/06/2013	17/06/2017	4.68
309	CDC-2386691	NTS 23J15	18/06/2013	17/06/2017	0.02
310	CDC-2386692	NTS 23J15	18/06/2013	17/06/2017	3.59
311	CDC-2386693	NTS 23J15	18/06/2013	17/06/2017	10.20
312	CDC-2386694	NTS 23J15	18/06/2013	17/06/2017	2.34
313	CDC-2386695	NTS 23J15	18/06/2013	17/06/2017	25.02
314	CDC-2386696	NTS 23J15	18/06/2013	17/06/2017	13.38
315	CDC-2386697	NTS 23J15	18/06/2013	17/06/2017	1.24
316	CDC-2386698	NTS 23J15	18/06/2013	17/06/2017	2.64
317	CDC-2386699	NTS 23J15	18/06/2013	17/06/2017	33.63
318	CDC-2386700	NTS 23J15	18/06/2013	17/06/2017	3.82
319	CDC-2386701	NTS 23J15	18/06/2013	17/06/2017	0.52
320	CDC-2386702	NTS 23J15	18/06/2013	17/06/2017	8.46
321	CDC-2386703	NTS 23J15	18/06/2013	17/06/2017	6.86
322	CDC-2386704	NTS 23J15	18/06/2013	17/06/2017	1.09
323	CDC-2386705	NTS 23J15	18/06/2013	17/06/2017	22.13
324	CDC-2386706	NTS 23J15	18/06/2013	17/06/2017	24.97
325	CDC-2386707	NTS 23J15	18/06/2013	17/06/2017	2.29
326	CDC-2386708	NTS 23O02	18/06/2013	17/06/2017	10.03
327	CDC-2386709	NTS 23O02	18/06/2013	17/06/2017	30.11
328	CDC-2386710	NTS 23O02	18/06/2013	17/06/2017	3.65
329	CDC-2386711	NTS 23O02	18/06/2013	17/06/2017	3.97
330	CDC-2386712	NTS 23O02	18/06/2013	17/06/2017	28.55
331	CDC-2386713	NTS 23O02	18/06/2013	17/06/2017	23.53
332	CDC-2386714	NTS 23O02	18/06/2013	17/06/2017	1.59
333	CDC-2386715	NTS 23O02	18/06/2013	17/06/2017	0.76
334	CDC-2386716	NTS 23O02	18/06/2013	17/06/2017	4.43
335	CDC-2386717	NTS 23O03	18/06/2013	17/06/2017	0.03
336	CDC-2386718	NTS 23O03	18/06/2013	17/06/2017	0.55
337	CDC-2386719	NTS 23O03	18/06/2013	17/06/2017	1.23
338	CDC-2386720	NTS 23O03	18/06/2013	17/06/2017	0.39
339	CDC-2386721	NTS 23O03	18/06/2013	17/06/2017	12.01
340	CDC-2386722	NTS 23O03	18/06/2013	17/06/2017	47.96
341	CDC-2386723	NTS 23O03	18/06/2013	17/06/2017	49.07
342	CDC-2386724	NTS 23O03	18/06/2013	17/06/2017	47.50
343	CDC-2386725	NTS 23O03	18/06/2013	17/06/2017	22.69
344	CDC-2386726	NTS 23O03	18/06/2013	17/06/2017	0.69
345	CDC-2386727	NTS 23O03	18/06/2013	17/06/2017	3.69
346	CDC-2386728	NTS 23O03	18/06/2013	17/06/2017	43.8

S/No.	Title No.	Sheet	Issued	Expiry Date	Area (Ha)
347	CDC-2386729	NTS 23O03	18/06/2013	17/06/2017	49.22
348	CDC-2386730	NTS 23O03	18/06/2013	17/06/2017	37.21
349	CDC-2386731	NTS 23O03	18/06/2013	17/06/2017	7.22
350	CDC-2386732	NTS 23O03	18/06/2013	17/06/2017	1.65
351	CDC-2386733	NTS 23O03	18/06/2013	17/06/2017	4.85
352	CDC-2386734	NTS 23O03	18/06/2013	17/06/2017	5.31
353	CDC-2386735	NTS 23O03	18/06/2013	17/06/2017	0.29
354	CDC-2386736	NTS 23O05	18/06/2013	17/06/2017	4.77
355	CDC-2386737	NTS 23O05	18/06/2013	17/06/2017	34.45
356	CDC-2386738	NTS 23O05	18/06/2013	17/06/2017	34.47
357	CDC-2386739	NTS 23O05	18/06/2013	17/06/2017	22.47
358	CDC-2386740	NTS 23O05	18/06/2013	17/06/2017	4.67
359	CDC-2386741	NTS 23O05	18/06/2013	17/06/2017	9.55
360	CDC-2386742	NTS 23O05	18/06/2013	17/06/2017	43.51
361	CDC-2386743	NTS 23O05	18/06/2013	17/06/2017	49.03
362	CDC-2386744	NTS 23O05	18/06/2013	17/06/2017	48.98
363	CDC-2386745	NTS 23O05	18/06/2013	17/06/2017	27.09
364	CDC-2386746	NTS 23O05	18/06/2013	17/06/2017	0.63
365	CDC-2386747	NTS 23O05	18/06/2013	17/06/2017	16.93
366	CDC-2386748	NTS 23O05	18/06/2013	17/06/2017	47.13
367	CDC-2386749	NTS 23O05	18/06/2013	17/06/2017	49.02
368	CDC-2386750	NTS 23O05	18/06/2013	17/06/2017	47.60
369	CDC-2386751	NTS 23O05	18/06/2013	17/06/2017	18.25
370	CDC-2386752	NTS 23O05	18/06/2013	17/06/2017	10.62
371	CDC-2386753	NTS 23O05	18/06/2013	17/06/2017	32.05
372	CDC-2386754	NTS 23O05	18/06/2013	17/06/2017	31.57
373	CDC-2386755	NTS 23O05	18/06/2013	17/06/2017	31.07
374	CDC-2386756	NTS 23O05	18/06/2013	17/06/2017	10.87
375	CDC-2386757	NTS 23O06	18/06/2013	17/06/2017	7.20
376	CDC-2386758	NTS 23O06	18/06/2013	17/06/2017	30.66
377	CDC-2386759	NTS 23O06	18/06/2013	17/06/2017	6.94
378	CDC-2386760	NTS 23O06	18/06/2013	17/06/2017	4.42
379	CDC-2386761	NTS 23O06	18/06/2013	17/06/2017	28.66
380	CDC-2386762	NTS 23O06	18/06/2013	17/06/2017	35.58
381	CDC-2386763	NTS 23O06	18/06/2013	17/06/2017	10.01
382	CDC-2386764	NTS 23O06	18/06/2013	17/06/2017	5.43
383	CDC-2386765	NTS 23O06	18/06/2013	17/06/2017	12.91
384	CDC-2386766	NTS 23O06	18/06/2013	17/06/2017	0.01
385	CDC-2386767	NTS 23J15	18/06/2013	17/06/2017	0.01
386	CDC-2386768	NTS 23J15	18/06/2013	17/06/2017	0.01
TOTAL					**11,793.50**

8. HISTORICAL EXPLORATION

8.1. 1929 - J. E. GILL AND W. F. JAMES

Gill and James explored the geology around present day Schefferville, Quebec and named the area Ferrimango Hills. In the course of their field work, they discovered enriched iron mineralization thought to be of "direct-shipping ore" grade in deposits located west of Schefferville, which they named Ferrimango Hills No.1, No.2 and No.3. These were later renamed the Ruth Lake No.1, No.2 and No.3 deposits by J.A. Retty.

8.2. 1936 - J. S. WISHART

Wishart was a member of the 1929 mapping expedition (above). In 1936, the area near Ruth Lake and "Wishart Lake" were mapped in greater detail, with the objective of outlining new iron mineralized occurrences.

8.3. 1937 – W. C. HOWELLS

Howells traversed the area of the Ruth Lake Property as part of a watercourse survey between the Kivivic and Astray lakes – now known as Howells River.

8.4. 1945 – A. T. GRIFFIS

A report for Labrador Mining and Exploration Company Limited ("LM&E") describes the work by Griffis in the "Wishart – Ruth – Fleming" area. The report includes geological maps and detailed descriptions of the physiography, stratigraphy and geology of the area, and of the Ruth Lake No.1, Ruth Lake No.2 and Ruth Lake No.3 deposits. Griffis recognized that the iron mineralization is mainly hosted in the Sokoman Formation which is structurally repeated by folding and faulting. Griffis remarked that "the potential tonnage of high-grade iron deposits is considered to be great."

8.5. 1954 TO 1982 – IRON ORE COMPANY OF CANADA

Most exploration on the properties was carried out by Iron Ore Company of Canada ("IOCC") from 1954 until the closure of their Schefferville operation in 1982. Most data used in the evaluation of the current status is sourced from the numerous documents, sections and maps produced by IOCC or by consultants working for IOCC during this period.

8.6. 1989 TO 1990 – LA FOSSE PLATINUM GROUP INC. AND HOLLINGER NORTH SHORE EXPLORATION INC.

La Fosse Platinum Group Inc. ("La Fosse") and Hollinger North Shore Exploration Inc. ("Hollinger") undertook an extensive exploration program for manganese on forty-six (46) known occurrences in the Schefferville area, including those occurrences at the Ruth Lake, which were subdivided at the time into: Ruth Lake prospects; Ryan showing; and, Avison showing.

During 1989, La Fosse carried out geological mapping, prospecting and sampling, and a VLF ground geophysical survey. Twenty-six (26) Airtrac drill holes were completed, totalling 146 metres of drilling. Also in 1989, La Fosse carried out exploration on the Ryan manganese showing with work consisted of stripping and trenching (12 trenches over 601 metres length), chip sampling and twenty-five (25) Airtrac drill holes.

In addition, a 1,800 ton bulk sample was obtained and stockpiled for analysis. Nineteen (19) representative samples were taken from the bulk sample stockpile that yielded an average of 23.1% manganese and 20.4% iron.

In 1990, La Fosse returned to the Ryan manganese showing to continue exploration. Their work further defined the two manganese lenses which were separated by approximately nine (9) metres of barren, fault-gouge material.

- Zone No.1 measuring 171 by 9 metres in length and width, grading up to 25% manganese with approximate ratios of Mn:Fe estimated at 1:1; and,
- Zone No.2 measuring 183 by 9 metres in length and width, grading 16.2% manganese and 10.7% iron.

Work consisted of stripping and trenching over a total of 488 metres in fourteen (14) trenches. Three (3) diamond drill holes were completed (136 metres) and four (4) Airtrac drill holes (30 metres) were also completed. In addition, another 400 tons of manganese "ore" was mined and added to the 1,800 ton stockpile from the previous year. The average grade of the 400 tonne addition was 18.8% manganese and 24.2% iron, whereas the average grade for the 2,200 ton bulk sample was 22.3% manganese and 21.1% iron.

Hollinger also investigated the Avison manganese showing in 1990 which is located 2.4 kilometres southeast of the Ruth deposit along the same fault zone as the Ruth- and Ryan deposits. Work consisted of geological mapping and sampling, stripping and trenching over a trenched length of 46 metres, and 38 metres of Airtrac drilling. Manganese grades from the drilling were returned from assay as high as 42% manganese, which compared with trenching results in the same area of 15% to 25% manganese. High grades and the location of the Avison showing location along the same fault zone as the Ruth and Ryan deposits were highlighted by the project geologist at the time.

A large part of exploration efforts of Hollinger during the 1990 exploration season were focused on the Ruth Lake deposits. Two new deposits were outlined by detailed geological mapping, trenching, sampling, five (5) Airtrac drill holes and diamond drilling totalling 729 metres in twenty-one (21) drill holes.

8.7.2008 – GRAVHAVEN MANGANESE INC.

During 2008, an exploration program was carried and later summarized in an assessment report (October 30th, 2009) by MRB and Associates under contract to Gravhaven Manganese Inc. ("Gravhaven"). This exploration program was undertaken to:

- re-evaluate and confirm the previous mapping and trenching results of La Fosse; and,

- locate new manganese-rich mineralized zones underlying mineral claims in the "Schefferville Iron District" (SID) held by Gravhaven.

The 2008 work program included surface prospecting, the excavation and mapping of trenches and the completion eight (8) exploration diamond drill holes on ten (10) mineral concessions.

A local contractor was hired to excavate forty-two (42) trenches that varied from 0.5 to 2.5 metres in depth. A total of 1,042 grab samples were collected in the excavated trenches which totaled 1,672 metres in length.

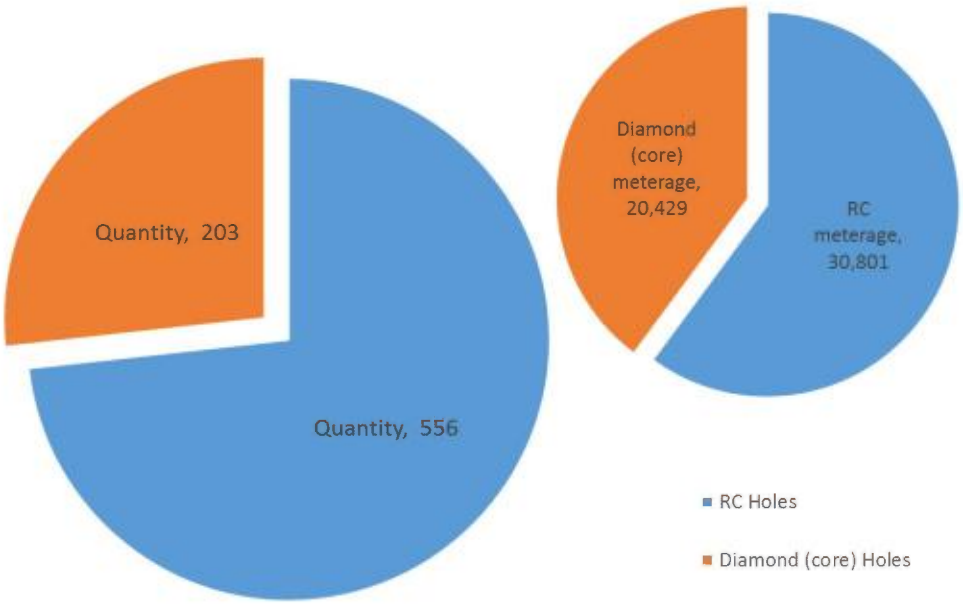
Eight (8) drill holes over a combined length of 345 metres were completed on the Ruth Property from which 35 core samples collected and assayed. The intent of this sampling program was to quantify the manganese content of different mineralized targets on property holdings by Gravhaven.

9. EXPLORATION BY SCHEFFERVILLE MINES INC. /LABRADOR IRON MINES LTD. (2005 TO 2013)

SMI and Labrador Iron Mines Limited (LIM) was able to acquire only a small fraction of the data generated and compiled by IOCC. Locating and compiling the historical data has been an ongoing program that was initiated in 2005 which is ongoing today.

The Company's initial work commenced in 2006 with the completion of eleven (11) exploration diamond drill holes and two (2) trenches on claims located in Labrador. Subsequent work in the years that followed was carried out on claims located in both Labrador and Quebec. A summary of this work is provided in Table 4.

TABLE 4 - SUMMARY OF EXPLORATION WORK BY SMI AND LIM



WORK DETAILS			TOTAL	YEAR							
				2006	2007	2008	2009	2010	2011	2012	2013
REVERSE CIRCULATION	LABRADOR	*Quantity*	**395**	-	-	70	79	26	141	79	-
		Length (m)	**22,145**	-	-	4,115	4,838	1,806	8,393	2,993	-
	QUEBEC	*Quantity*	**161**	-	-	-	-	50	51	47	13
		Length (m)	**8,656**	-	-	-	-	2,726	2,794	2,632	504
DIAMOND DRILLING	LABRADOR	*Quantity*	**201**	11	-	10	-	-	-	70	110
		Length (m)	**20,366**	605	-	541	-	-	-	8,318	10,902
	QUEBEC	*Quantity*	**2**	-	-	-	-	-	-	-	2
		Length (m)	**63**	-	-	-	-	-	-	-	63
TRENCHING (OVERBURDEN STRIPPING)	LABRADOR	*Quantity*	**73**	2	-	13	34	16	3	-	5
		Length (m)	**4,798**	188	-	936	1,606	1,374	551	-	143
	QUEBEC	*Quantity*	**21**	-	-	-	-	-	21	-	-
		Length (m)	**60**	-	-	-	-	-	60	-	-
TEST PITTING	LABRADOR	*Quantity*	**993**	-	-	158	-	66	-	769	-
	QUEBEC	*Quantity*	**551**	-	-	-	-	55	-	322	174

9.1. 2005 RECONNAISSANCE GEOLOGY PROGRAM

Three geologists travelled to Schefferville to start the exploration and reconnaissance program over the properties held by Energold Minerals Inc. and those held by Fenton Scott and Graeme Scott, among them, the Sawyer Lake claims located approximately 54 kilometres southeast of the town of Schefferville. The geologists flew in to the Sawyer Lake property and spent nine (9) days on the properties surveying (trenches, pits and drill hole locations, and various other historical workings) prospecting, mapping, and collecting rock samples. Eighteen (18) samples were collected. These samples were comprised of six (6) composite samples and twelve (12) grab samples from trenches. Surface rock sampling in the James deposit was intended for confirmation purposes. Results obtained were as expected being similar to those reported by IOCC.

One (1) grab sample from drill cuttings (Hole RX-1083) was also collected from the James deposit for the sole purpose of grade verification with respect to historical data. Iron grades varied from 49.69% Fe at the James deposit to 66.77% Fe at the Knob Lake No.1 deposit.

9.2. 2006 EXPLORATION PROGRAM

SMI/LIM initiated field exploration programs during 2006 in Labrador West/Schefferville area. During 2006, the Company completed eleven (11) diamond drill holes over a combined length of 605 metres on the Astray Lake, Houston, James, and Knob Lake No.1 properties. Due to poor drill core recovery problems, no assay samples were collected; however, the core was later used in geological modeling in subsequent programs. A bulk sampling program was carried out in the same year at the Houston and James deposits. Trenching over a total length of 188 metres was conducted in two stages; the first at Houston deposit (75 metres) and the second at the James deposit (113 metres). The results of this program were reported in the Technical Report dated October 10th, 2007.

9.3. 2007 EXPLORATION PROGRAM

SMI/LIM conducted a Fall prospecting and trenching exploration program over a period of nine (9) days at Sawyer Lake (5 days) and Astray Lake (4 days). Local labour services were contracted by SMI through the Public Works Division of the Naskapi Band in Kawawachikamach. The results of this exploration program were reported in the Technical Report dated October 10th, 2007.

9.4. 2008 EXPLORATION PROGRAM

In 2007, LIM carried out an extensive exploration program between the months of June and November comprised of drilling, test pitting and a bulk sample collection program.

9.4.1. Drilling

A total of seventy (70) reverse circulation drill holes (4,115 metres of drilling) were completed on the James, Redmond, Knob Lake No.1, Astray, Houston and Howse deposit areas. The Company also completed ten (10) diamond drill holes totalling 540 metres of drilling on the Sawyer Lake Property.

9.4.2. Test Pitting

In addition to drilling exploration, a stockpile evaluation program comprising test pitting at four (4) stockpiles in the Redmond area and one (1) near the deposit at the former Wishart No.1 mine were completed resulting in a total of 158 samples collected for assay.

9.4.3. Bulk Sampling

A bulk sampling program was carried out with material from the James, Redmond, Knob Lake No.1 and Houston deposits which included the following:

- 1,400 tonnes of "blue" mineralized rock was excavated from the James South deposit;
- 1,500 tonnes of "blue" mineralized rock from the Redmond 5 deposit;
- 1,100 tonnes of "red" mineralized rock from the Knob Lake 1 deposit; and,
- 1,900 tonnes of "blue" mineralized rock from the Houston deposit.

The material was excavated with a Caterpillar 330-series excavator and Caterpillar 950G-series wheel loader and loaded into 25-tonne dump trucks for transport to the Silver Yards rail yard near the James deposit where the crushing and screening activities were carried out. The samples were crushed and screened to produce either, Lump (50 mm to 6 mm); or, Sinter Fines (<6 mm).

Representative samples of each raw mineralization type weighing 200 kilograms were collected and sent to SGS Mineral Services in Lakefield, Ontario (a division of SGS Canada Inc.) for metallurgical test work and assays. Representative samples of 2 kilograms of each product were collected and sent to SGS Lakefield laboratories for assays. Additional screening tests were also carried out on other samples. Five train cars were used for the transport of the samples to Sept-Îles, the rest of the sample material remained at the Silver Yards rail yard.

9.5. 2009 EXPLORATION PROGRAM

Exploration work was principally focused on the development of mineral resources at the James, Knob Lake No.1, Redmond, Houston and Howse deposit areas.

9.5.1. Drilling

Seventy-nine (79) reverse circulation drill holes over a combined length of 4,838 metres were drilled.

9.5.2. Trenching

An extensive trenching program was carried out on the Gill, Redmond and Houston deposit areas with a total of thirty-four (34) trench excavations being completed over a combined length of 1,606 metres during the exploration season.

The Company also carried out a location survey to determine precise locations of the 2009 drill holes and trenches with sub-metre accuracy (±0.40 metres). An effort was also made to survey historical drill holes and survey markers from past exploration by IOCC.

9.5.3. Resource Estimation

The information obtained from the 2008 and 2009 programs were carried out for the purpose of confirmation and validation of the historical resources reported by IOCC. The Company contracted SGS Geostat (a division of SGS Canada Inc.) for the preparation of the 43-101 compliant mineral resource estimations of the James, Redmond 2B and Redmond 5 deposits.

9.6. 2010 EXPLORATION PROGRAM

During 2010, the Company conducted exploration programs in both Labrador and Quebec.

9.6.1. Drilling

In Labrador, forty-two (42) reverse circulation drill holes were completed over a combined length of 3,180 metres, principally on the Houston claims. In Quebec, work was carried out on the Denault Claims where 2,726 metres of reverse circulation drilling was completed in fifty (50) holes.

9.6.2. Trenching and Test Pitting

Trenching was undertaken at Ruth Lake No.8 in sixteen (16) trenches over a combined length of 1,374 metres. The multi-year stockpile testing program that was initiated in 2008, continued throughout the 2010 exploration season. A total of sixty-six (66) test pits were excavated and sampled on the treat rock piles at the Redmond No.2 deposit.

9.6.3. Geophysics

An airborne gravity gradiometer and magnetic survey totalling 1,896 line kilometres of geophysics were flown under contract to Fugro Airborne Surveys Pty Ltd, Australia ("Fugro") over four (4) blocks of claims in the Schefferville area. These claim blocks included the:

- Howse area for 474 line kilometres;
- Houston and Redmond areas for 852 line kilometres;
- Astray area for 355 line kilometres; and,
- Sawyer Lake area for 216 line kilometres of airborne surveying.

The results of the survey were a positive correlation of geophysical response to the surveyed iron deposits, wherein the dominant iron mineralization is hematite, although only some of the Direct Ship Ore ("DSO") deposits were detected. A detailed interpretation of the geophysical data by Fugro confirmed the ability of the survey to detect and outline anticipated DSO deposits. Accordingly, several targets were recommended for drill testing in 2011.

9.7. 2011 EXPLORATION PROGRAM

Exploration continued in 2011 with the principal goal of verifying and validating the historical resource estimations by IOCC. Updates to the resource estimate and resource expansion target locations were reported on the Redmond No.2B, Denault and Knob Lake properties.

9.7.1. Drilling

In Labrador, a total of 141 reverse circulation drill holes totalling 8,393 metres of drilling was carried out on the Redmond, Houston, Ruth Lake No.8, and Gill properties. In Quebec, the Company completed fifty-one (51) drill holes totalling 2,794 metres of drilling on the Malcolm No.1 and Denault properties.

9.7.2. Trenching

A short trenching program was completed in the Houston area with three (3) trenches being excavated over a combined length of 551 metres.

9.7.3. Geophysics

The Company carried out two (2) airborne geophysical surveys in 2011, again under contract to Fugro, in the Schefferville area. The first survey was a helicopter mounted gravity survey to determine the advantages/disadvantages of helicopter-borne compared to conventional fixed-wing airborne surveys. The second survey was a fixed-wing regional gravity and magnetics survey. Strategex Limited Geophysical Consulting (Ontario) was contracted as an advisor to assist in the planning and final interpretation of the results of both surveys.

The results of the helicopter-borne test survey provided marginally greater resolution that did not provide sufficient encouragement to justify the additional cost when compared to the deployment of conventional fixed-wing aircraft. Cost increased were compounded by the limitations of helicopter usage, since concurrent collection of gravity and magnetics data were not possible, while conventional fixed-wing airborne surveys permitted the collection of gravity and magnetic data in a single flight.

Neither the fixed-wing nor helicopter surveys produced satisfactory results for the Howse deposit area. Accordingly a ground-based gravity survey in the Howse was planned for the following 2012 exploration season.

9.8. 2012 EXPLORATION PROGRAM

SMI/LIM continued to carry out exploration work in 2012 in Labrador and Quebec.

9.8.1. Drilling

The deposits at the Houston, James, and Elizabeth Lake areas were the subject of ongoing drilling during the 2012 exploration season. Seventy-nine (79) reverse circulation drill holes and seventy (70) diamond drill holes were completed in Labrador for combined lengths of 2,993 and 8,318 metres, respectively. In

Quebec, thirty-seven (37) reverse circulation drill holes (2,380 metres) were completed during the same period of time on the Malcolm and Ferriman deposit area.

9.8.2. Auger Sampling

The Company completed an extensive auger sampling program at the historical stockpiles located at the Wishart area. In total, 769 sites in Labrador and 322 sites in Quebec were tested and sampled for grade verification test work.

9.8.3. Geophysics

GeoSig Inc. (Québec, QC) was contracted to conduct a combined ground-based gravity and magnetics survey characterized by 35 line kilometres of data collection over forty (40) lines over the Howse, Gagnon, Malcolm and Elizabeth deposit areas. It was found by GeoSig that it is possible to discriminate coincident magnetic and gravity anomalies which would be useful in the planning of future exploration programs. Stronger magnetics over dense bodies were determined to result from Taconite-style iron mineralization while magnetic lows having coincident elevated densities would be the likely result of hematized iron mineralization (DSO-style) at depth.

In addition to surface surveying, Abitibi Géophysiques Inc. (Val d'Or, QC) was contracted to complete a subsurface borehole gravity survey using the Gravilog Borehole Gravity System on four (4) drill holes to determine the bulk density of strongly-altered, hematite-bearing, iron mineralization characterized by friable physical rock properties. The holes selected were located at the James (South Extension) and Houston area, which were drilled during the 2012 program.

9.9. 2013 EXPLORATION PROGRAM

An extensive 10,902 metre drill program was undertaken during the Fall/Winter exploration season of 2013 at the Houston, James, Gill, Bean Lake, and Redmond No.5 deposit areas. A total of 110 HQ3-sized (61.1mm diameter) diamond drill holes were completed which are summarized in Table 5.

A multi-purposed drill program at Houston was completed for exploration, metallurgical and geotechnical purposes. A total of thirty (30) exploration drill holes totalling 2,719 metres of drilling were drilled. Subsequent sampling of these holes for metallurgical purposes was carried out. Drilling for geotechnical investigations also completed over a total of 1,138 metres in ten (10) drill holes. A total of sixty-one (61) exploration drill holes over a combined length of 6,531 metres were completed on the James deposit area that comprise the James Mine, Gill Mine and Bean Lake project areas. Five (5) trenches were excavated and sampled over a combined length of 142 metres and nine (9) infill and grade-confirmation drill holes totalling 513 metres of drilling was completed on the Redmond No.5 deposit area.

TABLE 5 - SUMMARY OF 2013 DRILL PROGRAM

LICENSE	TARGET AREA	QUANTITY	COMBINED LENGTH (m)
020433M	Houston	40	3,857
020432M	James/Gill/Bean Lake	61	6,531
020440M	Redmond No.5	9	514
TOTAL		**110**	**10,902**

10. DESCRIPTION OF IRON MINERALIZATION

10.1. DENAULT

Denault property is located 6 km northwest of Schefferville along a low hill immediately to the east of Denault Lake, QC. Access to the property is via all year round road from Schefferville. Denault consists of three separate occurrences which SMI refers to from north to south as Denault No.1, Denault No.2 and Denault No.3 (Figure 5).

10.1.1. Mode of Occurrence

The iron formation in Denault forms a homocline with north east dipping (60°) and bedding that strikes NW. Enrichment of the iron formation appears to have occurred mainly in the silicate carbonate iron formation (SCIF) and in the underlying Ruth member near the contact of the two geological units. A manganiferous component of the iron formation occurs at or near the boundary of the SCIF and underlying Ruth member. Less than three (3) metres of overburden covers the deposit areas, with the average vertical depth to iron mineralization being 60 metres. The maximum vertical depth of mineralization is 100 metres.

10.1.2. Resource Estimate 1983 (IOCC)

The Denault Lake area was prospected and mapped by IOCC between 1939 and 1982. This work by IOCC outlined an area of iron enrichment on the east shore of Denault Lake. By 1966, IOCC had completed sixty-four (64) drill holes (2,330 metres) at Denault No.1 (Dagenais, 1966) which outlined inferred category resources of 2,731,000 tonnes of iron mineralization grading 49.11% iron and 7.71% silica (SiO_2). A manganiferous component of the inferred resource was reported as 929,000 tonnes grading 45.1% iron, 6.22% SiO_2 and 5.36% manganese (IOCC, 1983).

10.1.3. Resource Estimate 2014 (SMI)

Hollinger, LaFosse and MRB and Associates carried out prospecting and trenching over the Denault area, subsequent to the departure of IOCC from the Schefferville area in 1982. SMI only had access to historical data from IOCC and data generated from work completed by SMI between 2010 and 2013 in arriving at the current resource estimate. The current resource estimate for the Denault deposit was initially compiled by SGS in February 2013 and was updated in March 2014. The database used contains a total

of 5,143 metres of RC drilling in 109 RC drill holes for a total of 1,753 assays with database cut-off date of December 8th, 2011.

The resource estimate totals 4,674,500 tonnes of DRO, PHG, PLG, Yellow ore types at an average grade of 54.73% iron. The manganiferrous component totals 588,000 tonnes at an average grade of 5.33% manganese and 127,000 tonnes at an average grade of 4.8% manganese for Total Measured + Indicated and Inferred categories respectively (See *Table 6*).

