

GM 71697

2019-2020 exploration activities for the Kivivic No. 1 property

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Assessment Report on



2019-2020 Exploration Activities
for the

Kivivic No. 1 Property

Synthesis and Evaluation of Soil Geochemistry

In Search for Buried Iron Mineralization in the Labrador Trough

Province of Newfoundland and Labrador, Canada

NTS Map Sheets 0230/08 (Nad83)

“CDC” Claim Numbers: 2016806, 2016808, 2168531, 2168532, 2168533

This document was prepared for

Schefferville Mines Inc.

as part of its

“Schefferville Project”

by

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1. EXECUTIVE SUMMARY

Exploration was carried out during August and September 2019 on Quebec Mineral claims CDC 2016806, 2016808, 2168531, 2168532 and 2168533 (Kivivic No. 1 property) as part of a larger exploration program in the area. The author was contracted by Schefferville Mines Inc. to complete a geochemical review of rock and soil analyses along the Labrador Trough to evaluate the effectiveness of using geochemistry to explore for extensions to existing iron deposits and for locating buried high-grade iron mineralization.

The earlier data show a strong correlation between Rare Earth Elements (“REE”) in rock samples. Similarly, although different, REE correlation within the soil data is present but the elements which correlated in the soils are different than those in the rock sample database.

2019 exploration consisted of soil sampling and prospecting on the Quebec mineral claims. During field work a total of nineteen (19) closely spaced (10m) soil samples were collected over part of the mineralized horizons on the Kivivic No.1 property.

Comparative correlation coefficients of sample analyses suggest there is no meaningful geochemical correlation of iron (Fe) in these soils and thus Fe can be used directly as a potential indicator of iron ore. The recce soil line was designed to be nearly coincident, but cross cutting to earlier sampling lines to better test whether more closely spaced samples was beneficial and to compare analytical results from year to year.

The results suggest that soil geochemistry would be very useful at Kivivic No.1. In addition, these results were successful in defining extensions to known mineralization as well as buried iron mineralization. Further exploration is required to determine grades and thicknesses of these new horizons.

Prospecting indicated that iron-rich mineralization is present across the property and further work recommended to more fully evaluate the various lithologies across the five (5) Kivivic No.1 claims.

The effective use of Mobile Metal Ion (“MMI”) geochemistry has also been acknowledged as working well in areas of glaciated terrain. A parallel survey of closely spaced MMI geochemistry is recommended with samples being taken adjacent to selected soil samples. A detailed magnetometer survey and detailed geological mapping are also suggested.

A recommended exploration program for 2020 is \$72,737.50.

2. INTRODUCTION

Schefferville Mine Inc. (“SMI”) originally acquired the Kivivic No.1 iron deposit on May 03 2005. The property is located in the central portion of the Labrador Trough near the western margin (Figure 2-1). The project is defined by five (5) CDC claims on the Quebec side of the Quebec/Labrador provincial border and a single licence (016669M) containing seven (7) contiguous claims on the Labrador side of the border. The Kivivic deposit has measured and indicated resources of 6.68 Mt at a grade of 59.98% Fe. Ore mineralogy is dominated by hematite and goethite ore.

The property is easily accessed via dirt road from Schefferville leading approximately forty-two (42) kilometres in a straight line to the northwest lying adjacent to the main haul road (Figure 2-2) currently controlled by Tata Steel by a manned control/security gate.



Figure 2-1: Regional map showing the location of the Kivivic No.1 iron deposit



Figure 2-2: Northern section of the main haul road near Kivivic No. 1 property

During 2015 and 2016 SMI and affiliated company Labrador Iron Mines Limited (“LIM”) (collectively referred to as the “Company”) carried out rock and soil geochemistry on many of its properties in both Quebec and in Newfoundland and Labrador, in addition to selected geological mapping and high-resolution aerial imaging and topographic elevation modelling. These data had not previously been evaluated in terms of being important tools for identifying either important known or buried iron deposit mineralization.

That work suggested soil data geochemistry could potentially see weak iron anomalies where glacial overburden was thin and should be used to locate buried iron \pm manganese deposits. Furthermore, the aerial surveys were critically important for geological mapping of historical working and for identification of potential environmentally sensitive areas.

Hence, this report further examines the usefulness of soil geochemistry as an important exploration tool at SMI’s properties, and by inference elsewhere through the Labrador Trough. This exploration work tightened up the sample spacing from twenty-five (25) metres to ten (10) metres to improve the resolution of anomalous sample populations and delineation of underlying geological lithologies.

The conclusion reached suggests that in fact soil geochemistry in some areas can be a useful analytical tool.

3. TERMS OF REFERENCE

This document was prepared in part for the purpose of evaluating the Company’s exploration program in 2019-2020, as well as for meeting government assessment reporting requirements. It summarizes 2019

exploration activities related to the Company's Kivivic No.1 iron project based on integration of historical data and characterization of geochemical indicators. The fundamental question addressed was to determine if soil geochemistry on the Kivivic No.1 property could be used to determine the reliability of locating potential new zones of high-grade iron mineralization in the Labrador Trough.

For clarity, and to avoid all forms of doubt, the term "ore" is only referenced in the historical context of iron mineralization and does not necessarily reflect 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 some exploration and mining companies as well as a proper noun in titles, and also as "iron-ore" as it relates to the formational geology. Therefore, this terminology has no meaning beyond its geological reference to enriched 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.

4. RELIANCE ON OTHER EXPERTS

This report was prepared for SMI and all findings, conclusions and recommendation are based on the author's interpretation of information in SMI's possession, including reports, sections and plans from publicly available assessment reports and relevant geochemical data in the Company's files and in the public records.

The author has relied on other publicly available scientific reports and historical documents to describe regional and local geology, mining history and mineralization.

The author has verified the ownership of the mining claims by referring to the online Government of Quebec website mineral lands registry. At this time, no further legal opinion is suggested regarding the status of the Company's mining claims.

5. PROPERTY DESCRIPTION AND LOCATION

Schefferville Mines Inc. properties are in the Labrador Trough in Quebec adjacent to the Quebec/Labrador provincial border and approximately forty-two (42) kilometres northwest of Schefferville, or 580 kilometres north of Sept Iles, QC (Figure 5-1 and Figure 5-2 respectively). The Kivivic No.1 property consists of five (5) CDC mining claims (2016806, 2016808, 2168531, 2168532, 2168533) located approximately thirty-six (36) kilometres south-southeast of the Company's Eclipse mineral and nearly midway between Schefferville and Eclipse (Figure 5-2).



Figure 5-1: General location of Kivivic No.1 relative to Schefferville

The property holdings of the Company have changed somewhat over the years to better accommodate the broader exploration and mining plans of SMI. Figure 5-2 shows what the distribution of mining claims was in 2009 compared to the distribution of mineral claims in 2020 (see Appendix 17).

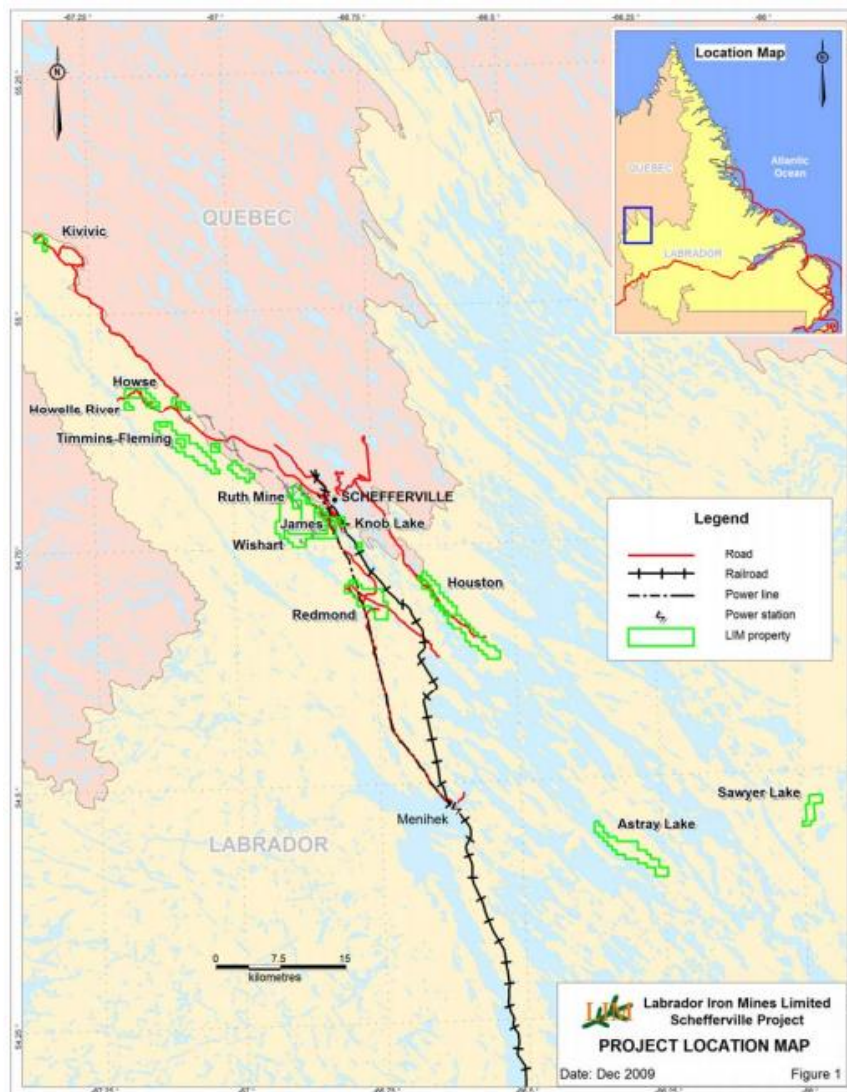


Figure 5-2: Location of SMI/LIM properties within the Labrador Trough (after Vatcher et al. 2009)

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 between Quebec and Labrador is defined at the 'height of the land in the immediate vicinity of the town site'.

5.1. Licence

The Kivivic No.1 property of Schefferville Mines Inc. lies within NTS Map 0230/03, Zone 19 in Quebec, Canada. The property is covered by CDC mineral claims number 2016806, 2016808, 2168531, 2168532, and 2168533. The total area of the licence is approximately 142 hectares. Two (2) of the claims (2016806,

2016808) were issued on June 20, 2006 and are up for renewal on June 19, 2020 whereas the other three (3) claims were issues on July 30, 2008 and are up for renewal on July 29, 2020.

6. ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE, AND PHYSIOGRAPHY

6.1. Accessibility

The airport at Schefferville (CYKL) has one runway (Runway 18 and Runway 36) that is oriented at 171° and 351° respectively and is located at N54°48.19' / W66°48.19'. The magnetic declination at the airport is 20.31°W with a 0.23° annual change. The airport is capable of serving jet aircraft with its recently repaved (2015) runway that measures 1,524.6 metres (5,002 feet) long and 46 metres in width (Figure 6-1, Figure 6-2). The elevation of the runway is 521 metres above mean sea level ("AMSL"). At present, regular scheduled airline service is provided daily by Air Inuit (Figure 6-3) from and to the town of Kuujjuaq (CYVP) to the north of Schefferville and Labrador City/Wabush (CYWK), Sept Iles (CYZV) and Montreal (CYUL – International) located to the south of Schefferville.

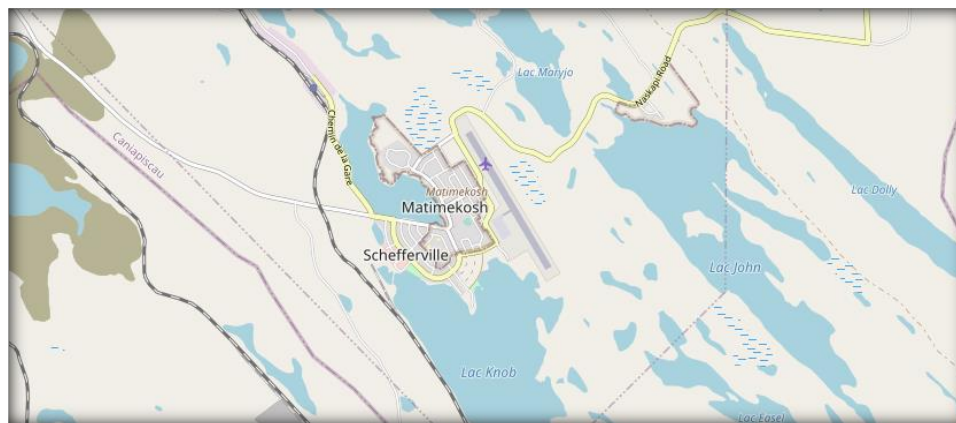


Figure 6-1: Topographic map showing location of Schefferville airport



Figure 6-2: Schefferville airport and runway (CYLK)



Figure 6-3: Air Inuit aircraft used to fly the author between Sept-Iles and Schefferville

6.2. 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 per 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 6-4 and Table 6-1.

Limited rainfall can result in noticeably lower water levels in small ponds located on the claim group. Normal annual precipitation amounts for the area are provided in Photo 6-1, Figure 6-5, Table 6-2.



Photo 6-1: Small pond with typical low water levels in summer and fall seasons

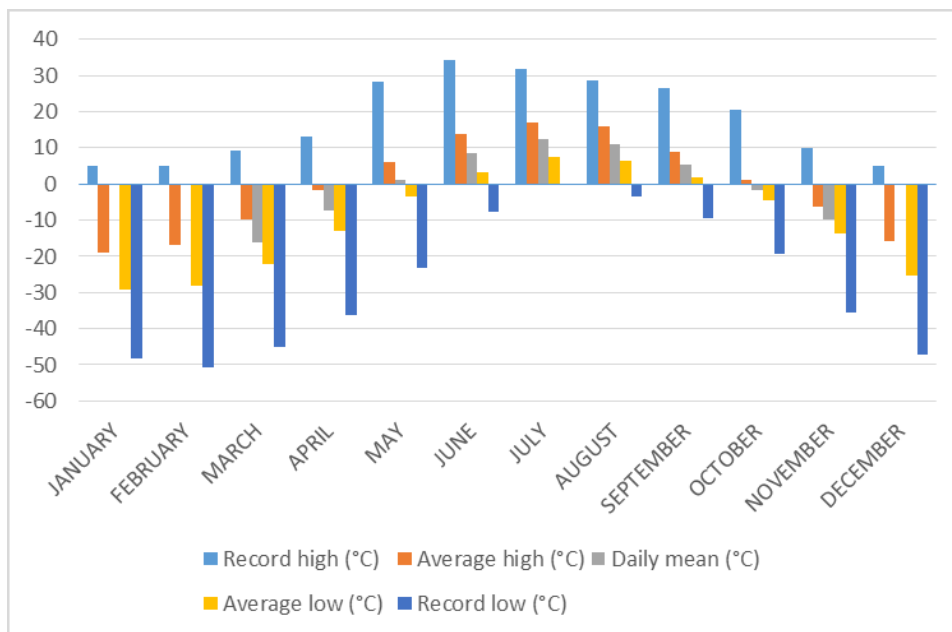


Figure 6-4: Annual temperature data from Schefferville and area

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

Table 6-1: Annual temperature data tabulated for Schefferville and area

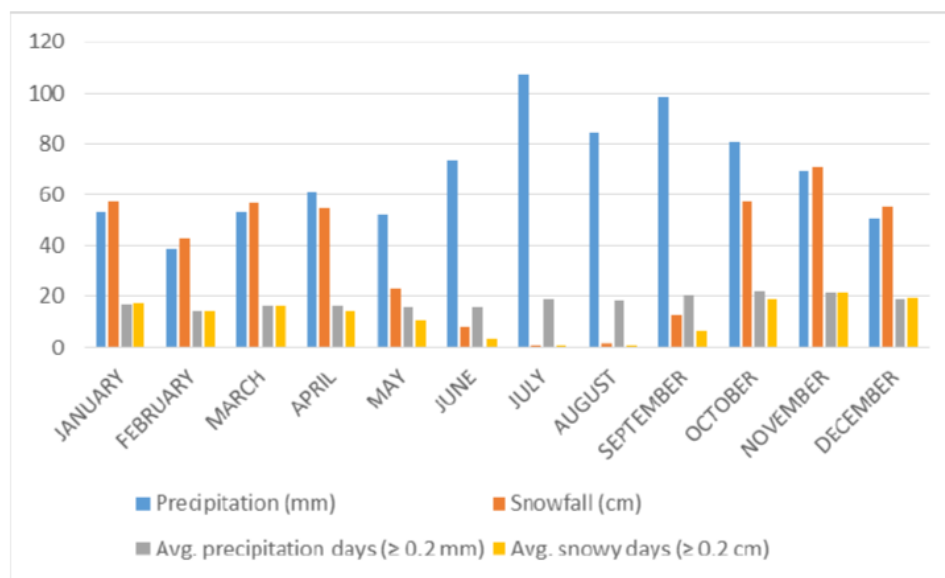


Figure 6-5: Annual precipitation for Schefferville and area

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

Table 6-2: Annual precipitation data tabulated for Schefferville and area

On average, snowfall from November through January exceeds fifty (50) centimetres per month. The wettest summer month is July with rainfall exceeding 100 millimetres on average. A summary of this precipitation data sourced from Environment Canada is provided in Table 6-2.