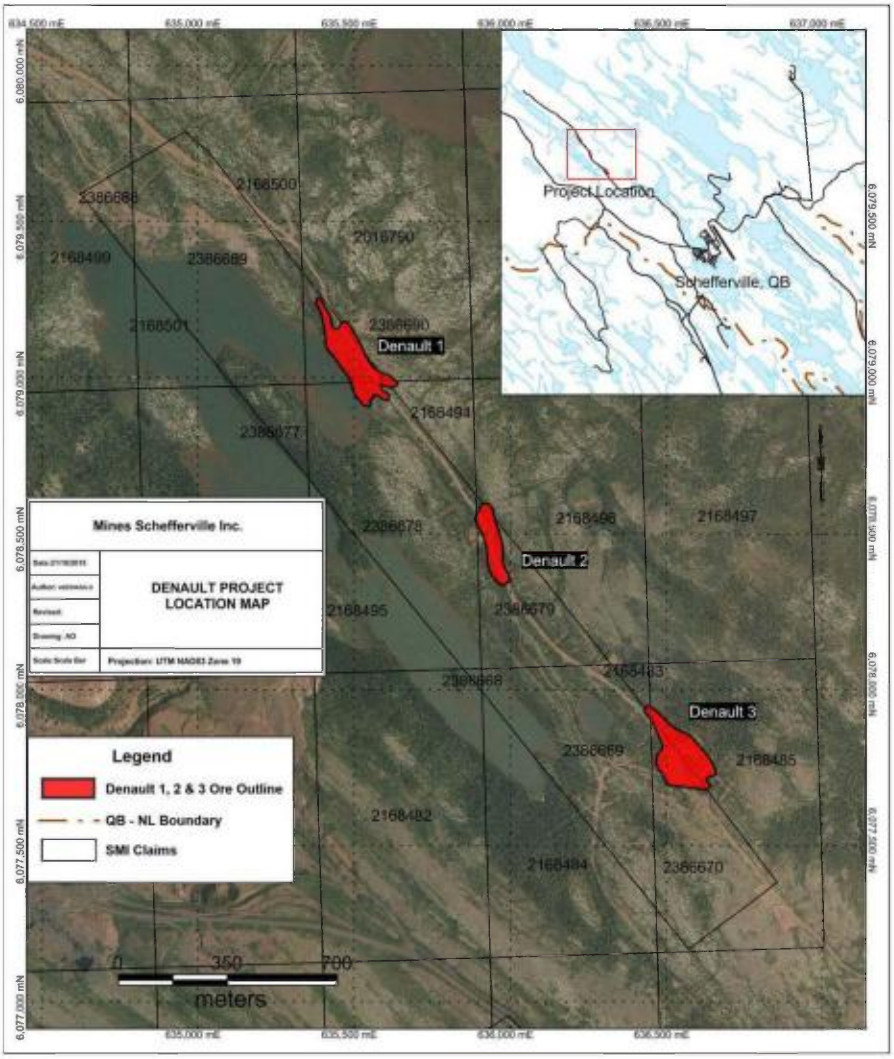


FIGURE 5 - DENAULT PROJECT LOCATION MAP

TABLE 6 – UPDATED RESOURCE ESTIMATE FOR DENAULT AS AT MARCH 31, 2014

ORE TYPE	CLASSIFICATION	TONNAGE	IRON	PHOSPHORUS	MANGANESE	SILICA (SiO2)	ALUMINA (Al2O3)
Fe Ore (DRO, PHG, PLG, Yellow)	Measured (M)	4,167,000	54.92%	0.08%	0.85%	9.64%	1.13%
	Indicated(I)	507,100	53.17%	0.08%	0.76%	11.96%	0.97%
	Total M+I	4,674,500	54.73%	0.08%	0.84%	9.89%	1.11%
	Inferred	-	-	-	-	-	-

10.2. MALCOLM NO.1

Malcolm No.1 lies on gently westward sloping land, approximately 700 metres north east of Dodette Lake and is approximately 12 kilometers southeast from Schefferville (Figure 6).

10.2.1. Mode of Occurrence

Work by IOCC in the 1960's and 1970's delineated a zone of enrichment that was 1,000 metres long by as much as 90 metres wide having a northwest/southeast trend and a dip of 60 to 70 degrees to the northeast. Drilling completed by SMI on Malcolm No.1 delineated iron mineralization to a vertical depth of 112 metres. It is encouraging that iron enrichment appears to continue at depth. There is also a smaller area of iron enrichment measuring 70 metres by 160 metres that occurs to the southeast having the same strike.

The enrichment appears to occur mainly within the Ruth member and Lower Iron Formation (LIF) of the Sokoman Iron Formation and would be similar to the enrichment encountered at the Houston showing which is just 5 kilometers to the southeast and occurs within the same band of iron formation.

10.2.2. Resource Estimate 1983 (IOCC)

Malcolm No.1 was mapped, sampled and drilled by IOCC in several phases from the 1960's to 1982. A resource (indicated category) estimated in 1983 for Malcolm No.1 by IOCC which totaled 2,879,000 tonnes grading 56.2% iron and 6.14% Silica. The manganiferrous component of the resource (indicated category) totals 422,000 tonnes grading 51.4% iron, 4.9% silica and 5.8% manganese.

10.2.3. Resource Estimate 2013 (SMI)

The Malcolm No.1 database contains a total of 3,059 metres of RC drilling in 33 RC drill holes and 60 metres of trenches for a total of 1,006 assays. Thirty two (32) of the RC drill holes were drillings completed by SMI until 2013 and only one (1) historical RC drill hole from IOCC. The database cut-off date was February 14, 2013.

The current resource estimate for Malcolm No.1 deposit was calculated by SGS in 2013 which totals 9,060,000 tonnes of LMN (Low Manganese) & HMN (High Manganese) ore types at an average grade of 57.91% iron and 520,000 tonnes at an average of 56.41 % iron (Total for Measured + Indicated and

Inferred categories). The manganiferrous component of the resource (Total for Measured + Indicated) is 162,000 tonnes grading 54.49% iron and 4.53% manganese (See *Table 7*).

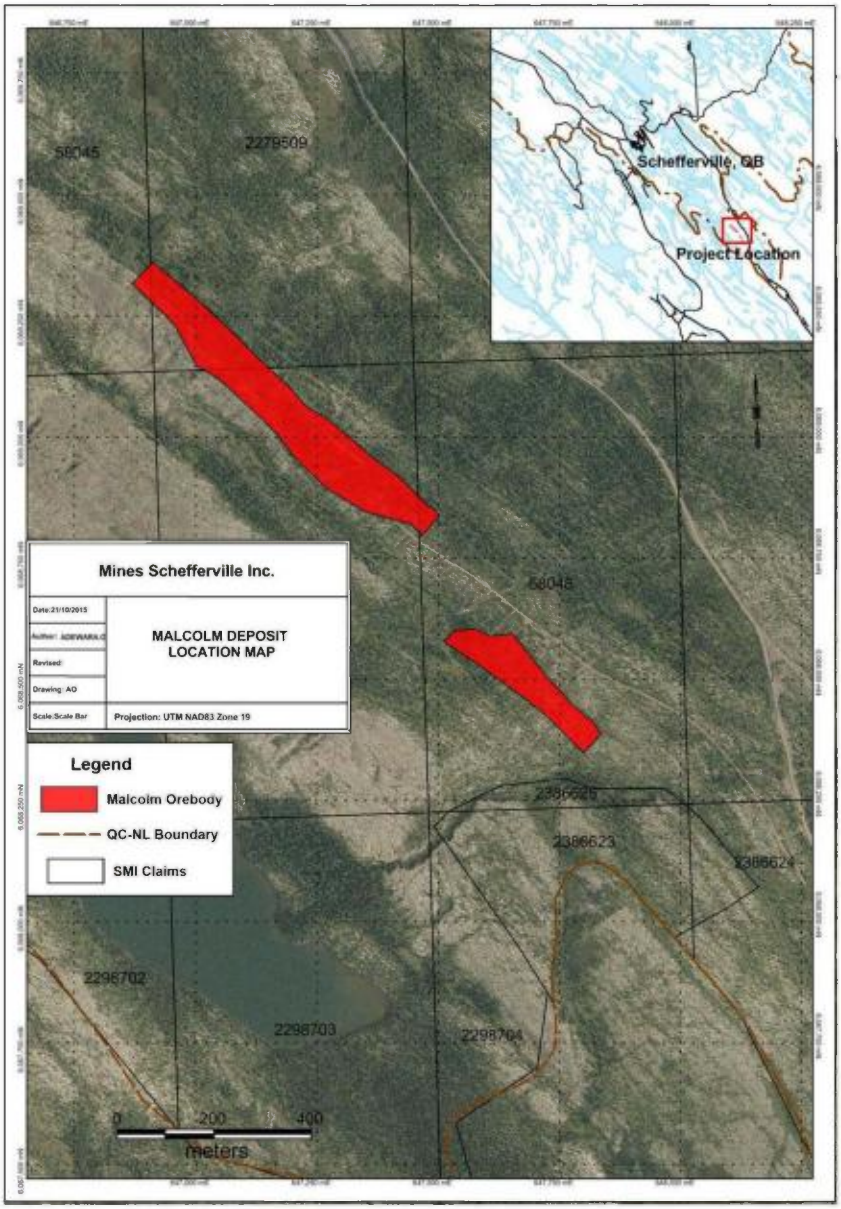


FIGURE 6 - MALCOLM DEPOSIT LOCATION MAP

TABLE 7 - UPDATED RESOURCE ESTIMATE FOR MALCOLM 1 DEPOSIT AS AT APRIL 24, 2013

ORE TYPE	CLASSIFICATION	TONNAGE	IRON	PHOSPHORUS	MANGANESE	SILICA (SiO2)	ALUMINA (Al2O3)
Fe Ore	Measured (M)	2,374,000	60.21%	0.05%	0.77%	9.78%	0.51%
	Indicated(I)	6,686,000	57.10%	0.07%	0.76%	12.25%	0.53%
	Total M+I	9,060,000	57.91%	0.06%	0.76%	11.61%	0.52%
	Inferred	520,000	56.41%	0.06%	0.80%	12.94%	0.44%
Mn Ore	Measured (M)	13,000	58.35%	0.04%	4.25%	7.65%	0.47%
	Indicated(I)	149,000	54.14%	0.06%	4.56%	11.93%	0.47%
	Total M+I	162,000	54.49%	0.06%	4.53%	11.58%	0.47%
	Inferred	-	50.53%	0.06%	3.87%	17.73%	0.86%

10.3. ELIZABETH TACONITE

Another type of iron mineralization, besides hematite-rich DSO, exists within the Labrador Trough. Taconites are host to iron deposits which are lower in iron grade than DSO deposits (see deposits described in the preceding sections on Denault and Malcolm for which LIM has promising results after the first season of drilling that resulted in a NI 43-101 resource estimate of 620 million tonnes of Taconite deposit. The Elizabeth Taconite is made up of magnetite and hematite dominant zones.

The Elizabeth Taconite is attractive in terms of its proximity to existing road, and power, as well as rail access to port and pellet plant facilities in Sept-Îles. A rail bed from a previous IOCC spur line crosses within 1 km of the Elizabeth Taconite. As well, the property is well accessed via previous haul roads to former DSO mines in the area. Former IOCC mined out pits surrounding the Elizabeth Taconite such as the existing Ruth Lake and Wishart pits may also serve as easily accessible sites for waste rock and tailings.

10.3.1. Geology of Elizabeth Taconite

The geological concepts applied to the Elizabeth deposit area include the typical extensive regional scale of deposition associated with Superior-type iron formations, the relatively low deleterious grade ores associated with these types of deposits, stratigraphic understanding of the basin development, potential for enriched Fe grades associated with the metamorphism or silica leaching associated with the Hudsonian Orogeny, potential folding and faulting to increase thicknesses of the iron formation, and potential for coarser magnetite iron formation that may facilitate easier beneficiation characteristics.

10.3.2. Resource Estimate (2013) - Elizabeth

The geological model was based on a sectional interpretation of drill hole (2012) assay intercepts in conjunction with surface geological mapping by the IOCC as well as ground and airborne magnetic and gravity surveys completed for SMI/LIM in 2011 and 2012. Dip information was largely derived from surface mapping as well as continuity between drill hole intercepts on the southeastern-most section.

For the completion of a resource estimate (see *Table 8*), four (4) vertical sections extending north-northeast were generated at a section spacing of roughly 600 metres. On the southern-most section two holes were drilled on a single section confirming the interpreted dip of the hematite and magnetite mineralized zones. There was relatively good correlation between the contacts defined by surface mapping and geophysical anomalies defined by the magnetic and gravity surveys.

TABLE 8 - RESOURCE ESTIMATE AT ELIZABETH TACONITE DEPOSIT AS AT JUNE 15, 2013

INFERRED MINERAL RESOURCES	ZONE SOLIDS	TONNAGE	IRON (Fe)	SATMAGAN	ALUMINA (Al2O3)	CaO	MgO	SILICA (SiO2)	MANGANESE	PHOSPHORUS
Magnetite Taconite	Magnetite Elizabeth No1 Zone (200)	410,000,000	32.83%	29.20%	0.08%	1.80%	2.09%	43.58%	0.82%	0.01%
Hematite Taconite	HW Hematite Elizabeth No1 Zone (100); FW Hematite Elizabeth No1 Zone (300)	210,000,000	29.83%	3.42%	0.64%	0.93%	2.59%	39.34%	1.15%	0.04%
TOTAL INFERRED	**100; 200; 300**	**620,000,000**	**31.81%**	**20.47%**	**0.27%**	**1.51%**	**2.26%**	**42.14%**	**0.93%**	**0.02%**

The project warrants further evaluation which includes preliminary mineralogical testwork on the hematite and magnetite taconite, further Davis Tube testwork, step-out drilling with the aim to initially expand the inferred mineral resources. If results continue to be positive, this work should be followed by a preliminary economic assessment.

10.4. GAGNON TACONITE

Gagnon Taconite deposit is another laudable Taconite deposit that belongs to SMI. Field observations of outcrops on the Gagnon Taconite deposit in Quebec (Figure 7) show that they exhibit a similar surface characteristics with the Elizabeth Taconite deposit for which LIM has promising results after the first season of drilling that resulted in a NI 43-101 resource estimate of 620 million tonnes of Taconite deposit (Table 8).

The Gagnon Taconite deposit is attractive because of its proximity to the town of Schefferville, Silver Yard plant, existing roads, power as well as rail access to port and pellet plant facilities in Sept-Îles. Former IOCC mined out pits surrounding the Gagnon Taconite such as the existing Ruth and French Mine pits may also serve as easily accessible sites for waste rock and tailings.

A widely-spaced diamond drilling on the Gagnon Taconite is warranted based on the encouraging result from the Elizabeth Taconite deposit.

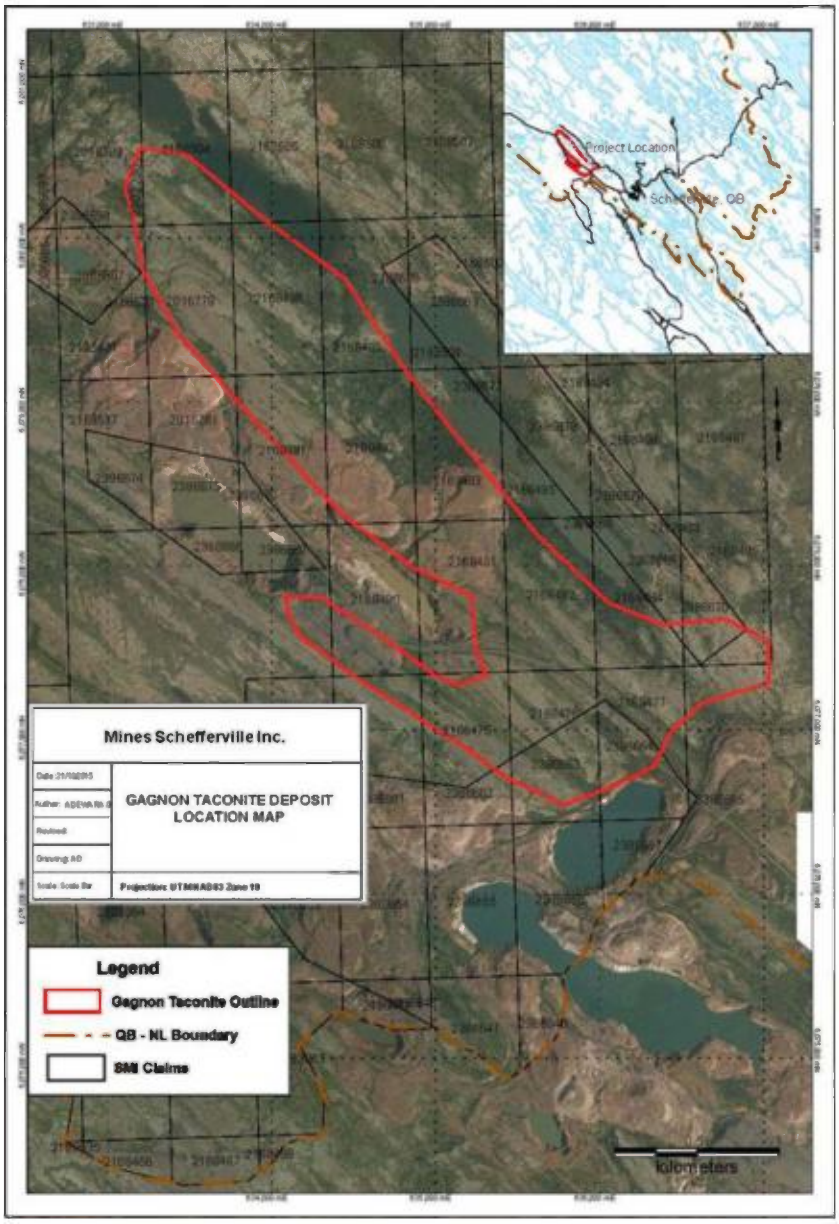


FIGURE 7 - GAGNON TACONITE DEPOSIT LOCATION MAP

10.5. FERRIMAN STOCKPILES

10.5.1. Historical Background

The Ferriman property is located 7 kilometres west of Schefferville. Mining operations by IOCC at the former Ferriman mine produced the Ferriman A, B, C and D (Figure 8) stockpiles which remain intact today. SMI collected and analysed samples from these stockpiles between 2011 and 2013. The pilot test work took place on claims 2223176, 2183175 (Ferriman C) and 2223065 (Ferrman D). The purpose of this program is to test and categorize these historical stockpiles into waste, low grade, treat rock or high silica type resources. A summary of all drilling activities on Ferriman stockpiles between 2011 and 2013 exploration seasons is in Table 9.

TABLE 9 DRILLING ACTIVITIES ON FERRIMAN STOCKPILES BETWEEN 2011 AND 2013

NAME	2011	2012		2013		
	TRENCHES	RC	TEST PIT	RC	DD	AUGER
FERRIMAN STOCKPILES	4 (44m)	37 (2380m)	165 (165m)	13 (504m)	2 (63m)	174 (226m)

10.5.2. Resource Estimate 2013

The current resource estimate for Ferriman C and Ferriman D compiled by SGS in March 2013 is 2,394,000 tonnes grading 49.34% iron in the Indicated category and 1,616,000 tonnes grading 49.30% iron in the Inferred category, using a cut-off grade of 45% iron (Table 10). The Ferriman stockpile is constrained by its shape and by regional topography.

TABLE 10 UPDATED RESOURCE ESTIMATE FOR FERRIMAN C AND D AS AT MARCH 27, 2013

ORE TYPE	CLASSIFICATION	TONNAGE	IRON	PHOSPHORUS	MANGANESE	SILICA (SiO2)	ALUMINA Al2O3
Ferriman (C&D) Stockpile	**Indicated**	2,394,000	49.34%	0.05%	1.21%	21.63%	1.01%
	Inferred	1,616,000	49.30%	0.05%	1.17%	22.06%	0.87%

There is an ongoing application for mining leases for Ferriman C and Ferriman D as at the time of writing this report.

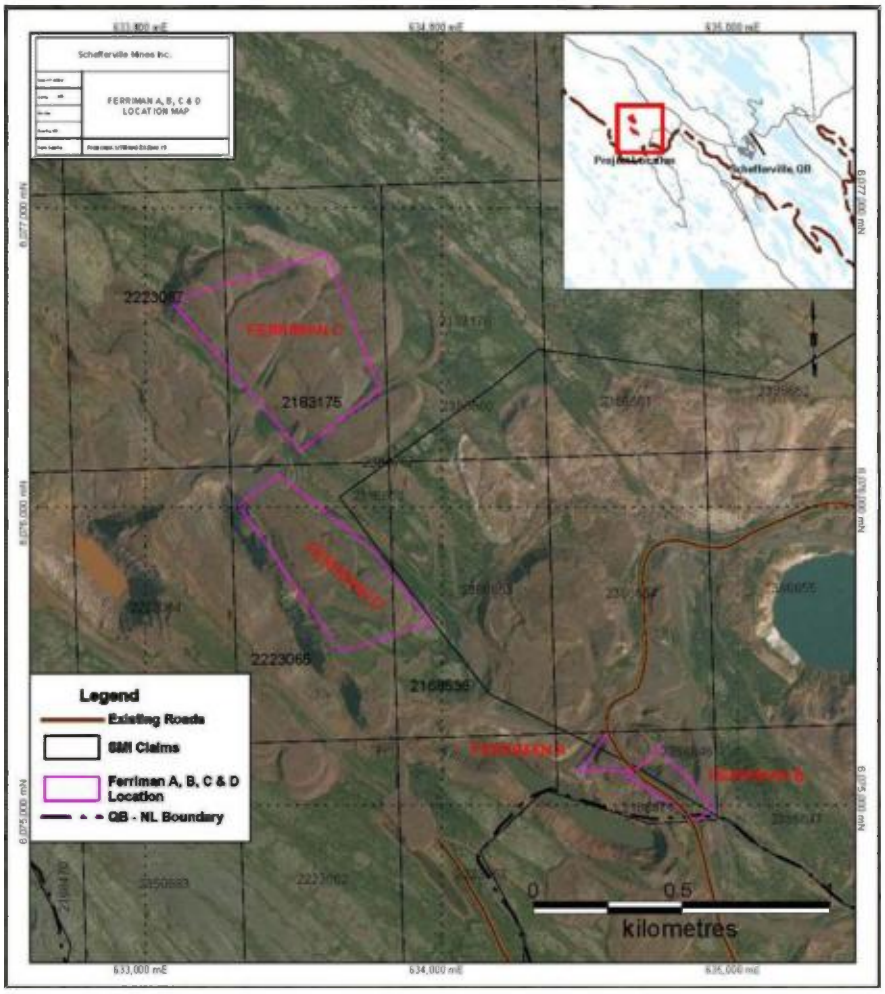


FIGURE 8 - LOCATION MAP OF FERRIMAN A, B, C AND D STOCKPILES

11. FIELD EXPLORATION PROGRAM (2015)

11.1. SURVEYING HISTORICAL EXPLORATION SITES

Relatively good access exists over much of the property by ATV due to the extensive trail network that was previously developed for exploration by trench and test pit excavations and RC drilling. Prior to completing the ground work portion of the 2015 Exploration Program, a documents search was conducted through the Company's files on technical data failed to locate any such location data for roads, trails and past sampling of subsurface geology. It was found that the Company was in need of a compilation map showing the location of historical work in real earth measurements, such as UTM, for the purposes of locating historical data (located in in-house records) and for the planning of future exploration programs.

Ground work was conducted to locate past trenching and test-pits with GPS coordinates in NAD27 and NAD83. A scheme was developed to distinguish access roads and trails from trenches and test pit locations and, most importantly, to tell the difference in high resolution aerial imagery between access roads from RC drill roads. RC drill roads were found to follow a consistent grid orientation whereas access trails were used to access RC drill grid roads and test-pit/trench work sites. Approximately 10% of the trench and test pit locations in the map product attached herewith were visited for ground confirmation by handheld GPS. Maps were produced that show the location of roads for general access, roads for RC drilling, test pits, and trenches. Reduced sized map images are shown in the figures below (full size in rear pocket). See:

Figure 10 – Surveyed Historical Test Pits, Trenches, and Access Roads on Kivivic
Figure 11 - Surveyed Historical Test Pits, Trenches and Access Roads on Sunny 2

11.2. HIGH RESOLUTION AERIAL IMAGING

A total of two (2) target areas were identified by the Company which required true-color sub-10 centimeter resolution aerial imagery for geological, topographic, hydrogeological and environmental interpretation. The survey was conducted under contract to Batson Consulting Services (BCS) to provide orthorectified geoTIFF images for interpretation. Imagery was collected by unmanned aerial vehicle (UAV) flight missions. Two (2) high resolution orthoimages were created, cropped to the claim boundaries, and provided to the Company for interpretation and map production. Reduced sized map images are shown in the figures below (full size in rear pocket). See figures:

Figure 12 - High Resolution Aerial Imagery for Sunny 1
Figure 13 - High Resolution Aerial Imagery for Sunny 2

The aerial survey was conducted with a UAV manufactured by SenseFly (see www.sensefly.com). The model of this aircraft is called eBee. It is controlled by eMotion software.

11.2.1. UAV Technical Specifications

Size	Wingspan: 96 cm
Wing area:	0.25 m^2
Weight	750 g Styrofoam Plane
	Load: several different cameras included in weight.
Battery	3-cell Lithium-Polymer, Capacity: 1800 mAh
Endurance	up to approx. 50 minutes
Propulsion	Electric brushless motor
Nominal static thrust:	670 gf
Flight speed	Normal cruise speed about: 27 knots - 31 knots
	The eBee is equipped with a ground sensor and reverse engine technology for landing
Launch	*hand launch/Auto pilot*
Landing	Landing speed is about 2 - 17 knots, straight in and circular landing option
Camera/Sensor control	Preprogramed and controlled by autopilot, no manual controller option
electronic intergrated	
Communication link	Remote control: (two communication links)
	MULTIPLEX – Modem
	Microhard N2420 backup manual control

11.2.2. UAV View and Drawing

FIGURE 9 - VIEW AND DRAWING OF UAV

11.2.3. Specifics of the Survey

An application was prepared and submitted by BCS to Transport Canada to in accordance with Civil Aviation Law for the purposes of obtaining an SFOC (Special Flight Operations Certificate) for the aerial survey described herein. An SFOC was granted and the survey was carried out in July, 2015.

The aerial surveying was carried out between July 23rd and July 28th, 2015 at an average elevation of 178 metres above the take-off reference elevation for each originating location. A total of four (4) flight missions were required to complete sufficient data collection over the area for the generation of orthomosaic geoTIFF images over the study areas.

Detailed orthomosaic image of the aerial extents coverage was generated by off-site data processing after the field portion of the survey was complete. The geoTIFF images were created in Postflight Terra 3D 3 software which were supplied to the Company for interpretation and map production.

11.2.4. Quality Control

A handheld Garmin GPSmap78 was used to confirm the location and elevation of the reference take-off location. In-field, post flight data processing was carried out to identify the centroid and attitude of each photo and check the location of the UAV relative to the intended location for the UAV. Once a successful check was completed, an initial processing algorithm was carried out to validate the integrity of each flight mission prior to returning from the field for in-office processing.

11.3. HIGH RESOLUTION TOPOGRAPHIC SURVEYS

Information collected from the high resolution aerial imagery survey was processed to generate topographic maps with five (5) meter interval contour lines. The resulting 3D topographic surface will be very useful for use in drill hole planning and volume calculations (such as cut and fill volume estimations) in the future. Reduced sized map images are shown in the figures below (full size in rear pocket). See figures:

Figure 14 - High Resolution Topography Survey for Kivivic
Figure 15 - High Resolution Topography Survey for Sunny 1
Figure 16 - High Resolution Topography Survey for Sunny 2

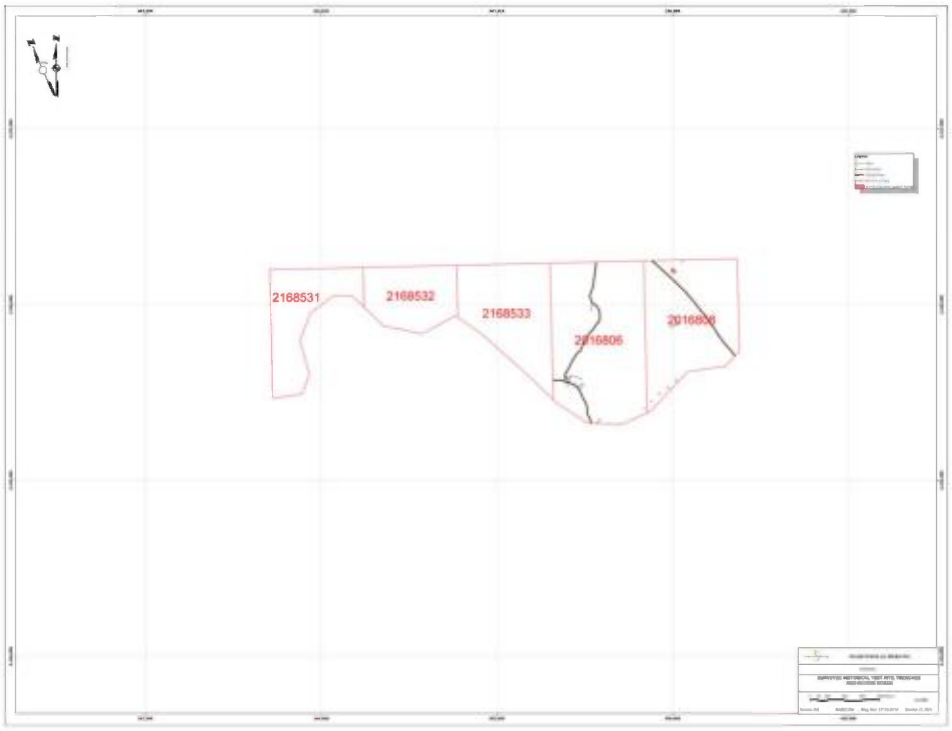


FIGURE 10 – SURVEYED HISTORICAL TEST PITS, TRENCHES, AND ACCESS ROADS ON KIVIVIC

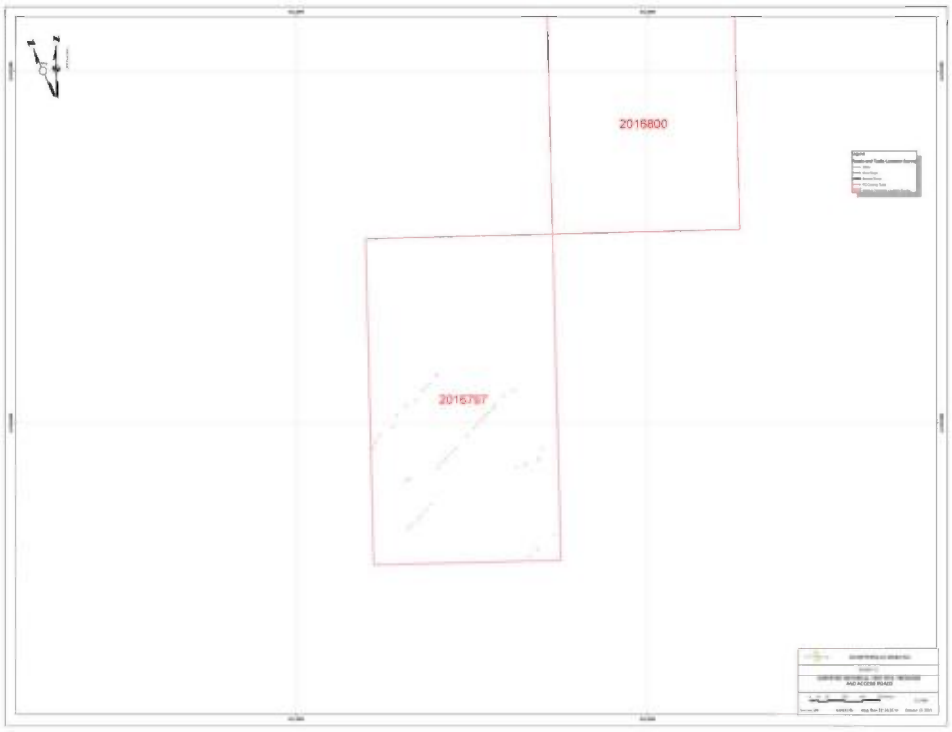


FIGURE 11 - SURVEYED HISTORICAL TEST PITS, TRENCHES AND ACCESS ROADS ON SUNNY 2

(Reduced-size thumbnail maps, full-scale maps in Rear Pocket)