6.3. Local Resources & Infrastructure

Schefferville is isolated with no roads leading to the town. Mining operations depend heavily on public and privately-owned rail lines to move equipment and product to and from port (Figure 5-2).

The town of Schefferville has a Fire Department with mainly volunteer firemen, a fire station and firefighting equipment. The Sûreté Du Québec Police Force is present in the town of Schefferville and the Matimekush-Lac John reserve. A clinic is present in Schefferville with limited medical care.

A municipal garage, small motor repair shops, a local hardware store, a mechanical shop, and a local convenience store, two (2) hotels, numerous outfitters accommodations are also present in Schefferville.

A modern year-round airport includes a 1524.6-metre-long paved runway and navigational aids for passenger jet aircraft. Air service is provided three times per week to and from Wabush, Labrador, with less frequent service to Montreal or Quebec City, via Sept-Iles. Schefferville is also accessible by train from Sept-Îles.

A community radio station, recreation centre, parish hall, gymnasium, playground, childcare centre and drop-in centre are also present in Schefferville. The Menihék power plant is located thirty-five (35) kilometres southeast of Schefferville. The hydro power plant was built to support iron ore mining and services in Schefferville. Back-up diesel generators are also used on a regular basis to augment the power grid.

Schefferville is accessible by train from Sept-Iles by Tshiuetin Rail Transportation Inc. ("TSH") via QNS&L at Ross Bay Junction. TSH is a company owned by three (3) Quebec First Nations. The mandate of TSH is to maintain the passenger and light freight traffic between Sept-Iles and Schefferville. Train departures from Sept-Iles and Schefferville occur three times a week. The QNS&L was established by IOCC to haul iron ore from Schefferville area mines to Sept-Iles, approximately 568 kilometres to the south, starting in 1954. After shipping approximately 150 million tons of iron ore from the area the IOCC mining operations were closed in 1982, although, as a common carrier, the railroad maintained a passenger and freight service between Sept-Iles, Labrador City and Schefferville up to 2005. In 2005 the IOCC sold the 208-kilometre-long section of the railway between Ross Bay Junction and Schefferville to TSH.

Three (3) other railway companies operate in the area, Arnault Railways between Arnault Junction and Pointe Noire to haul iron ore for Wabush Mines (Wabush), QNS&L for hauling iron concentrates from Labrador City area to Sept-Iles and CRC hauls iron concentrates from Fermont area to Port-Cartier for Quebec Cartier Mining Company. The latter railway is not connected to Arnault, QNS&L or TSH.

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

6.4. Physiography

The topography of the Schefferville mining district is bedrock controlled with the average elevation of the properties varying between 500 metres and 900 metres above sea level. Terrain in the Schefferville area is generally gently rolling to flat, sloping north-westerly, with a total relief of approximately 50-100 metres (Photo 6-2).



Photo 6-2: Typical surface topography in the Labrador Trough (Kivivic No.1 is located on the horizon in the distant center of the photo)

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. Topographic highs in the area are characterized by resistant quartzite, chert and silicified horizons of the iron mineralized formations. Topographically low areas are commonly underlain by softer siltstones and shales.

The area is generally mountainous with flat rolling hilltops with moderate vegetation. Several short streams and a few small lakes are present, and the ground is often covered with shrubs and grass. Bedrock is well exposed in many areas but is generally covered by thin glacial till with a surface cover of small shrubs, rare stunted softwood tree and low bushes (Photo 6-3). Where present, lakes are often shallow and have occasional scattered boulders present in the general area.



Photo 6-3: Distribution of outcrop exposures in the Labrador Trough

7. HISTORY

The following is a brief chronological summary of exploration activities relevant to SMI/LIM properties in the Labrador Trough.

7.1. 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. During 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.

7.2. 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.

7.3. 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.

7.4. 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.”

7.5. 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.

7.6. 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 consisting of stripping and trenching (12 trenches totally over 601 metres in length), chip sampling and twenty-five (25) Airtrac drill holes.

In addition, an 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 metres long and nine (9) metres width, grading up to 25% manganese with an approximate ratio for Mn : Fe estimated at 1:1 and, Zone No.2 measuring 183 metres long and nine (9) metres in width, grading 16.2% manganese and having 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.

7.7. 2008 – Gravhaven Manganese Inc.

During 2008, an exploration program was carried and later summarized in an assessment report (October 30th, 2009) by MRB & 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 held by Gravhaven.

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

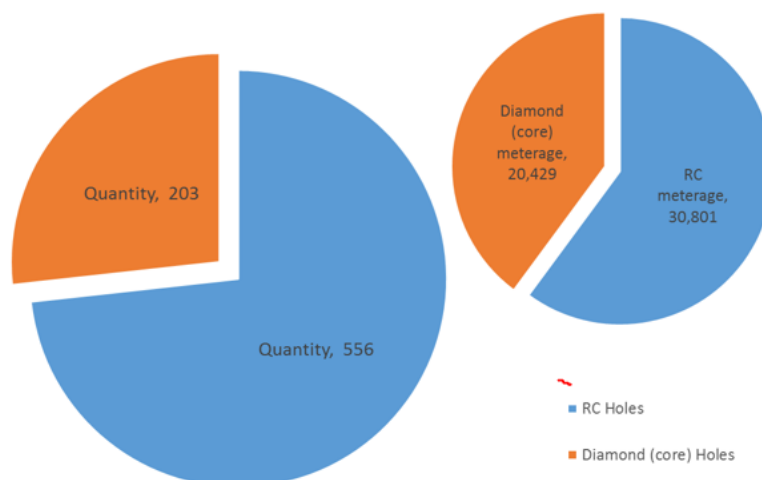
A local contractor was hired to excavate forty-two (42) trenches that varied from 0.5 to 2.5 metres in depth. A total of 1,042 grab samples were collected in the excavated trenches which totaled 1,672 metres in length.

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.

7.8. Exploration by Schefferville Mines Inc. /Labrador Iron Mines Limited (2005 to 2013)

SMI and LIM were 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 continues 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 (Table 7-1).



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

Table 7-1 - Summary of Exploration Work by SMI and LIM

7.9. 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 fifty-four (54) kilometres southeast of the town of Schefferville. The geologists flew into 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 like 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.

7.10. 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.

7.11. 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.

7.12. 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.

7.12.1. 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.

7.12.2. 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.

7.12.3. 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 crushing and screening activities were carried out. The bulk 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. In addition, representative samples weighing approximately two (2) kilograms per sample were collected from each product and sent to SGS Lakefield laboratories for comparative check 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 as bulk reference sample.

7.12.4. 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.

7.12.4.1. Drilling

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

7.12.4.2. 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.

7.12.4.3. Resource Estimation

The 2008 and 2009 exploration programs were carried out for the purpose of confirmation and validation of the historical resources reported by IOCC. LIM 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.

7.12.5. 2010 Exploration Program

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

7.12.5.1. Drilling

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

7.12.5.2. *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.

7.12.5.3. *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.

7.12.6. *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.

7.12.6.1. *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.

7.12.6.2. *Trenching*

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

7.12.6.3. *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 increases 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.

7.12.7. 2012 Exploration Program

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

7.12.7.1. 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.

7.12.7.2. 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.

7.12.7.3. 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.

7.12.8. 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 7-2.

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.

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

Table 7-2: Summary of 2013 drill program

7.12.9. 2015 Exploration Program

During a two-week period in July 2015, a combined geology, soil geochemistry, and aerial surveying exploration program was undertaken on the Schefferville Project. 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 IOCC for which there is limited data. Past exploration test pitting, trenching and RC drilling was surveyed in UTM coordinates, orientation and dimension. Ortho-rectified digital geo-TIFF imagery was collected over five (5) claims held by SMI. Topographic maps were produced at five (5) meter interval elevation contour lines. An ASCII digital elevation model was also generated.

Rock sampling was conducted at sites for the purposes of geological characterization of the lithologies present on the Company's exploration claims. Whole rock assay samples were collected from selected sample locations. In addition, petrographic analysis thin section, reflected and transmitted light was carried out on a selection of samples. In areas with limited to no outcrop availability, several lines of soil sampling were conducted to assess the subsurface geology. Finally, several IOC test pits and trenches were sampled during the exploration program because LIM did not have any corresponding lithochemical information.

It was recommended that additional claims be investigated at a similar resolution in proximity to known deposits, in addition to surveying the remaining portions of the subject claims with high resolution aerial imagery for complete coverage. It was determined that a phased approach to develop an accurate geological and stratigraphic understanding of the subsurface geology on the Company's claims should be undertaken in those areas not currently known to host major deposits. This work includes but was not limited to soil ($n=58$) and rock sample geochemistry ($n=5$) at the Kivivic No.1 deposit.

7.12.10. 2016 Exploration Program

Work on selected LIM properties resumed in September 2016 to advance the initial 2015 phased initiative of mapping, surveying, and sampling on additional claims not examined in 2015 by SMI. Work included soil sampling along selected traverse lines and isolated rock geochemistry on grab samples from either bedrock in each pit/trench or rubble lying along the margins of excavated pits and trenches. High resolution aerial imagery of selected areas was also carried out, but the Kivivic No.1 deposit was not included in this phase of the exploration program.

7.13. Recent

Although mining has not occurred on the Kivivic No.1 property located in Quebec, it has occurred in the Labrador portion of the deposit. Here, Tata Steel recently excavated an open pit along the southeastern portion of the deposit on Tata's mineral licence. This northern limit of the pit is located approximately 100 metres southeast of Labrador Iron Mines licence, which lies immediately adjacent to the SMI's Kivivic No.1 claims to the north.

8. GEOLOGICAL SETTING AND MINERALIZATION

8.1. Geological Setting

The Labrador Trough is a 1,600-kilometre long and 100-kilometre wide geological structure extending south-southeast from Ungava Bay on the north through Quebec and Labrador and southwestward into central Quebec (Figure 8-1). 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 LIM in 2006. Numerous hematite-goethite iron deposits have been discovered in an area measuring twenty (20) kilometres wide and extending 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 with the iron mineralized "ore" content of individual deposits varying from one (1) million to more than fifty (50) million tonnes.

The Kivivic No.1 property is located approximately six (6) kilometres to the east of the western margin of the Labrador Trough which is juxtaposed 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 that can be divided into three distinct sections based on changes in lithology and metamorphism as, (a) North, (b) Central and (c) 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-rich formation (i.e., Sokoman Formation) is part of the Knob Lake Group and forms a continuous stratigraphic unit that thickens and thins from sub-basin to sub-basin throughout the fold belt (Figure 8-1, Figure 8-2, Figure 8-3).

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 like those in the Knob Lake Range. A generalized map showing the location of the Schefferville Project with respect to the Churchill Province within the Labrador Trough is provided in Figure 5-2, Figure 8-1 (in this figure, the Schefferville Project is labelled as the Labrador West Project, which is the same project area at this scale).

The Labrador Trough contains four main types of iron deposits:

- 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),
- Taconites, the fine-grained, weakly metamorphosed iron formations with above average magnetite content and which are also commonly called magnetite iron formation,
- More intensely metamorphosed, coarser-grained, iron formations, termed meta-taconites contain specular hematite and subordinate amounts of magnetite as the dominant iron minerals,
- 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.

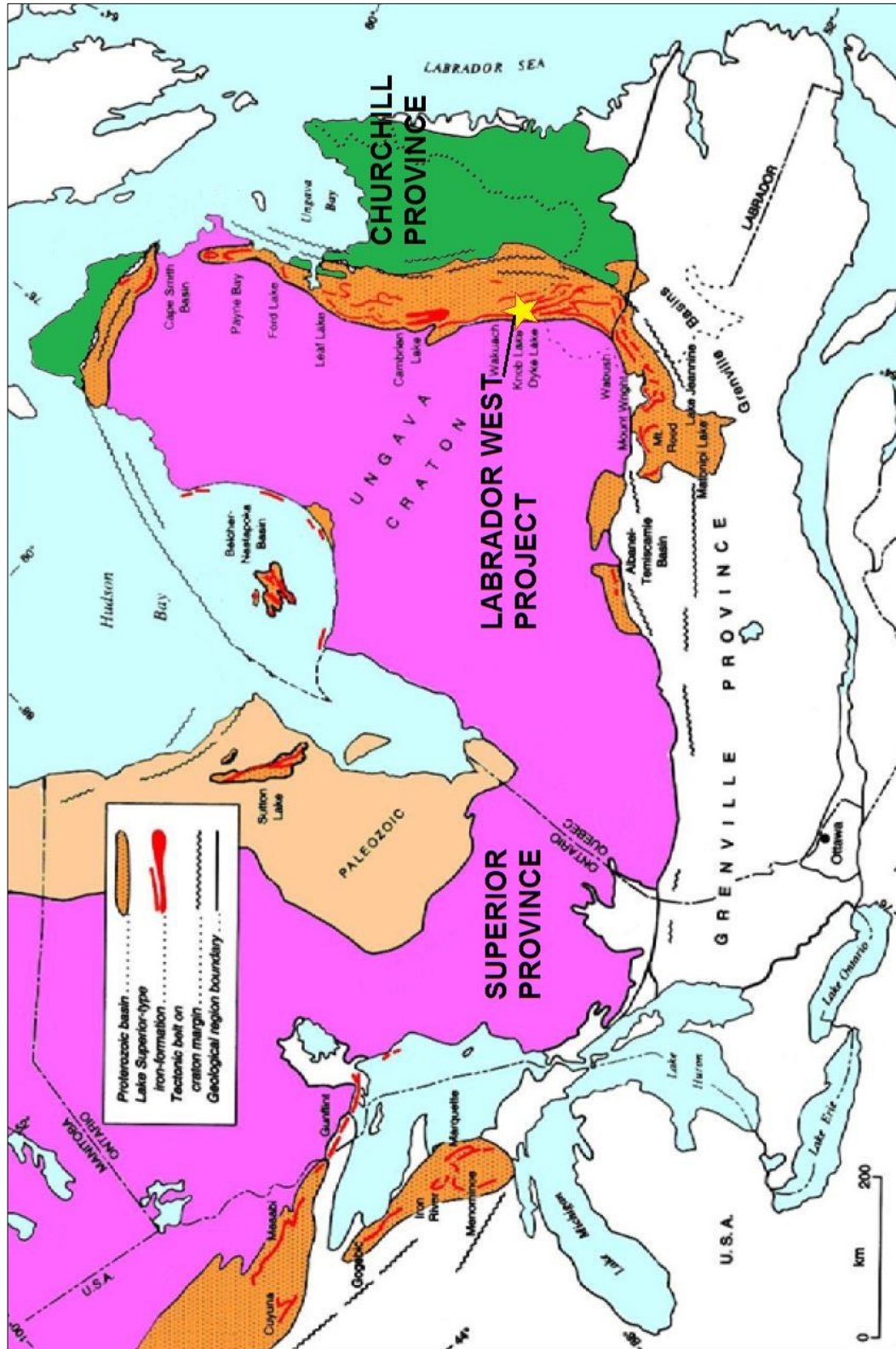


Figure 8-1 – Simplified Map of Geological Provinces in Quebec and Labrador

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 carbonaceous shale. <i>NOTE: Zajac (1974) redefined the Ruth Formation, located between the Wishart and Sokoman formations as part of the Sokoman Formation.</i>
			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	

Figure 8-2: Regional stratigraphic column for the western Labrador Trough

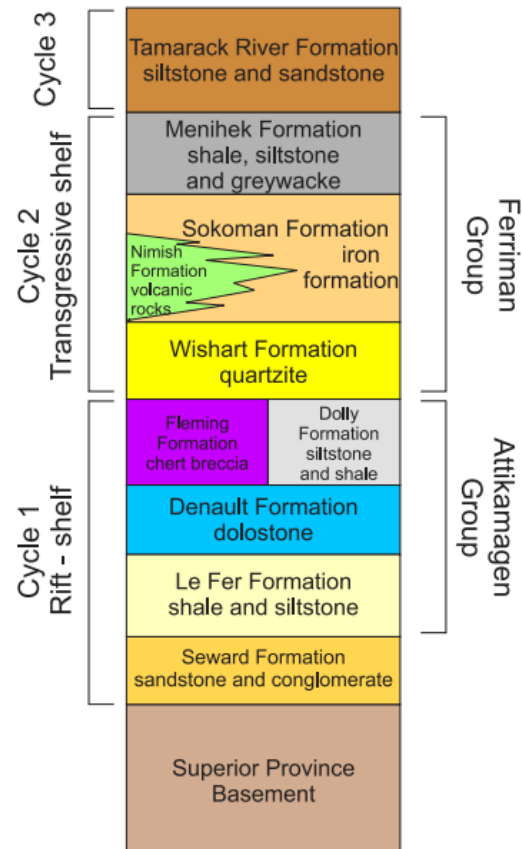


Figure 8-3: Simplified stratigraphy of the Kaniapiskau Super-group (after Conliffe, 2016)

8.2. 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 (from oldest to youngest).

8.2.1. Attikamagen Formation

The Attikamagen Formation is exposed in folded and faulted segments of the stratigraphic succession where it varies in thickness from thirty (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.

8.2.2. 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 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.

8.2.3. 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.

8.2.4. 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.

8.2.5. 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.

8.2.6. 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, slaty 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 ($(\text{Fe}^{2+}, \text{Mg})_3\text{Si}_4\text{O}_{10}(\text{OH})_2$) 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 centimetres 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 another ferruginous carbonate (analysis pending). Bedding is discontinuous and the rock contains much less iron than the lower part of the formation.

8.2.7. 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.

8.3. Mineralization

Mineralization at Kivivic No.1 is dominated by blue ore consisting of hematite and goethite. The deposit is reported to contain a total estimated tonnage of 6.68 Mt of 59.98% Fe. Most recent mining at the Kivivic deposits was by Tata Steel who develops a small open pit on the Labrador side of the provincial border approximately four (4) kilometres south-southeast of the Glenwood iron deposit.

In total, more than eighty (80) high-grade iron-ore deposits have been recorded in the Labrador Trough “Ore Zone Area”, and numerous other zones of altered and enriched iron formation are also present. The size and grade of iron-ore occurrences varies greatly, ranging from small pockets of altered iron formation to large deposits with > 30 Mt of iron ore at > 55% Fe. They are concentrated in a broadly linear belt up to twelve (12) kilometres wide, which stretches for over 100 kilometres from the Red Dragon deposits approximately twenty (20) kilometres south of Schefferville, to the Eclipse deposit about eighty-five (85) kilometres northwest of Schefferville. This study concentrates on exploration at the Kivivic No.1 deposit claims (Figure 5-2). This deposit shares similar characteristics as described above in general and in detail as outlined below, however there are local variations in the mineralogy, stratigraphy and structural setting for each individual ore body.

In contrast to the hard, hematite-rich iron-ore deposits in the Eastern Zone (see Conliffe, 2015), iron-ore deposits in the Kivivic ore zone area is mainly soft friable ore, along with minor hard ore (Stubbins et al., 1961). Three main types of high-grade iron ore have been described above for these deposits; commonly referred to as blue, yellow and red ores (Stubbins et al., 1961; Gross, 1968). Several authors (e.g., Dupéré, 2014) describe Mn-rich ore type in some associated deposits. These ores are commonly stratigraphically controlled and original bedding and sedimentary structures are well preserved indicating that those three

ore types formed in-situ as alteration products due to the leaching of gangue minerals and enrichment in iron. A detrital iron deposit, referred to as rubble ore (Stubbins et al., 1961; Gross, 1968), was previously mined in five deposits in the Ruth Lake and Redmond areas, and represents surficial detrital deposits that formed proximal to exposed and eroding high-grade iron-ore deposits.

8.3.1. Blue Ores

Blue ores are the most common type in the Ore Zone, making up > 60% of the ore-grade material (Stubbins et al., 1961). They often grade into low-grade (< 45 wt. % Fe) altered oxide-facies of the Middle Iron Formation along strike (Gross, 1968), although the contact between blue ore and the Sokoman Formation protolith is occasionally sharp, and hard blocky ore has been recorded near the contact (Stubbins et al., 1961).

Blue ore is generally fine- to medium-grained, friable and highly porous (average 31% porosity). Iron-ore deposits outcropping at the current exposure level commonly have a hard cap of goethite-rich iron ore known as a duricrust, which is a product of recent weathering (Stubbins et al., 1961).

The blue ore is predominantly composed of fine-grained friable blue hematite, and variable amounts of goethite, martite, red hematite, Mn-oxides and minor quartz and magnetite (Stubbins et al., 1961). Individual granules commonly retain the oolitic nature of the proto-ore, and hematite and martite grains are commonly overgrown by secondary hematite and goethite (Gross, 1968). Large vugs and pores are often filled by vitreous goethite and Mn-oxides. Lenses and beds of hard, porous, blue ore are observed in some deposits, and consist either of hematite fragments cemented by goethite or beds of massive hematite separated by goethite and silica-rich bands. Massive hematite consists of fine-grained, microplaty hematite and is generally limited to thin bands (< 10 cm), although significant thicknesses (< 2 m) of hard hematite-rich ore have been locally recorded (e.g., Red Dragon deposit). Friable and altered quartz veinlets crosscut blue ore in some deposits (Stubbins et al., 1961).

8.3.2. Yellow Ores

Yellow ores are most common in the Lower Iron Formation and form due to the leaching and enrichment of the Fe-silicate and carbonate-rich iron formations. Some silicate and carbonate-rich units in the Middle Iron Formation are also altered to yellow ore. The yellow ores display transitional contacts with iron formation protolith, with contact zones defined by leaching of carbonates and silica and transformation of Fe-silicates, such as minnesotaite, to goethite (Stubbins et al., 1961). The characteristic yellow colour of this ore type is due to the high content of ochreous goethite (limonite), with lesser amounts of red earthy hematite and martite and minor quartz. Yellow ores are generally very soft and sandy, and the high phosphorous and moisture content, along with lower Fe grade (approximately 50% Fe) of the ores, means that they require beneficiation to produce a saleable product (Journeaux et al., 2010; Dupéré, 2014).

8.3.3. Red Ores

Red ores are mainly composed of red earthy hematite and goethite and contain variable amounts of clay minerals and fine-grained quartz. The amount of red ore in individual deposits varies widely, and in some deposits, it makes up most of the ore-grade material (e.g., Fleming 7 deposit). Red ores are common at

the base of the iron formation, and grade along strike into Ruth Formation protolith (Stubbins et al., 1961; Gross, 1968). The high aluminum content of the red ores, coupled with complex intergrowth of hematite and aluminous clay minerals, make beneficiation difficult (Gross, 1968).

8.3.4. Rubble Ores

Rubble ores have been recorded in five iron-ore deposits in the Ruth Lake and Redmond areas, but no examples of rubble ore have been identified in the Kivivic or Timmins areas. All in-situ examples of rubble ore were mined out during the IOCC's mining operations, therefore, descriptions of the setting of this ore type are based on Stubbins et al. (1961) and samples collected from stockpiles. The ore consists of angular to sub-rounded fragments ranging in size from < 1 cm to tens of metres, and are cemented by goethite, manganese oxides, quartz and ferruginous clays.

In the Redmond 1 deposit, the rubble ores are interbedded with a lacustrine clay unit that contains numerous fossil leaves and insects thought to be Cretaceous (Blais, 1959; Dorf, 1967).

8.3.5. Mn-rich Ores

Pockets of Mn-rich (> 5% Mn) ores are common in some deposits as well as in the stratigraphically lower Wishart and Fleming formations. This ore type is rich in Mn-oxides and hydroxides such as pyrolusite and hollandite (Stubbins et al., 1961), and all known enrichments of Mn oxides are associated with structural discontinuities (e.g., fault, well-developed cleavage, fracture-zones; Dupéré, 2014). Although NI 43-101 resource estimates have been developed for two Mn-rich deposits (Dupéré, 2014), none have been mined in the Labrador Trough, and the presence of high contents of Mn in some iron ores requires beneficiation and blending for processing.

8.4. Structural Setting of High-Grade Iron Ore Deposits

Although there are variations in the individual structural settings of high-grade iron-ore occurrences in the Labrador Trough Ore Zone, there is a strong structural control on the distribution of all known ore bodies (Gross, 1968; Krishnan, 1976). Most of the structural deformation in the area is associated with the Hudsonian Orogeny (1.82 to 1.77 Ga), with compression occurring along a northeast–southwest axis (Harrison et al., 1972; Krishnan, 1976). This compression initially folded the sediments into a series of tight to open synclines and anticlines, with second order drag folds locally common (Krishnan, 1976). This was followed by the development of a series of high-angle reverse faults, generally dipping to the northeast (Harrison et al., 1972), which strike subparallel to the general strike of bedding and repeating the stratigraphic sequence.

Most of the high-grade deposits occur in synclines or homoclines that are usually terminated on the northeastern side by high-angle reverse faults known as boundary faults (Krishnan, 1976). The synclines vary in style, from broad, open, gently plunging synclines (e.g., Goodwood, Kivivic No.4, Wishart No.1), to tight, steeply dipping synclines (e.g., Kivivic 3), and to complexly folded synclines that record at least two generations of folding (e.g., Timmins 4). However, these synclinal structures extend beyond the ore bodies, and with grade and alteration, decreasing along strike in the same structure. Recent drilling by Tata Steel in the Timmins area shows that the iron formation between the Timmins 4 and Timmins 1

deposits (along strike in the same synclinal structure) consists of strongly oxidized and altered hematite and quartz with little secondary enrichment. In addition, Gross (1968) reported that the iron formation along strike from the Wishart 1 deposit grades from high-grade ore to partially leached and altered iron formation to iron formation protolith within the same synclinal structure.

This indicates that although these structures may have been important in focusing later fluid flow associated with secondary enrichment, they are not the primary control on the distribution of ore bodies.

Krishnan (1976), recorded swarms of near vertical fractures in some deposits, which run almost perpendicular to the strike of bedding. In the Timmins area, located south of the Kivivic No.1 claims, ore bodies are located where these fractures crosscut synclinal structures, with the lateral extent of the deposits locally dictated by the width of the fracture system. These fracture swarms postdate the main stage of Hudsonian deformation, and Krishnan (1976) speculated that they may be related to block faulting in the underlying Archean basement rocks.

Several deposits have also been affected by a later extensional deformation event. This extensional event has only been recorded in the Ruth Lake and Redmond areas, where normal faults have been identified in five deposits (Gross, 1968). These normal faults occur at high angles to the strike of the iron formation, and they roughly parallel the fracture swarms noted by Krishnan (1976). During this late extensional event, grabens and half-grabens formed, into which eroded fractions of the exposed iron formation in the footwall blocks were deposited, forming detrital iron deposits (i.e., rubble ores) that include large blocks (up to 10 m) of iron ore (Stubbins et al., 1961). Therefore, this extensional event must have postdated the main period of iron-ore formation and the fossil record gives some minimum age constraints. The rubble ores contain fragments of fossilized wood thought to be Mesozoic (Blais, 1959).

Satellite imagery and lineament examination suggest there may be a significant bedding-parallel dislocation surface immediately west of the main trend of Kivivic iron deposits. It is uncertain how this structure may have affected the development of the high-grade mineralization at Kivivic No. 1.

9. DEPOSIT TYPES

Basic types of ore mineralization are discussed above. In addition, potential mechanism for high-grade ore formation was suggested by Krishnan (1976) and Conliffe (2016). The size of selected deposits is reported below (Table 9-1).

General locations of iron ‘ore deposits’ in this area is shown in Figure 9-1, Figure 9-2.

Deposit	Province	Status	[Measured + Indicated]		Inferred Mt	% Fe
			Mt	% Fe		
Bean Lake	NL	Prospect			0.21	53.21
Denault	QC	Prospect	4.67	54.73		
Ferriman 4	QC	Prospect	9.36	55.37	2.08	53.78
Fleming 7N *	NL	Active Mine	6.57	61.03		
Goodwood	QC	Prospect	36.00	59.05	0.82	53.32
James	NL	Dormant Mine			0.23	52.77
Kivivic 1C *	NL	Active Mine	6.68	59.98		
Kivivic 2 *	NL	Active Mine	13.38	61.06		
Kivivic 3	NL	Prospect	1.75	60.70	1.94	58.97
Kivivic 4	NL	Prospect	7.54	58.26	0.60	59.11
Kivivic 5	NL	Prospect	8.75	60.34		
Knob Lake 1	NL	Prospect	5.08	54.71	0.64	51.78
Redmond 2B	NL	Dormant Mine	0.52	59.07	0.03	57.19
Redmond 5	NL	Prospect	1.58	55.03	0.06	52.33
Sunny 1	QC	Prospect	3.56	58.96	0.75	54.88
Timmins 3	NL	Active Mine	2.15	59.67	0.49	59.70
Timmins 4 *	NL	Dormant Mine	2.13	60.54		
Timmins 7	NL	Prospect	0.94	58.38		
Total			110.66	58.55	7.84	55.19

* Resource estimate compiled prior to recent mining

Table 9-1: Published ore resources for selected deposits in the Labrador Trough data from New Millennium Iron Corp and Labrador Iron Mines Limited, compiled from www.sedar.com (after Conliffe, 2016)