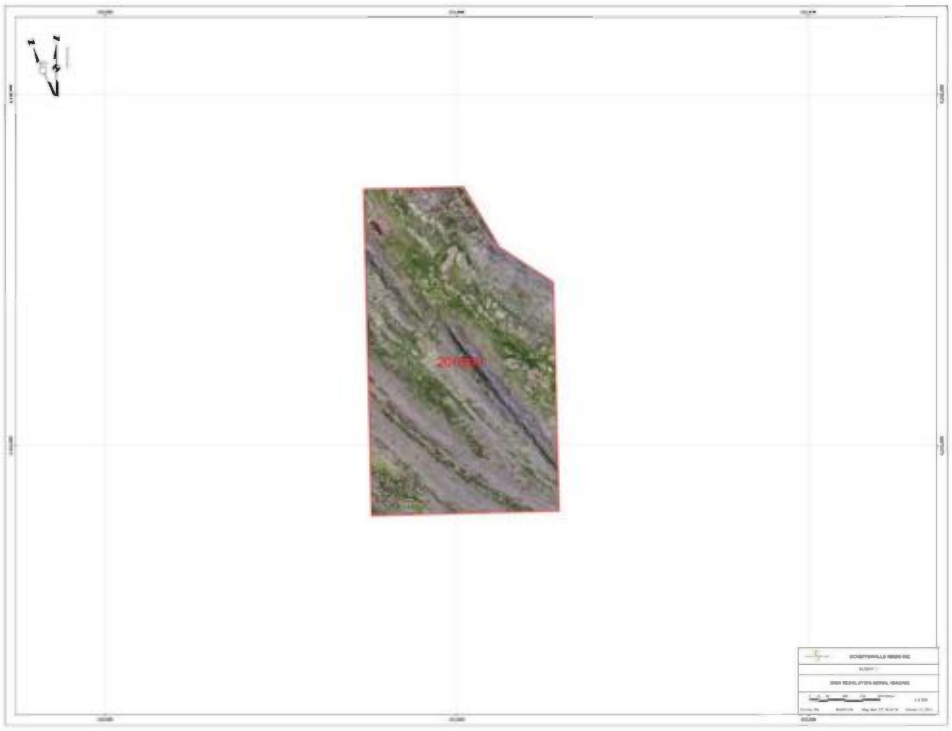


FIGURE 12 - HIGH RESOLUTION AERIAL IMAGERY FOR SUNNY 1

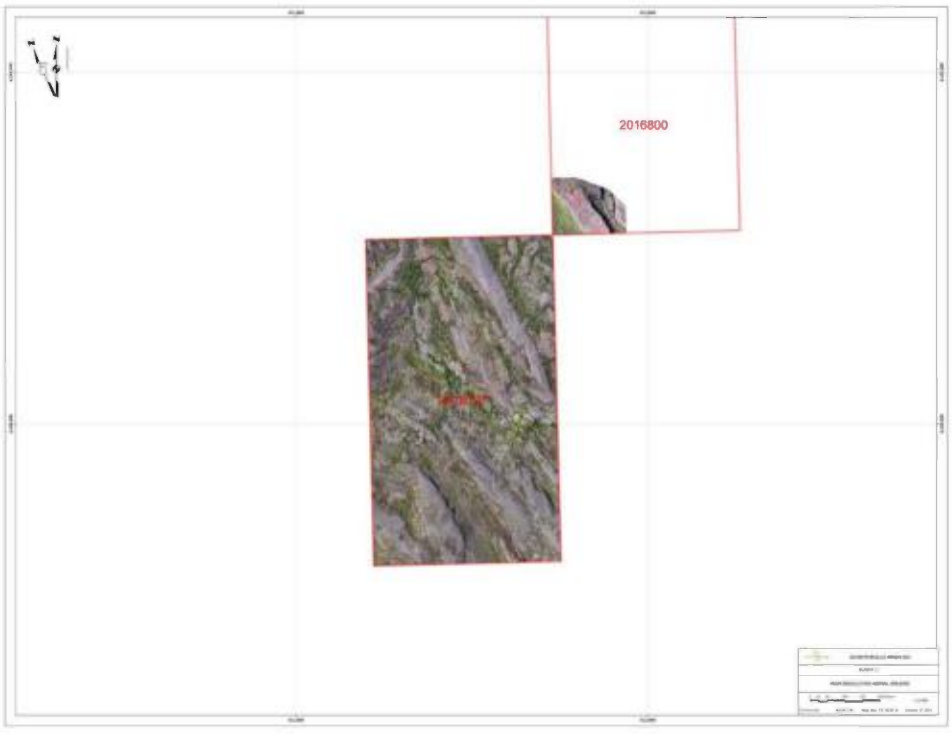


FIGURE 13 - HIGH RESOLUTION AERIAL IMAGERY FOR SUNNY 2

(Reduced-size thumbnail maps, full-scale maps in Rear Pocket)

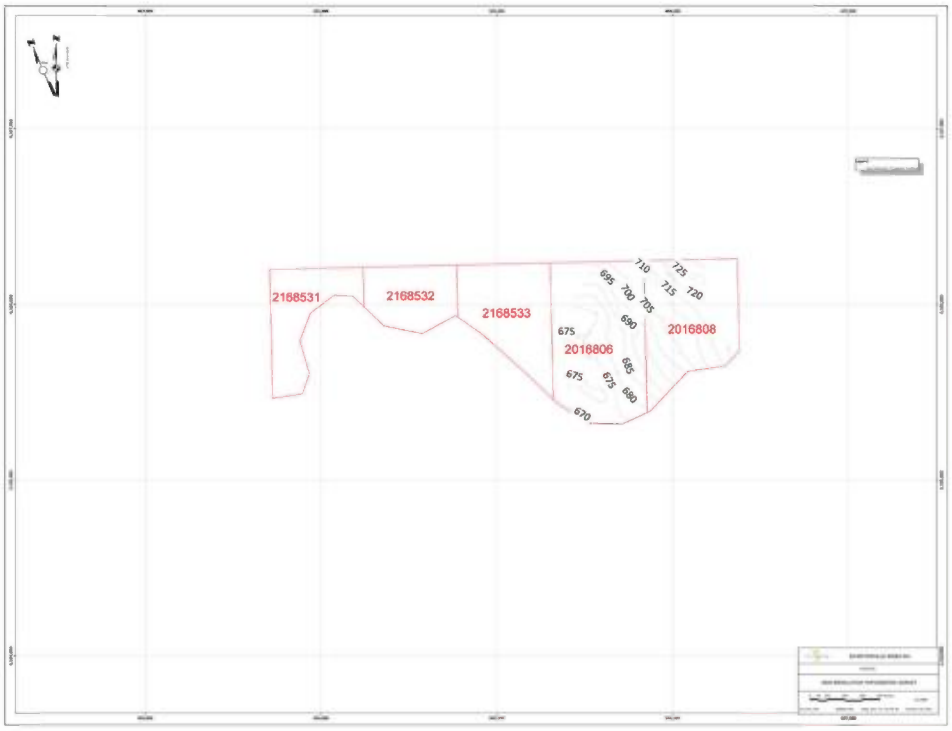


FIGURE 14 - HIGH RESOLUTION TOPOGRAPHY SURVEY FOR KIVIVIC

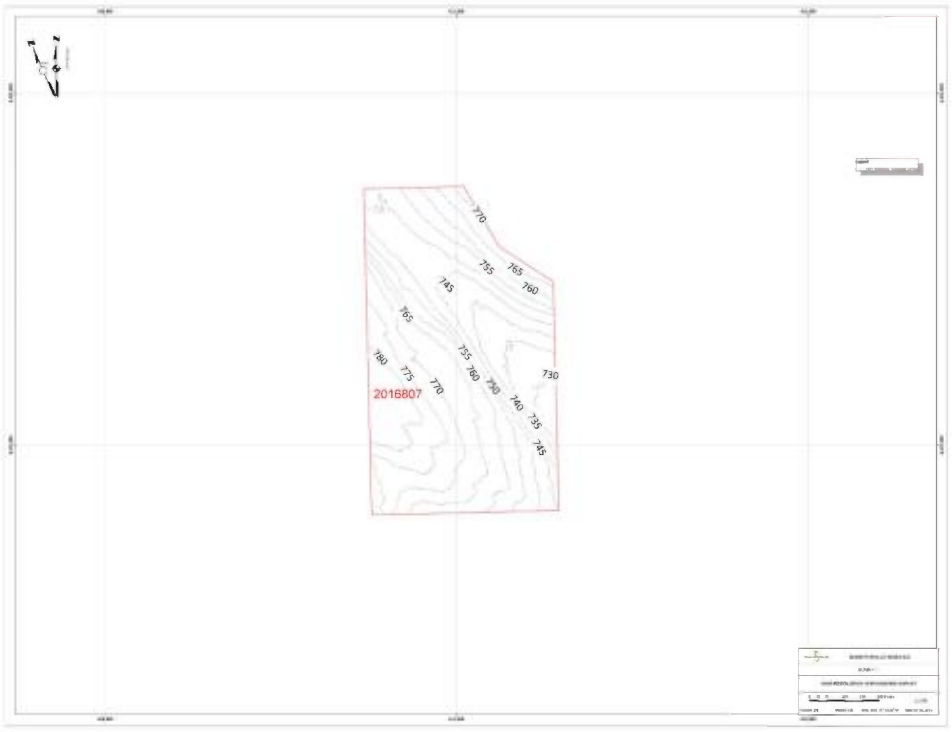


FIGURE 15 - HIGH RESOLUTION TOPOGRAPHY SURVEY FOR SUNNY 1

(Reduced-size thumbnail maps, full-scale maps in Rear Pocket)

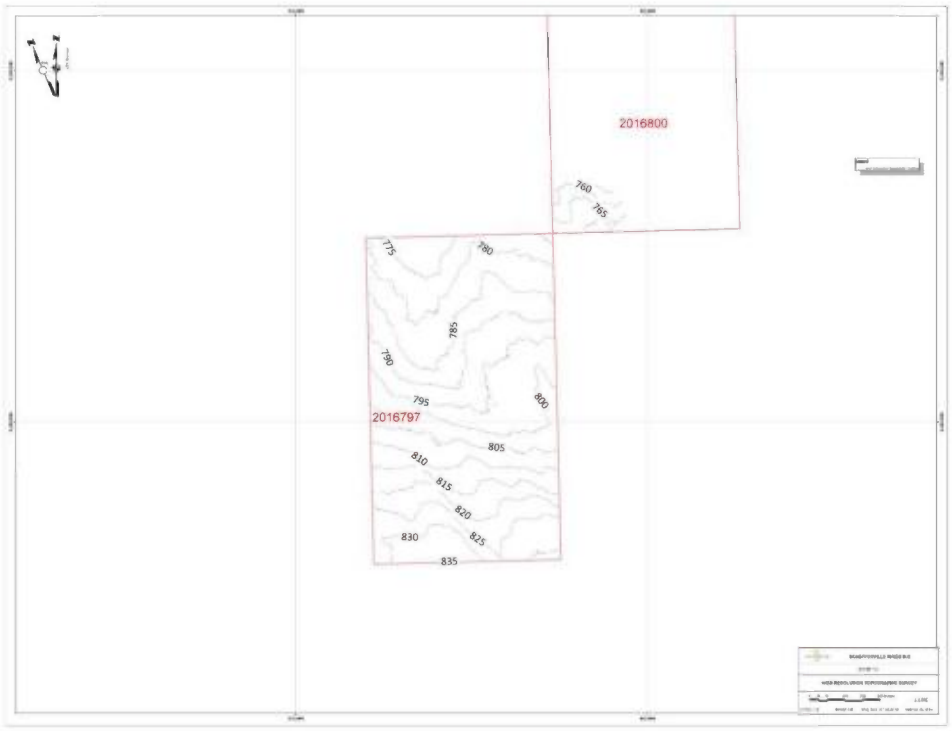


FIGURE 16 - HIGH RESOLUTION TOPOGRAPHY SURVEY FOR SUNNY 2

(Reduced-size thumbnail maps, full-scale maps in Rear Pocket)

11.4. ROCK SAMPLING AND ANALYSIS

A total of thirteen (13) hand specimens were collected in Quebec, from individual sample sites for mineral assemblage classification and local geology. Out of these thirteen (13) hand specimens, seven (7) rock samples were selected for whole rock x-ray diffraction (XRF) assay analysis (*Table 11*). Also, five (5) rock samples were selected for petrographic analysis (*Table 12*).

The outcrops and sample sites (*Table 13*) were selected based on accessibility and the availability of outcrop/subcrop in addition to their proximity to known geological units.

Sample sites were photographed and documented with information pertaining to the location, local setting, mode of occurrence and geology present at the location of the sample. Iron bearing oxides are prevalent throughout nearly every rock formation in the camp. Magnetite, hematite, goethite and limonite are most common in concentrations ranging from 20% to 99% of the rock forming minerals.

Slab samples of rock have been retained by the Company for future geological interpretation to assist with the naming of geological units.

TABLE 11- LIST OF ROCK SAMPLES SELECTED FOR XRF ASSAY (CODE 201-676) LITHIUM BORATE FUSION - SUMMATION OF OXIDES WITH XRF FINISH

PROV.	SAMPLE ID	TYPE	CLAIM NUMBER	CLAIM NAME	LOCATION X (NAD83 19U)	LOCATION Y (NAD83 19U)	GPS ELEVATION	SENT FOR XRF ROCK ASSAY? (Y/N)
Quebec	15BBLM008	ROCK	2016808	Kivivic	606012	6106193	740 m	YES
	15BBLM009	ROCK	2016808	Kivivic	606024	6106214	746 m	NO
	15BBLM010	ROCK	2016808	Kivivic	606059	6106242	754 m	YES
	15BBLM011	ROCK	2016808	Kivivic	605909	6106101	733 m	YES
	15BBLM023-A	ROCK	2016807	Sunny	611126	6101476	777 m	NO
	15BBLM023-B	ROCK	2016807	Sunny	611126	6101476	777 m	NO
	15BBLM023-C	ROCK	2016807	Sunny	611126	6101476	777 m	NO
	15BBLM024-A	ROCK	2016807	Sunny	611004	6101289	778 m	NO
	15BBLM024-B	ROCK	2016807	Sunny	611004	6101289	778 m	NO
	15BBLM025	ROCK	2016797	Sunny	611382	6103762	851 m	YES
	15BBLM026	ROCK	2016797	Sunny	611362	6103744	843 m	YES
	15BBLM027	ROCK	2016797	Sunny	611267	6103959	828 m	YES
	15BBLM042	ROCK	2016806	Kivivic	605716	6105772	703 m	YES

TABLE 12- SELECTION OF HAND SPECIMENS SENT FOR POLISHED THIN SECTION ANALYSIS

PROV.	SAMPLE ID	CLAIM NUMBER	CLAIM NAME	LOCATION X (NAD83 19U)	LOCATION Y (NAD83 19U)	GPS ELEVATION
Quebec	15BBLM008	2016808	Kivivic	606012	6106193	740 m
	15BBLM009	2016808	Kivivic	606024	6106214	746 m
	15BBLM024-B	2016807	Sunny	611004	6101289	778 m
	15BBLM027	2016797	Sunny	611267	6103959	828 m
	15BBLM042	2016806	Kivivic	605716	6105772	703 m

TABLE 13- LOCATION OF ROCK AND SOIL SPECIMENS

PROV.	SAMPLE ID	TYPE	CLAIM NUMBER	CLAIM NAME	LOCATION X (NAD83 19U)	LOCATION Y (NAD83 19U)	GPS ELEVATION
Quebec	15BBLM008	ROCK	2016808	Kivivic	606012	6106193	740 m
	15BBLM009	ROCK	2016808	Kivivic	606024	6106214	746 m
	15BBLM010	ROCK	2016808	Kivivic	606059	6106242	754 m
	15BBLM011	ROCK	2016808	Kivivic	605909	6106101	733 m
	15BBLM023-A	ROCK	2016807	Sunny	611126	6101476	777 m
	15BBLM023-B	ROCK	2016807	Sunny	611126	6101476	777 m
	15BBLM023-C	ROCK	2016807	Sunny	611126	6101476	777 m
	15BBLM024-A	ROCK	2016807	Sunny	611004	6101289	778 m
	15BBLM024-B	ROCK	2016807	Sunny	611004	6101289	778 m
	15BBLM025	ROCK	2016797	Sunny	611382	6103762	851 m
	15BBLM026	ROCK	2016797	Sunny	611362	6103744	843 m
	15BBLM027	ROCK	2016797	Sunny	611267	6103959	828 m
	15BBLM028	SOIL	2016797	Sunny	611267	6103959	828 m
	15BBLM042	ROCK	2016806	Kivivic	605716	6105772	703 m

Hand specimens were cut into slabs for photographing and petrographic samples were prepared and sent as polished thin sections to AGAT Laboratories in Calgary, Alberta. Petrographic analysis was conducted by a qualified consultant in Ajax, Ontario. Samples were photographed under plain, transmitted, and reflected light. In addition to composition and texture, an estimate of opaque oxide minerals and porosity was determined using computer software and in some cases where this was not possible, a measurement of SG was determined from the multiple measurement mass and volume technique. The most common rock type is a massive to planar fabric, medium-grained granular ironstone with reddish chert matrix between the iron-oxide particles. This information is summarized herein.

Rock samples were sent to AGAT Laboratories in Mississauga, Ontario for XRF assay (code 201-676) Lithium Borate Fusion - Summation of Oxides with XRF finish. These assay locations and results are plotted in indexed maps in the rear pocket of this report. Also, reduced-size images of the maps can be found in the following figures:

Figure 17 - Sample Location Map for Iron (% Fe) in Rocks for Kivivic
Figure 18 - Sample Location Map for Iron (% Fe) in Rocks for Sunny 2

The assay certificates for these results are in appended to this report in Appendix II. A summary of the results is available Appendix III.

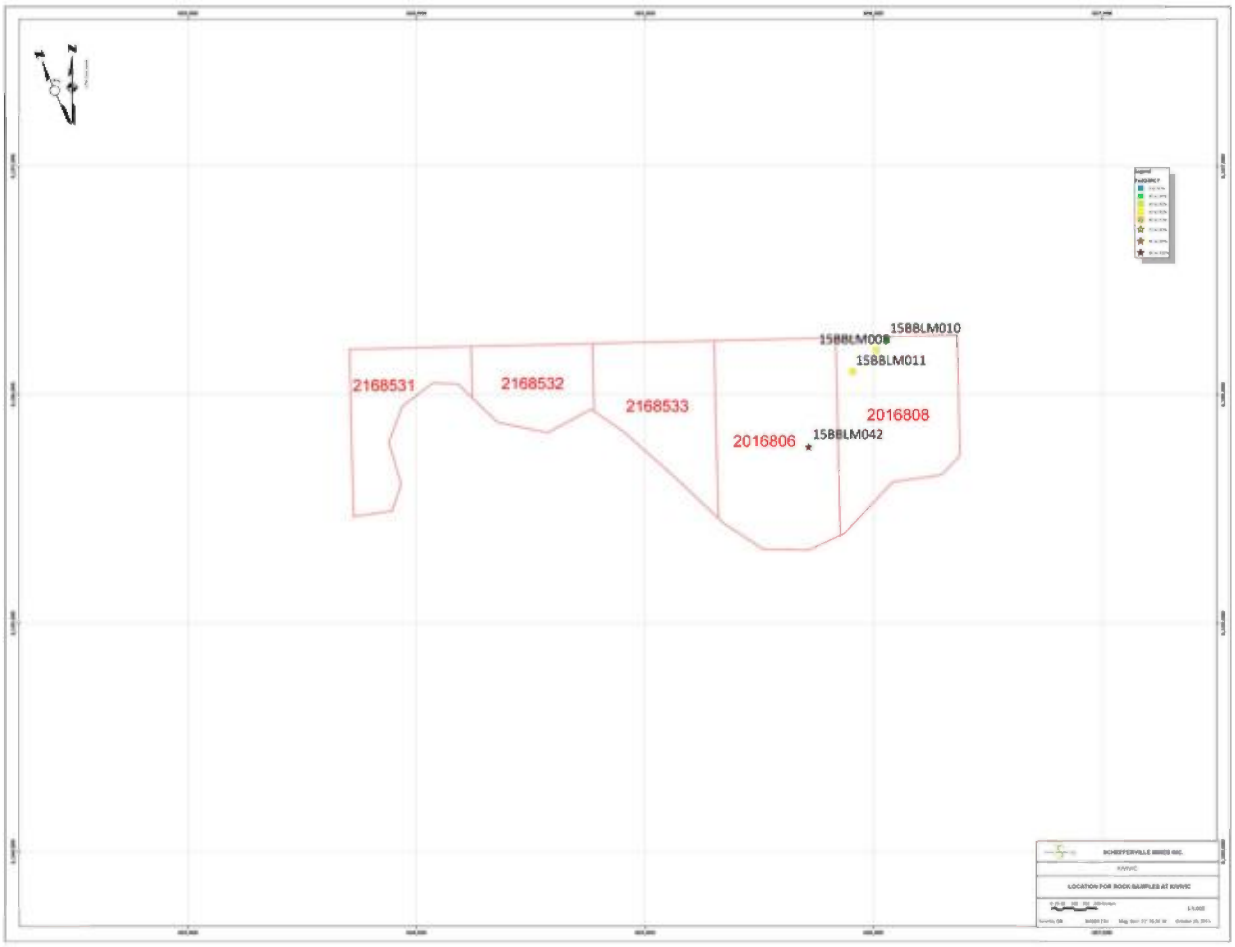


FIGURE 17 - SAMPLE LOCATION MAP FOR IRON (% FE) IN ROCKS FOR KIVIVIC

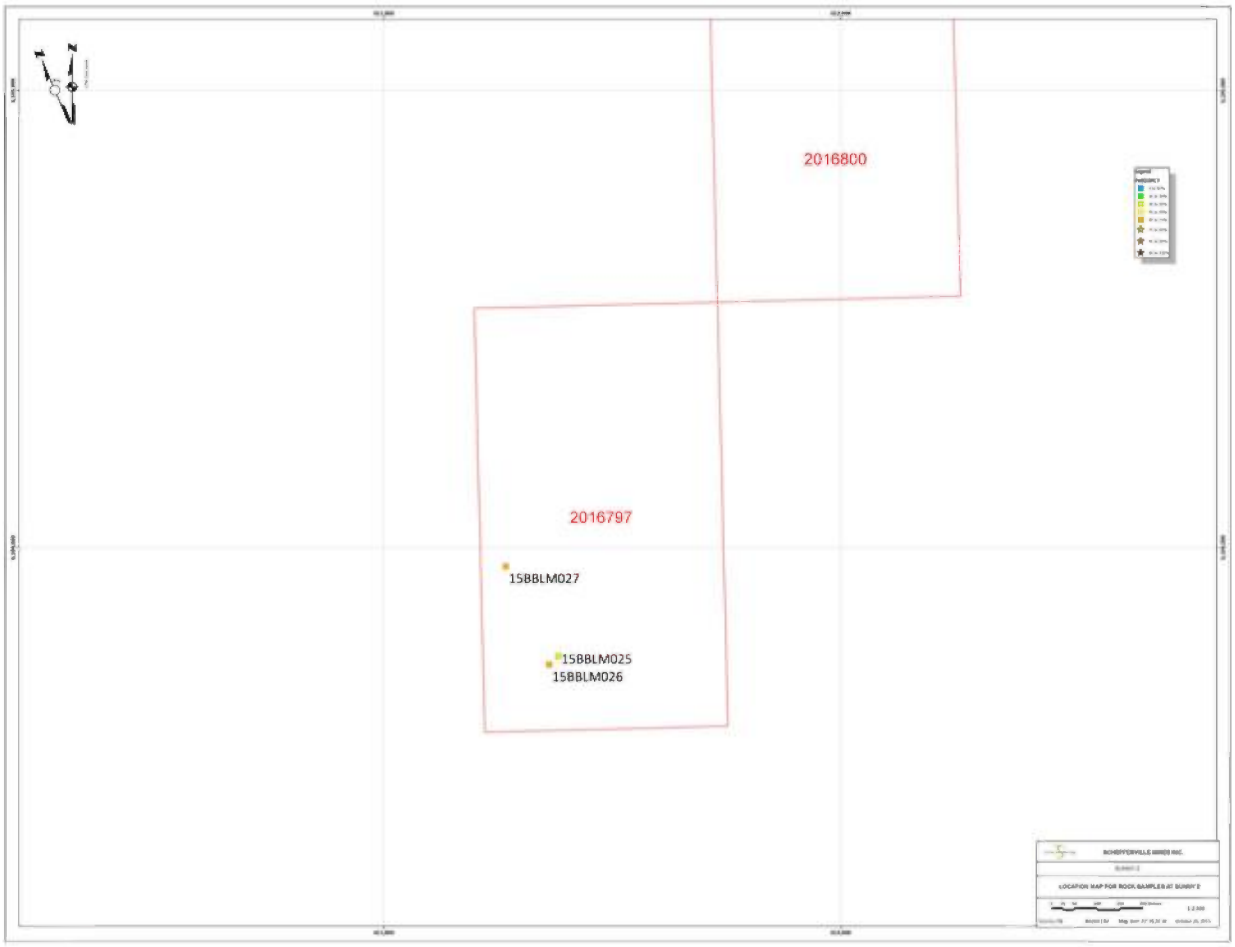


FIGURE 18 - SAMPLE LOCATION MAP FOR IRON (% FE) IN ROCKS FOR SUNNY 2

(Reduced-size thumbnail maps, full-scale maps in Rear Pocket)

Table 14 shows the series of magnetic susceptibility readings taken on the rock samples.

TABLE 14- MAGNETIC SUSCEPTIBILITY READINGS

PROV.	SAMPLE ID	AVERAGE (x 10^{-3})	MEASUREMENT 1	MEASUREMENT 2	MEASUREMENT 3
Quebec	15BBLM008	**38.0**	43.22	30.32	40.4
	15BBLM009	676.5	764.3	765.6	499.5
	15BBLM010	**80.1**	84.2	67.37	88.78
	15BBLM011	618.1	589	579.8	685.6
	15BBLM023-A	**29.6**	28.76	29.38	30.69
	15BBLM023-B	489.4	513.0	477.3	477.8
	15BBLM023-C	**0.0**	0.026	0.021	0.023
	15BBLM024-A	**14.9**	13.92	16.08	14.82
	15BBLM024-B	**4.1**	4.077	3.990	4.263
	15BBLM025	690.1	822.1	669.5	578.6
	15BBLM026	**40.0**	48.91	41.63	29.48
	15BBLM027	580.1	535.9	728.3	476
	15BBLM028	soil characterization - not tested for magnetic susceptibility			
	15BBLM042	**92.8**	94.3	84.73	99.43

11.5. SOIL SAMPLE COLLECTION AND ANALYSIS

Quaternary cover in the Schefferville Menihek area is characterized by varying depths of glacial deposits deposited on top of bedrock which is in-turn overlain by a very thin and poorly developed soil profile.

Those areas with limited to no outcrop availability were sampled for soils over several lines of for the purposes of iron exploration. These samples comprise what should be viewed as an orientation survey to assess ability to define DSO targets for exploration and resource development. The location and results of these sample collected are summarized in map and text within this report.

Forty seven (47) conventional soil samples were collected in Quebec (*Table 15*). The B-soil horizon was targeted at depth ranging from 15 to 30 cm from the surface. Each sample was described with respect to its location and the nature of the sample material. The soil samples were analyzed at AGAT Laboratories in Mississauga, Ontario using a four acid digest (code 201-071) - Metals Package, ICP/ICP-MS finish analytical package.

The Assay certificates for the soils analysis are presented in Appendix II. The soil sampling results are summarized in Appendix IV. In addition to those conventional samples collected and analyzed, five (5) soils were collected at the site of historical test pits to determine the iron content of soils located nearer to bedrock surface (compared to those conventional soils collected in the top 30 cm of the soil profile). Map are provided in the rear pocket of this report showing the results of the soil sampling part of the exploration program. Also, see reduced-size figures:

Figure 19 - Sample Location Map for Iron (% Fe) in Soils at Kivivic
Figure 20 - Sample Location Map for Iron (% Fe) in Soils at Sunny 1
Figure 21 – Sample Location Map for Iron (% Fe) in Soils at Sunny 2

TABLE 15 - SOIL SAMPLE LOCATION AND DESCRIPTION INFORMATION FOR (201-071) 4-ACID DIGEST - METALS PACKAGE, ICP/ICP-MS FINISH

SAMPLE ID	CLAIM NUMBER	CLAIM NAME	LOCATION X (NAD83 19U)	LOCATION Y (NAD83 19U)	GPS ELEVATION (M)	HORIZON	FIELD COMMENTS
14035	2016808	Kivivic	606116	6106122	735	B	Line D - brown soil
14036	2016808	Kivivic	606086	6106077	734	B	Line D - brown soil
14037	2016808	Kivivic	606046	6106058	731	B	Line D - brown soil
14038	2016808	Kivivic	606000	6106024	727	B	Line D - (Drumlin) red brown sandy soil
14039	2016808	Kivivic	605959	6105997	719	B	Line D - red brown sandy soil
14040	2016808	Kivivic	605959	6105997	719	B	Line D - QA QC Duplicate of 14039
14041	2016808	Kivivic	605921	6105965	721	B	Line D (Drumlin) brown soil
14042	2016808	Kivivic	605892	6105927	716	B	Line D - brown soil
14043	2016808	Kivivic	605849	6105892	711	B	Line D - Poorly developd brown soil
14044	2016806	Kivivic	605816	6105861	705	B	Line D - micaceous brown orange sandy soil with alluvial layered deposits
14045	2016806	Kivivic	605775	6105824	704	B	Line D - (Drumlin) brown gravelly soil
14046	2016806	Kivivic	605739	6105793	696	B	Line D - light brown sandy soil
14047	2016806	Kivivic	605697	6105756	694	B	Line D - orange brown sandy soil
14048	2016806	Kivivic	605662	6105734	692	B	Line D - brown sandy soil
14053	2016806	Kivivic	605438	6105531	687	B	Line D - Surface Disturbance near camp brown soil
14054	2016806	Kivivic	605385	6105510	686	B	Line D - orange brown soil
14055	2016806	Kivivic	605348	6105484	685	B	Line D - brown soil
14056	2016806	Kivivic	605348	6105484	684	B	Line D - brown soil
14069	2016808	Kivivic	605963	6105735	711	B	Line C - brown soil
14070	2016808	Kivivic	606002	6105763	714	B	Line C - orange sandy soil
14071	2016808	Kivivic	606042	6105796	717	B	Line C - dark brown soil
14072	2016808	Kivivic	606078	6105826	719	B	Line C - orange brown soil
14073	2016808	Kivivic	606119	6105855	723	B	Line C - (Drumlin) brown soil
15BBLM028	2016797	Sunny No.2	611267	6103959	828	Test Pit	Soil characterization sample collected at test pit site from excavated material near bedrock
E5129324	2016807	Sunny	611059	6101394	757	B (+/-till)	Base of hill (in draw) with boulders and orangy brown coloured poorly developed soil and till
E5129325	2016807	Sunny	611048	6101370	757	B	Base of hill (in draw) orangy brown coloured poorly developed soil with minor clay
E5129326	2016807	Sunny	611036	6101349	758	B (+/-till)	Orangy brown coloured poorly developed soil and till
E5129327	2016807	Sunny	611024	6101329	762	B (+/-till)	Orangy brown coloured poorly developed soil and till
E5418807	2016807	Sunny	611096	6101455	764	B (+/-till)	Orangy brown coloured poorly developed soil and till
E5418808	2016807	Sunny	611084	6101435	759	B (+/-till)	Orangy brown coloured poorly developed soil and till
E5418809	2016807	Sunny	611069	6101413	758	B (+/-till)	Base of hill (in draw) with boulders and orangy brown coloured poorly developed soil and till
14049	2016806	Kivivic	605619	6105701	690	B	Line D - orange brown soil
14050	2016806	Kivivic	605585	6105672	687	B	Line D - brown soil
14059	2016806	Kivivic	605578	6105419	688	B	Line C - orange brown soil
14060	2016806	Kivivic	605616	6105450	688	B	Line C - red brown soil

SAMPLE ID	CLAIM NUMBER	CLAIM NAME	LOCATION X (NAD83 19U)	LOCATION Y (NAD83 19U)	GPS ELEVATION (M)	HORIZON	FIELD COMMENTS
14061	2016806	Kivivic	605666	6105483	688	B	Line C - poorly developed brown soil at edge of dry lake bed
14062	2016806	Kivivic	605699	6105508	692	B	Line C - brown sandy soil
14063	2016806	Kivivic	605725	6105547	694	B	Line C - brown sandy soil
14064	2016806	Kivivic	605769	6105576	696	B	Line C - micaceous brown sandy soil on bedrock
14065	2016806	Kivivic	605807	6105603	699	B	Line C - micaceous gravelly brown sandy soil on bedrock
14066	2016806	Kivivic	605845	6105637	703	B	Line C - brown sandy soil
14067	2016808	Kivivic	605889	6105662	705	B	Line C - brown sandy soil
14068	2016808	Kivivic	605923	6105700	708	B	Line C - red brown soil
14051	2016808	Kivivic	605533	6105637	683	B	Line D - red brown soil
14052	2016808	Kivivic	605504	6105605	683	B	Line D - thin brown coloured lacustrine soils
14057	2016808	Kivivic	605503	6105353	685	B	Line C - brown soil
14058	2016808	Kivivic	605541	6105382	688	B	Line C - orange brown soil

11.6. SURVEY OF HISTORICAL TEST-PITTING, TRENCHING, AND DRILLING

Mapping was carried out to locate and record the location of past exploration test pitting, trenching and RC drilling work in UTM coordinates, orientation and dimension. The location of overgrown trails and the purpose of the access was interpreted on the ground for the purposes of determining the areas which have been explored by some qualitative means versus those areas which appear unexplored. All roads were surveyed using handheld GPS and Brunton geo-compass bearing with a non-magnetic survey head and tripod which were digitized into a map layer was created in ArcMap 10.3 as SHP files. See:

Figure 10 – Surveyed Historical Test Pits, Trenches, and Access Roads on Kivivic

Several test pits and trenches were sampled during the exploration program which were previously excavated by IOCC for which the Company does not have the lithogeochemical results. At these sample sites, the excavated material was interpreted by proximal to bedrock. It is a widely accepted exploration technique in this geological setting to assess the character of bedrock iron mineralization by digging trenches and test pits for the purposes of obtaining assay geochemistry near the bedrock source. Samples were assayed and have been described in map and text form in the body of this report.