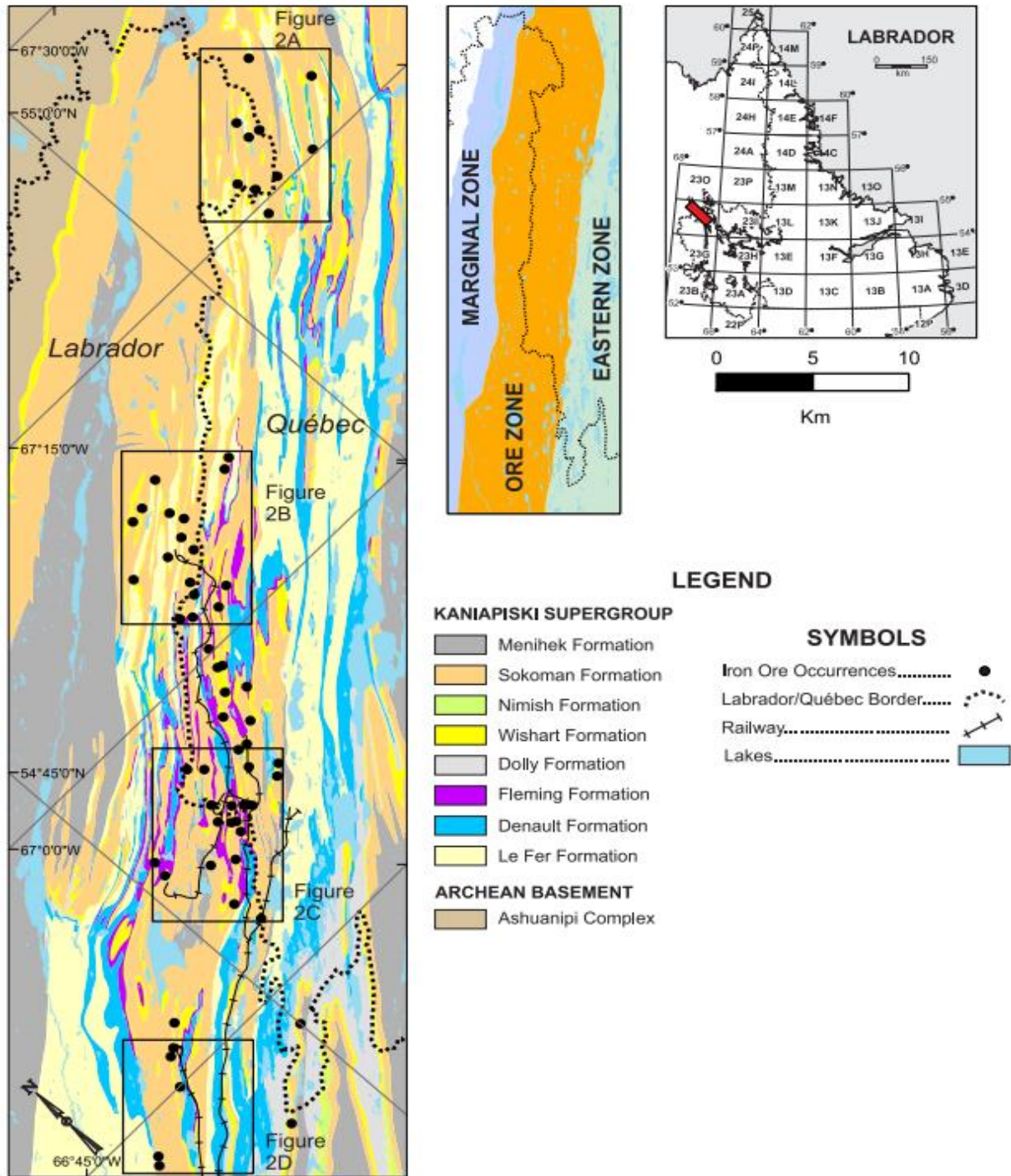


Figure 9-1: Regional geology and location of high-grade iron-ore deposits (modified from Wardle 1982a, b). Inset map shows location of Marginal, Ore, and Eastern zones of Harrison et al. (1972).

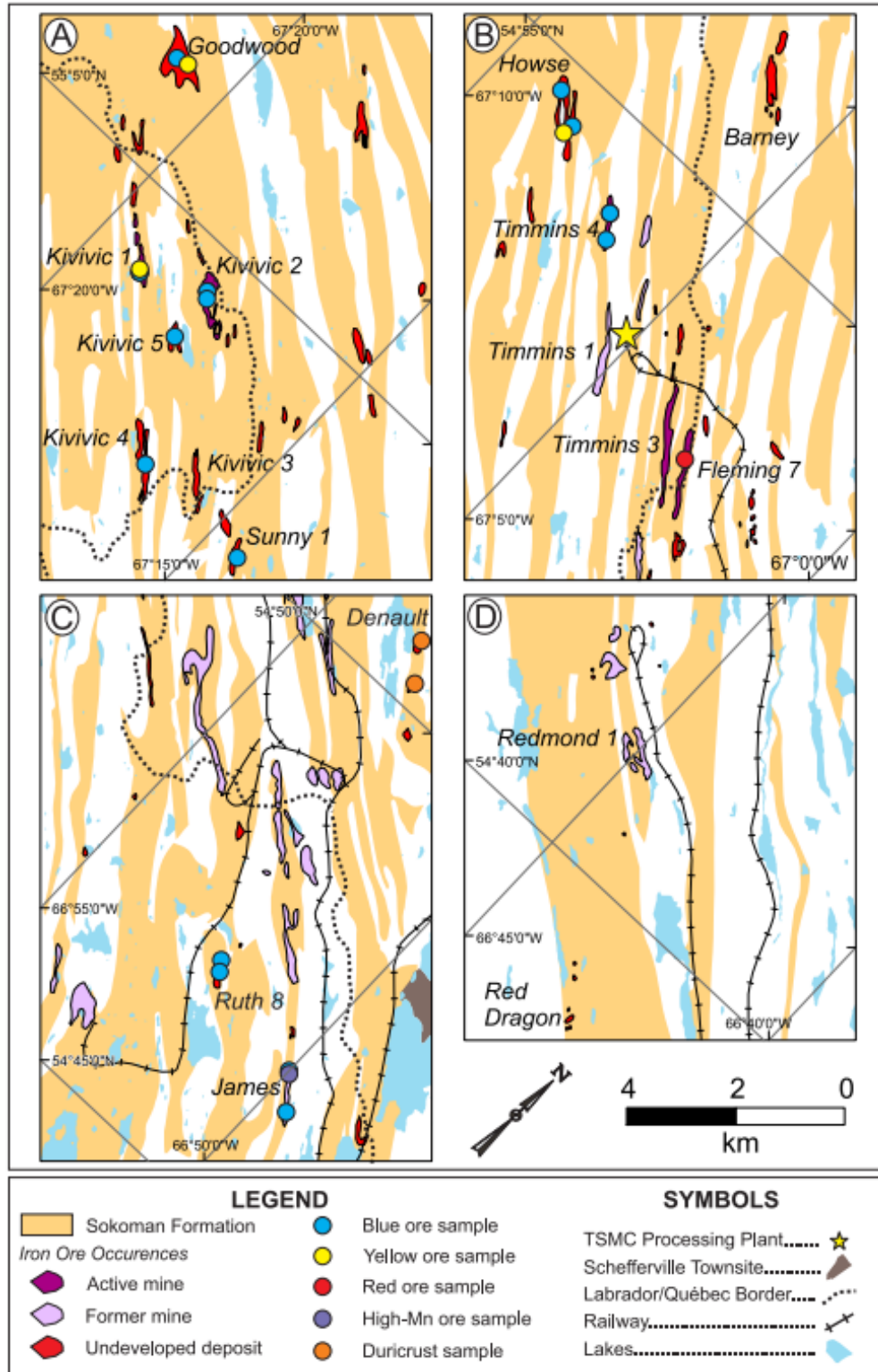


Figure 9-2: Simplified geological showing Sokoman Formation, and high-grade iron-ore deposits; (A) Kivivic, (B) Timmins, (C) Ruth Lake, (D) Redmond

10. 2019-2020 EXPLORATION

Following a review of rock and soil geochemistry data of the Company's database to evaluate the potential significance for determining a correlation between rocks and soils to locate hidden iron deposits in the Labrador Trough, a follow-up soil sampling program was recommended on the Kivivic No.1 property. Schefferville Mines Inc. undertook a further investigation for the effectiveness of closely spaced soil geochemistry compared to more conventional sampling techniques. The program consisted of a single transect line of nineteen soil samples collected at ten (10) metre spacing along an east-west line on the Quebec claims. This line was designed to intersect previous soil sample lines but also to obtain new data away from those lines. These new analyses were compared to a previous soil sampling program where samples were taken at twenty-five (25) metre stations (see Appendix 17).

In addition, reconnaissance prospecting and geological investigation was completed along all five (5) CDC claims to evaluate next steps for future exploration programs in the area. Parts of the property have well exposed bedrock geology with common structural features.

Although no rocks were analyzed during SMI's 2019-2020 field program, the reader is referred to earlier 2013 to 2017 surveys (Odewande, 2015; Batson, 2017) for geochemical information on rock geochemistry. Average rock data for various ore types in the area is also presented by Conliffe, 2016 and is summarized below in Table 10-1.

n	Blue Ore		Yellow Ore		Red Ore	High Mn Ore	Duricrust		Average MIF protolith		Average Ruth protolith	
	17		3		1	1	2		14		5	
	Av	StDev	Av	StDev			Av	StDev	Av	StDev	Av	StDev
SiO ₂ (wt %)	3.0	2.9	5.0	5.0	2.6	0.6	4.9	3.8	47.1	14.7	50.3	7.4
Al ₂ O ₃	0.4	0.5	0.8	0.2	1.9	0.3	0.2	0.1	0.1	0.0	8.9	5.0
Fe ₂ O ₃	93.9	3.4	87.3	3.6	88.0	82.6	84.6	1.3	49.2	15.4	22.0	8.0
Fe	65.7	2.4	61.1	2.6	61.6	57.8	59.1	0.9	34.4	10.7	15.4	5.6
MgO	0.03	0.02	0.05	0.03	0.01	0.03	0.02	-	1.30	1.34	1.52	0.65
CaO	0.03	0.02	0.05	0.02	0.03	0.02	0.02	0.00	0.11	0.16	0.10	0.07
Na ₂ O	0.05	0.03	0.07	0.03	0.02	0.04	0.02	0.01	0.06	0.03	0.09	0.06
K ₂ O	0.05	0.04	0.08	0.05	0.02	0.35	0.04	-	0.09	0.04	4.14	4.11
TiO ₂	0.04	0.05	0.03	0.01	0.22	0.01	-	-	0.01	0.00	0.98	0.74
MnO	0.2	0.1	0.2	0.1	0.1	11.3	0.1	0.0	0.4	0.5	0.6	0.7
P ₂ O ₅	0.07	0.04	0.10	0.09	0.20	0.01	0.16	0.17	0.02	0.01	0.20	0.15
LOI @ 1000°C	1.7	1.0	6.5	1.2	5.8	3.4	9.7	1.7	2.2	2.1	10.5	2.4
LOI @ 400°C	1.0	0.8	4.8	1.1	1.4	1.4	7.6	1.4	-	-	-	-
Rb (ppm)	4.5	2.5	4.4	1.7	2.7	12.2	1.5	-	4.9	1.7	64.7	55.7
Sr	10.5	18.4	4.9	3.6	182.5	39.2	0.9	-	2.8	1.5	15.3	11.6
Ba	37.1	55.5	23.1	20.7	39.5	672.1	1.8	0.5	17.0	19.3	314.6	298.5
V	22.8	12.1	18.2	8.2	139.6	10.9	14.3	9.5	15.8	5.2	224.7	91.5
Cu	5.9	2.6	12.0	3.1	5.5	26.5	12.0	7.0	6.1	2.0	22.8	13.1
Zn	36.3	5.7	41.9	5.0	53.2	36.5	55.0	3.9	24.9	7.9	48.6	26.2
Y	7.3	4.4	7.0	4.7	13.8	15.0	8.3	6.4	8.7	11.1	34.7	22.5
Zr	35.5	22.2	33.6	1.7	67.9	24.2	13.7	0.2	14.0	7.0	289.2	256.1
Nb	6.7	5.5	4.7	2.9	18.1	3.7	2.6	0.9	3.0	1.2	69.6	61.1
La	6.3	7.2	2.5	2.9	43.7	11.1	4.5	3.2	4.0	3.3	62.9	41.2
Ce	13.8	10.3	12.1	16.0	78.7	54.3	21.6	13.0	5.3	2.7	118.1	88.0
Pr	1.2	1.3	0.5	0.5	8.3	2.9	1.2	0.6	0.8	0.8	14.4	10.0
Nd	4.5	5.0	2.2	1.7	30.6	13.2	5.6	3.7	3.6	4.3	53.6	37.0
Sm	0.9	0.9	0.5	0.4	5.0	2.6	1.3	0.7	0.8	0.9	9.1	6.2
Eu	0.3	0.2	0.2	0.1	1.2	0.7	0.3	0.2	0.3	0.3	1.9	0.8
Tb	0.9	0.7	0.7	0.3	4.3	3.5	1.3	0.7	1.1	1.3	7.6	5.3
Gd	0.2	0.1	0.1	0.0	0.4	0.5	0.2	0.1	0.3	0.3	1.1	0.8
Dy	1.0	0.6	0.9	0.5	2.7	3.1	1.2	0.8	1.1	1.2	6.3	4.5
Ho	0.3	0.1	0.2	0.1	0.5	0.5	0.2	0.1	0.3	0.3	1.2	0.8
Er	0.7	0.4	0.7	0.3	1.3	1.7	0.7	0.4	0.7	0.8	3.7	2.4
Tm	0.1	0.1	0.1	0.1	0.2	0.2	0.1	-	0.1	0.1	0.5	0.3
Yb	0.6	0.3	0.6	0.3	1.3	1.2	0.6	0.3	0.6	0.5	3.5	2.4
Lu	0.1	0.1	0.1	0.0	0.2	0.1	0.1	-	0.2	0.1	0.5	0.3
Σ REE	29.8	24.6	21.4	21.3	178.4	95.7	38.8	2.1	18.6	15.3	284.4	199.7
Eu/Eu*SN	1.32	0.19	1.63	0.52	1.26	1.02	1.15	0.00	1.11	0.43	1.17	0.24

Table 10-1: Summary statistics for major, trace and REE from high-grade iron ore samples and of average least-altered MIF and Ruth Formation Protolith (from Conliffe, 2016)

10.1. Soils

A total of nineteen (19) soil samples were collected on SMI's claim CDC 2016806 over the Kivivic No.1 iron deposit from the B horizon using a Dutch Auger similar to the one shown in Figure 10-1. Sample depths typically varied between 10-40 centimetres. Sample material was placed in 10x26 centimetre Kraft paper bags with an identification number on the outside of the bag and a matching assay tag placed inside the bag. A corresponding numbered flag was also left hanging from a bush at the sample site for future reference. No bedrock was observed along the recce line sampling traverse. All samples were air-dried for 14 days and subsequently packaged in sturdy cardboard boxes and shipped to Toronto via train from

Schefferville to Sept-Iles where a Company representative picked them up and forwarded them by courier to the SMI office in Toronto. The samples were repacked to ensure integrity of all samples and they were then transported by a senior Company representative to AGAT Laboratories in Mississauga, Ontario. The lab carried out a fifty-seven (57) element analyses using a 4 Acid Digest - Metals Package, ICP/ICP-MS finish analyses (Appendix 17). Best practice was used at all times during the course of sampling, shipping and analyses.