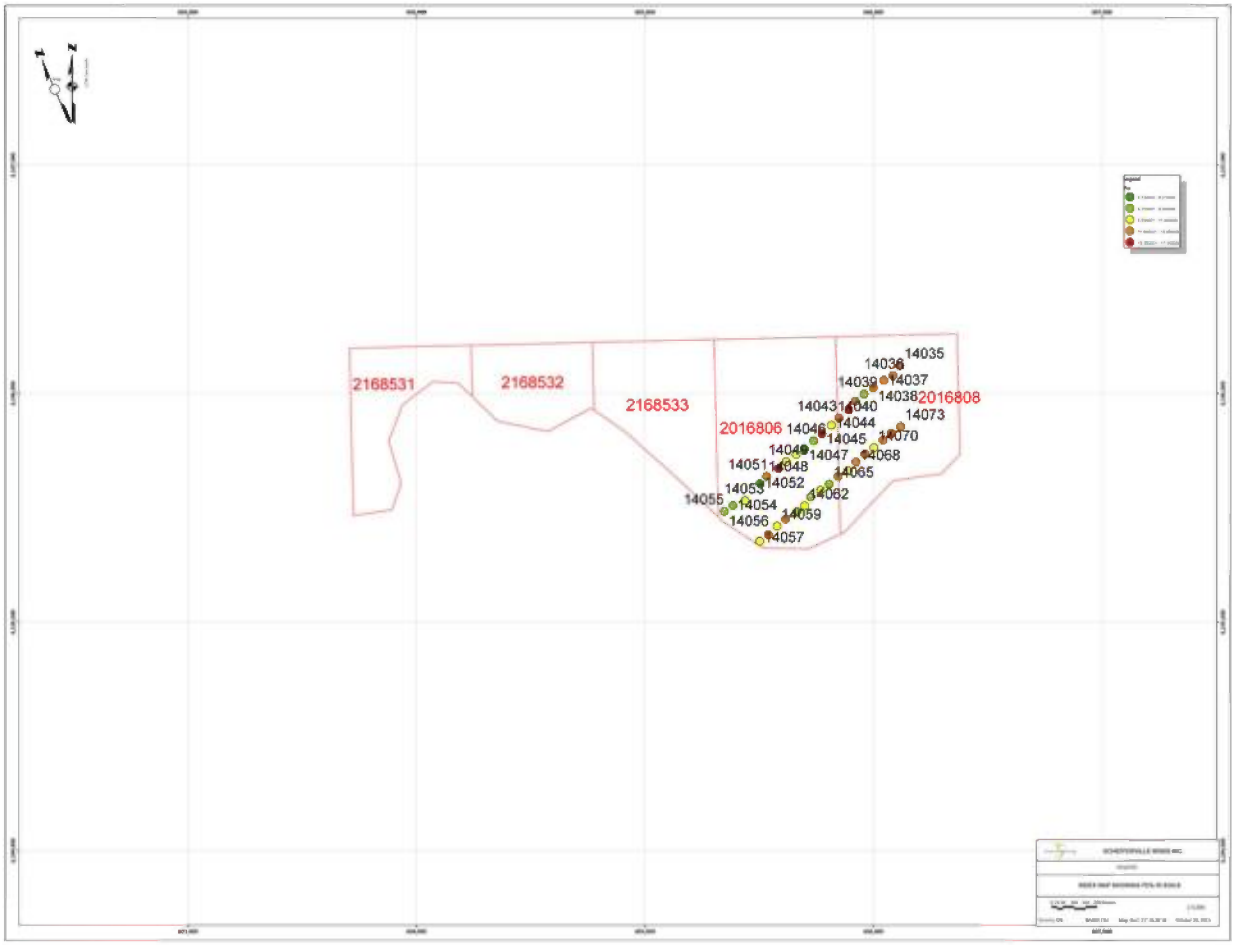


FIGURE 19 - SAMPLE LOCATION MAP FOR IRON (% FE) IN SOILS AT KIVIVIC

(Reduced-size thumbnail maps, full-scale maps in Rear Pocket)

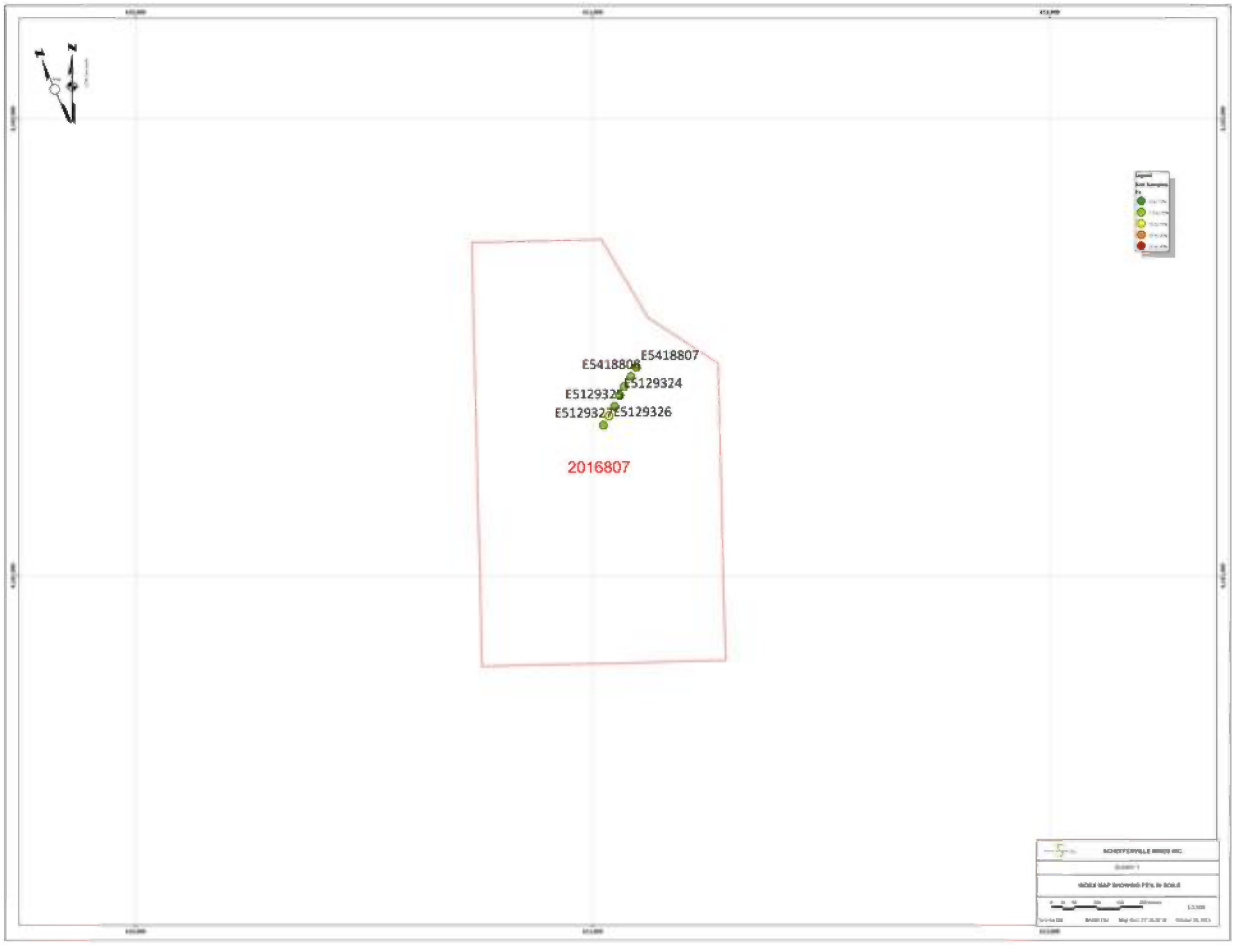


FIGURE 20 - SAMPLE LOCATION MAP FOR IRON (% FE) IN SOILS AT SUNNY 1

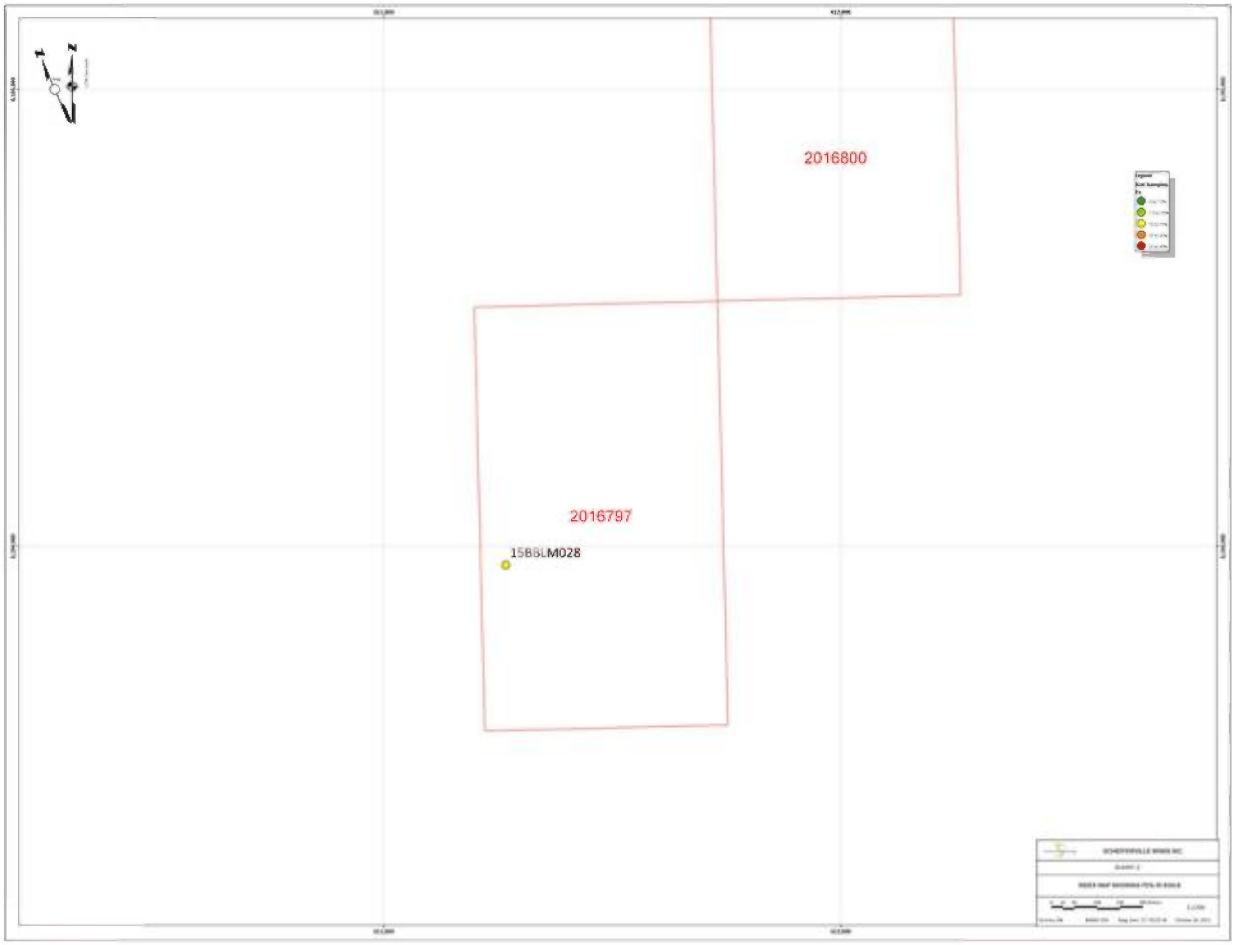


FIGURE 21 – SAMPLE LOCATION MAP FOR IRON (% FE) IN SOILS AT SUNNY 2

(Reduced-size thumbnail maps, full-scale maps in Rear Pocket)

11.7. SURVEY OF FERRIMAN A, B, C AND D STOCKPILES

Between October 14, 2015 and October 16, 2015, Corriveau J.L. & Associés Inc. was contracted by SMI to carry out of survey of Ferriman A&B (2168471, 2386646), Ferriman C (2223067 & 2183175) and Ferriman D (2168536 & 2223065) stockpiles (Figure 8).

11.7.1. Scope of Work

In order to obtain mining leases for Ferriman C and Ferriman D, Corriveau J.L. & Associés Inc. was mandated to do the following:

1 Map Ferriman A, B, C and D stockpiles
2 Produce:
   a. Survey report and minutes report
   b. Certificate of land surveyor,
   c. Approbation of the administrators of the territory
   d. DXF of the surveyed boundaries
   e. File of SCOPQ survey coordinates
   f. Cadastral map and files

11.7.2. Equipment used

1 GNSS system in real time

2 2 receivers with double GPS GLONASS frequency

3 1 Trimble receiver model R8 as base and 1 Trimble receiver R10 as mobile receiver

11.7.3. Methodology

Ferriman coordinates were calculated in the field, verified and tied-in to the previous survey and to the geodesic point 492110. Land marking of the mining lease with a "terminus mark" and metal post at each corner and within more or less 250 metres apart. Survey of topography and roads within and around the territory was also conducted.

11.7.4. Quality Assurance and Quality Control

Every land mark was re-read at least 3 times and read a second time at least one hour later to obtain different satellite constellations and then be able to verify the precision of the survey.

11.7.5. Projection Used

SCoPQ Network 6 NAD83

A reduced-scale map image of the cadastral map shows the details, the size and shape of Ferriman A, Ferriman B and Ferriman D (Figure 22) and Ferriman C (Figure 23).

PHOTO 4 – TRIMBLE RECEIVER

PHOTO 5 – METAL POST LANDMARK

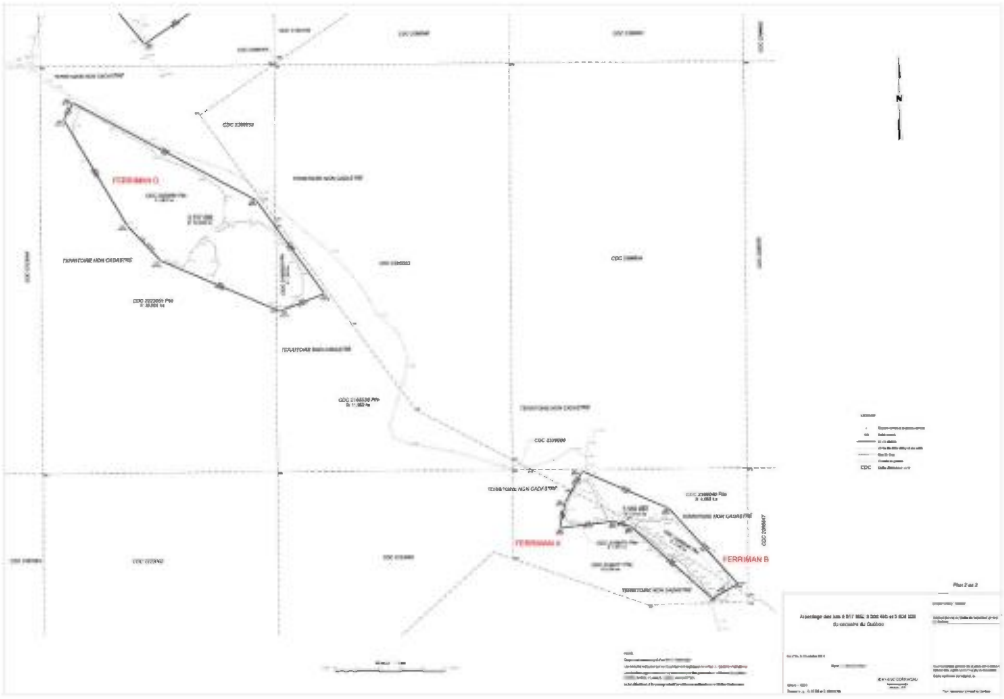


FIGURE 22 CADASTRAL MAP SHOWING FERRIMAN A&B AND FERRIMAN D

FIGURE 23 CADASTRAL MAP SHOWING FERRIMAN C

(Reduced-size thumbnail maps, full-scale maps in Rear Pocket)

12. INTERPRETATION AND DISCUSSION

12.1. RESULTS INTERPRETATION

12.1.1. Iron in Rock Samples

Based on the assay results summary in Appendix III, scatter plots were used to compare the relationships of iron and silica content, iron and manganese content, and iron and phosphorus content in the rock samples collected and assayed.

1. Figure 24 is a scatter plot of iron versus silica showing two (2) populations:

    a. Population 1 ("POP1") represents one (1) sample having high iron content (65.53% Fe) and low silica content (4.55% SiO_2). This represents an encouraging sample that warrant future exploration work; and,

    b. Population 2 ("POP2") represents higher silica, and reduced iron content samples with less than 50% iron.

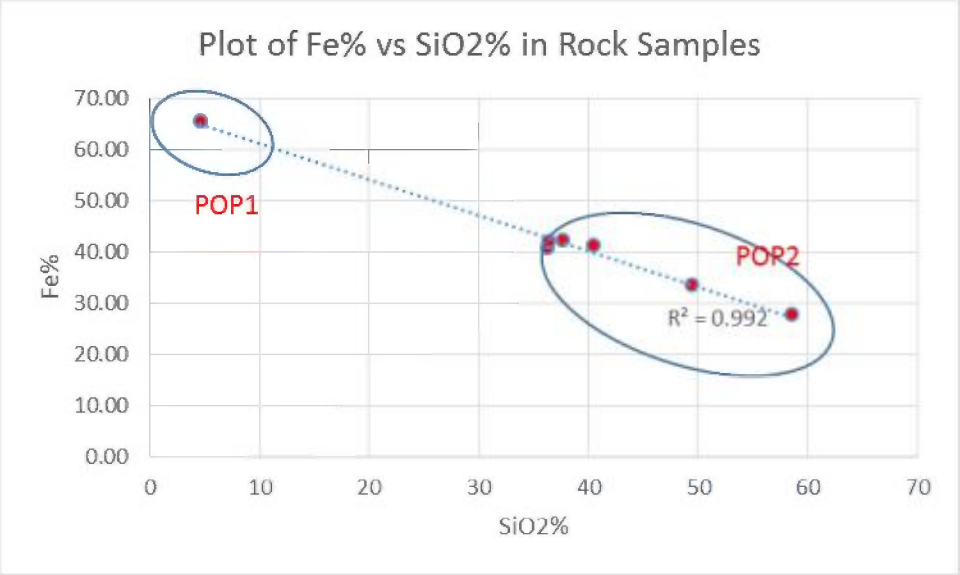


FIGURE 24 – PLOT OF IRON (% FE) VERSUS SILICA (% SIO2) IN ROCK SAMPLES

2. Figure 25 is a scatter plot of iron versus manganese showing two (2) distinct populations:

    a. Population 1 ("POP1") represents rock samples with 0.01% to 0.17% manganese which is encouraging for further exploration. Lower (uneconomic) concentrations of manganese result in penalty charges when considering the in-situ value of DSO deposits.

    b. Population 2 ("POP2") represents three (3) rock samples with elevated concentration of manganese between 0.26 and 0.36%.

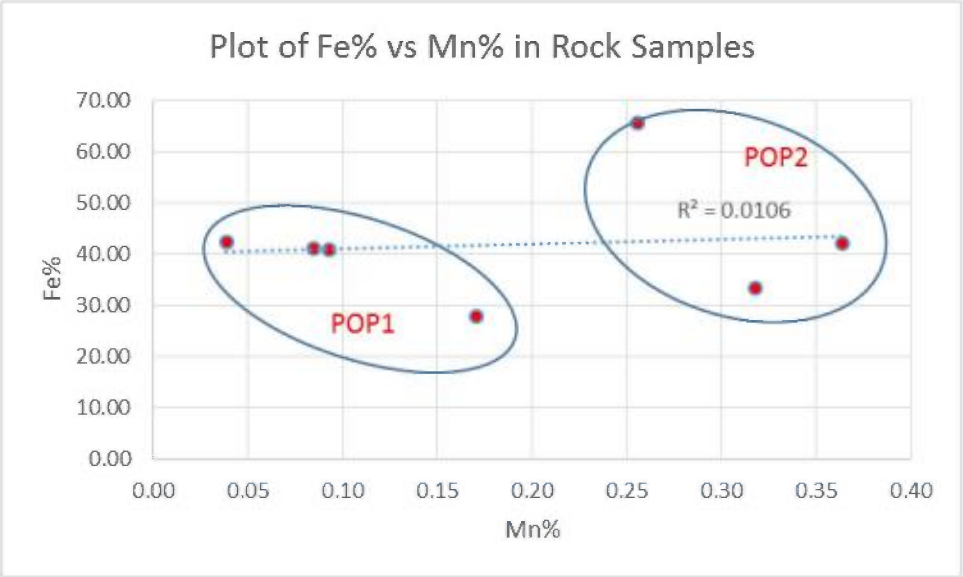


FIGURE 25 – PLOT OF IRON (% FE) VERSUS MANGANESE (% MN) IN ROCK SAMPLES

3. Figure 26 is a scatter plot of iron versus phosphorus showing two (2) distinct populations:

    a. Population 1 ("POP1") represents six (6) samples containing less than 0.01% phosphorus which is encouraging for further exploration. Low concentrations of phosphorus in iron deposits are desirable due to penalty charges resulting from the presence of phosphorus in concentrate;

    b. Population 2 ("POP2") represents only one (1) sample containing 0.07% phosphorus which represents a transitional zone.

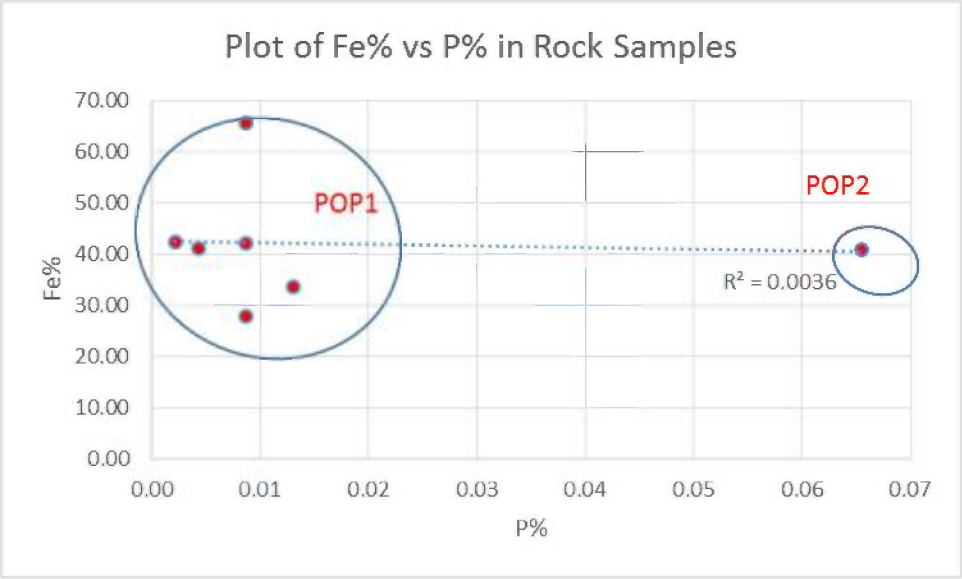


FIGURE 26 – PLOT OF IRON (% FE) VERSUS PHOSPHORUS (% P) IN ROCK SAMPLES

12.1.2. Iron in Soil Samples

Soil samples were collected from the B horizon and sent for 4 Acid Digest - Metals Package, ICP/ICP-MS finish at AGAT Laboratories (Mississauga, Ontario).

The results of the chemical analysis of the soil samples collected are encouraging. Sixty eight percent (68%) of the samples have concentrations of iron in soil that range between 10.1% and 17.3%.

While conventional soil sampling of the B-Horizon has not been extensively used by SMI in previous exploration programs. A summary of the results in Appendix IV and the plotted sample locations (see Figure 19, Figure 20 and Figure 21) are still encouraging and can be helpful when planning future exploration programs. Figure 27 is a scatter plot showing the distribution of iron content in the soil samples collected.

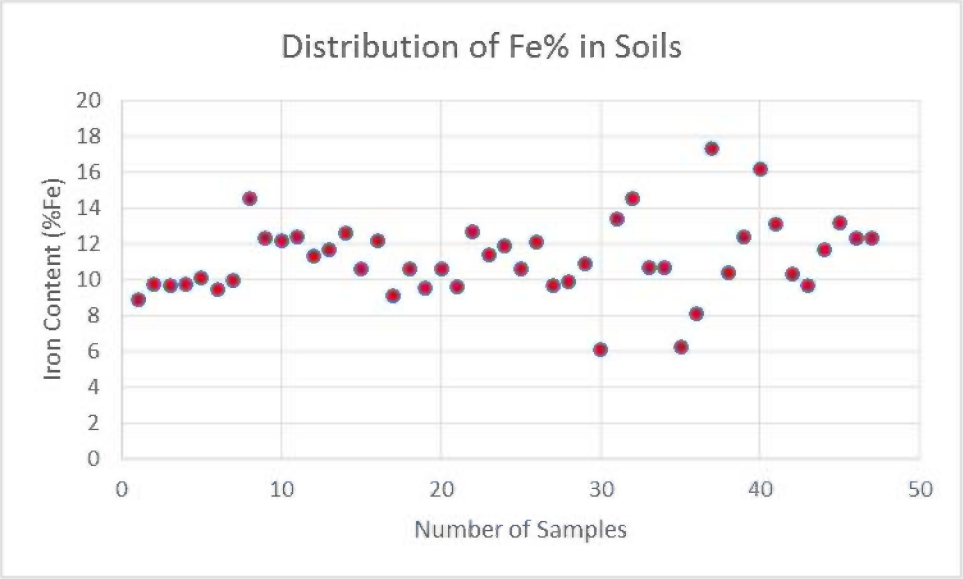


FIGURE 27 – PLOT SHOWING DISTRIBUTION OF IRON (% FE) IN SOILS

12.2. DISCUSSION

The information collected during the Company's 2015 exploration program is summarized in the body of this report. Further interpretation and modelling of the results obtained will be the subject of separate reports.

Interpretation of 2015 exploration results and subsequent geological modelling will be used to formulate future exploration programs. The compilation of historical data related to IOCC work in the Schefferville area will continue and all historical data available will be entered into the Company's project database.

The representative cut hand specimens retained by the Company are very useful as 'training' data for future mapping programs when determining the desired geological map units. This collection of rocks represents the stratigraphy that can be expected in any future field program on the subject claims. Similarly, the results of the analytical chemistry and petrographic analysis will also be useful in future field programs for the characterization of the rocks encountered in the field. This level of detail was not previously available to the Company and therefore its contribution to the understanding of the lithostratigraphy is significant.

13. RECOMMENDATIONS

The author recommends further exploration work to be carried out. The scope of work includes the following:

- Extensive trenching and test pitting on the Kivivic and Sunny 1, 2 & 3 claims located immediately adjacent to the newly developed Kivivic iron DSO deposits by Tata Steel Minerals Canada Limited ("TSMC") due to recent road development and the availability of skilled workers and equipment in the vicinity

- Claims located to the east of the active mine development at Kivivic by TSMC which remain unexplored should be the subject of, at the very least, a reconnaissance mapping and sampling program

- High resolution aerial image surveying is recommended for the remaining un-surveyed portions of the property for the purposes of assessing the geology for mineral deposits

Although no work was carried out on both Malcolm deposit and Gagnon Taconite deposit during 2015 exploration season, they both remain paramount to SMI future exploration work.

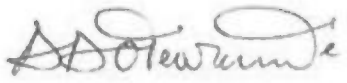
- Malcolm remains a critical component of the Houston project and to date have only been drilled with reverse circulation (RC) drilling. An infill diamond drilling program is warranted in order to define the geological limits and possible extension of the deposit along strike as well as down dip.
- The Gagnon Taconite deposit remains an attractive project because of its proximity to the town of Schefferville, Silver Yards plant, existing roads, power as well as rail access to port and pellet plant facilities in Sept-Îles. Former IOCC mined out pits surrounding the Gagnon Taconite such as the existing Ruth and French Mine pits may also serve as easily accessible sites for waste rock and tailings.

  Moreover, field observations of outcrops on the Gagnon Taconite deposit show that they exhibit a similar characteristics with the Elizabeth Taconite deposit for which the Company has promising results after the first season of drilling that resulted in a NI 43-101 resource estimate of 620 million tonnes of Taconite deposit. Therefore subsequent exploration work should include a widely-spaced diamond drilling on the Gagnon Taconite.

The high resolution images generated provides a better understanding of the terrain, hydrogeology, and vegetal cover which also have value for environmental assessment purposes. All this information would be useful to the Company for planning future exploration activities.

The mapping, sampling and trenching programs recommended herein are viewed as cost effective methods of exploration when compared to diamond drilling for the purposes of discovering and delineating zones of iron mineralization on the Company's claims. A key objective would be to identify diamond and reverse circulation drill hole targets

Respectfully submitted,



Adewara Odewande, Ph.D., P.Geo.

OGQ Special Authorization #: 355

October 30, 2015

Ordre des géologues du Québec

Monsieur Adewara Adesoji Odewande
Labrador Iron Mines Ltd
220 Bay Street, Suite 700
Toronto ON M5J 2W4

October 15, 2015

Objet : Autorisation spéciale
Re: Special Authorization

Monsieur,

Je suis heureux de vous décerner l'autorisation spéciale **numéro 335**, conformément à l'article 42.4 du Code des professions.
Vous êtes ainsi autorisé à exercer la géologie pour le compte de *Labrador Iron Mines Ltd.*, selon les informations présentées dans votre demande d'autorisation, c'est-à-dire pour rédiger des rapports dans le cadre des activités de la compagnie dans la région de Schefferville.

Cette autorisation est valide du 15 octobre 2015 au 31 décembre 2015.

Veuillez prendre note que vous devez suivre les directives sur l'authentification des documents que vous pouvez consulter dans les Publications sur notre portail Internet.
Nous restons à votre disposition et vous prions d'agréer, l'expression de nos meilleures salutations.

Mr,

*I am pleased to issue a Special Authorization **number 335**, in your name in accordance with section 42.4 of the Professional Code.*
You are thus entitled to practice geology on behalf of Labrador Iron Mines Ltd., according to the information presented in your request for authorization, that is, for reporting in the context of the Company's activities in Schefferville area.

This Special Authorization is valid from October 15, 2015 to December 31, 2015.

Note that you are expected to abide by the directives for document authentification which can be viewed on our website under Publications.
Please contact us if you need more information.

Yours sincerely,

Robert Wares, géo., M.Sc.
Président

1529333

REÇU
07 DEC. 2015
DIRECTION GÉNÉRALE DE LA GESTION DU MILIEU MINIER

14. REFERENCES

Dagenais, J.E. (1966) Geological Cross Sections of 42 Iron Ore Showings Held by IOCC, Knob Lake Area. Iron Ore Company of Canada, Internal Document.

Dagenais, J. E (1976): Redmond No. 5 Deposit, Labrador Mining and Exploration Co. Ltd., Mining License Block 101; Labrador Mining and Exploration Co. Ltd. Report. Nfld. MDD File – 23J (115).

Dupere, M. (2014): Technical Report: Schefferville Area Phase 1 DSO Iron Projects Resource Update, Western Labrador – NE Quebec, Canada by SGS Canada Inc.

Gross, G A. (1968): Geology of iron deposits in Canada; v. 3, Iron ranges of the Labrador geosyncline. Economic Geology Report No.22 - Geological Survey of Canada, 179 pp. Publisher: Geological Survey of Canada, Ottawa, ON, Canada (CAN).

IOCC (1983): Schefferville Division, Iron Ore Company of Canada, January 1983, Direct Shipping Reserve Estimate, Natural Analysis. IOCC internal Document.

IOCC (1983): Schefferville Division, Iron Ore Company of Canada, January 1983, Manganiferous Reserve Estimate, Natural Analysis. IOCC internal Document.

Jean M. Hubert (2012) Report of Interpretation of a Ground Gravity Survey on Labrador Iron Mines Properties Schefferville Area Quebec & and Newfoundland and Labrador NTS: 23J/10, 23J/14 and 23J/15.

Kroon, P.E. (2010): Labrador Iron Mines Limited, Revised Technical Report On an Iron Ore Project in Western Labrador. SGS Canada Limited, March 18, 2010.

Langton, J (2009): Work Assessment Report, The Ruth Lake Property, Western Labrador. The Province of Newfoundland & Labrador. (NTS 23-J/14). Labrador Iron Mines Limited. MRB & Associates, Val-d'Or QC.

Liverman, D.G.E. and Vatcher, H. (1992): Quaternary Geology of the Schefferville area (Labrador parts of 23J/10 and 23J/15). In Current Research. Newfoundland Department of Mines and Energy, Geological Survey Branch, 92-1, pages 27-38.

McKillen, T. N. (2010): Resource Estimate and Technical report On the Houston Iron Ore Deposit, Western Labrador. May18, 2010. Labrador Iron Mines Limited, 220 Bay Street, Toronto Ontario.

Neal, H. E. (2000): Iron deposits of the Labrador Trough. Exploration and Mining Geology, vol.9, no.2, pp.113-121. Publisher: Canadian Institute of Mining, Metallurgy and Petroleum, Montreal, PQ, Canada.

Odewande A., Vatcher, H., and Schrama T. (2014): Schefferville Project, Report on 2013 Exploration Program. Labrador Iron Mines Limited. Toronto, Ontario.

Odewande A. Howard Vatcher, Tara Schrama, Eldon Roul, Shawn Duquet, Jim Orth and Erick Chavez (2014) Report on 2011 Denault & Star Creek Exploration Program on Former Hollinger North Shore Exploration BEP Mining leases 3C & 3D.

Odewande A. Howard Vatcher, Tara Schrama, Eldon Roul, Shawn Duquet, Jim Orth and Erick Chavez (2014) Report on 2012 Burnt Creek & Knox Exploration Program on Former Exploration Hollinger Cote-North BEP Mining leases 3B & 3J.

Orth, J., (1982a): Block 101, Drilling of Redmond 5 Deposit; Labrador Mining and Exploration Co. Ltd. Report. Nfld. MDD File – Lab. (600)

Retty J. A. (1938): IOCC internal report.

Scott, Fenton (2004): Report on Resources. Sawyer Lake Deposit, Quebec. Internal Report - Fonteneau Resources Limited. Don Mills, Ontario, Canada.

Usher, J. L. (1953): The geology of Astray Lake area, Labrador. Iron Ore Company of Canada. Unpublished report.

Vatcher, H., Schrama T., Chavez E. (2008): Report on Summer-Fall 2008 Exploration Program, (Astray Lake, Houston, Howse, James, Kivivic, Knob Lake No.1, Redmond, Sawyer Lake, Timmins-Fleming and Wishart Properties). Labrador Iron Mines Limited. Toronto Ontario.

Vatcher, H., Schrama T., Roul E. and Chavez E. (2009): Schefferville Project, Report on 2009 Exploration Program. Labrador Iron Mines Limited. Toronto, Ontario.

Vatcher, H., Schrama T., Roul E. and Chavez E. (2010): Schefferville Project, Report on 2010 Exploration Program. Labrador Iron Mines Limited. Toronto, Ontario.

Vatcher, H., Schrama T., Roul E. and Chavez E. (2011): Schefferville Project, Report on 2011 Exploration Program. Labrador Iron Mines Limited. Toronto, Ontario.

Vatcher, H., Schrama T., Odewande A. and Duquet S. (2012): Schefferville Project, Report on 2011 Exploration Program. Labrador Iron Mines Limited. Toronto, Ontario.

Wardle, R J (1979): Geology of the eastern margin of the Labrador Trough. Report - Government of Newfoundland and Labrador, Department of Mines and Energy, Mineral Development Division, no.78-9, 21 pp. Publisher: Government of Newfoundland and Labrador, Department of Mines and Energy, Mineral Development Division, St. John's, NF, Canada

White (1989): IOCC internal report.

APPENDIX I - HAND SPECIMENS, OUTCROP DESCRIPTIONS AND PETROGRAPHIC ANALYSIS

TABLE OF CONTENTS

(APPENDIX I)

1. 15BBLM008

1.1. FIELD ROCK NAME

HEMATITE-GOETHITE-LIMONITE BEARING BANDED CHERT

1.2. FIELD DESCRIPTION

Sample collected of red-coloured hematite oxidized and specular hematite-bearing, banded Chert. Siliceous lower grade (iron deficient) horizons present at centimetre-scale. Red streak on streak plate. Excavated mound measures 20 x 10 x 5m in size.

1.3. LOCATION

GPS Waypoint: NAD83 19U 606012 6106193 740m

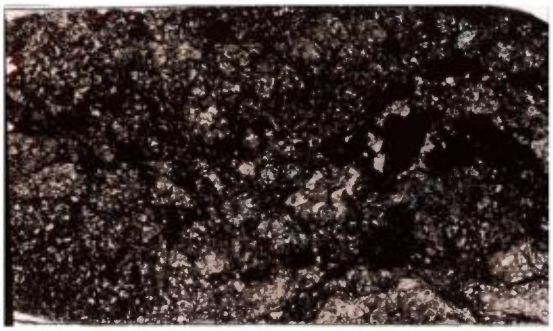
NAD27 19U 605964 6105970 740m

Outcrop-scale photograph of 15BBLM008

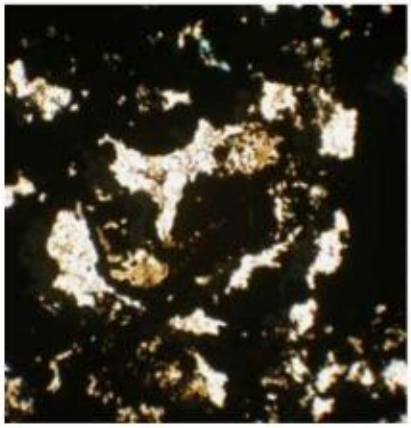
1.4. PETROGRAPHIC ANALYSIS

Stub 2x, 4.5x2.8mm

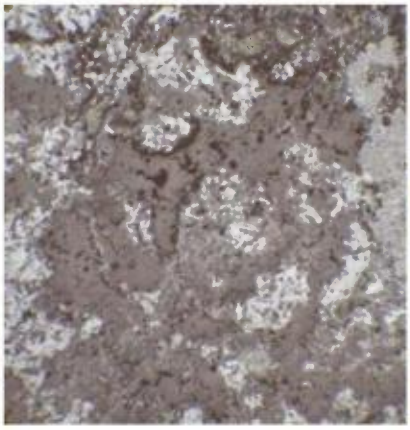
Transmitted light scan, 2x, 3.5x2.1 mm



Transmitted ppl, 5x



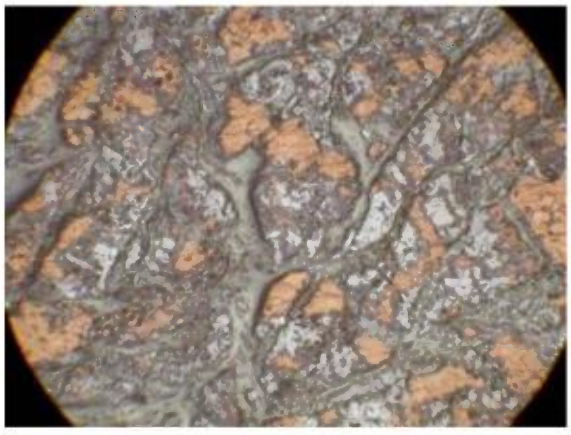
Reflected ppl, 5x



Both transmitted and reflected ppl, 5x

This rock is partly oxidized [to goethite {FeO(OH)} - limonite {$FeO(OH)\bullet nH_2O$}], and brecciated or very poorly sorted granular material. Cherty quartz occurs between opaque iron oxide grains. Hematite (lighter grey) remains in mostly darker goethite, which possibly contains some magnetite also.

Both transmitted and reflected ppl, 5x



Both transmitted and reflected ppl, 5x

Anastomosing veinlets of soft iron hydroxide [possibly limonite or bernalite $Fe(OH)_3$] cut hematite (above left). These are in turn cut by goethite veinlets, orange in transmitted light (above right). This sample contains 63.3% opaque oxides (dominantly goethite) and only 0.1% porosity 0.1%.

15BBLM008 Hand Specimen

15BBLM008 Cut Specimen

2. 15BBLM009

2.1. FIELD ROCK NAME

CRYSTALLINE MAGNETITE-BEARING FINE GRAINED SILICICLASTIC

2.2. FIELD DESCRIPTION

Coarse crystalline magnetite (grey streak on streak plate) in large rock subcropping/cored ridge. Possible boulder roches moutonee. Not clear of protolith in outcrop. Lithology is not fissile or slatey like other subcroppings in the areas. General appearance is intrusive in nature with re-crystallized mineral texture of magnetite and possible hematite with local traces of goethite (?) present and local manganese staining.

2.3. LOCATION

GPS Waypoint: NAD83 19U 606024 6106214 746m

NAD27 19U 605976 6105992 746m

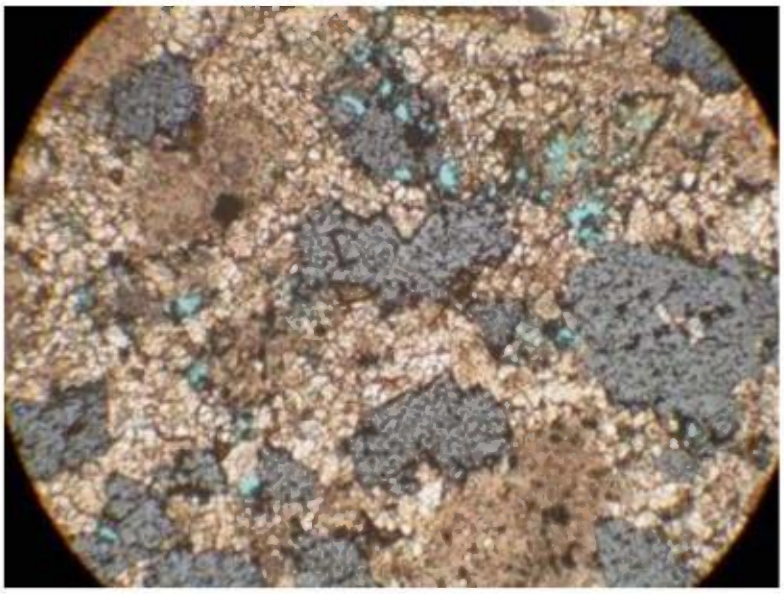
Outcrop-scale photograph of 15BBLM009

2.4. PETROGRAPHIC ANALYSIS

Stub 2x, 4.5x2.8mm

Transmitted light scan, 2x, 3.5x2.3 mm

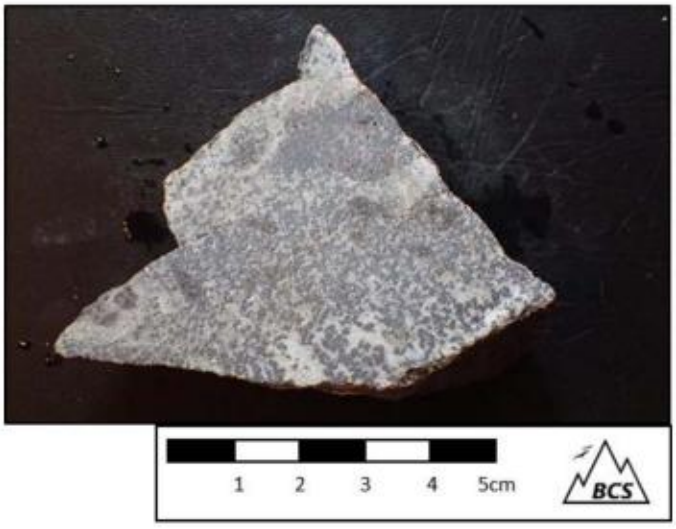
Both transmitted and reflected plane-polarized light (ppl), 5x lens



This rock consists of angular sand-sized grains of quartz (beige) with irregular blobs of angular magnetite grains (medium grey), and some intergranular porosity (light blue). This sample contains 32% opaque oxides and 6% porosity.

15BBLM009 Hand Specimen

15BBLM009 Cut Specimen



3. 15BBLM010

3.1. FIELD ROCK NAME

TACONITE

3.2. FIELD DESCRIPTION

Quaternary overburden and poorly developed soil profile at sample site. Small test pit re-sampling for assay confirmation of grade. Dominantly magnetite-bearing, possible Taconite bedrock host (?).

3.3. LOCATION

GPS Waypoint: NAD83 19U 606059 6106242 754m

NAD27 19U 606012 6106019 754m

Outcrop-scale photograph of 15BBLM010

15BBLM010 Hand Specimen

15BBLM010 Cut Specimen

4. 15BBLM011

4.1. FIELD ROCK NAME

BANDED MAGNETITE-JASPEROIDAL CHERT

4.2. FIELD DESCRIPTION

Layered/banded magnetite and jasperoidal chert hand specimen collected from taconite lithology occurrences at roches moutonee. Overburden too thick for outcrop exposure. There are many dried up small ponds beds in the area that have little to no soil developed over poorly sorted sub-rounded boulder fields.

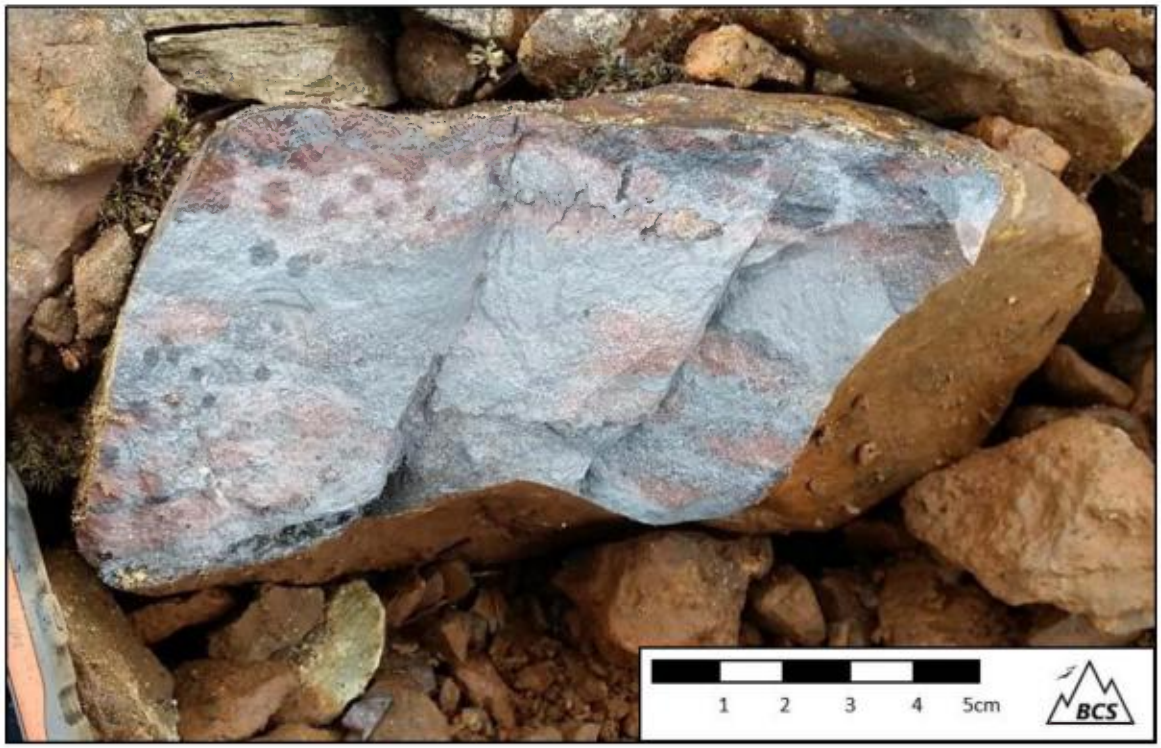
4.3. LOCATION

GPS Waypoint: NAD83 19U 605909 6106101 733m

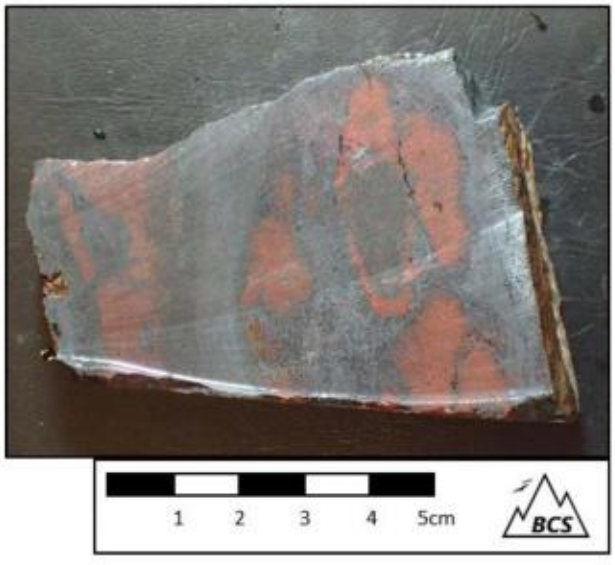
NAD27 19U 605861 6105878 733m

Outcrop-scale photograph of 15BBLM011

15BBLM011 Hand Specimen



15BBLM011 Cut Specimen



5. 15BBLM023-A

5.1. FIELD ROCK NAME

BANDED MAGNETITE-HEMATITE BEARING JASPEROIDAL CHERT FROM MUDSTONE

5.2. FIELD DESCRIPTION

This claim contains very few outcrops and very little soil on the hillsides the highlands. Rubbly rounded to subangular very strongly magnetic rocks/float primarily cherty ironstone units with lesser parts dolomitic units are present. Ridges are oriented 110°. Two 'benches' showing shallowly eastward dipping stratigraphy are present in the centre of the claim on the east facing side of a major incised valley that transects the claim. Three hand specimens were collected at this site which are representative of the lithologies present.

This 15BBLM023-A specimen is a magnetite-hematite bearing jasperoidal metapelite (approximately 20% of the total lithologies present) which occurs as subangular boulders on hillside.

5.3. LOCATION

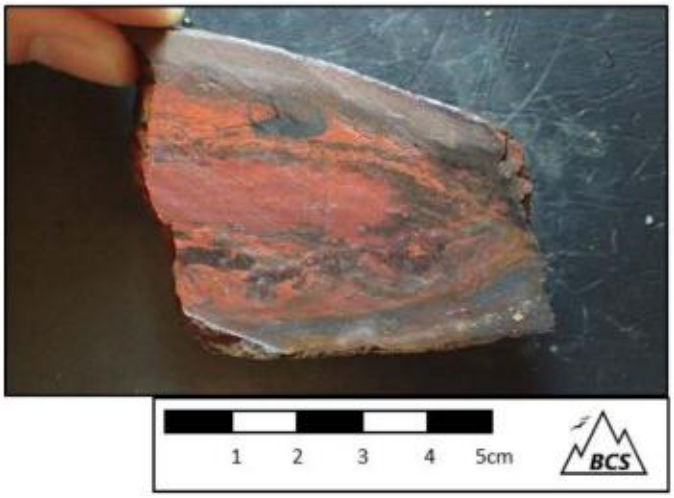
GPS Waypoint: NAD83 19U 611126 6101476 777m

NAD27 19U 611079 6101254 777m

Outcrop-scale photograph of 15BBLM023-A, -B, and -C

15BBLM023-A Hand Specimen

15BBLM023-A Cut Specimen



6. 15BBLM023-B

6.1. FIELD ROCK NAME

MAGNETITE-GOETHITE PUMACY IRONSTONE

6.2. FIELD DESCRIPTION

This claim contains very few outcrops and very little soil on the hillsides the highlands. Rubbly rounded to subangular very strongly magnetic rocks/float primarily cherty ironstone units with lesser parts dolomitic units are present. Ridges are oriented 110°. Two 'benches' showing shallowly eastward dipping stratigraphy are present in the centre of the claim on the east facing side of a major incised valley that transects the claim.

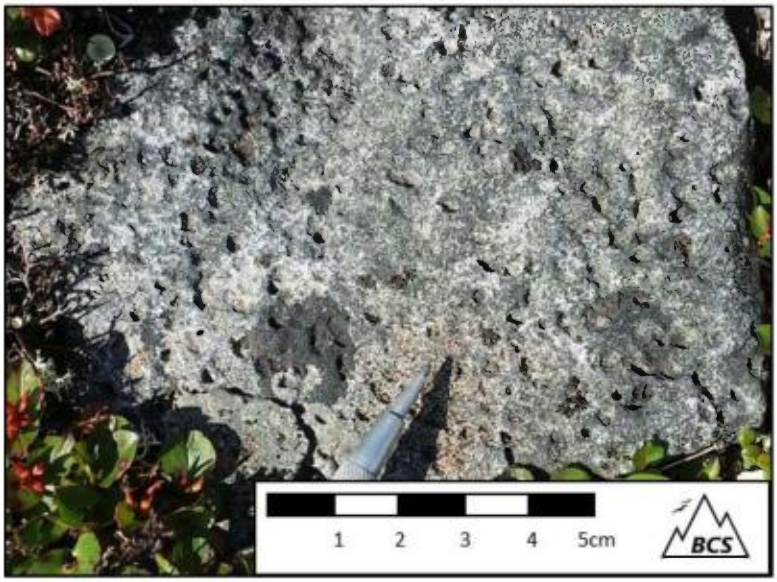
This 15BBLM023-B specimen is a magnetite-goethite pumacy ironstone comprising approximately 10% of the total lithologies present in float occurring as rounded boulders on hillside. This unit is strongly magnetic.

6.3. LOCATION

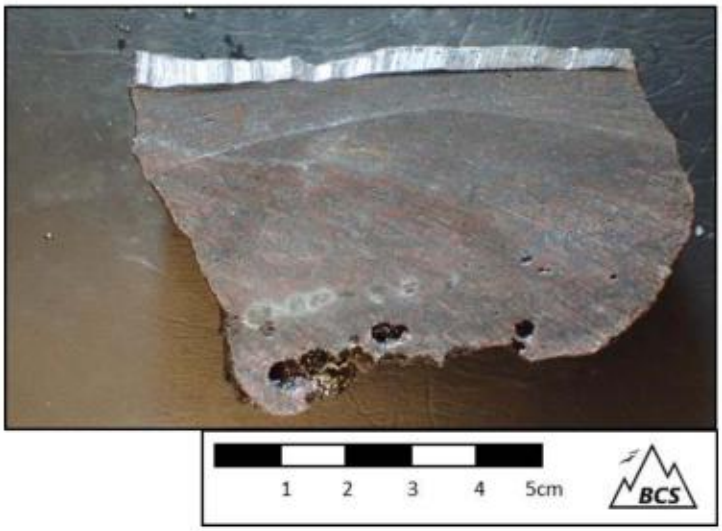
GPS Waypoint: NAD83 19U 611126 6101476 777m

NAD27 19U 611079 6101254 777m

15BBLM023-B Hand Specimen



15BBLM023-B Cut Specimen



7. 15BBLM023-C

7.1. FIELD ROCK NAME

MAGNETITC QUARTZITE

7.2. FIELD DESCRIPTION

This claim contains very few outcrops and very little soil on the hillsides the highlands. Rubbly rounded to subangular very strongly magnetic rocks/float primarily cherty ironstone units with lesser parts dolomitic units are present. Ridges are oriented 110°. Two 'benches' showing shallowly eastward dipping stratigraphy are present in the centre of the claim on the east facing side of a major incised valley that transects the claim.

This 15BBLM023-C specimen is a magnetic quartzite (approximately 10% of the total lithologies present) which occurs as subangular boulders on hillside.

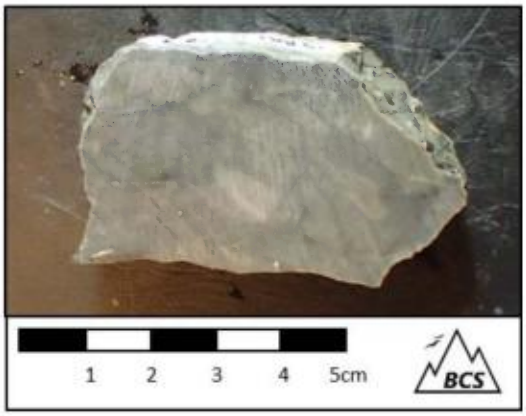
7.3. LOCATION

GPS Waypoint: NAD83 19U 611126 6101476 777m

NAD27 19U 611079 6101254 777m

15BBLM023-C Hand Specimen

15BBLM023-C Cut Specimen



8. 15BBLM024-A

8.1. FIELD ROCK NAME

MASSIVE RE-CRYSTALLIZED MAGNETITE HEMATITE BEARING PISOLITHIC SILTSTONE

8.2. FIELD DESCRIPTION

This sample location is located along one of the two 'benched' outcrops located on the property as noted in the locations described in 15BBLM023A/B/C. The exposure is characterized by a planar bedding surface oriented 130/55°E which is mostly massive with locally sheared (bedding parallel) sections. Hand specimens have been collected from both massive and locally sheared sections for classification. This unit is pisolithic and is predominantly comprised of quartz oolites with interstitial Jasper and abundant hematized magnetite replacement of the interstitial material. This lithology is very hard and resistant to weathering.

This sample 15BBLM024-A is of the massive portion of this outcrop and representative of the metasedimentary beds that form this long narrow cliff exposure in the centre of the claim.

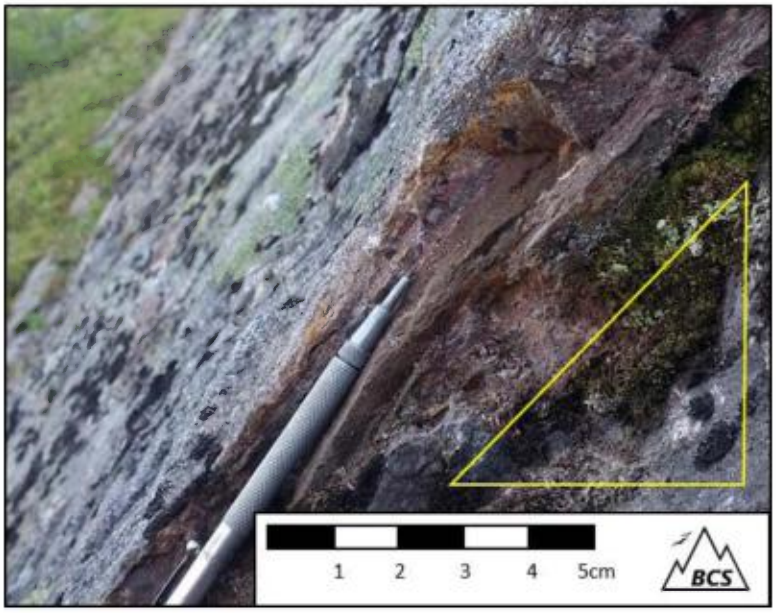
8.3. LOCATION

GPS Waypoint: NAD83 19U 611004 6101289 778m

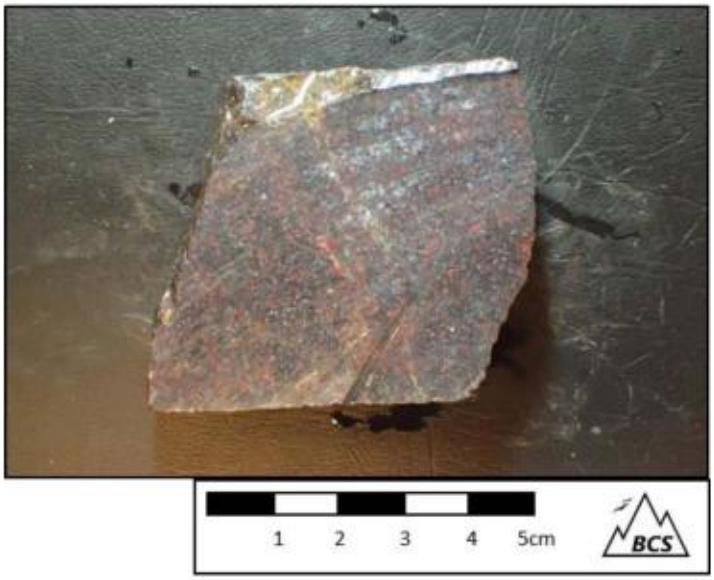
NAD27 19U 610956 6101066 778m

Outcrop-scale photograph of 15BBLM024-A and 15BBLM024-B

15BBLM024-A Hand Specimen



15BBLM024-A Cut Specimen



9. 15BBLM024-B

9.1. FIELD ROCK NAME

SHEARED MAGNETITE HEMATITE BEARING PISOLITHIC SILTSTONE

9.2. FIELD DESCRIPTION

This specimen is of the same bedded jasperoidal quartz metasediment as described in 15BBLM024-A with abundant hematized magnetite replacement of the interstitial material. Shearing is bedding parallel in orientation at 130/55°E.