Figure 10-1: Dutch Auger similar to the one used to collect soils at Kivivic No.1

The analytical results were received from the lab in both PDF and XLS formats and are shown in Appendix 17 with re tabulated data shown in Table 10-2 and Table 10-3 below. All data met QA/QC guidelines

Table 10-2: 2019 soil sample data for Kivivic No.1 (1 of 2)

NUMBER	E5163010	E5163011	E5163012	E5163013	E5163014	E5163015	E5163016	E5163017	E5163018	E5163019
CDC LICENCE	2016806	2016806	2016806	2016806	2016806	2016806	2016806	2016806	2016806	2016806
MEDIUM	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
SOIL COLOR	Brown	Tan-brown	Tan-brown	Reddish-brown	Brown	Brown	Reddish-brown	Reddish-brown	Brown	Chocolate brown
NAD83X1	605512	605524	605535	605545	605556	605567	605578	605588	605601	605612
NAD83Y1	6105438	6105438	6105440	6105440	6105440	6105443	6105444	6105443	6105441	6105440
AMSL (m)	694	694	695	695	694	694	694	693	692	693
Ag ppm	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Al %	5.57	5.54	5.61	5.57	5.49	5.72	5.1	5.27	5.58	5.54
As ppm	17	23	23	20	18	20	14	15	15	14
B ppm	99	94	97	87	93	101	90	95	96	103
Ba ppm	449	493	455	457	449	486	458	418	435	479
Be ppm	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bi ppm	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2
Ca %	0.29	0.37	0.28	0.43	0.29	0.29	0.36	0.21	0.25	0.28
Cd ppm	<0.2	<0.2	0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ce ppm	68.7	43.8	49.4	54.1	47.3	55.9	45.4	48.2	52.6	58.2
Co ppm	12.8	12.3	11.3	11.5	11.3	15.3	12.6	10.5	12.6	15
Cr %	0.007	0.007	0.006	0.008	0.006	0.007	0.006	0.006	0.006	0.006
Cs ppm	2.8	2.2	2.7	2.2	2.5	3	2.1	2.8	2.8	2.7
Cu ppm	28	18	19	19	15	29	15	14	15	28
Dy ppm	3.62	1.93	2.43	2.37	2.21	2.61	1.98	2.29	2.37	2.83
Er ppm	2.15	1.24	1.51	1.62	1.3	1.54	1.2	1.35	1.31	1.67
Eu ppm	1.24	0.62	0.72	0.68	0.66	0.72	0.61	0.66	0.65	0.78
Fe %	14.6	14.9	13.2	13.4	13	14.2	14.3	13.6	12.9	14.9
Ga ppm	15.2	14.1	14.6	15	14.2	15.1	14	14.6	14.5	14.5
Gd ppm	4.63	2.25	2.84	2.93	2.5	3.02	2.35	2.57	2.93	3.37
Ge ppm	4	4	4	4	4	4	4	4	4	5
Hf ppm	4	4	4	4	4	5	4	5	4	4
Ho ppm	0.76	0.42	0.49	0.54	0.44	0.52	0.39	0.45	0.46	0.52
In ppm	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
K %	1.65	1.7	1.71	1.6	1.68	1.83	1.53	1.61	1.71	1.79
La ppm	34	21.1	22.7	25.4	22.1	23.8	21.1	22.5	24.4	26.8
Li ppm	29	21	24	22	24	27	19	24	27	25
Lu ppm	0.24	0.17	0.2	0.21	0.18	0.21	0.17	0.2	0.2	0.22
Mg %	0.94	0.74	0.66	0.76	0.7	0.75	0.68	0.63	0.69	0.76
Mn ppm	2680	2130	1900	1850	2040	2880	2760	2040	2790	3200
Mo ppm	2	<2	2	2	2	2	<2	3	3	2
Nb ppm	10	10	12	11	12	11	10	12	11	11
Nd ppm	29.9	16.2	18	21.1	16.9	19.9	17	18.1	20.8	21.9
Ni ppm	23	22	20	21	21	26	18	16	18	33
P %	0.07	0.05	0.05	0.06	0.06	0.05	0.05	0.06	0.07	0.05
Pb ppm	20	16	15	17	15	18	16	15	19	18
Pr ppm	8.14	4.61	5.09	5.8	4.78	5.4	4.59	4.94	5.52	6.02
Rb ppm	67.5	64	69.8	63.8	66.3	75.2	59.1	69.7	72.2	72.7
S %	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sb ppm	1.3	1	1.3	1	1.1	1.3	0.9	1.3	1.3	1.5
Sc ppm	9	9	9	10	8	9	7	8	8	9
Si %	27.1	27.6	28.7	26.8	27.5	26.9	27.1	27.1	27.2	27.6
Sm ppm	5.2	2.7	3.2	3.4	2.8	3.6	2.8	3.1	3.3	3.8
Sn ppm	1	<1	1	1	1	2	1	2	2	3
Sr ppm	95.1	116	95.9	121	94.9	98	111	76.3	85.3	95.6
Ta ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tb ppm	0.66	0.35	0.4	0.42	0.38	0.44	0.33	0.39	0.43	0.48
Th ppm	10.1	8	9.1	9.5	8.5	9.7	8.1	9.7	11.5	9.3
Ti %	0.28	0.28	0.3	0.32	0.29	0.29	0.26	0.31	0.29	0.29
Tl ppm	1.4	1.3	1.4	1.3	1.3	1.1	1	0.9	0.9	0.9
Tm ppm	0.29	0.18	0.22	0.21	0.18	0.21	0.17	0.2	0.2	0.23
U ppm	5.07	2.46	3.02	2.7	2.98	3.46	2.45	3.39	3.29	3.31
V ppm	201	95	104	102	97	108	89	110	102	105
W ppm	2	1	1	1	1	1	1	2	1	2
Y ppm	20.2	11.3	12.3	14.6	12	13	10.8	13.7	13.4	15.1
Yb ppm	1.7	1.2	1.4	1.5	1.3	1.6	1.2	1.3	1.4	1.5
Zn ppm	84	72	86	67	73	96	67	79	96	87
Zr ppm	136	132	153	152	155	160	134	161	139	149

Table 10-3: 2019 soil sample data for Kivivic No.1 (2 of 2)

NUMBER	E5163020	E5163021	E5163022	E5163023	E5163024	E5163025	E5163026	E5163027	E5163028
CDC LICENCE	2016806	2016806	2016806	2016806	2016806	2016806	2016806	2016806	2016806
MEDIUM	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
SOIL COLOR	Brown	Chocolate brown	Reddish-brown	Reddish-brown	Reddish-brown	Reddish-brown	Brown	Reddish-brown	Tan-brown
NAD83X1	605623	605634	605645	605656	605666	605678	605689	605701	605668
NAD83Y1	6105440	6105440	6105438	6105438	6105435	6105436	6105437	6105436	6105481
AMSL (m)	691	690	689	688	688	691	690	691	689
Ag ppm	<1	1	1	<1	<1	<1	<1	<1	1
Al %	5.4	5.65	5.37	5.26	4.89	5.04	5.26	4.59	5.21
As ppm	24	14	18	20	18	22	20	12	8
B ppm	99	106	103	105	95	103	95	96	88
Ba ppm	451	476	451	462	431	426	455	399	420
Be ppm	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bi ppm	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Ca %	0.27	0.26	0.27	0.29	0.28	0.28	0.31	0.31	0.24
Cd ppm	<0.2	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ce ppm	49.8	62.2	54	51	46.9	48.6	54	40.7	54.3
Co ppm	9.7	12.9	12.6	12.4	9.1	10	12	5.9	8.1
Cr %	0.006	0.006	0.006	0.007	0.006	0.007	0.006	0.006	0.006
Cs ppm	2.5	2.8	2.3	2.9	2.4	2.4	2	2.5	2.3
Cu ppm	14	30	19	23	14	13	21	9	23
Dy ppm	2.38	3.06	2.41	2.36	2.28	2.24	2.29	1.89	2.8
Er ppm	1.42	1.64	1.33	1.45	1.28	1.41	1.37	1.24	1.56
Eu ppm	0.71	0.8	0.73	0.66	0.68	0.59	0.68	0.64	0.78
Fe %	12.8	13.7	14.2	14.2	13	15.1	13.6	15.2	11.6
Ga ppm	13.8	15	13.4	15.3	13.3	14	12.7	15.6	13.8
Gd ppm	2.72	3.55	2.94	2.82	2.73	2.57	3	2.33	3.34
Ge ppm	4	4	4	4	3	4	4	4	3
Hf ppm	4	4	4	4	4	4	4	5	4
Ho ppm	0.52	0.61	0.5	0.5	0.46	0.47	0.45	0.37	0.55
In ppm	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
K %	1.7	1.78	1.7	1.76	1.56	1.55	1.62	1.42	1.52
La ppm	24	27.8	25.1	23.2	22.7	23.3	24.2	20.6	26.1
Li ppm	21	27	24	20	20	18	21	12	24
Lu ppm	0.2	0.23	0.19	0.19	0.18	0.19	0.18	0.17	0.2
Mg %	0.65	0.72	0.67	0.66	0.58	0.66	0.68	0.47	0.61
Mn ppm	1670	2250	2270	2360	1710	1440	2100	934	2940
Mo ppm	2	2	3	3	3	3	3	3	3
Nb ppm	11	12	11	11	11	11	10	11	11
Nd ppm	18.8	22.5	19.6	18.8	18	18.4	19.6	16.3	21.7
Ni ppm	23	24	19	21	15	17	19	9	19
P %	0.07	0.06	0.06	0.08	0.07	0.06	0.05	0.06	0.08
Pb ppm	15	17	18	20	15	16	17	15	13
Pr ppm	5.3	6.16	5.41	5.18	4.91	5.07	5.37	4.5	5.83
Rb ppm	70.5	75.6	68.5	73.2	63.9	63.8	61.3	54.5	60.2
S %	<0.01	<0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01	0.02
Sb ppm	1.1	1.3	1.1	1.2	0.8	1	1.5	0.8	0.9
Sc ppm	9	9	8	8	7	8	8	7	8
Si %	27.8	27.6	27.4	26.6	26.6	26.4	26.9	27.7	26.6
Sm ppm	3.4	4.1	3.3	3.4	3.1	3.3	3.4	2.9	3.8
Sn ppm	1	1	1	1	2	2	2	1	1
Sr ppm	91.1	92	93.5	96	91.8	90.9	102	91.2	82.7
Ta ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tb ppm	0.42	0.54	0.41	0.42	0.4	0.37	0.41	0.32	0.47
Th ppm	10.2	9.8	10.5	9.2	9	9.3	10	7.2	8.5
Ti %	0.28	0.3	0.29	0.29	0.27	0.3	0.28	0.34	0.29
Tl ppm	0.9	0.8	0.8	1.5	1.4	1.4	1.2	1	0.9
Tm ppm	0.22	0.24	0.21	0.21	0.19	0.18	0.19	0.18	0.21
U ppm	3.35	3.7	3.1	3.28	2.86	2.91	2.99	2.46	3.31
V ppm	98	106	96	109	88	102	95	112	92
W ppm	2	1	1	<1	<1	<1	<1	<1	<1
Y ppm	14.9	17.1	14.6	12.6	13.5	12	12.2	11.1	14.6
Yb ppm	1.4	1.7	1.5	1.4	1.3	1.3	1.3	1.2	1.3
Zn ppm	62	89	76	82	55	61	70	47	75
Zr ppm	142	150	136	142	160	161	137	165	132

While conventional soil sampling of the B-Horizon has not been extensively used in the past by SMI, recent exploration programs have suggested if used with respect to glacial effects that data could assist in the identification of blind deposits. A summary of selected data from these results indicate subtle but distinct variations in Fe content in soil that could lead to the discovery of unknown iron deposits.

11. SAMPLE EVALUATION AND DATA VERIFICATION

All 2019 assay data was evaluated for QA/QC protocols and then compared with previous soil samples in earlier exploration programs. The author has accepted all earlier assays at face value based on the QA/QC protocols with those datasets. Assay certificates from earlier programs are included in their respective assessment reports prepared independently for, and filed with, the Provincial Government of Quebec.

12. INTERPRETATION AND DISCUSSION

12.1. Geochemistry

Soil sample locations (2019) were plotted on the respective claims for the Kivivic No.1 property in addition to soil samples collected during previous exploration (2015). These selected locations are shown in Figure 12-1. Individual sample numbers for the 2019 survey are shown in Figure 12-2 while 2015 soil numbers are presented in Figure 12-3.

Correlation coefficients were calculated for the 2019 data set using Excel and are shown in Table 12-1 and Table 12-2. The correlation between REE is strong as is the correlation between several other trace elements (notwithstanding low element concentration values). An interesting observation in these data is that iron (Fe) does not show correlation with any other element. Likewise, phosphorous (P) and manganese (Mn) do not show any other element correlation either (except for Mn with Zn). However, it should be noted that total assay values for phosphorous are generally low and near the reported detection limit and a plot of Mn vs Fe suggests there could be two (2) distinct populations present in the limited dataset (Figure 12-5). The significance of these elements showing no other element correlations is not explained at this time and requires further investigation.

The selective 2019 soil results for iron (Fe) were compared with earlier soil sample data in the same area at the Kivivic No.1 property in Quebec and were plotted in 2-D space for the following reasons, (a) to compare analytical results from previous programs over the same ground and (b) to evaluate the potential of identifying sub-surface iron deposits using soil geochemistry. The 2019 and 2015 data were plotted as west-to-east profile lines and superimposed on a single diagram. The location of known iron deposits is indicated as vertical bars on that diagram, and using the assayed results, other iron-rich horizons were postulated (Figure 12-6).

Assuming normal evaluation, the data clearly shows the approximate location of known Kivivic No.1 deposits (labeled b, e and f), but in addition suggests four (4) other potential iron-rich mineralized horizons (labeled a, c, d and g). Should further exploration prove the presence of potential ore bodies in this area it will be the first time the author is aware of being able to discover buried iron deposits using soil geochemistry in the Labrador Trough.