A specimen was selected for petrographic analysis and further classification.

9.3. LOCATION

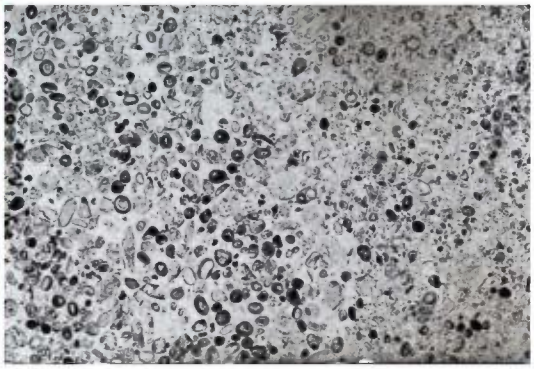
GPS Waypoint: NAD83 19U 611004 6101289 778m

NAD27 19U 610956 6101066 778m

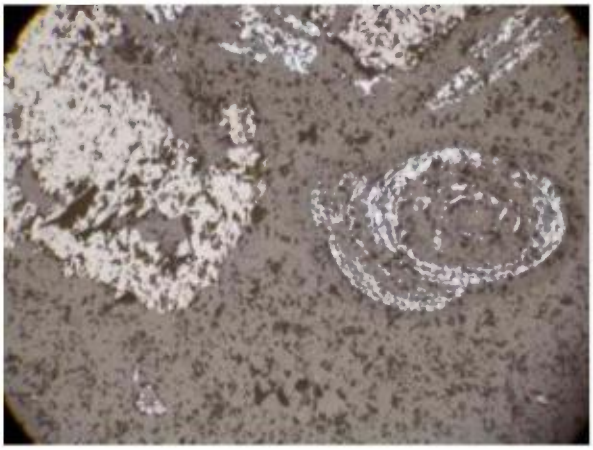
9.4. PETROGRAPHIC ANALYSIS

Stub 2x, 4.5x2.8mm

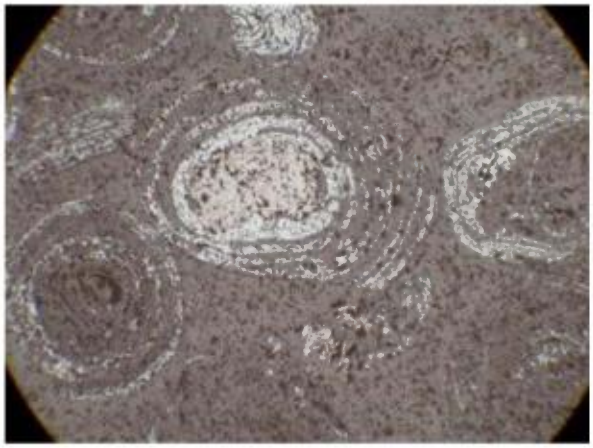
Transmitted light scan, 2x, 3.5x2.3 mm



024: Reflected ppl, 5x, hematite + magnetite



Reflected ppl, 5x, hematite + magnetite

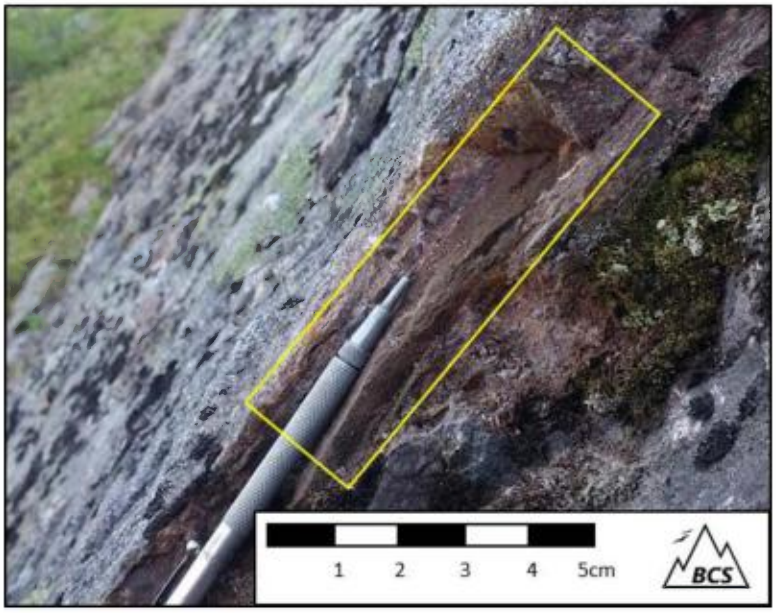


This specimen is granular and medium-grained but the particles are jasper and may have originally been pisoliths or oolites. The pisoliths are formed of hematite (light grey); sub-round to angular poly-granular particles of magnetite (med grey) of similar size also occur. Some hematite pisoliths have magnetite cores, but not all. Locally later magnetite veinlets cut pisolith layering.

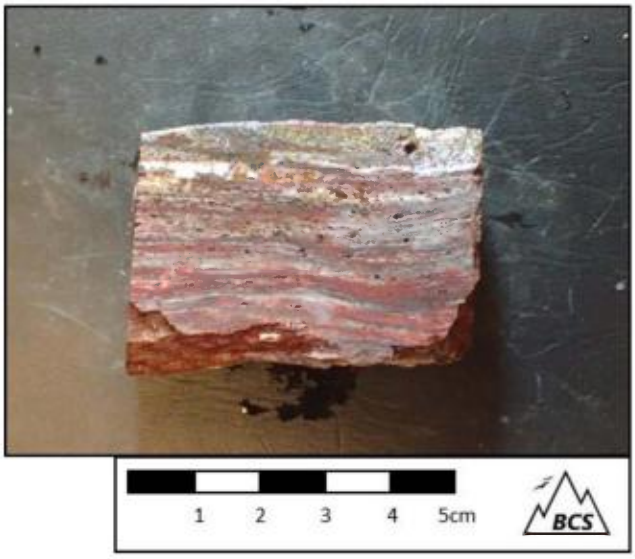
Reflected ppl, 5x, hematite + magnetite veinlet

This sample contains 9.5% opaque oxides and does not contain and porosity (0%).

15BBLM024-B Hand Specimen



15BBLM024-B Cut Specimen



10. 15BBLM025

10.1. FIELD ROCK NAME

BANDED HEMATIZED MAGNETITE JASPEROIDAL QUARTZITE IRON FORMATION

10.2. FIELD DESCRIPTION

A test pit was located and sampled on this Quebec mining claim (2016797) which contains red-brownish coloured gravelly soil and fragments of hematized magnetite and jasper quartzite iron formation. It is estimated by local topography and the test pits located on this claim that the depth to bedrock should not exceed five (5) metres locally.

It is recommended to revisit this claim to locate and evaluate the bedrock source of the material found in the various historical test pits found on this claim and the surrounding area (less than 1km radius). The hand specimen described herein was collected from the near height of the land in the area.

This hand specimen contains a variably pumacy corroded magenite (to goethite and hematite or maghematite) which is characteristic of most of the rounded to subangular rock fragments in overburden in this area.

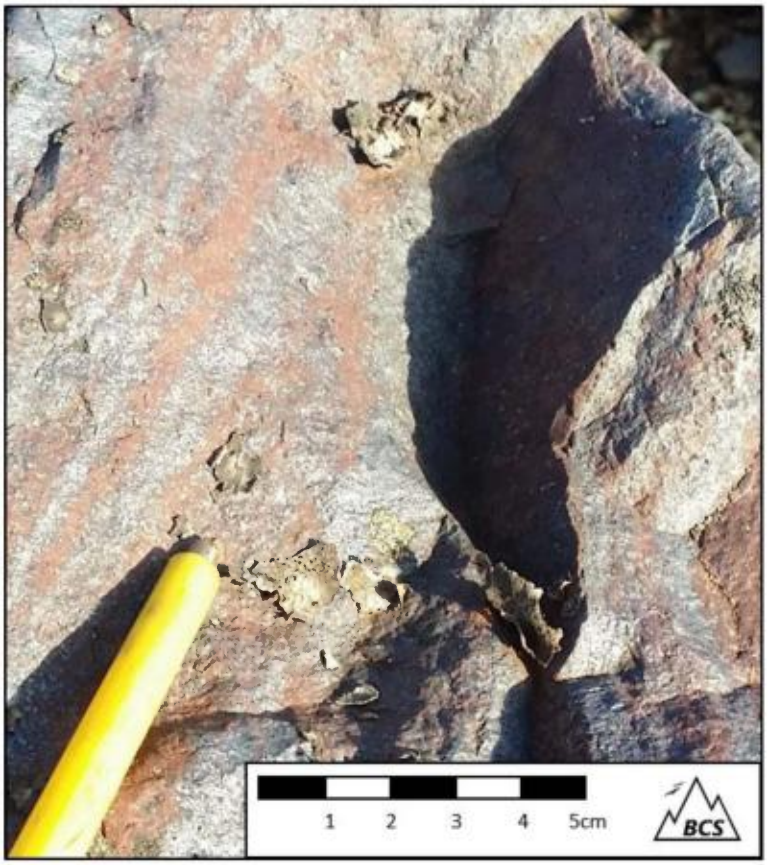
10.3. LOCATION

GPS Waypoint: NAD83 19U 611382 6103762 851m

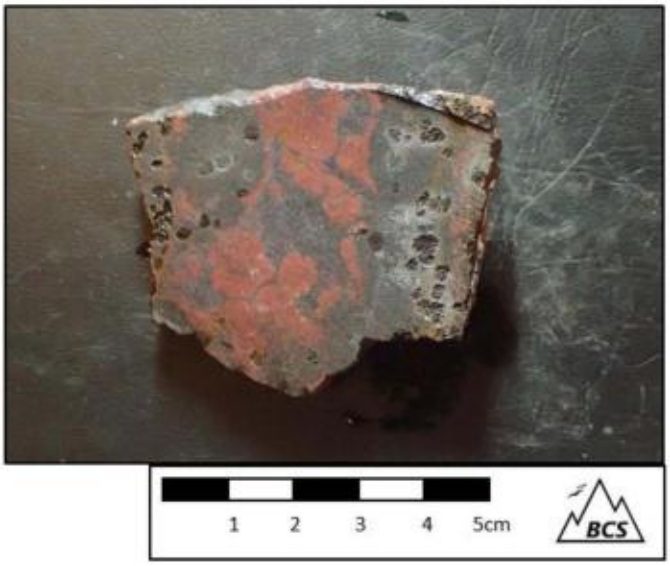
GPS Waypoint: NAD27 19U 611335 6103539 851m

Outcrop-scale photograph of 15BBLM025

15BBLM025 Hand Specimen



15BBLM025 Cut Specimen



11. 15BBLM026

11.1. FIELD ROCK NAME

PUMACY MAGNETITE-GOETHITE-(HEMATITE) IRONSTONE

11.2. FIELD DESCRIPTION

This hand specimen was collected from a shallow (<1.5m deep) historical test pit containing red-brownish coloured gravelly soil and fragments of subangular ironstones with varying intensities of pumacy goethite bearing altered ironstones and banded hematized magnetite and jasper quartzites.

This hand specimen was collected and described to demonstrate the variability in the bedrock representation of the material in the overburden that has been excavated to test the bedrock source of iron mineralization. The pumacy minerals, mostly corroded magnetites, in this hand specimen are themselves weakly magnetic.

11.3. LOCATION

GPS Waypoint: NAD27 19U 611362 6103744 843m

NAD27 19U 611314 6103521 843m

15BBLM026 Hand Specimen

15BBLM026 Cut Specimen

12. 15BBLM027

12.1. FIELD ROCK NAME

PUMACY HYDROHEMATITE AND MAGNETITE-GOETHITE BEARING IRONSTONE

12.2. FIELD DESCRIPTION

Red-coloured oxidized gravel at surface contains larger rounded boulders of pumacy magnetite-goethite bearing ironstone. Rusted pitting in the groundmass appears softer which is likely esmeraldite or hydrohematite in composition. Further analysis by thin section confirms the presence of lepidocrocite (commonly identified as hydrohemaitite in the stratigraphy found in the Labrador Trough).

This unit is very magnetic and specimens are quite hard to break open with a hammer.

This hand sample was selected to demonstrate the rusty weathering and pumacy gossanous iron mineralization that is the primary contributor to the red-colour of the stained gravel.

12.3. LOCATION

GPS Waypoint: NAD83 19U 611267 6103959 828m

NAD27 19U 611219 6103736 828m

Outcrop-scale photograph of 15BBLM027 and 15BBLM028

12.4. PETROGRAPHIC ANALYSIS

Stub 2x, 4.5x2.8mm

Transmitted light scan, 2x, 3.5x2.3 mm

Transmitted and reflected ppl, 5x

Reflected ppl, 10x

The red blebs in hand sample and TS stub are opaque and very low reflectance in TS, possibly lepidocrocite mixed with goethite.

Most of the opaque iron oxide is ragged, ratty to spongey magnetite (above left, medium grey), locally with maghemite or hematite (above right, lighter grey or blue grey, relative to med brownish grey magnetite), which could be classified as massive microplaty.

This sample contains 46% opaque oxides and 1.4% porosity.

15BBLM027 Hand Specimen

15BBLM027 Cut Specimen

13. 15BBLM028

13.1. FIELD ROCK NAME

CHARACTER SOIL SAMPLE: RUSTY RED COLOURED SOIL

13.2. FIELD DESCRIPTION

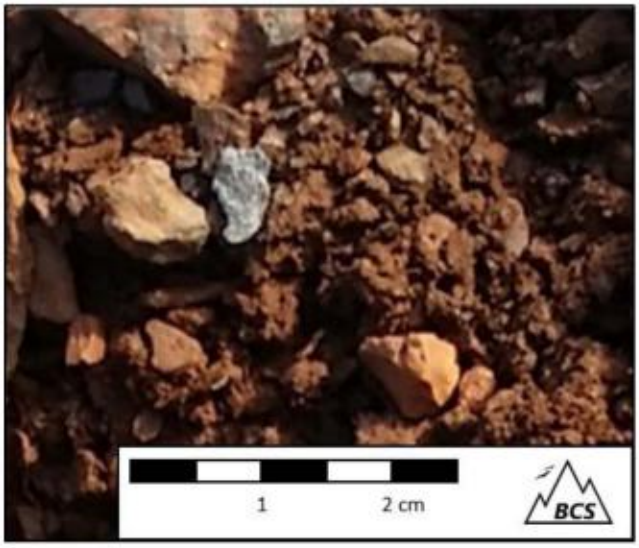
Fine grained, rusty red coloured soil with gravelly shards of ironstone collected for XRF analysis.

13.3. LOCATION

GPS Waypoint: NAD83 19U 611267 6103959 828m

NAD27 19U 611219 6103736 828m

15BBLM028 Soil Sample at Test Pit



14. 15BBLM042

14.1. FIELD ROCK NAME

PUMACY GOETHITE AND MAGHEMATITE CARBONATE IRON FORMATION

14.2. FIELD DESCRIPTION

This hand specimen contains virtually all goethite and magnematite which has locally been retrograded to pumacy concretions of hematite and to a much lesser extent siderite or even calcite(?) locally. This sample was collected in duplicate for classification by reflected and transmitted light petrographics.

The location of this sample is directly over the surface projection of the Kivivic deposit on the Company's claims. While the sample collected at this site are of float, it is interpreted that the bedrock source to these well mineralized boulders is covered by less than several metres of Quaternary cover.

Additional sampling by excavation trenches is warranted at this location to classify the underlying bedrock mineralizaiton.

A sample was collected for assay that was found to yield 93.7 wt% Fe_2O_3.

14.3. LOCATION

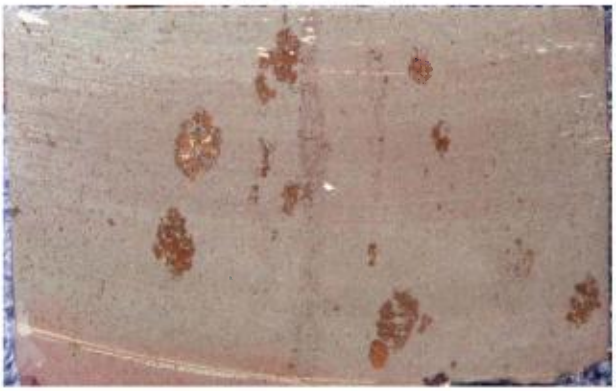
GPS Waypoint: NAD83 19U 605716 6105772 703m

NAD27 19U 605668 6105549 703m

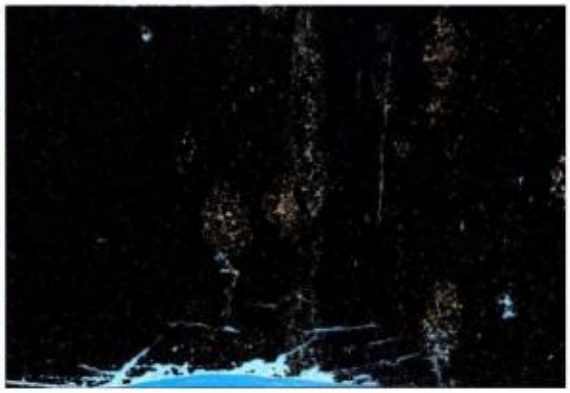
Outcrop-scale photograph of 15BBLM042

14.4. PETROGRAPHIC ANALYSIS

Stub 2x, 4.5x2.8mm

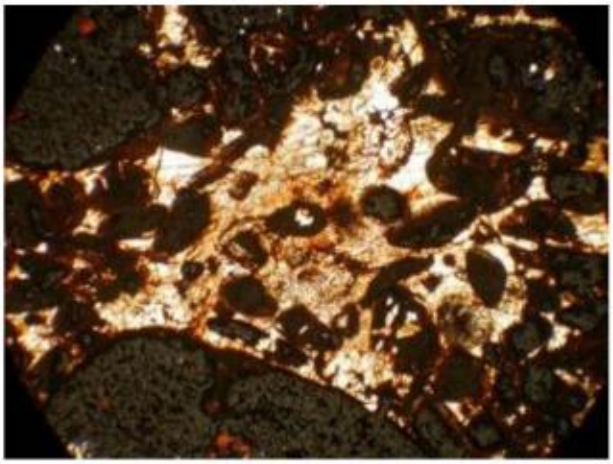


Transmitted light scan, 2x, 3.5x2.3 mm

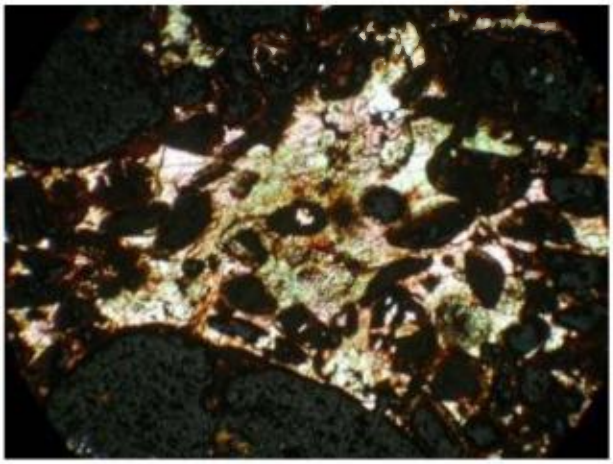


This specimen is massive and very-fine-grained ironstone with a low proportion of red chert matrix to iron-oxide particles. It may be a finer grained equivalent to the first type 15BBLM009, 014, 027, 039, and 040.

Transmitted ppl, 5x

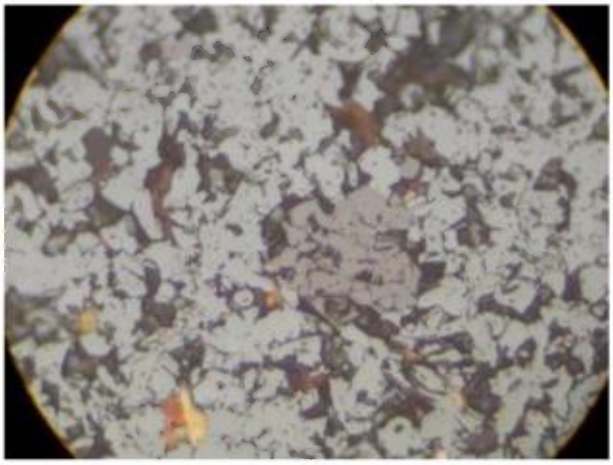


Transmitted crossed polars, 5x



Reflected and transmitted, 5x

Reflected and transmitted, 40x

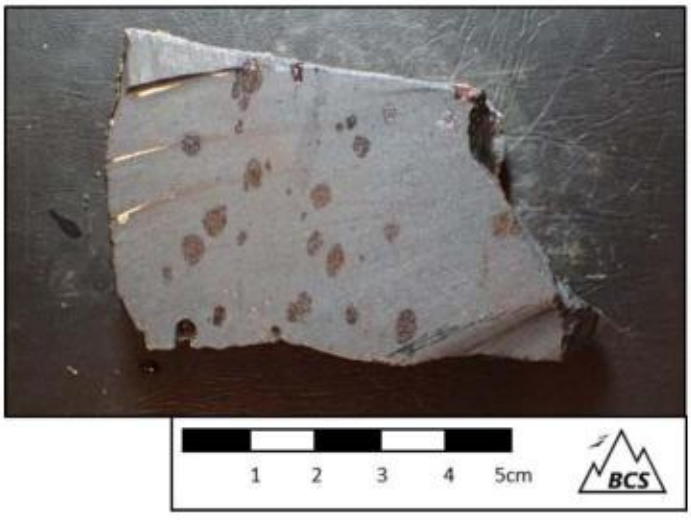


This rock is very fine grained mostly iron oxide. Few small domains show oolitic/pisolitic texture with calcite/siderite matrix (top left and rt). The iron oxide is very fine grained (micro-platy?) maghemite with interstitial goethite (lower left, brown) and few magnetite grains (lower rt, darker med grey in centre).

This sample contains 78.7% opaque oxides and 0.5% porosity.

15BBLM042 Hand Specimen

15BBLM042 Cut Specimen



AGAT Laboratories

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CLIENT NAME: BENJAMIN BATSON
1200-220 BAY STREET
TORONTO, ON M5J2W4
(416) 706-4084

ATTENTION TO: Labrador Iron Mines

PROJECT: Quebec-LIM

AGAT WORK ORDER: 15T006615

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Aug 13, 2015

PAGES (INCLUDING COVER): 15

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.

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Certificate of Analysis

AGAT WORK ORDER: 15T006615

PROJECT: Quebec-LIM

CLIENT NAME: BENJAMIN BATSON

ATTENTION TO: Labrador Iron Mines

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Aug 12, 2015 | DATE RECEIVED: Aug 04, 2015 | DATE REPORTED: Aug 13, 2015 | SAMPLE TYPE: Soil

Analyte:	Sample Login Weight	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Unit:	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.01	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.2
E5418807 (6848673)	0.29	0.33	3.64	16.8	416	1.65	0.16	0.18	0.18	46.1	17.6	56.6	4.31	17.8
E5418808 (6848674)	0.22	0.50	4.14	18.7	454	2.05	0.15	0.25	0.22	49.6	13.5	65.1	4.64	25.4
E5418809 (6848675)	0.28	0.88	4.08	18.4	425	2.00	0.15	0.23	0.16	54.6	12.3	59.6	4.31	26.3
E5129324 (6848676)	0.18	0.56	4.05	15.9	416	1.75	0.16	0.20	0.17	45.5	9.68	56.1	4.79	15.9
E5129325 (6848677)	0.22	0.49	3.65	18.8	431	1.83	0.12	0.27	0.21	43.8	12.3	48.2	3.02	19.3
E5129326 (6848678)	0.24	0.42	3.95	18.7	432	1.87	0.15	0.19	0.20	47.2	13.7	57.2	3.97	23.1
E5129327 (6848679)	0.26	0.36	4.12	19.9	445	2.21	0.18	0.19	0.29	70.6	15.6	58.7	5.33	32.4
14035 (6848680)	0.17	0.46	4.56	17.0	420	2.06	0.12	0.28	0.19	37.1	13.1	60.2	2.45	20.7
14036 (6848681)	0.21	0.52	4.91	17.7	445	2.48	0.13	0.28	0.33	42.9	11.3	64.8	3.05	22.2
14037 (6848682)	0.18	0.40	4.35	17.6	417	2.25	0.13	0.27	0.16	40.0	11.1	55.9	3.06	19.7
14038 (6848683)	0.28	1.05	4.69	16.2	417	1.93	0.12	0.29	0.13	39.7	9.37	66.9	2.74	16.9
14039 (6848684)	0.24	0.56	4.73	13.6	472	2.13	0.11	0.43	0.16	37.6	11.7	51.6	2.11	19.4
14040 (6848685)	0.26	0.55	4.87	13.8	498	2.24	0.10	0.44	0.14	45.0	11.4	54.4	2.28	20.8
14041 (6848686)	0.23	0.61	4.76	16.9	469	2.22	0.10	0.38	0.17	41.9	12.9	62.7	2.12	27.6
14042 (6848687)	0.24	0.46	3.69	15.5	353	1.70	0.09	0.32	0.10	34.2	9.05	53.3	1.88	12.4
14043 (6848688)	0.29	0.34	3.89	14.5	435	1.68	0.11	0.36	0.09	37.3	6.72	50.4	2.26	10.5
14044 (6848689)	0.21	0.55	5.63	10.8	488	2.29	0.10	1.54	0.17	73.5	21.4	56.8	3.74	13.2
14045 (6848690)	0.24	0.53	4.25	13.7	385	1.64	0.12	0.34	0.08	28.8	11.0	64.5	1.87	15.9
14046 (6848691)	0.17	0.63	6.77	8.9	603	2.11	0.08	0.93	0.15	57.0	10.9	114	2.48	11.5
14047 (6848692)	0.29	0.65	7.55	5.2	650	1.75	0.09	1.49	0.20	128	13.2	193	1.71	26.2
14048 (6848693)	0.28	0.49	4.52	15.3	418	1.94	0.11	0.31	0.12	35.5	10.7	74.2	2.02	15.6
14051 (6848694)	0.18	0.39	4.42	14.2	468	2.16	0.08	0.45	0.34	36.9	12.9	55.7	1.71	23.8
14052 (6848695)	0.26	0.83	4.65	8.8	525	2.12	0.11	0.29	0.09	34.2	8.29	57.7	3.45	10.1
14053 (6848696)	0.19	1.03	4.29	14.5	403	1.76	0.14	0.23	0.15	35.5	8.92	55.3	2.73	16.5
14054 (6848697)	0.20	1.20	5.07	14.3	405	2.16	0.13	0.33	0.18	37.9	11.0	66.2	2.87	15.3
14055 (6848698)	0.24	1.21	4.98	14.9	451	2.38	0.13	0.27	0.12	40.1	11.6	56.7	2.62	19.5
14056 (6848699)	0.27	0.72	4.60	15.7	420	2.24	0.11	0.32	0.33	54.2	12.8	52.5	2.13	23.7
14057 (6848700)	0.25	0.84	4.88	15.0	431	2.09	0.13	0.28	0.13	33.7	10.3	63.1	3.00	16.2
14058 (6848701)	0.26	0.62	5.05	16.6	450	2.86	0.13	0.29	0.35	45.3	14.8	64.7	2.94	28.5
14069 (6848702)	0.24	0.61	4.07	14.8	417	2.00	0.11	0.28	0.21	33.2	11.6	53.2	2.21	14.7
14070 (6848703)	0.29	0.74	6.20	11.8	708	2.11	0.11	0.45	0.16	54.6	16.0	155	2.74	17.4

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Certificate of Analysis

AGAT WORK ORDER: 15T006615

PROJECT: Quebec-LIM

CLIENT NAME: BENJAMIN BATSON

ATTENTION TO: Labrador Iron Mines

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Aug 12, 2015 | DATE RECEIVED: Aug 04, 2015 | DATE REPORTED: Aug 13, 2015 | SAMPLE TYPE: Soil

Analyte:	Sample Login Weight	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Unit:	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.01	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.2
14071 (6848704)	0.24	0.60	4.93	15.2	453	2.30	0.13	0.30	0.24	47.6	11.9	65.5	2.45	18.9
14072 (6848705)	0.28	0.56	4.37	11.2	428	2.01	0.10	0.38	0.11	36.7	7.30	60.7	1.84	20.7
14073 (6848706)	0.27	0.59	4.79	14.7	438	2.27	0.12	0.29	0.29	37.6	15.1	60.3	2.41	28.6
15BBLM028 (6848707)	0.97	0.42	3.27	16.3	326	2.36	0.12	0.18	0.41	31.1	11.5	39.1	1.79	23.0

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Analyte:	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
Unit:	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Sample ID (AGAT ID) RDL:	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.2
E5418807 (6848673)	9.64	18.8	1.16	3.6	0.052	1.57	23.2	27.0	0.46	2040	2.89	0.49	14.3	24.5
E5418808 (6848674)	9.73	18.1	1.63	3.8	0.059	1.66	22.4	29.7	0.62	2460	3.81	0.60	15.2	27.4
E5418809 (6848675)	8.88	17.2	1.15	3.6	0.055	1.64	23.7	28.0	0.64	2120	6.43	0.61	18.7	25.6
E5129324 (6848676)	9.93	18.0	0.47	3.9	0.055	1.47	21.8	24.1	0.49	1660	3.76	0.56	13.7	15.1
E5129325 (6848677)	9.48	15.8	0.98	3.2	0.052	1.46	19.9	23.9	0.50	2450	4.17	0.71	12.8	20.7
E5129326 (6848678)	10.1	16.9	1.18	3.7	0.052	1.54	21.0	26.4	0.56	3160	3.61	0.56	13.5	23.0
E5129327 (6848679)	9.76	17.4	1.37	4.5	0.059	1.64	31.2	31.0	0.60	3050	3.43	0.57	13.9	30.3
14035 (6848680)	12.3	16.3	0.73	3.2	0.057	1.53	17.9	25.0	0.59	1960	3.36	0.60	11.9	26.0
14036 (6848681)	12.3	16.8	0.39	3.6	0.064	1.69	19.2	31.1	0.64	2410	3.70	0.64	15.5	27.4
14037 (6848682)	13.2	15.9	1.05	3.6	0.061	1.56	18.7	24.6	0.56	2380	3.43	0.62	14.6	20.5
14038 (6848683)	11.7	17.9	0.72	3.2	0.060	1.54	20.4	21.3	0.52	1200	3.50	0.63	12.9	16.2
14039 (6848684)	9.68	16.4	1.15	3.3	0.047	1.64	17.3	23.2	0.50	1740	2.60	0.90	13.8	16.0
14040 (6848685)	10.3	15.9	0.75	3.6	0.051	1.68	20.1	24.3	0.55	1820	2.77	0.92	14.5	17.6
14041 (6848686)	13.1	15.3	0.82	3.0	0.054	1.41	19.0	24.5	0.53	2080	3.00	0.83	14.0	22.6
14042 (6848687)	16.2	14.0	0.86	3.2	0.051	1.23	16.6	21.7	0.46	1350	3.17	0.59	13.1	14.4
14043 (6848688)	12.4	15.3	0.73	3.4	0.044	1.49	18.7	22.0	0.41	1400	3.12	0.67	14.0	12.1
14044 (6848689)	10.4	27.3	0.71	4.6	0.087	1.52	32.1	43.6	1.76	1670	3.52	1.05	16.4	16.3
14045 (6848690)	17.3	13.2	1.33	2.5	0.045	1.34	14.2	21.4	0.53	2530	2.54	0.61	10.5	15.6
14046 (6848691)	8.08	21.3	0.87	4.5	0.060	1.91	27.7	25.9	0.85	844	2.75	1.58	14.1	19.0
14047 (6848692)	6.27	29.6	0.62	7.8	0.058	1.75	59.9	22.3	1.10	902	7.64	2.30	20.8	18.6
14048 (6848693)	10.7	16.8	0.86	3.2	0.058	1.39	17.7	26.2	0.59	1320	3.16	0.62	15.0	22.0
14051 (6848694)	13.4	14.3	0.56	2.7	0.048	1.47	14.8	21.5	0.54	2110	2.63	0.89	11.1	22.1
14052 (6848695)	6.13	19.8	0.42	3.6	0.058	1.91	16.6	23.5	0.44	1490	2.53	0.63	15.1	11.7
14053 (6848696)	10.9	14.6	0.41	3.6	0.060	1.41	18.0	22.4	0.51	2730	3.11	0.51	18.1	15.2
14054 (6848697)	9.91	17.8	0.37	3.9	0.067	1.48	18.6	30.7	0.59	1710	3.32	0.65	14.1	19.7
14055 (6848698)	9.65	16.0	0.43	3.6	0.062	1.63	19.0	34.0	0.60	1790	3.32	0.65	16.9	18.7
14056 (6848699)	12.1	14.7	0.48	3.2	0.055	1.57	20.4	26.4	0.57	2160	3.19	0.75	14.3	20.8
14057 (6848700)	10.6	16.5	0.43	3.8	0.064	1.63	16.6	30.1	0.57	1420	3.36	0.64	17.5	17.9
14058 (6848701)	11.9	15.8	0.56	3.4	0.063	1.63	19.1	33.6	0.66	2400	3.10	0.66	14.6	27.7
14069 (6848702)	11.7	13.7	0.70	2.9	0.060	1.45	15.9	33.0	0.52	2360	3.31	0.63	15.4	17.4
14070 (6848703)	11.3	21.1	1.44	4.1	0.092	1.97	25.1	36.0	1.37	1460	4.30	0.78	19.4	30.8
14071 (6848704)	12.4	14.2	1.10	3.5	0.066	1.59	22.2	30.7	0.62	2360	3.46	0.67	15.8	21.8

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AGAT WORK ORDER: 15T006615

PROJECT: Quebec-LIM

CLIENT NAME: BENJAMIN BATSON

ATTENTION TO: Labrador Iron Mines

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Aug 12, 2015 | DATE RECEIVED: Aug 04, 2015 | DATE REPORTED: Aug 13, 2015 | SAMPLE TYPE: Soil

Analyte:	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
Unit:	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Sample ID (AGAT ID) RDL:	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.2
14072 (6848705)	12.2	13.2	1.24	3.4	0.053	1.47	17.8	32.8	0.53	745	3.04	0.74	13.9	17.4
14073 (6848706)	12.3	14.7	1.18	3.2	0.061	1.60	16.9	40.3	0.59	2240	3.25	0.64	14.8	24.6
15BBLM028 (6848707)	14.5	9.73	1.06	2.3	0.046	1.13	14.4	33.0	0.37	2610	2.39	0.40	11.3	21.9

Certified By:

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CLIENT NAME: BENJAMIN BATSON

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DATE SAMPLED: Aug 12, 2015 | DATE RECEIVED: Aug 04, 2015 | DATE REPORTED: Aug 13, 2015 | SAMPLE TYPE: Soil

Analyte:	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	10	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01
E5418807 (6848673)	570	15.2	80.2	<0.002	0.03	1.49	9.2	0.8	2.2	80.3	0.98	0.05	9.6	0.21
E5418808 (6848674)	644	16.3	82.1	<0.002	0.03	1.95	9.8	1.1	1.8	96.2	1.03	0.06	10.2	0.22
E5418809 (6848675)	713	15.3	75.3	<0.002	0.05	2.40	9.3	1.4	1.6	90.7	1.03	0.04	10.4	0.22
E5129324 (6848676)	613	13.5	74.5	<0.002	0.05	1.68	9.9	1.0	1.7	84.9	0.82	0.04	9.3	0.20
E5129325 (6848677)	593	15.9	69.8	<0.002	0.02	1.86	8.3	1.0	1.3	119	0.79	0.04	8.1	0.17
E5129326 (6848678)	624	15.5	72.9	<0.002	0.02	1.71	9.2	1.0	1.4	84.4	0.89	0.04	9.7	0.21
E5129327 (6848679)	455	20.1	78.8	0.003	0.02	2.03	10.2	0.9	1.7	87.2	1.11	0.07	12.7	0.21
14035 (6848680)	740	15.6	57.3	<0.002	0.04	1.64	9.3	1.0	1.4	86.7	0.64	0.08	8.2	0.21
14036 (6848681)	630	16.6	63.6	<0.002	0.03	1.89	10.3	0.9	1.5	86.4	0.67	0.07	10.2	0.21
14037 (6848682)	498	15.9	62.5	<0.002	0.03	1.86	9.7	0.8	1.4	87.0	0.62	0.07	9.0	0.19
14038 (6848683)	785	13.1	60.1	<0.002	0.04	1.62	9.8	0.9	1.5	89.4	0.69	0.06	10.7	0.24
14039 (6848684)	493	13.3	61.3	<0.002	0.02	1.28	9.8	1.1	1.3	130	0.56	0.06	8.0	0.19
14040 (6848685)	514	14.6	62.3	<0.002	0.03	1.40	9.6	1.1	1.4	131	0.68	0.07	9.4	0.19
14041 (6848686)	510	15.0	52.1	<0.002	0.01	1.47	9.4	0.8	1.2	118	0.58	0.07	10.0	0.21
14042 (6848687)	554	14.3	45.6	<0.002	0.03	1.54	9.1	0.8	1.3	93.2	0.50	0.09	8.3	0.17
14043 (6848688)	584	14.6	52.5	<0.002	0.03	1.56	7.4	0.8	1.2	103	0.60	0.34	10.2	0.19
14044 (6848689)	727	15.3	70.0	<0.002	0.03	1.28	14.1	1.6	2.3	368	0.81	0.20	12.5	0.64
14045 (6848690)	701	14.2	41.2	<0.002	0.03	1.24	7.0	0.7	1.0	68.7	0.44	0.12	7.6	0.21
14046 (6848691)	665	18.0	70.8	<0.002	0.03	0.79	12.0	1.1	2.1	257	0.84	0.11	13.0	0.38
14047 (6848692)	587	20.9	55.4	<0.002	0.02	0.53	9.4	1.4	1.4	426	1.00	0.14	23.0	0.74
14048 (6848693)	579	14.6	50.1	<0.002	0.02	1.44	9.0	1.0	1.3	95.4	0.65	0.10	8.8	0.22
14051 (6848694)	437	15.5	50.8	<0.002	0.01	1.37	9.8	0.7	1.2	128	0.41	0.08	7.1	0.16
14052 (6848695)	823	12.4	77.9	<0.002	0.04	1.22	10.1	0.8	2.1	101	0.84	0.05	8.6	0.26
14053 (6848696)	503	13.4	51.3	<0.002	0.03	1.67	7.8	0.9	1.7	71.0	0.78	0.09	9.1	0.24
14054 (6848697)	636	16.3	55.8	<0.002	0.12	1.59	9.8	1.0	1.8	94.1	0.86	0.08	10.2	0.27
14055 (6848698)	498	14.3	57.2	<0.002	<0.01	1.72	9.9	0.9	1.8	81.7	0.76	0.08	10.2	0.24
14056 (6848699)	427	14.9	55.5	<0.002	0.02	1.80	9.2	0.8	1.4	95.1	0.56	0.08	10.3	0.20
14057 (6848700)	548	14.3	60.6	<0.002	0.02	1.72	9.1	0.9	1.9	84.0	0.78	0.08	8.9	0.24
14058 (6848701)	512	16.6	62.8	<0.002	0.03	1.63	9.7	0.8	1.5	88.9	0.67	0.09	9.3	0.21
14069 (6848702)	588	14.4	53.2	<0.002	0.03	1.76	7.8	0.8	1.5	86.0	0.63	0.09	7.6	0.20
14070 (6848703)	803	16.5	71.6	<0.002	0.03	1.26	13.3	1.2	1.7	110	0.88	0.07	14.5	0.39
14071 (6848704)	681	16.7	54.2	<0.002	0.02	1.92	8.3	0.9	1.6	114	0.69	0.08	12.4	0.23

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 15T006615

PROJECT: Quebec-LIM

CLIENT NAME: BENJAMIN BATSON

ATTENTION TO: Labrador Iron Mines

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Aug 12, 2015 | DATE RECEIVED: Aug 04, 2015 | DATE REPORTED: Aug 13, 2015 | SAMPLE TYPE: Soil

Analyte:	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	10	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01
14072 (6848705)	595	12.8	47.6	<0.002	0.03	1.53	7.9	1.1	1.2	99.0	0.62	0.08	10.1	0.20
14073 (6848706)	473	14.9	55.2	<0.002	0.03	1.74	8.9	0.8	1.6	109	0.61	0.08	9.1	0.22
15BBLM028 (6848707)	446	13.2	39.8	<0.002	0.02	1.49	6.5	<0.5	1.3	64.2	0.46	0.10	6.7	0.15

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CLIENT NAME: BENJAMIN BATSON

ATTENTION TO: Labrador Iron Mines

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Aug 12, 2015 | DATE RECEIVED: Aug 04, 2015 | DATE REPORTED: Aug 13, 2015 | SAMPLE TYPE: Soil

Analyte:	Tl	U	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.01	0.005	0.5	0.1	0.1	0.5	0.5
E5418807 (6848673)	0.52	3.13	86.3	1.1	12.9	70.0	131
E5418808 (6848674)	0.55	3.84	94.3	1.1	14.5	89.2	135
E5418809 (6848675)	0.55	4.43	94.1	1.1	14.8	88.9	132
E5129324 (6848676)	0.56	4.04	95.9	1.1	15.1	76.3	136
E5129325 (6848677)	0.46	3.42	77.4	1.0	14.4	82.1	122
E5129326 (6848678)	0.50	3.64	87.2	1.1	14.3	92.8	131
E5129327 (6848679)	0.61	4.65	87.2	1.2	16.0	104	134
14035 (6848680)	0.40	2.73	80.0	0.8	11.8	83.7	111
14036 (6848681)	0.46	3.27	90.4	1.0	11.7	85.4	116
14037 (6848682)	0.43	2.90	84.4	1.0	11.1	79.3	114
14038 (6848683)	0.42	2.89	89.3	0.9	11.3	71.0	113
14039 (6848684)	0.38	2.76	69.4	0.8	11.0	60.9	112
14040 (6848685)	0.43	3.15	73.1	1.1	11.4	61.4	111
14041 (6848686)	0.39	3.06	79.4	0.9	10.3	62.1	96.8
14042 (6848687)	0.33	2.42	71.2	0.7	10.5	46.8	108
14043 (6848688)	0.36	2.69	77.3	0.9	9.0	46.3	102
14044 (6848689)	0.48	2.77	183	0.9	16.6	71.4	155
14045 (6848690)	0.30	2.18	87.0	0.6	7.8	56.9	77.6
14046 (6848691)	0.47	2.65	117	0.7	11.0	61.6	154
14047 (6848692)	0.33	4.00	204	0.8	10.8	58.3	247
14048 (6848693)	0.40	2.60	83.2	0.7	10.1	55.4	102
14051 (6848694)	0.32	2.51	70.0	0.5	10.8	71.8	96.1
14052 (6848695)	0.46	2.85	84.7	1.4	12.8	44.7	126
14053 (6848696)	0.42	2.87	77.1	1.0	10.5	56.1	115
14054 (6848697)	0.48	3.22	86.6	1.1	12.4	63.5	128
14055 (6848698)	0.50	3.40	83.2	0.9	11.1	65.5	113
14056 (6848699)	0.40	3.29	78.6	0.7	12.7	62.9	109
14057 (6848700)	0.48	2.99	85.0	1.0	10.3	62.5	121
14058 (6848701)	0.49	3.17	81.8	0.9	12.4	80.7	104
14069 (6848702)	0.37	2.56	76.3	0.9	10.6	64.3	98.5
14070 (6848703)	0.56	3.37	129	1.2	13.4	79.8	130
14071 (6848704)	0.46	3.41	84.0	0.9	11.6	78.2	112

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Certificate of Analysis

AGAT WORK ORDER: 15T006615

PROJECT: Quebec-LIM

CLIENT NAME: BENJAMIN BATSON

ATTENTION TO: Labrador Iron Mines

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

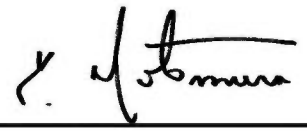
DATE SAMPLED: Aug 12, 2015 | DATE RECEIVED: Aug 04, 2015 | DATE REPORTED: Aug 13, 2015 | SAMPLE TYPE: Soil

Analyte:	Tl	U	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.01	0.005	0.5	0.1	0.1	0.5	0.5
14072 (6848705)	0.40	2.93	72.3	0.8	12.6	49.6	104
14073 (6848706)	0.41	3.03	82.0	0.8	14.6	73.2	109
15BBLM028 (6848707)	0.34	2.76	67.6	0.5	12.4	78.0	70.1

Comments: RDL - Reported Detection Limit

6848673-6848707 As, Sb values may be low due to digestion losses.

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 15T006615

PROJECT: Quebec-LIM

CLIENT NAME: BENJAMIN BATSON

ATTENTION TO: Labrador Iron Mines

(201-676) Lithium Borate Fusion - Summation of Oxides, XRF finish

DATE SAMPLED: Aug 12, 2015 | DATE RECEIVED: Aug 04, 2015 | DATE REPORTED: Aug 13, 2015 | SAMPLE TYPE: Rock

Analyte:	Sample Login Weight	Al2O3	BaO	CaO	Cr2O3	Fe2O3	K2O	MgO	MnO	Na2O	P2O5	SiO2	TiO2	SrO
Unit:	kg	%	%	%	%	%	%	%	%	%	%	%	%	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
15BBLM025 (6848666)	0.59	0.28	<0.01	0.27	0.01	47.9	0.02	0.07	0.41	<0.01	0.03	49.4	0.02	<0.01
15BBLM011 (6848667)	0.66	0.10	<0.01	0.02	0.02	58.9	0.03	0.04	0.11	<0.01	0.01	40.4	<0.01	<0.01
15BBLM026 (6848668)	0.58	0.12	<0.01	<0.01	0.02	60.5	<0.01	0.02	0.05	<0.01	<0.01	37.6	<0.01	<0.01
15BBLM010 (6848669)	0.68	0.10	<0.01	0.03	<0.01	39.9	0.01	0.13	0.22	<0.01	0.02	58.5	<0.01	<0.01
15BBLM027 (6848670)	0.54	0.06	<0.01	1.00	0.02	60.3	0.01	0.24	0.47	<0.01	0.02	36.4	<0.01	<0.01
15BBLM042 (6848671)	0.61	0.14	<0.01	0.32	0.01	93.7	0.03	0.37	0.33	<0.01	0.02	4.55	0.01	<0.01
15BBLM008 (6848672)	1.09	0.37	<0.01	0.14	<0.01	58.5	0.02	0.06	0.12	<0.01	0.15	36.2	0.04	<0.01

Analyte:	V2O5	LOI	Total
Unit:	%	%	%
Sample ID (AGAT ID) RDL:	0.01	0.01	0.01
15BBLM025 (6848666)	<0.01	0.75	99.2
15BBLM011 (6848667)	<0.01	<0.01	99.6
15BBLM026 (6848668)	<0.01	0.85	99.2
15BBLM010 (6848669)	<0.01	0.11	99.0
15BBLM027 (6848670)	<0.01	1.09	99.6
15BBLM042 (6848671)	<0.01	1.01	100
15BBLM008 (6848672)	<0.01	3.84	99.4

Comments: RDL - Reported Detection Limit

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Quality Assurance - Replicate

AGAT WORK ORDER: 15T006615

PROJECT: Quebec-LIM

CLIENT NAME: BENJAMIN BATSON

ATTENTION TO: Labrador Iron Mines

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

	REPLICATE #1				REPLICATE #2				REPLICATE #3							
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	6848680	0.46	0.47	2.2%	6848695	0.831	0.876	5.3%	6848704	0.600	0.626	4.2%				
Al	6848680	4.56	4.37	4.3%	6848695	4.65	4.82	3.6%	6848704	4.93	4.98	1.0%				
As	6848680	17.0	16.8	1.2%	6848695	8.75	8.27	5.6%	6848704	15.2	16.9	10.6%				
Ba	6848680	420	418	0.5%	6848695	525	539	2.6%	6848704	453	459	1.3%				
Be	6848680	2.06	2.03	1.5%	6848695	2.12	2.03	4.3%	6848704	2.30	2.31	0.4%				
Bi	6848680	0.12	0.12	0.0%	6848695	0.11	0.11	0.0%	6848704	0.13	0.13	0.0%				
Ca	6848680	0.281	0.272	3.3%	6848695	0.292	0.300	2.7%	6848704	0.298	0.306	2.6%				
Cd	6848680	0.19	0.19	0.0%	6848695	0.09	0.09	0.0%	6848704	0.244	0.255	4.4%				
Ce	6848680	37.1	51.1		6848695	34.2	37.5	9.2%	6848704	47.6	34.8					
Co	6848680	13.1	12.3	6.3%	6848695	8.29	7.97	3.9%	6848704	11.9	13.3	11.1%				
Cr	6848680	60.2	56.7	6.0%	6848695	57.7	57.4	0.5%	6848704	65.5	67.1	2.4%				
Cs	6848680	2.45	2.54	3.6%	6848695	3.45	3.63	5.1%	6848704	2.45	2.51	2.4%				
Cu	6848680	20.7	20.6	0.5%	6848695	10.1	10.9	7.6%	6848704	18.9	18.8	0.5%				
Fe	6848680	12.3	12.2	0.8%	6848695	6.13	6.22	1.5%	6848704	12.4	12.7	2.4%				
Ga	6848680	16.3	15.3	6.3%	6848695	19.8	18.8	5.2%	6848704	14.2	15.4	8.1%				
Ge	6848680	0.73	0.50		6848695	0.42	0.39	7.4%	6848704	1.10	1.49					
Hf	6848680	3.2	3.4	6.1%	6848695	3.6	3.8	5.4%	6848704	3.5	3.2	9.0%				
In	6848680	0.057	0.057	0.0%	6848695	0.0581	0.0575	1.0%	6848704	0.0661	0.0654	1.1%				
K	6848680	1.53	1.50	2.0%	6848695	1.91	1.99	4.1%	6848704	1.59	1.60	0.6%				
La	6848680	17.9	24.8		6848695	16.6	18.0	8.1%	6848704	22.2	16.2					
Li	6848680	25.0	24.1	3.7%	6848695	23.5	24.2	2.9%	6848704	30.7	30.5	0.7%				
Mg	6848680	0.591	0.572	3.3%	6848695	0.44	0.44	0.0%	6848704	0.62	0.63	1.6%				
Mn	6848680	1960	1910	2.6%	6848695	1490	1480	0.7%	6848704	2360	2510	6.2%				
Mo	6848680	3.36	3.17	5.8%	6848695	2.53	2.43	4.0%	6848704	3.46	3.58	3.4%				
Na	6848680	0.60	0.58	3.4%	6848695	0.63	0.65	3.1%	6848704	0.670	0.678	1.2%				
Nb	6848680	11.9	15.0	23.0%	6848695	15.1	13.4	11.9%	6848704	15.8	15.8	0.0%				
Ni	6848680	26.0	23.7	9.3%	6848695	11.7	12.7	8.2%	6848704	21.8	23.2	6.2%				
P	6848680	740	686	7.6%	6848695	823	802	2.6%	6848704	681	626	8.4%				
Pb	6848680	15.6	16.7	6.8%	6848695	12.4	12.7	2.4%	6848704	16.7	16.9	1.2%				
Rb	6848680	57.3	55.3	3.6%	6848695	77.9	73.5	5.8%	6848704	54.2	55.7	2.7%				
Re	6848680	< 0.002	< 0.002	0.0%	6848695	< 0.002	< 0.002	0.0%	6848704	< 0.002	< 0.002	0.0%				

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Quality Assurance - Replicate

AGAT WORK ORDER: 15T006615

PROJECT: Quebec-LIM

CLIENT NAME: BENJAMIN BATSON

ATTENTION TO: Labrador Iron Mines

S	6848680	0.04	0.04	0.0%	6848695	0.04	0.03	28.6%	6848704	0.02	0.03					
Sb	6848680	1.64	1.70	3.6%	6848695	1.22	1.22	0.0%	6848704	1.92	1.96	2.1%				
Sc	6848680	9.30	8.84	5.1%	6848695	10.1	9.9	2.0%	6848704	8.27	9.05	9.0%				
Se	6848680	1.0	1.0	0.0%	6848695	0.8	0.8	0.0%	6848704	0.9	0.9	0.0%				
Sn	6848680	1.36	1.35	0.7%	6848695	2.1	1.9	10.0%	6848704	1.6	1.7	6.1%				
Sr	6848680	86.7	82.7	4.7%	6848695	101	95.4	5.7%	6848704	114	118	3.4%				
Ta	6848680	0.639	0.648	1.4%	6848695	0.837	0.781	6.9%	6848704	0.695	0.699	0.6%				
Te	6848680	0.084	0.089	5.8%	6848695	0.050	0.044	12.8%	6848704	0.078	0.075	3.9%				
Th	6848680	8.2	12.0		6848695	8.6	9.0	4.5%	6848704	12.4	8.6					
Ti	6848680	0.21	0.20	4.9%	6848695	0.26	0.26	0.0%	6848704	0.23	0.23	0.0%				
Tl	6848680	0.402	0.422	4.9%	6848695	0.46	0.46	0.0%	6848704	0.46	0.44	4.4%				
U	6848680	2.73	2.91	6.4%	6848695	2.85	3.02	5.8%	6848704	3.41	3.03	11.8%				
V	6848680	80.0	76.5	4.5%	6848695	84.7	84.9	0.2%	6848704	84.0	86.5	2.9%				
W	6848680	0.80	0.85	6.1%	6848695	1.4	1.4	0.0%	6848704	0.9	0.9	0.0%				
Y	6848680	11.8	11.8	0.0%	6848695	12.8	9.73	27.3%	6848704	11.6	14.5	22.2%				
Zn	6848680	83.7	81.6	2.5%	6848695	44.7	44.3	0.9%	6848704	78.2	90.6	14.7%				
Zr	6848680	111	109	1.8%	6848695	126	126	0.0%	6848704	112	104	7.4%				

Results relate only to the items tested and to all the items tested

AGAT Laboratories

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Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 15T006615

PROJECT: Quebec-LIM

CLIENT NAME: BENJAMIN BATSON

ATTENTION TO: Labrador Iron Mines

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

	CRM #1 (ref.GTS-2a)				CRM #2 (ref.CDN-ME-1304)				CRM #3 (ref.GTS-2a)							
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Ag					34	35	102%	90% - 110%								
Al	6.96	6.42	92%	90% - 110%					6.96	6.83	98%	90% - 110%				
As	124	115	93%	90% - 110%												
Ba	186	172	93%	90% - 110%					186	191	102%	90% - 110%				
Ca	4.01	3.66	91%	90% - 110%					4.01	4.09	102%	90% - 110%				
Ce	24	22	91%	90% - 110%					24	22	94%	90% - 110%				
Co	22.1	20.7	94%	90% - 110%					22.1	20.2	91%	90% - 110%				
Cu	88.6	85	96%	90% - 110%	2680	2661	99%	90% - 110%	88.6	90.1	102%	90% - 110%				
Fe	7.56	7.39	98%	90% - 110%					7.56	8	106%	90% - 110%				
K	2.021	1.89	94%	90% - 110%					2.021	2.116	105%	90% - 110%				
Mg	2.412	2.181	90%	90% - 110%					2.412	2.537	105%	90% - 110%				
Mn	1510	1538	102%	90% - 110%					1510	1582	105%	90% - 110%				
Na	0.617	0.565	92%	90% - 110%					0.617	0.641	104%	90% - 110%				
Ni	77.1	78.2	101%	90% - 110%					77.1	77.8	101%	90% - 110%				
P	892	893	100%	90% - 110%					892	907	102%	90% - 110%				
Pb					2580	2560	99%	90% - 110%								
S	0.348	0.353	101%	90% - 110%					0.348	0.38	109%	90% - 110%				
Sr	92.8	87.6	94%	90% - 110%					92.8	96.9	104%	90% - 110%				
Zn	208	215	103%	90% - 110%	2200	2186	99%	90% - 110%	208	204	98%	90% - 110%				

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Method Summary

CLIENT NAME: BENJAMIN BATSON

AGAT WORK ORDER: 15T006615

PROJECT: Quebec-LIM

ATTENTION TO: Labrador Iron Mines

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12020		ICP-MS
Al	MIN-200-12020		ICP/OES
As	MIN-200-12020		ICP-MS
Ba	MIN-200-12020		ICP-MS
Be	MIN-200-12020		ICP-MS
Bi	MIN-200-12020		ICP-MS
Ca	MIN-200-12020		ICP/OES
Cd	MIN-200-12020		ICP-MS
Ce	MIN-200-12020		ICP-MS
Co	MIN-200-12020		ICP-MS
Cr	MIN-200-12020		ICP/OES
Cs	MIN-200-12020		ICP-MS
Cu	MIN-200-12020		ICP-MS
Fe	MIN-200-12020		ICP/OES
Ga	MIN-200-12020		ICP-MS
Ge	MIN-200-12020		ICP-MS
Hf	MIN-200-12020		ICP-MS
In	MIN-200-12020		ICP-MS
K	MIN-200-12020		ICP/OES
La	MIN-200-12020		ICP-MS
Li	MIN-200-12020		ICP-MS
Mg	MIN-200-12020		ICP/OES
Mn	MIN-200-12020		ICP/OES
Mo	MIN-200-12020		ICP-MS
Na	MIN-200-12020		ICP/OES
Nb	MIN-200-12020		ICP-MS
Ni	MIN-200-12020		ICP-MS
P	MIN-200-12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
Re	MIN-200-12020		ICP-MS
S	MIN-200-12020		ICP/OES
Sb	MIN-200-12020		ICP-MS
Sc	MIN-200-12020		ICP-MS
Se	MIN-200-12020		ICP-MS
Sn	MIN-200-12020		ICP-MS
Sr	MIN-200-12020		ICP-MS
Ta	MIN-200-12020		ICP-MS
Te	MIN-200-12020		ICP-MS
Th	MIN-200-12020		ICP-MS
Ti	MIN-200-12020		ICP/OES
Tl	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
V	MIN-200-12020		ICP/OES
W	MIN-200-12020		ICP-MS
Y	MIN-200-12020		ICP-MS
Zn	MIN-200-12020		ICP-MS
Zr	MIN-200-12020		ICP-MS

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Method Summary

CLIENT NAME: BENJAMIN BATSON

AGAT WORK ORDER: 15T006615

PROJECT: Quebec-LIM

ATTENTION TO: Labrador Iron Mines

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Sample Login Weight	MIN-12009		BALANCE
Al2O3	MIN-200-12027		XRF
BaO	MIN-200-12027		XRF
CaO	MIN-200-12027		XRF
Cr2O3	MIN-200-12027		XRF
Fe2O3	MIN-200-12027		XRF
K2O	MIN-200-12027		XRF
MgO	MIN-200-12027		XRF
MnO	MIN-200-12027		XRF
Na2O	MIN-200-12027		XRF
P2O5	MIN-200-12027		XRF
SiO2	MIN-200-12027		XRF
TiO2	MIN-200-12027		XRF
SrO	MIN-200-12027		XRF
V2O5	MIN-200-12027		XRF
LOI	MIN-200-12021		GRAVIMETRIC
Total	MIN-200-12027		CALCULATION

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CLIENT NAME: BENJAMIN BATSON
1200-220 BAY STREET
TORONTO, ON M5J2W4
(416) 706-4084

ATTENTION TO: Labrador Iron Mines

PROJECT: QC NL-LIM

AGAT WORK ORDER: 15T006621

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Aug 13, 2015

PAGES (INCLUDING COVER): 6

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.