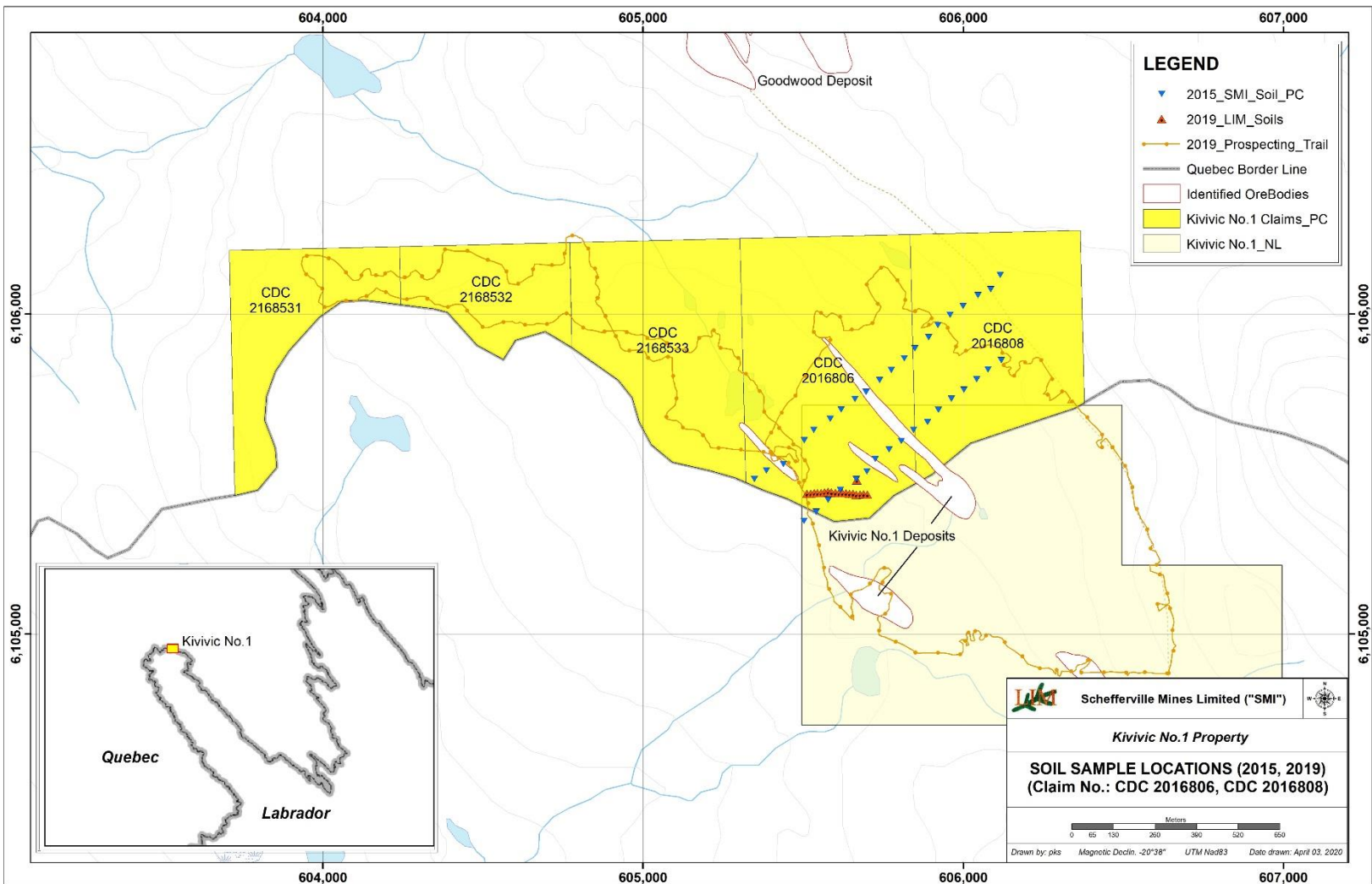


Figure 12-1: Location of 2015 & 2019 soil samples

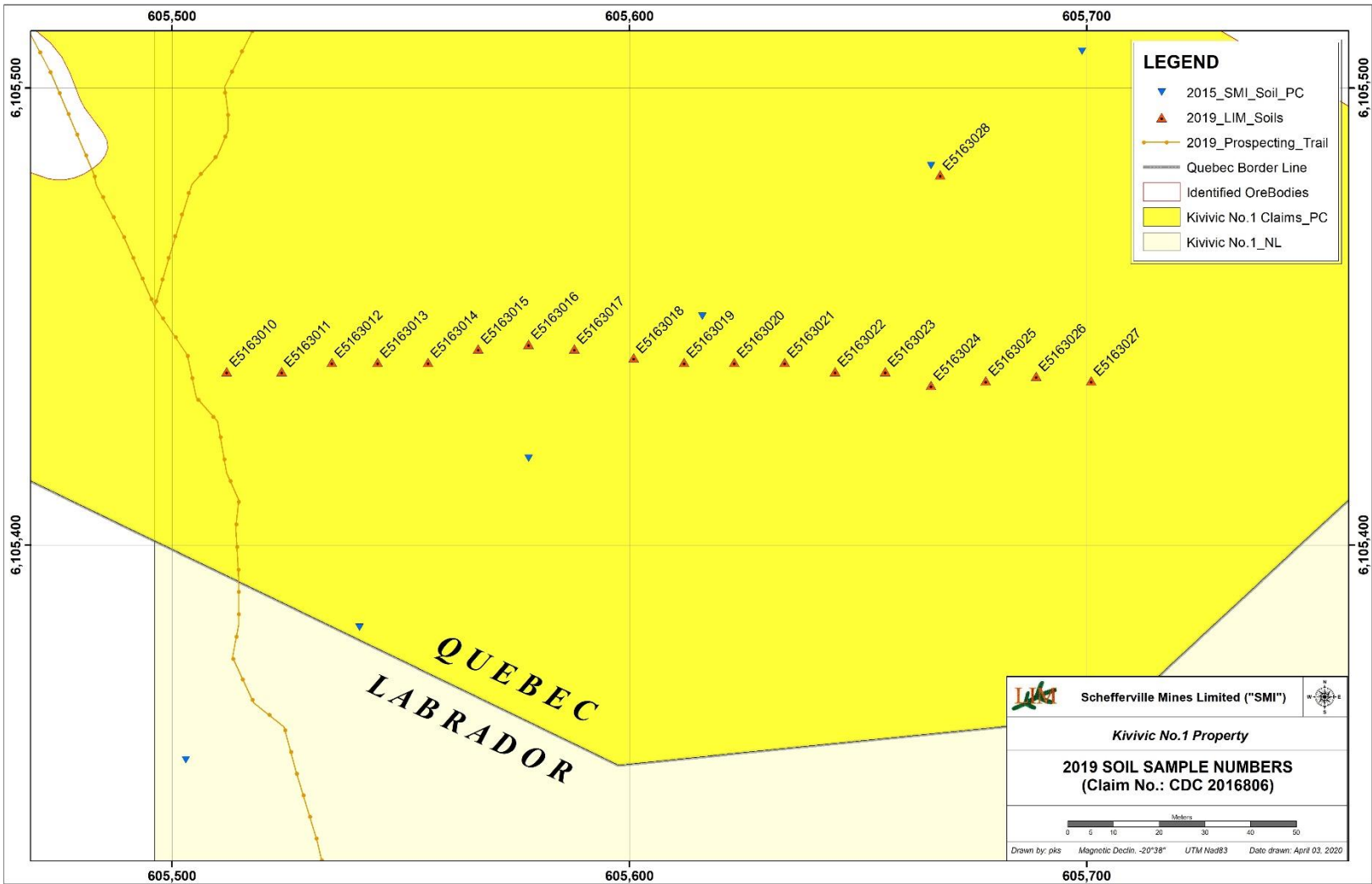


Figure 12-2: 2019 soil sample locations and sample numbers

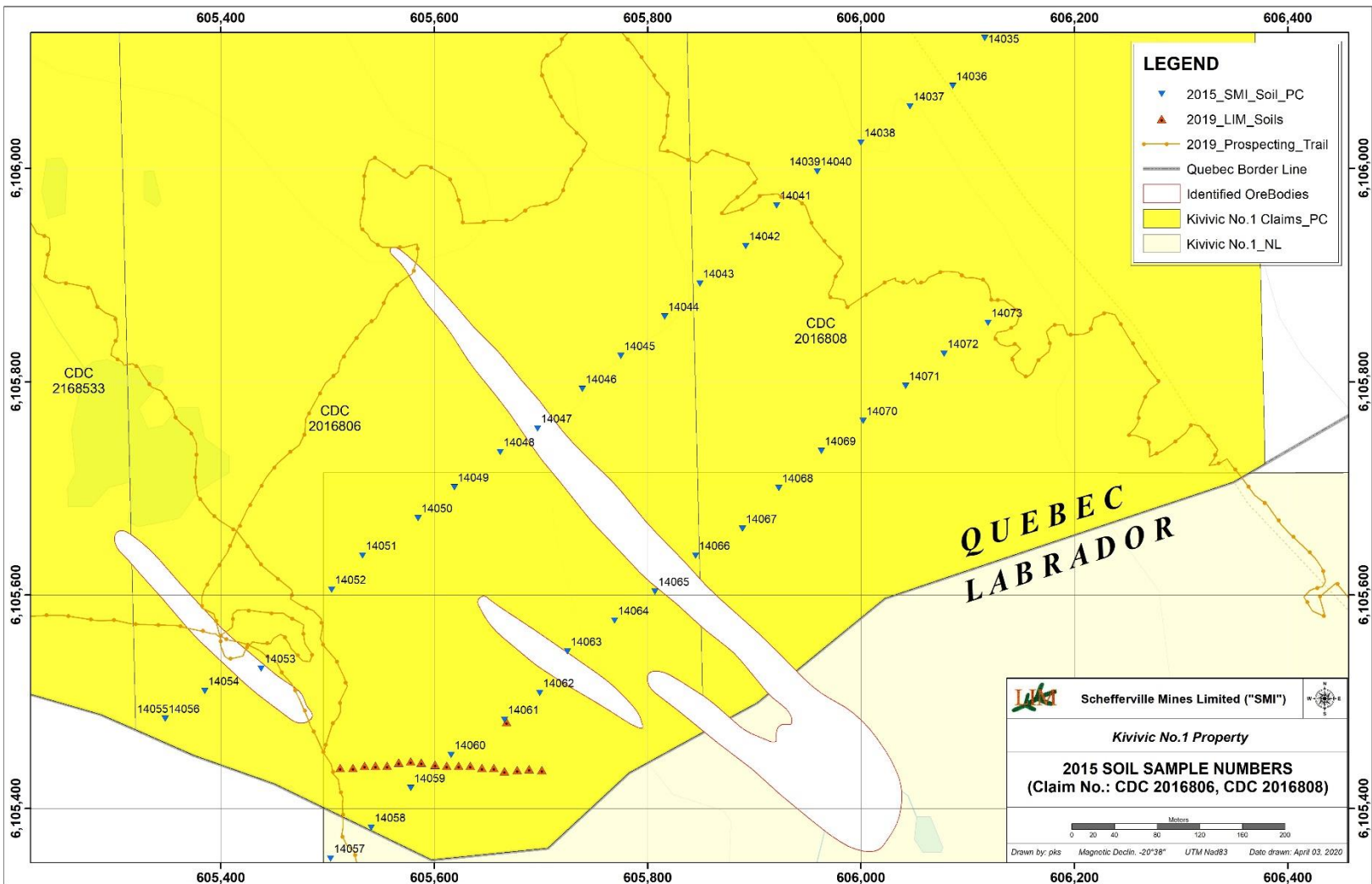


Figure 12-3: 2015 soil sample locations and sample numbers

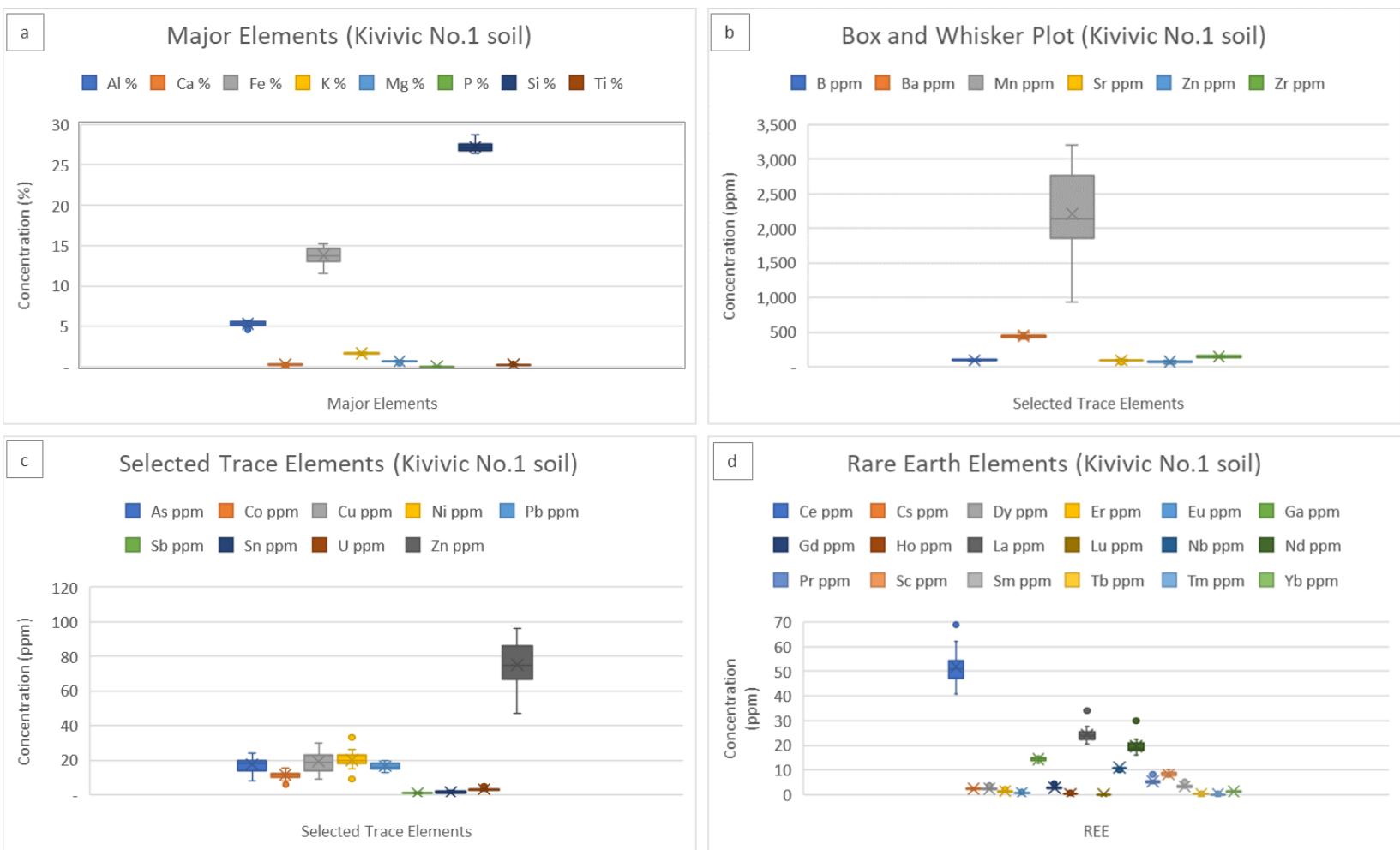
Table 12-1: Correlation coefficient table (1 of 2)

	Al %	As ppm	B ppm	Ba ppm	Ca %	Ce ppm	Co ppm	Cs ppm	Cu ppm	Dy ppm	Er ppm	Eu ppm	Fe %	Ga ppm	Gd ppm	Ho ppm	K %	La ppm	Li ppm	Lu ppm	Mg %	Mn ppm	Nb ppm	Nd ppm	Ni ppm	P %	Pb ppm	Pr ppm	
Al %	1.000																												
As ppm	0.293	1.000																											
B ppm	0.169	0.222	1.000																										
Ba ppm	0.721	0.416	0.285	1.000																									
Ca %	0.033	0.306	-0.423	0.368	1.000																								
Ce ppm	0.595	-0.139	0.353	0.335	-0.186	1.000																							
Co ppm	0.765	0.226	0.378	0.826	0.112	0.539	1.000																						
Cs ppm	0.368	-0.048	0.576	0.097	-0.531	0.373	0.313	1.000																					
Cu ppm	0.647	-0.110	0.390	0.643	-0.070	0.835	0.685	0.397	1.000																				
Dy ppm	0.494	-0.226	0.331	0.198	-0.319	0.948	0.366	0.466	0.783	1.000																			
Er ppm	0.478	-0.070	0.233	0.215	-0.059	0.885	0.331	0.404	0.726	0.928	1.000																		
Eu ppm	0.341	-0.166	0.181	0.100	-0.163	0.818	0.227	0.327	0.599	0.899	0.894	1.000																	
Fe %	-0.164	0.172	0.454	0.220	0.306	-0.053	0.244	0.068	0.041	-0.107	0.045	0.028	1.000																
Ga ppm	0.166	-0.158	0.211	0.037	0.089	0.176	0.084	0.673	0.237	0.249	0.393	0.253	0.339	1.000															
Gd ppm	0.431	-0.232	0.265	0.157	-0.224	0.952	0.342	0.363	0.749	0.975	0.927	0.929	-0.069	0.208	1.000														
Ho ppm	0.513	-0.038	0.285	0.225	-0.155	0.918	0.319	0.389	0.717	0.954	0.945	0.898	-0.096	0.269	0.939	1.000													
K %	0.823	0.362	0.582	0.782	-0.163	0.476	0.813	0.565	0.656	0.379	0.296	0.178	0.026	0.164	0.293	0.352	1.000												
La ppm	0.441	-0.186	0.257	0.154	-0.165	0.949	0.334	0.291	0.688	0.954	0.924	0.916	-0.030	0.182	0.978	0.952	0.269	1.000											
Li ppm	0.844	-0.056	0.180	0.431	-0.328	0.776	0.663	0.479	0.695	0.743	0.602	0.584	-0.310	0.081	0.685	0.682	0.675	0.666	1.000										
Lu ppm	0.618	-0.117	0.361	0.249	-0.256	0.901	0.435	0.582	0.732	0.915	0.895	0.746	-0.069	0.412	0.860	0.893	0.487	0.865	0.752	1.000									
Mg %	0.751	0.224	0.142	0.616	0.229	0.750	0.737	0.208	0.661	0.664	0.732	0.672	0.180	0.177	0.675	0.717	0.530	0.720	0.718	0.656	1.000								
Mn ppm	0.555	-0.351	0.038	0.474	-0.152	0.561	0.701	0.247	0.683	0.507	0.375	0.359	-0.149	0.003	0.489	0.372	0.498	0.439	0.700	0.432	0.553	1.000							
Nb ppm	0.157	-0.079	0.197	-0.195	-0.488	-0.061	-0.137	0.486	-0.054	0.034	-0.060	-0.185	-0.345	0.263	-0.118	-0.029	0.219	-0.145	0.189	0.211	-0.297	-0.209	1.000						
Nd ppm	0.427	-0.226	0.194	0.121	-0.143	0.937	0.337	0.323	0.677	0.940	0.924	0.913	-0.033	0.240	0.978	0.933	0.234	0.987	0.664	0.859	0.722	0.480	-0.193	1.000					
Ni ppm	0.763	0.169	0.351	0.794	0.034	0.606	0.783	0.306	0.768	0.540	0.531	0.354	0.065	0.090	0.463	0.493	0.795	0.470	0.632	0.602	0.692	0.654	-0.017	0.430	1.000				
P %	-0.209	-0.256	0.008	-0.450	-0.367	0.155	-0.404	0.222	-0.050	0.275	0.188	0.239	-0.464	0.095	0.274	0.337	-0.161	0.284	0.040	0.162	-0.145	0.006	0.084	0.298	-0.233	1.000			
Pb ppm	0.409	0.161	0.526	0.429	0.101	0.568	0.686	0.419	0.502	0.409	0.435	0.395	0.426	0.340	0.481	0.432	0.546	0.491	0.397	0.431	0.614	0.411	-0.308	0.525	0.401	0.054	1.000		
Pr ppm	0.456	-0.162	0.217	0.158	-0.121	0.938	0.341	0.320	0.683	0.946	0.945	0.930	-0.014	0.244	0.978	0.952	0.263	0.993	0.663	0.866	0.747	0.444	-0.177	0.995	0.463	0.274	0.517	1.000	
Rb ppm	0.728	0.253	0.646	0.530	-0.399	0.512	0.676	0.754	0.568	0.465	0.347	0.211	-0.068	0.266	0.348	0.430	0.915	0.330	0.703	0.622	0.429	0.423	0.424	0.305	0.657	0.047	0.512	0.319	
Sb ppm	0.645	0.148	0.448	0.441	-0.304	0.592	0.684	0.447	0.591	0.471	0.427	0.320	0.064	0.064	0.464	0.360	0.697	0.420	0.631	0.550	0.513	0.463	0.117	0.416	0.614	-0.283	0.525	0.428	
Sc ppm	0.811	0.406	0.115	0.599	0.266	0.537	0.479	0.226	0.557	0.463	0.605	0.351	-0.019	0.292	0.415	0.572	0.591	0.467	0.539	0.658	0.660	0.208	0.102	0.438	0.692	-0.179	0.269	0.490	
Si %	0.295	0.177	0.119	0.208	-0.047	-0.103	0.044	0.155	-0.038	-0.036	-0.027	0.055	0.041	0.165	-0.078	-0.074	0.270	-0.104	0.090	0.053	-0.025	-0.141	0.330	-0.155	0.158	-0.417	-0.165	-0.097	
Sm ppm	0.379	-0.188	0.334	0.131	-0.231	0.934	0.297	0.403	0.727	0.967	0.943	0.913	0.006	0.274	0.979	0.952	0.268	0.969	0.610	0.876	0.651	0.416	-0.132	0.970	0.446	0.305	0.480	0.972	
Sn ppm	0.011	-0.066	0.235	0.034	-0.298	0.109	0.316	0.198	0.118	0.050	-0.007	-0.125	0.167	-0.195	0.040	-0.124	0.198	0.013	0.147	0.136	0.032	0.271	0.000	0.039	0.288	-0.262	0.163	0.005	
Sr ppm	0.212	0.400	-0.306	0.588	0.961	-0.084	0.319	-0.496	0.096	-0.241	-0.022	-0.121	0.307	0.003	-0.163	-0.093	0.050	-0.115	-0.171	-0.196	0.358	-0.003	-0.503	-0.109	0.220	-0.464	0.181	-0.080	
Tb ppm	0.506	-0.179	0.313	0.221	-0.259	0.950	0.372	0.443	0.760	0.984	0.920	0.914	-0.098	0.247	0.980	0.962	0.387	0.969	0.738	0.895	0.705	0.481	-0.043	0.960	0.518	0.314	0.480	0.966	
Th ppm	0.526	0.203	0.354	0.133	-0.363	0.582	0.455	0.324	0.281	0.438	0.312	0.279	-0.250	-0.153	0.450	0.447	0.510	0.489	0.642	0.537	0.406	0.310	0.075	0.489	0.298	0.188	0.537	0.472	
Ti %	-0.187	-0.174	0.009	-0.416	0.019	-0.148	-0.409	0.205	-0.198	-0.122	0.024	-0.142	0.177	0.573	-0.128	-0.103	-0.245	-0.113	-0.286	0.086	-0.343	-0.501	0.468	-0.102	-0.325	-0.013	-0.137	-0.096	
Tl ppm	-0.053	0.549	-0.065	0.086	0.382	-0.109	-0.028	-0.032	-0.062	-0.076	0.137	0.058	0.168	0.086	-0.027	0.060	-0.063	-0.053	-0.180	-0.154	0.204	-0.275	-0.174	-0.033	-0.091	0.058	0.148	0.002	
Tm ppm	0.517	-0.050	0.374	0.227	-0.231	0.881	0.340	0.511	0.698	0.933	0.925	0.909	-0.024	0.360	0.922	0.942	0.425	0.913	0.668	0.906	0.656	0.367	0.030	0.897	0.516	0.257	0.476	0.921	
U ppm	0.442	-0.106	0.386	0.086	-0.446	0.854	0.325	0.586	0.618	0.916	0.844	0.892	-0.065	0.276	0.897	0.894	0.377	0.881	0.716	0.830	0.643	0.413	0.017	0.883	0.402	0.358	0.483	0.889	
V ppm	0.212	-0.038	0.217	-0.023	-0.073	0.627	0.162	0.427	0.378	0.701	0.797	0.880	0.303	0.485	0.750	0.740	0.073	0.753	0.384	0.616	0.630	0.148	-0.218	0.784	0.154	0.193	0.509	0.800	
Y ppm	0.424	-0.178	0.275	0.109	-0.250	0.882	0.242	0.362	0.605	0.922	0.860	0.878	-0.117	0.208	0.910	0.939	0.287	0.946	0.660	0.882	0.617	0.330	0.022	0.915	0.428	0.356	0.381	0.927	
Yb ppm	0.655	0.031	0.510	0.421	-0.136	0.894	0.571	0.557	0.781	0.839	0.795	0.690	0.035	0.381	0.802	0.848	0.627	0.802	0.731	0.902	0.666	0.386	0.162	0.780	0.600	0.076	0.599	0.794	
Zn ppm	0.814	-0.052	0.343	0.516	-0.320	0.612	0.766	0.635	0.705	0.546	0.431	0.335	-0.113	0.284	0.486	0.444	0.789	0.424	0.856	0.614	0.570	0.749	0.212	0.454	0.623	-0.071	0.537	0.440	
Zr ppm	-0.274	0.065	0.163	-0.322	-0.143	-0.270	-0.265	0.359	-0.263	-0.192	-0.119	-0.263	0.180	0.351	-0.271	-0.227	-0.125	-0.300	-0.265	-0.005	-0.368	-0.528	0.594	-0.296	-0.242	-0.171	-0.242	-0.293	
Sm/Nd	-0.129	0.119	0.612	0.022	-0.393	0.171	-0.127	0.402	0.317	0.287	0.268	0.176	0.149	0.203	0.200	0.261	0.169	0.124	-0.111	0.248	-0.169	-0.193	0.215	0.081	0.127	0.117	-0.063	0.107	
Y/Ho	-0.352	-0.422	-0.084	-0.407	-0.250	-0.205	-0.294	-0.092	-0.409	-0.185	-0.317	-0.112	-0.023	-0.142	-0.167	-0.270	-0.275	-0.111	-0.158	-0.127	-0.371	-0.179	0.126	-0.130	-0.292	0.040	-0.183	-0.153	
La/Yb	-0.236	-0.390	-0.344	-0.360	-0.088	0.255	-0.293	-0.369	0.013	0.338	-0.337	0.4																	

Table 12-2: Correlation coefficient table (2 of 2)

	Rb ppm	Sb ppm	Sc ppm	Si %	Sm ppm	Sn ppm	Sr ppm	Tb ppm	Th ppm	Ti %	Tl ppm	Tm ppm	U ppm	V ppm	Y ppm	Yb ppm	Zn ppm	Zr ppm	Sm/Nd	Y/Ho	La/Yb	REE(t)	I+Mn+P(%)	Pr/Yb		
Al %																										
As ppm																										
B ppm																										
Ba ppm																										
Ca %																										
Ce ppm																										
Co ppm																										
Cs ppm																										
Cu ppm																										
Dy ppm																										
Er ppm																										
Eu ppm																										
Fe %																										
Ga ppm																										
Gd ppm																										
Ho ppm																										
K %																										
La ppm																										
Li ppm																										
Lu ppm																										
Mg %																										
Mn ppm																										
Nb ppm																										
Nd ppm																										
Ni ppm																										
P %																										
Pb ppm																										
Pr ppm																										
Rb ppm	1.000																									
Sb ppm	0.663	1.000																								
Sc ppm	0.511	0.458	1.000																							
Si %	0.180	0.230	0.265	1.000																						
Sm ppm	0.352	0.429	0.430	-0.127	1.000																					
Sn ppm	0.252	0.454	-0.059	-0.242	0.032	1.000																				
Sr ppm	-0.234	-0.143	0.358	0.025	-0.186	-0.263	1.000																			
Tb ppm	0.459	0.475	0.474	-0.057	0.969	0.017	-0.185	1.000																		
Th ppm	0.638	0.600	0.337	-0.084	0.431	0.294	-0.273	0.478	1.000																	
Ti %	-0.127	-0.083	0.142	0.169	-0.077	-0.087	-0.155	-0.150	-0.182	1.000																
Tl ppm	-0.135	-0.120	0.068	-0.209	-0.020	-0.118	0.368	-0.035	-0.231	-0.105	1.000															
Tm ppm	0.506	0.486	0.567	0.164	0.925	-0.068	-0.161	0.939	0.459	-0.028	-0.035	1.000														
U ppm	0.507	0.511	0.351	-0.051	0.912	0.034	-0.381	0.929	0.531	-0.149	-0.018	0.899	1.000													
V ppm	0.142	0.283	0.273	0.010	0.781	-0.121	-0.092	0.741	0.204	0.055	0.244	0.771	0.819	1.000												
Y ppm	0.411	0.339	0.476	-0.021	0.910	-0.043	-0.211	0.941	0.504	-0.061	-0.165	0.927	0.874	0.696	1.000											
Yb ppm	0.690	0.527	0.628	0.066	0.805	0.025	-0.039	0.835	0.584	0.024	-0.116	0.851	0.760	0.552	0.817	1.000										
Zn ppm	0.789	0.739	0.464	0.153	0.432	0.216	-0.150	0.528	0.552	-0.161	-0.176	0.501	0.535	0.248	0.365	0.622	1.000									
Zr ppm	0.052	-0.105	-0.096	0.020	-0.215	0.316	-0.261	-0.252	-0.197	0.582	0.153	-0.193	-0.164	-0.078	-0.199	-0.019	-0.224	1.000								
Sm/Nd	0.247	0.140	0.058	0.073	0.321	-0.001	-0.351	0.221	-0.108	0.132	0.053	0.297	0.290	0.149	0.158	0.257	-0.010	0.301	1.000							
Y/Ho	-0.145	-0.125	-0.363	0.144	-0.200	0.221	-0.340	-0.153	0.078	-0.173	-0.614	-0.128	-0.129	-0.140	0.075	-0.186	-0.289	0.131	-0.307	1.000						
La/Yb	-0.478	-0.087	-0.156	-0.307	0.410	0.003	-0.144	0.363	-0.055	-0.229	0.038	0.228	0.313	0.370	0.344	-0.157	-0.207	-0.484	-0.157	0.077	1.000					
REE(t)	0.471	0.534	0.523	-0.080	0.964	0.066	-0.134	0.976	0.544	-0.103	-0.085	0.920	0.889	0.691	0.925	0.882	0.558	-0.241	0.187	-0.175	0.314	1.000				
Al+Mn+P	0.728	0.651	0.758	0.227	0.423	0.050	0.175	0.548	0.532	-0.257	-0.095	0.536	0.480	0.222	0.449	0.658	0.860	-0.344	-0.146	-0.346	-0.168	0.585	1.000			
Pr/Yb	-0.314	0.068	0.048	-0.271	0.616	-0.001	-0.098	0.570	0.076	-0.189	0.097	0.459	0.517	0.583	0.520	0.083	-0.015	-0.481	-0.123	-0.037	0.951	0.523	0.027	1.000		

Figure 12-4: Box and Whisker plot of 2019 soil data(a) major elements, (b & c) selected trace elements, and (d) REE



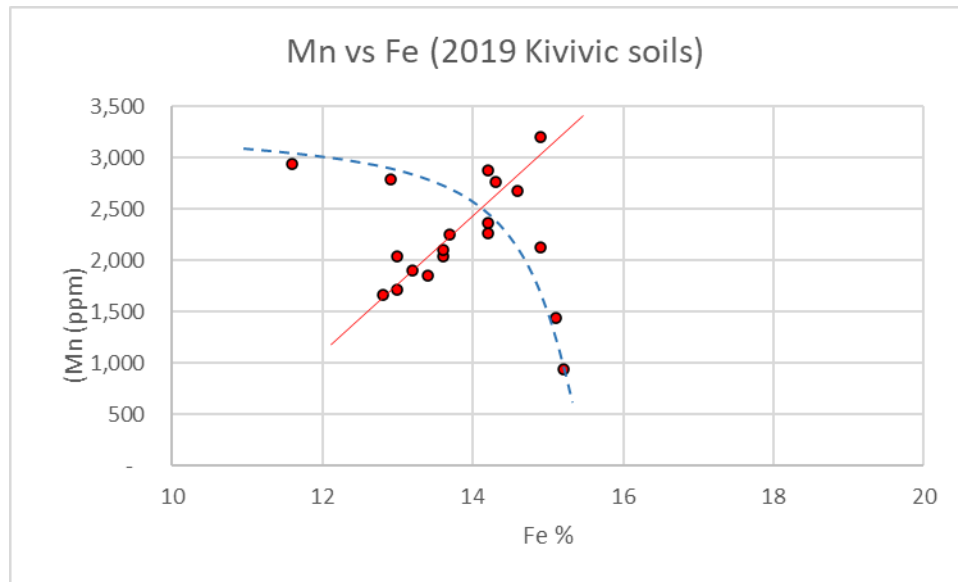


Figure 12-5: Plot of Mn verses Fe for 2019 Kivivic No.1 soil data

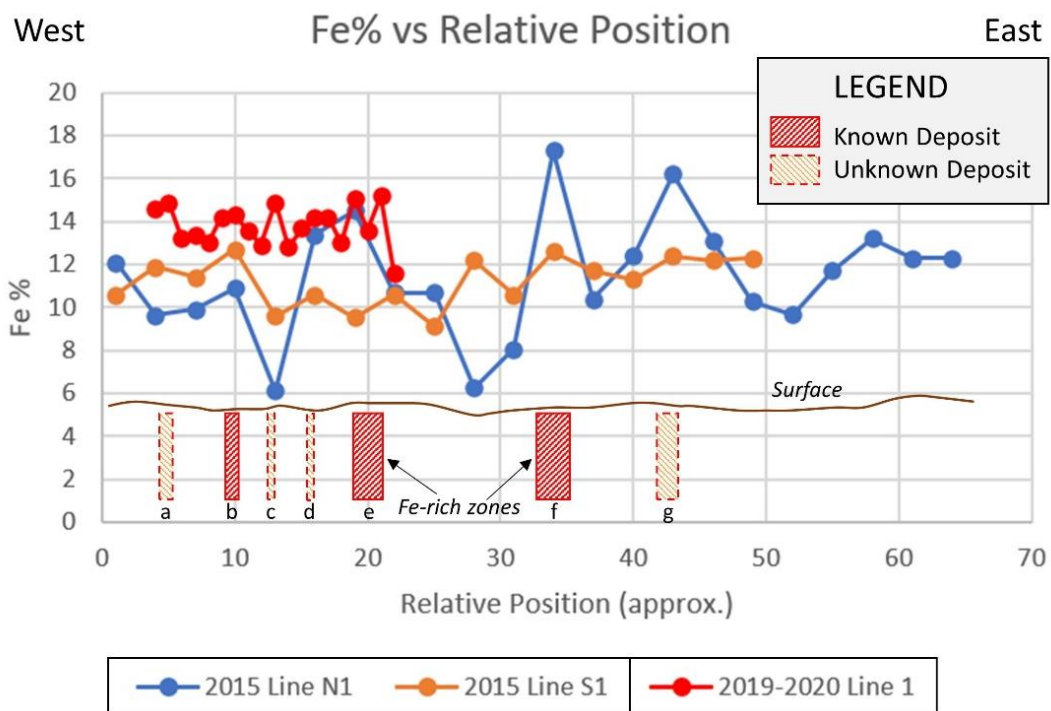


Figure 12-6: Linear distribution of iron (Fe%) for soils, 2019 data is shown in red and at approximately 10m sample intervals while the orange and blue lines are for 2015 soil data and represent two lines spaced approximately 180m apart. Samples were collected at approximately 20-30m intervals. Known ore bodies (b, e, f) are shown below the surface in red while speculated mineralization (a, c, d, g) are shown in dashed orange.