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AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 15T006621

PROJECT: QC NL-LIM

CLIENT NAME: BENJAMIN BATSON

ATTENTION TO: Labrador Iron Mines

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Aug 12, 2015 | DATE RECEIVED: Aug 04, 2015 | DATE REPORTED: Aug 13, 2015 | SAMPLE TYPE: Soil

Analyte:	Sample Login Weight	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Unit:	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.01	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.2
14049 (6848719)	0.26	0.46	4.74	14.9	420	2.28	0.13	0.30	0.10	38.5	8.45	66.0	3.60	14.8
14050 (6848720)	0.24	0.53	3.79	14.7	384	1.57	0.11	0.29	0.09	31.5	8.59	53.7	2.22	11.5
14059 (6848721)	0.24	1.13	4.33	15.0	419	2.06	0.10	0.32	0.16	28.1	10.9	58.9	2.08	16.0
14060 (6848722)	0.29	0.71	5.46	17.7	465	2.55	0.15	0.30	0.20	47.3	16.6	74.5	3.36	28.0
14061 (6848723)	0.21	1.17	4.36	11.8	384	1.89	0.12	0.25	0.18	33.2	7.73	57.8	2.94	12.8
14062 (6848724)	0.28	0.58	4.61	13.7	407	1.75	0.12	0.60	0.13	38.4	9.92	56.3	3.14	12.4
14063 (6848725)	0.24	0.65	4.46	13.4	426	1.91	0.13	0.26	0.14	34.8	7.94	60.0	3.20	12.9
14064 (6848726)	0.29	0.83	4.73	12.9	419	1.83	0.13	0.41	0.11	44.0	7.32	69.5	2.86	9.6
14065 (6848727)	0.18	2.54	3.56	13.2	1380	6.67	0.07	0.26	5.56	50.1	7.31	32.7	1.94	8.9
14066 (6848728)	0.28	0.59	4.72	17.0	415	2.29	0.15	0.24	0.15	32.5	10.9	74.4	3.29	18.0
14067 (6848729)	0.18	0.55	4.82	12.8	497	1.75	0.10	0.62	0.17	48.8	8.57	101	1.56	15.7
14068 (6848730)	0.27	0.71	4.57	14.7	444	2.15	0.10	0.36	0.19	32.3	10.8	62.4	2.32	19.9

Analyte:	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
Unit:	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Sample ID (AGAT ID) RDL:	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.2
14049 (6848719)	10.7	19.2	1.76	3.5	0.061	1.46	19.4	25.9	0.52	828	3.38	0.60	12.4	15.4
14050 (6848720)	14.5	14.4	0.99	3.4	0.047	1.33	16.0	20.9	0.42	1440	2.90	0.56	13.9	12.6
14059 (6848721)	11.4	14.6	1.02	2.9	0.054	1.35	15.5	27.7	0.56	1750	2.94	0.68	13.0	19.5
14060 (6848722)	12.7	16.1	0.36	3.7	0.069	1.79	22.2	36.1	0.75	3150	3.69	0.66	16.4	27.3
14061 (6848723)	9.60	17.8	0.72	3.5	0.062	1.39	17.0	21.8	0.44	1050	3.35	0.52	18.9	14.2
14062 (6848724)	10.6	18.8	0.72	3.2	0.059	1.44	18.2	27.8	0.63	1180	3.07	0.65	17.3	13.0
14063 (6848725)	9.55	17.3	0.80	3.5	0.058	1.58	17.4	22.7	0.50	1140	3.52	0.52	17.3	14.4
14064 (6848726)	10.6	19.2	0.47	4.0	0.058	1.51	22.1	28.0	0.53	840	3.11	0.72	18.1	14.7
14065 (6848727)	9.12	14.1	0.43	4.0	0.080	2.04	21.0	48.8	0.42	9100	4.17	0.25	47.6	26.6
14066 (6848728)	12.2	17.8	0.67	3.5	0.069	1.58	16.0	29.3	0.59	1460	3.65	0.51	17.4	22.3
14067 (6848729)	10.6	20.3	0.80	4.3	0.052	1.39	23.8	27.3	0.71	775	3.49	0.92	17.6	15.5
14068 (6848730)	12.6	14.1	1.49	3.1	0.055	1.46	14.9	25.2	0.53	1810	2.92	0.74	13.7	21.8

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 15T006621

PROJECT: QC NL-LIM

CLIENT NAME: BENJAMIN BATSON

ATTENTION TO: Labrador Iron Mines

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

DATE SAMPLED: Aug 12, 2015 | DATE RECEIVED: Aug 04, 2015 | DATE REPORTED: Aug 13, 2015 | SAMPLE TYPE: Soil

Analyte:	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Sample ID (AGAT ID) RDL:	10	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01
14049 (6848719)	586	14.3	60.5	<0.002	0.02	1.38	10.4	1.0	1.7	92.7	0.77	0.09	9.8	0.23
14050 (6848720)	632	13.6	46.7	<0.002	0.02	1.36	7.8	0.8	1.3	83.1	0.58	0.10	7.5	0.20
14059 (6848721)	535	12.5	51.7	<0.002	0.01	1.25	8.2	0.9	1.3	104	0.52	0.09	7.4	0.18
14060 (6848722)	649	17.3	65.3	<0.002	0.03	2.17	10.3	0.9	1.7	81.2	0.75	0.16	12.5	0.24
14061 (6848723)	849	12.1	55.5	<0.002	0.02	1.41	8.9	1.1	1.9	81.2	0.76	0.11	7.8	0.24
14062 (6848724)	1300	11.7	53.6	<0.002	0.04	1.43	9.2	0.9	1.8	172	0.70	0.09	7.2	0.32
14063 (6848725)	834	13.6	59.4	<0.002	0.03	1.64	9.3	0.9	1.9	77.7	0.81	0.08	8.3	0.24
14064 (6848726)	731	15.0	54.5	<0.002	0.03	1.39	9.4	0.9	1.8	106	0.80	0.08	11.1	0.27
14065 (6848727)	728	13.5	46.8	0.002	0.04	1.15	5.6	0.8	2.7	59.2	2.12	0.06	6.7	0.19
14066 (6848728)	700	16.8	61.5	<0.002	0.02	1.94	9.8	1.0	1.8	99.1	0.77	0.09	9.6	0.24
14067 (6848729)	737	16.8	46.8	<0.002	0.03	0.97	10.3	1.0	1.3	161	0.70	0.08	12.9	0.38
14068 (6848730)	609	14.1	51.6	<0.002	0.03	1.51	8.1	0.9	1.5	105	0.56	0.08	7.8	0.20

Analyte:	Tl	U	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Sample ID (AGAT ID) RDL:	0.01	0.005	0.5	0.1	0.1	0.5	0.5
14049 (6848719)	0.49	3.15	91.5	1.1	11.1	50.9	112
14050 (6848720)	0.36	2.28	74.9	0.7	9.1	49.5	105
14059 (6848721)	0.37	2.33	67.0	0.8	9.4	59.6	103
14060 (6848722)	0.51	3.57	98.2	1.2	11.5	92.7	114
14061 (6848723)	0.42	2.98	87.2	1.1	11.1	44.7	122
14062 (6848724)	0.38	2.52	98.2	0.9	10.7	49.2	107
14063 (6848725)	0.44	2.95	91.9	1.1	10.2	43.7	111
14064 (6848726)	0.45	3.01	93.8	1.1	10.2	41.8	125
14065 (6848727)	0.47	4.11	152	0.7	17.3	69.1	149
14066 (6848728)	0.50	3.17	102	1.0	10.5	68.2	113
14067 (6848729)	0.36	2.59	117	0.8	10.4	46.0	143
14068 (6848730)	0.39	2.67	80.2	0.8	9.3	65.8	101

Comments: RDL - Reported Detection Limit

6848719-6848730 As, Sb values may be low due to digestion losses.

Certified By:

Results relate only to the items tested and to all the items tested

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Quality Assurance - Replicate

AGAT WORK ORDER: 15T006621

PROJECT: QC NL-LIM

CLIENT NAME: BENJAMIN BATSON

ATTENTION TO: Labrador Iron Mines

Parameter																

Results relate only to the items tested and to all the items tested

AGAT Laboratories

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Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 15T006621

PROJECT: QC NL-LIM

CLIENT NAME: BENJAMIN BATSON

ATTENTION TO: Labrador Iron Mines

(201-071) 4 Acid Digest - Metals Package, ICP/ICP-MS finish

	CRM #1 (ref.CDN-ME-1304)				CRM #2 (ref.GTS-2a)											
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Ag	34	34	101%	90% - 110%												
Al					6.96	6.83	98%	90% - 110%								
Ba					186	191	102%	90% - 110%								
Ca					4.01	4.09	102%	90% - 110%								
Ce					24	22	94%	90% - 110%								
Co					22.1	20.2	91%	90% - 110%								
Cu	2680	2604	97%	90% - 110%	88.6	90.1	102%	90% - 110%								
Fe					7.56	8	106%	90% - 110%								
K					2.021	2.116	105%	90% - 110%								
Mg					2.412	2.537	105%	90% - 110%								
Mn					1510	1582	105%	90% - 110%								
Na					0.617	0.641	104%	90% - 110%								
Ni					77.1	77.8	101%	90% - 110%								
P					892	907	102%	90% - 110%								
Pb	2580	2599	101%	90% - 110%												
S					0.348	0.38	109%	90% - 110%								
Sr					92.8	96.9	104%	90% - 110%								
Zn	2200	2157	98%	90% - 110%	208	204	98%	90% - 110%								

Results relate only to the items tested and to all the items tested

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Method Summary

CLIENT NAME: BENJAMIN BATSON

AGAT WORK ORDER: 15T006621

PROJECT: QC NL-LIM

ATTENTION TO: Labrador Iron Mines

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12020		ICP-MS
Al	MIN-200-12020		ICP/OES
As	MIN-200-12020		ICP-MS
Ba	MIN-200-12020		ICP-MS
Be	MIN-200-12020		ICP-MS
Bi	MIN-200-12020		ICP-MS
Ca	MIN-200-12020		ICP/OES
Cd	MIN-200-12020		ICP-MS
Ce	MIN-200-12020		ICP-MS
Co	MIN-200-12020		ICP-MS
Cr	MIN-200-12020		ICP/OES
Cs	MIN-200-12020		ICP-MS
Cu	MIN-200-12020		ICP-MS
Fe	MIN-200-12020		ICP/OES
Ga	MIN-200-12020		ICP-MS
Ge	MIN-200-12020		ICP-MS
Hf	MIN-200-12020		ICP-MS
In	MIN-200-12020		ICP-MS
K	MIN-200-12020		ICP/OES
La	MIN-200-12020		ICP-MS
Li	MIN-200-12020		ICP-MS
Mg	MIN-200-12020		ICP/OES
Mn	MIN-200-12020		ICP/OES
Mo	MIN-200-12020		ICP-MS
Na	MIN-200-12020		ICP/OES
Nb	MIN-200-12020		ICP-MS
Ni	MIN-200-12020		ICP-MS
P	MIN-200-12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
Re	MIN-200-12020		ICP-MS
S	MIN-200-12020		ICP/OES
Sb	MIN-200-12020		ICP-MS
Sc	MIN-200-12020		ICP-MS
Se	MIN-200-12020		ICP-MS
Sn	MIN-200-12020		ICP-MS
Sr	MIN-200-12020		ICP-MS
Ta	MIN-200-12020		ICP-MS
Te	MIN-200-12020		ICP-MS
Th	MIN-200-12020		ICP-MS
Ti	MIN-200-12020		ICP/OES
Tl	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
V	MIN-200-12020		ICP/OES
W	MIN-200-12020		ICP-MS
Y	MIN-200-12020		ICP-MS
Zn	MIN-200-12020		ICP-MS
Zr	MIN-200-12020		ICP-MS

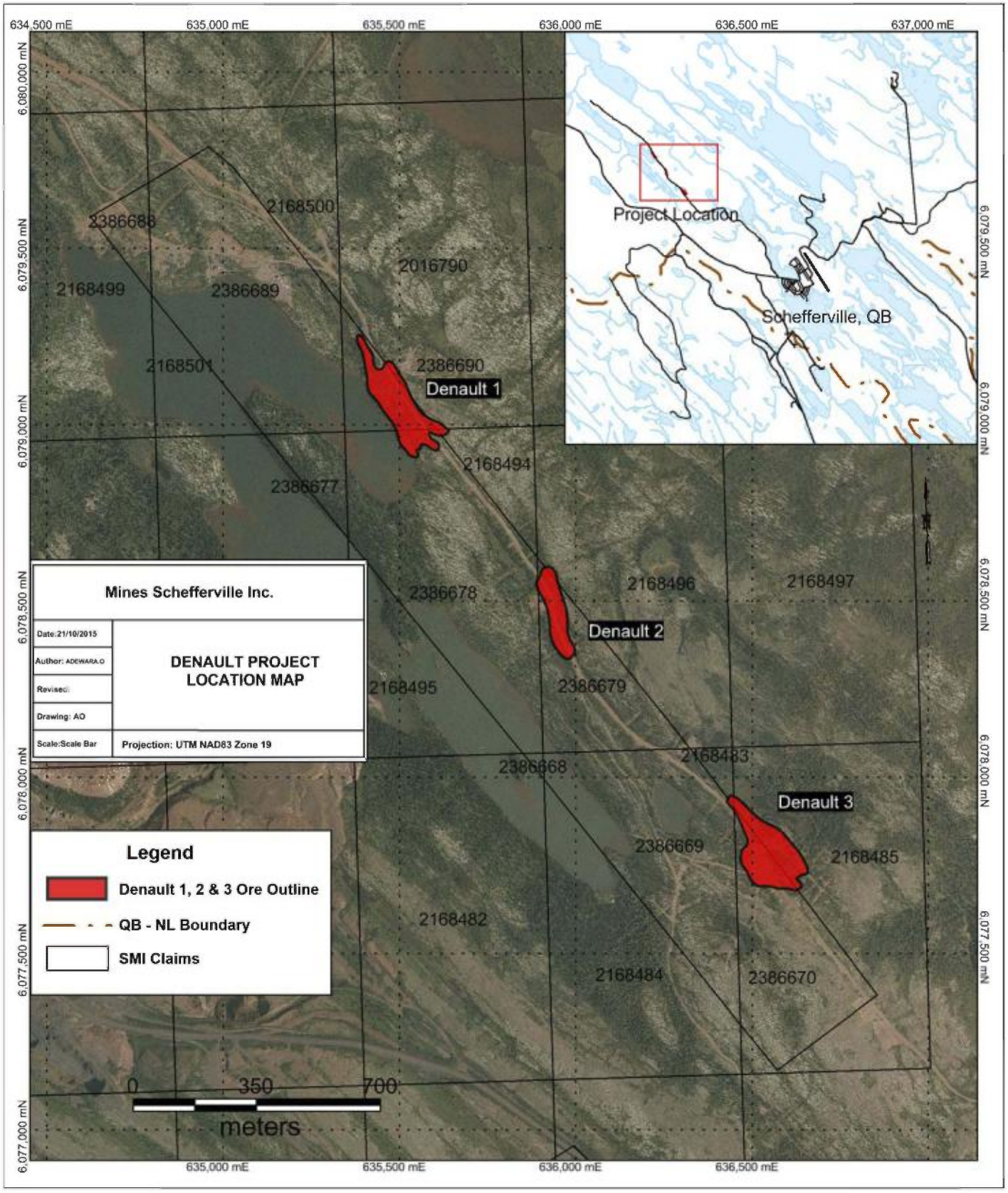
Results relate only to the items tested and to all the items tested

Appendix III - ASSAY RESULTS SUMMARY FOR ROCK SPECIMENS (Lithium Borate Fusion Oxides with XRF finish)

SAMPLE ID	CERTIFICATE #	Fe2O3%	T_Fe%	SiO2%	MnO%	T_Mn%	P2O5%	T_P%	Al2O3%	BaO%	CaO%	Cr2O3%	K2O%	MgO%	Na2O%	TiO2%	SrO%	V2O5%	LOI%	Total%	WeightKG
15BBLM008	15T006615	58.5	40.91	36.2	0.12	0.09	0.15	0.07	0.37	<0.01	0.14	<0.01	0.02	0.06	<0.01	0.04	<0.01	<0.01	3.84	99.4	1.09
15BBLM010	15T006615	39.9	27.91	58.5	0.22	0.17	0.02	0.01	0.1	<0.01	0.03	<0.01	0.01	0.13	<0.01	<0.01	<0.01	<0.01	0.11	99	0.68
15BBLM011	15T006615	58.9	41.19	40.4	0.11	0.09	0.01	0.00	0.1	<0.01	0.02	0.02	0.03	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	99.6	0.66
15BBLM025	15T006615	47.9	33.50	49.4	0.41	0.32	0.03	0.01	0.28	<0.01	0.27	0.01	0.02	0.07	<0.01	0.02	<0.01	<0.01	0.75	99.2	0.59
15BBLM026	15T006615	60.5	42.31	37.6	0.05	0.04	0.005	0.00	0.12	<0.01	<0.01	0.02	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.85	99.2	0.58
15BBLM027	15T006615	60.3	42.17	36.4	0.47	0.36	0.02	0.01	0.06	<0.01	1	0.02	0.01	0.24	<0.01	<0.01	<0.01	<0.01	1.09	99.6	0.54
15BBLM042	15T006615	93.7	65.53	4.55	0.33	0.26	0.02	0.01	0.14	<0.01	0.32	0.01	0.03	0.37	<0.01	0.01	<0.01	<0.01	1.01	100	0.61

APPENDIX IV - ASSAY RESULTS SUMMARY FOR SOIL SAMPLES (4 Acid Digest - Metals Package ICP/ICP-MS finish)

SAMPLE ID	CLAIM NUMBER	HORIZON	CERTIFICATE NUMBER	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14042	2016808	B	[illegible]	16.2	[illegible]	3.69	15.5	353	1.7	0.09	0.32	0.1	[illegible]	[illegible]	[illegible]	[illegible]	12.4	14	0.86	[illegible]	0.051	1.23	16.6	[illegible]	0.46	1350	[illegible]	0.59	[illegible]	14.4	554	[illegible]	45.6	[illegible]	0.03	[illegible]	9.1	0.8	[illegible]	93.2	0.5	0.09	8.3	0.17	0.33	2.42	71.2	0.7	10.5	46.8	108	0.24
14041	2016808	B	[illegible]	13.1	0.61	4.76	16.9	469	2.22	0.1	0.38	0.17	[illegible]	[illegible]	[illegible]	[illegible]	27.6	15.3	0.82	[illegible]	0.054	1.41	19	[illegible]	0.53	2080	[illegible]	0.83	[illegible]	22.6	510	[illegible]	52.1	<0.002	0.01	[illegible]	9.4	0.8	[illegible]	118	0.58	0.07	10	0.21	0.39	3.06	79.4	0.9	10.3	62.1	96.8	0.23
14040	2016808	B	[illegible]	10.3	0.55	4.87	13.8	498	2.24	0.1	0.44	0.14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15.9	0.75	[illegible]	0.051	1.68	20.1	[illegible]	0.55	1820	[illegible]	0.92	14.5	17.6	514	[illegible]	[illegible]	<0.002	0.03	1.4	9.6	1.1	[illegible]	[illegible]	0.68	0.07	9.4	0.19	0.43	3.15	73.1	1.1	11.4	61.4	111	0.26
14039	2016808	B	[illegible]	9.68	0.56	[illegible]	13.6	472	2.13	0.11	0.43	0.16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16.4	1.15	[illegible]	0.047	1.64	17.3	[illegible]	0.5	1740	[illegible]	0.9	13.8	16	493	[illegible]	[illegible]	<0.002	0.02	[illegible]	9.8	1.1	[illegible]	[illegible]	0.56	0.06	8	0.19	0.38	2.76	69.4	0.8	11	60.9	117	0.24
14038	2016808	B	[illegible]	11.7	1.05	[illegible]	16.2	417	1.99	0.12	0.29	0.13	[illegible]	[illegible]	[illegible]	2.74	[illegible]	17.9	0.72	[illegible]	0.06	1.54	20.4	[illegible]	0.52	1200	[illegible]	0.63	12.9	16.2	785	[illegible]	[illegible]	<0.002	[illegible]	1.62	9.8	0.9	[illegible]	[illegible]	0.69	0.06	10.7	0.24	0.42	2.89	89.3	0.9	11.3	71	113	0.28
14037	2016808	B	[illegible]	13.2	0.4	[illegible]	17.6	417	2.25	0.13	0.27	0.16	40	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.56	2380	[illegible]	[illegible]	14.6	[illegible]	498	15.9	[illegible]	[illegible]	0.03	[illegible]	9.7	[illegible]	[illegible]	87	0.62	0.07	[illegible]	0.19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	79.3	[illegible]	[illegible]
14036	2016808	B	[illegible]	12.3	0.52	[illegible]	17.7	445	2.48	0.13	0.28	0.33	42.9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.64	2410	[illegible]	[illegible]	[illegible]	[illegible]	630	[illegible]	[illegible]	[illegible]	0.03	[illegible]	10.3	[illegible]	[illegible]	86.4	0.67	0.07	[illegible]	0.21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14035	2016808	B	[illegible]	12.3	0.46	[illegible]	17	420	2.06	0.12	0.28	0.19	37.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]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Schefferville, QB
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Date:21/10/2015
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Revised:
Drawing: AO
Scale:Scale Bar
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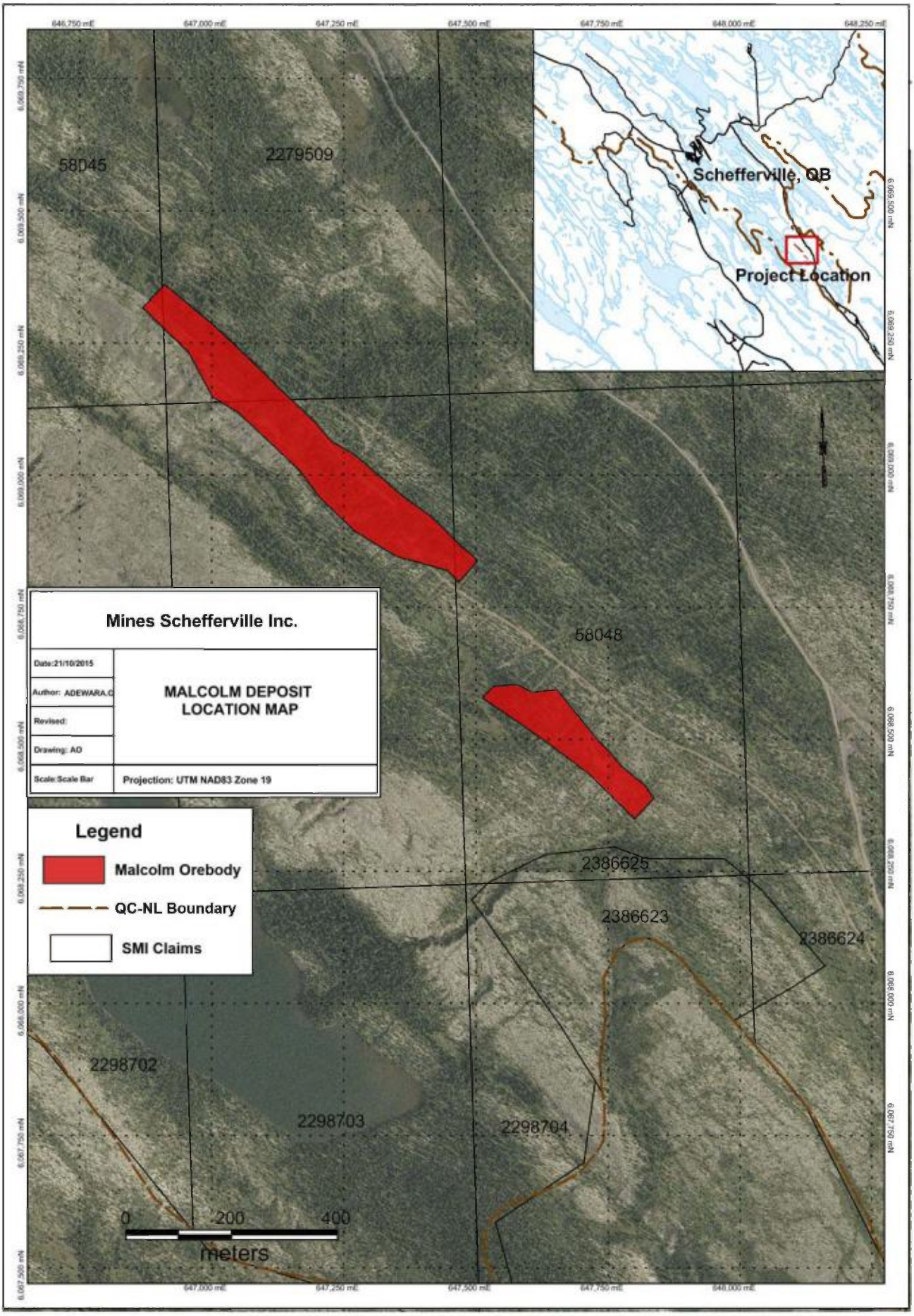
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Date:21/10/2015
Author: ADEWARA.O
Revised:
Drawing: AO
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Legend
Malcolm Orebody
QC-NL Boundary
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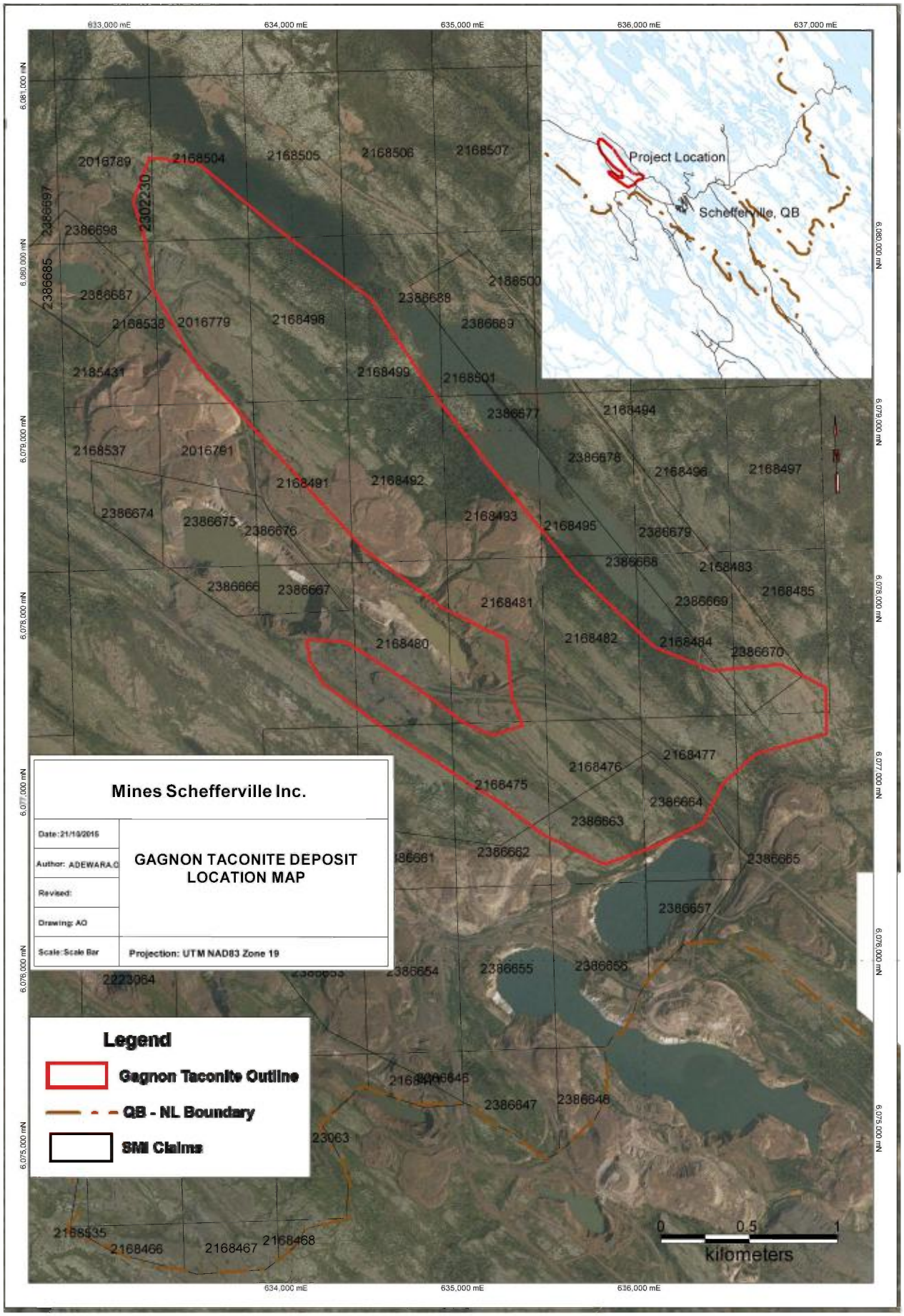
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Mines Schefferville Inc.
Date: 21/10/2015
Author: ADEWARA.O
Revised:
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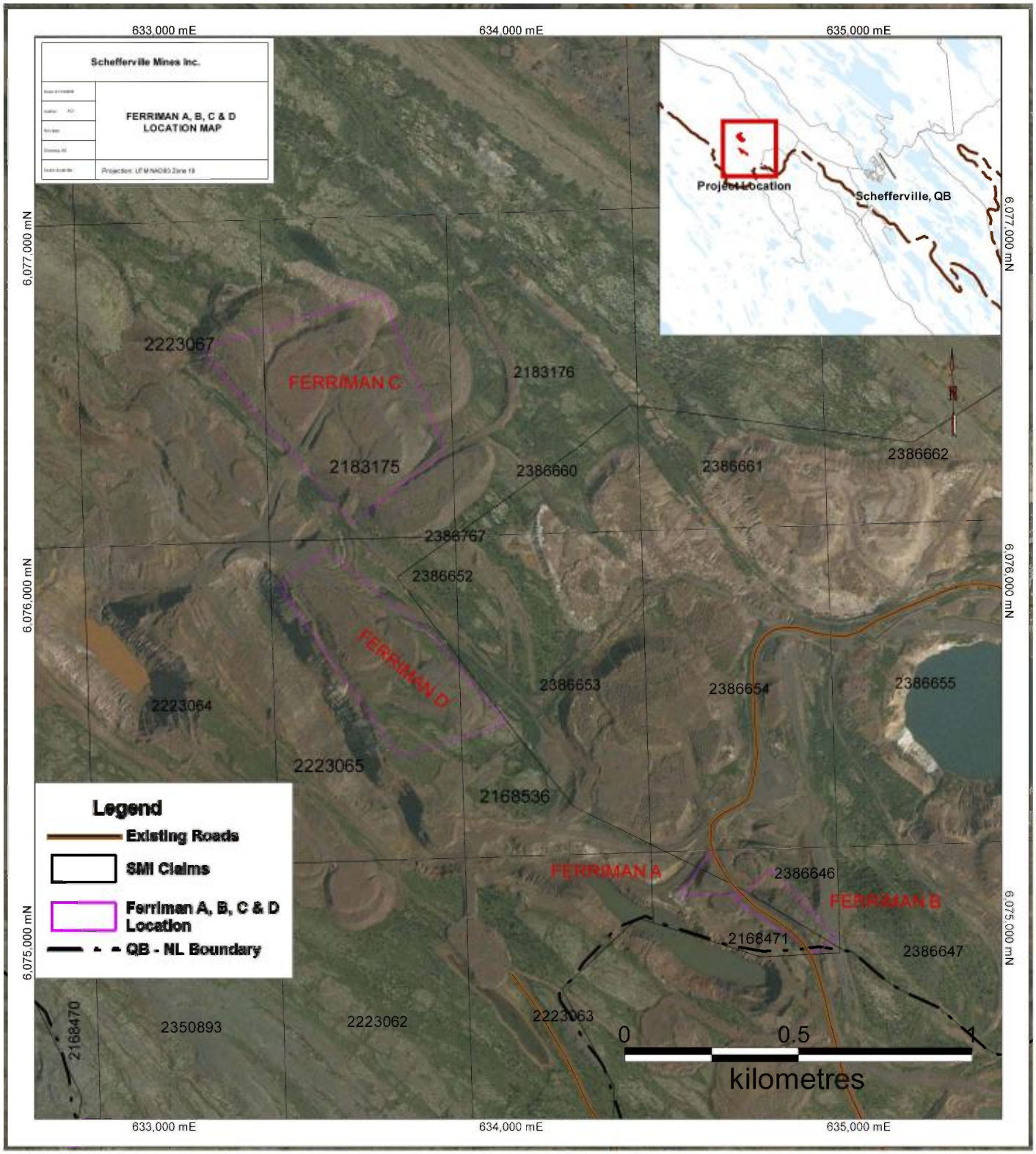
Gagnon Taconite Outline
QB - NL Boundary
SMI Claims


Schefferville Mines Inc.
FERRIMAN A, B, C & D
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Projection: UTM NAD83 Zone 19
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Schefferville, QB
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SMI Claims
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QB - NL Boundary