After evaluation of the geochemistry of various high-grade iron deposits Conliffe (2016) concluded the following:

“Numerous high-grade iron-ore deposits occur in the Schefferville and Menihék areas of the Labrador Trough, in a structural zone known as the Ore Zone (Harrison et al., 1972). These deposits have a wide range of geological characteristics, which is consistent with a complex and multistage enrichment of both hypogene and supergene processes. Whole-rock geochemical data show important differences between different ore types. Blue ore samples have the highest Fe grades, and are generally low in undesirable elements (e.g., Al, P, Mn). Yellow ore samples have a much higher LOI at 400°C, reflecting their high goethite content.

The one red ore sample in this study has a high clay content (LOI @ 1000°C >> LOI @ 400°C) and is relatively enriched in Al compared to other ore samples but strongly depleted in Al compared to the least-altered Ruth Formation protolith. Rare-earth-element (REE) data show that some ore samples are enriched in light REE, which may reflect the mobility of these elements during enrichment. Oxygen isotope analysis of hematite from blue ore samples reveals that they are depleted in $\delta^{18}\text{O}$ VSMOW compared to magnetite in the Sokoman Formation protolith. This depletion may be due to the influx of isotopically light meteoric water at low temperatures, or hydrothermal fluids with $\delta^{18}\text{O}$ around 0‰ at higher temperatures (> 150°C). These two contrasting interpretations show the difficulty in deciphering the nature of the fluids responsible for enrichment without an independent geothermometer.

Comparisons between high-grade iron-ore bodies in the Ore Zone, and other high-grade iron-ore deposits worldwide, show that their characteristics are incompatible with enrichment due to simple supergene lateritic processes as proposed by previous researchers. Instead, these deposits share similarities with martite–goethite and martite–microplaty hematite ore types. A new genetic model proposes that they formed by early hypogene alteration (forming an enriched proto-ore), which was later overprinted by supergene mimetic enrichment. The timing of these processes is unknown, but hypogene alteration likely occurred during or soon after the Hudsonian Orogeny (1.82 to 1.77 Ga). Supergene mimetic enrichment postdated the hypogene alteration but occurred prior to reactivation of normal faults during the opening of the North Atlantic (250 to 200 Ma). Following a period of extensional faulting, some ore bodies were exposed and eroded (forming detrital iron deposits in grabens above 5 deposits), and all ore bodies were affected by late-stage weathering and remobilization of iron and manganese. Further research is required to determine the relative importance of hypogene and supergene alteration and the timing of these events.”

A direct correlation between soil and rock geochemistry cannot be ascertained for the Kivivic No.1 property as suitable rock geochemistry is currently lacking, however the author believes that closer examination of soil and rock geochemistry should be undertaken. As pointed out by Conliffe (2016) above there may be secondary variations superimposed on the geology (and subsequently on soils) due to hypogene and supergene alteration.

12.2. Prospecting

Although time constraints did not allow for extensive prospecting of the five (5) Kivivic No.1 claims a reconnaissance traverse across all claims was made to evaluate next steps for exploration on the property. The traverse line is shown in Figure 12-1. This prospect line revealed significant bedrock exposure and several areas showing iron enrichment in the stratigraphy.

A dome tent formerly used as the helicopter medivac facility for a larger exploration camp in the area remains on the site as a potential emergency shelter (Figure 12-7).



Figure 12-7: Helicopter medivac tent located at Kivivic No.1 in Quebec.

13.RECOMMENDATIONS

It is recommended that a pilot program be initiated at the Kivivic No.1 property to examine the variability between rock and soil geochemistry at coincident sites in areas where the geology is both well exposed and where drill core might be available. As part of that program each of the soils should be analyzed using conventional soil dissolution and with partial leaching. In addition, MMI sampling should be carried out at each of the conventional soil locations. Results of this pilot program should dictate if further soil sampling be carried out in this region.

Detailed geological mapping be carried out across the Kivivic No.1 property using IOCC maps as a starting point. East-west trending fractures (or clusters of fractures) should be closely documented in relationship to secondary alteration observations. This would be primarily relevant based on observations of high-grade iron ore mineralization around these clusters of fractures (Krishnan, 1976).

Due to the moderate vegetation cover on the Kivivic No.1, a detailed ground magnetometer survey is recommended. Lines should be spaced at no greater than twenty-five (25) metre spacing and reading should be taken at a minimum of one (1) second continuous time intervals.

This sampling program validated that more closely spaced soil sampling helped to define additional (potential) iron-rich horizons in the stratigraphy. A small drill program would be beneficial where soil sample data is well constrained to delineate the detailed underlying geology.

Further prospecting should be carried out to locate specific horizons that have elevated Fe content. A magnetometer survey would be part of this exploration program.

The effective use of Mobile Metal Ion (“MMI”) geochemistry is also acknowledged as working well in areas of glaciated terrain. A parallel survey of closely spaced MMI geochemistry is recommended with samples being taken adjacent to selected soil samples.

The anticipated costs of approximately \$60,000 (\$73,000 including tax) for this recommended program is detailed in Table 13-1 below.

RECOMMENDATIONS FOR KIVIVIC No.1 (2020)					
Labrador Iron Mines Limited					
Item	Feature	Units	Rate	Cost	Total Costs
PERSONNEL					
	senior geologist	14	\$ 500.00	\$ 7,000.00	
	technical support	14	\$ 350.00	\$ 4,900.00	
	geochemist	14	\$ 600.00	\$ 8,400.00	
	assistant	14	\$ 250.00	\$ 3,500.00	
				\$ 23,800.00	\$ 23,800.00
TRANSPORTATION					
	air travel	4	\$ 1,200.00	\$ 4,800.00	
	truck/mileage	2	\$ 1,000.00	\$ 2,000.00	
				\$ 6,800.00	\$ 6,800.00
MAGNETOMETER					
	rental	1	\$ 1,700.00	\$ 1,700.00	
	processing	1	\$ 1,200.00	\$ 1,200.00	
	operation	1	\$ 1,000.00	\$ 1,000.00	
				\$ 3,900.00	\$ 3,900.00
GEOCHEMISTRY					
	rock	40	\$ 120.00	\$ 4,800.00	
	soil	60	\$ 60.00	\$ 3,600.00	
	MMI	60	\$ 45.00	\$ 2,700.00	
				\$ 11,100.00	\$ 11,100.00
MEALS & ACCOMMODATION					
	meals	56	\$ 50.00	\$ 2,800.00	
	motel/hotel	14	\$ 200.00	\$ 2,800.00	
				\$ 5,600.00	\$ 5,600.00
RENTALS/SUPPLIES					
	quads	28	\$ 100.00	\$ 2,800.00	
	equipment		\$ 1,000.00	\$ 1,000.00	
				\$ 3,800.00	\$ 3,800.00
				Sub-total =	\$ 55,000.00
				CONTINGENCY 15% =	\$ 8,250.00
				Sub-total =	\$ 63,250.00
				HST 15% =	\$ 9,487.50
				GRAND TOTAL	\$ 72,737.50

Table 13-1: Table of recommended exploration expenditures for 2020

14.STATEMENT OF 2019 EXPENDITURES

The Senior Geologist on this program was Adewara Odewande (P. Geo.). Field assistance was provided by Wynston Vollant from Schefferville. Maps and figures were provided by consulting geologist P.K. Smith (P. Geo.) from Nova Scotia.

Exploration on the five (5) Kivivic No.1 claims was part of a larger work program in the area that occurred between August 26th and September 14th, 2019.

Expenditures on SMI's Kivivic No.1 claims are either direct costs for work performed or have been prorated based on proportional time-related expenses relevant to the Kivivic No. 1 claims.

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15.STATEMENT OF QUALIFICATIONS

CERTIFICATE of AUTHOR

Adewara Odewande

I, Adewara Odewande have authored this report and have supervised work carried out during this exploration.

I am familiar with the Labrador Trough having worked with SMI/LIM for several years carrying out geological and geochemical investigations.

By virtue of my professional status as a geoscientist I am qualified to conduct exploration in Quebec.

My Permit Number for conducting geological work in Quebec is #1952.

Respectfully submitted,

Adewara Odewande, Ph.D., P.Geol.

A handwritten signature in black ink, appearing to read 'Adewara Odewande', with a stylized flourish at the end.

Effective Date: January 10, 2020

Signing Date: February 01, 2020

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17.APPENDIX

- 2019 Soil Descriptions for Claim CDC 2016806
- Assay Certificate

**2019 SOIL DESCRIPTION FOR CLAIM CDC 2016806
(North Zone – Kivivic No. 1)**

SOIL SAMPLE NO: E5163010 **CLAIM NO:** CDC 2016806 (Kivivic No.1) **IRON ASSAY:** (FE = 14.60 %)

SOIL COLOR: Brown

Project Zone: North

UTM COORDINATES in NAD83 for ZONE 19 (Quebec)		
Easting (NAD83X19U)	Northing (NAD83Y19U)	Elevation (AMSL) metres
605512	6105438	694



GENERAL DESCRIPTION: Moderate soil development from surface with a thin organic layer. Contains minor rounded clasts are up to one (1) centimetre.

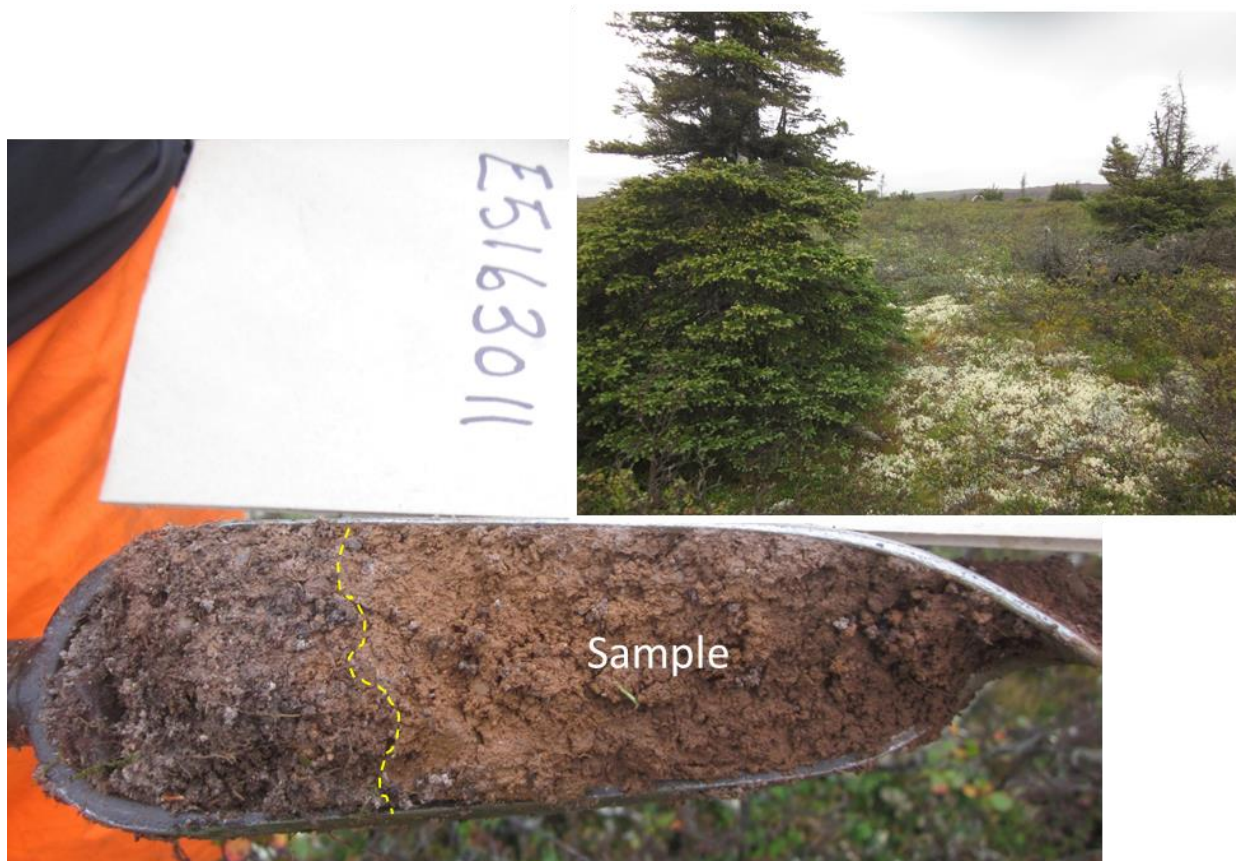
TOPOGRAPHY: Low local relief with low ground cover dominated by low bushes (up to 1.5 metres) and caribou moss. Rare black spruce trees scattered across the area. Isolated areas of the ground are free of vegetation.

SAMPLE NO: E5163011 **CLAIM NO:** CDC 2016806 (Kivivic No.1) **IRON ASSAY:** (FE = 14.90 %)

SOIL COLOR: Tan-brown

Project Zone: North

UTM COORDINATES in NAD83 for ZONE 19 (Quebec)		
Easting (NAD83X19U)	Northing (NAD83Y19U)	Elevation (AMSL) metres
605524	6105438	694



GENERAL DESCRIPTION: Good soil development with a thin organic layer. Contains minor angular to rounded clasts are up to one (1) centimetre. Minor leaching at the top of the soil in part mixed with the organic layer.

TOPOGRAPHY: Low local relief with low ground cover dominated by low bushes (up to 1.5 metres) and caribou moss. Rare black spruce trees are scattered across the area. Isolated areas of the ground are free of vegetation.

SOIL SAMPLE NO: E5163012 **CLAIM NO:** CDC 2016806 (Kivivic No.1) **IRON ASSAY:** (FE = 13.20 %)

SOIL COLOR: Tan-brown

Project Zone: North

UTM COORDINATES in NAD83 for ZONE 19 (Quebec)		
Easting (NAD83X19U)	Northing (NAD83Y19U)	Elevation (AMSL) metres
605535	6105440	695



GENERAL DESCRIPTION: Good soil development from surface with a thin organic layer. Contains minor angular to rounded clasts are up to one (1) centimetre.

TOPOGRAPHY: Low local relief with low ground cover dominated by low bushes (up to 1.5 metres) and caribou moss. Rare black spruce trees and large boulders are scattered across the area. Small isolated areas of the ground are free of vegetation.

SOIL SAMPLE NO: E5163013 **CLAIM NO:** CDC 2016806 (Kivivic No.1) **IRON ASSAY:** (FE = 13.40 %)

SOIL COLOR: Reddish-brown

Project Zone: North

UTM COORDINATES in NAD83 for ZONE 19 (Quebec)		
Easting (NAD83X19U)	Northing (NAD83Y19U)	Elevation (AMSL) metres
605545	6105440	695



GENERAL DESCRIPTION: Poor soil development from surface with a thin organic layer. Contains abundant angular to rounded clasts are up to one (1) centimetre. Minor rootlets are common in the upper part of the sample interval.

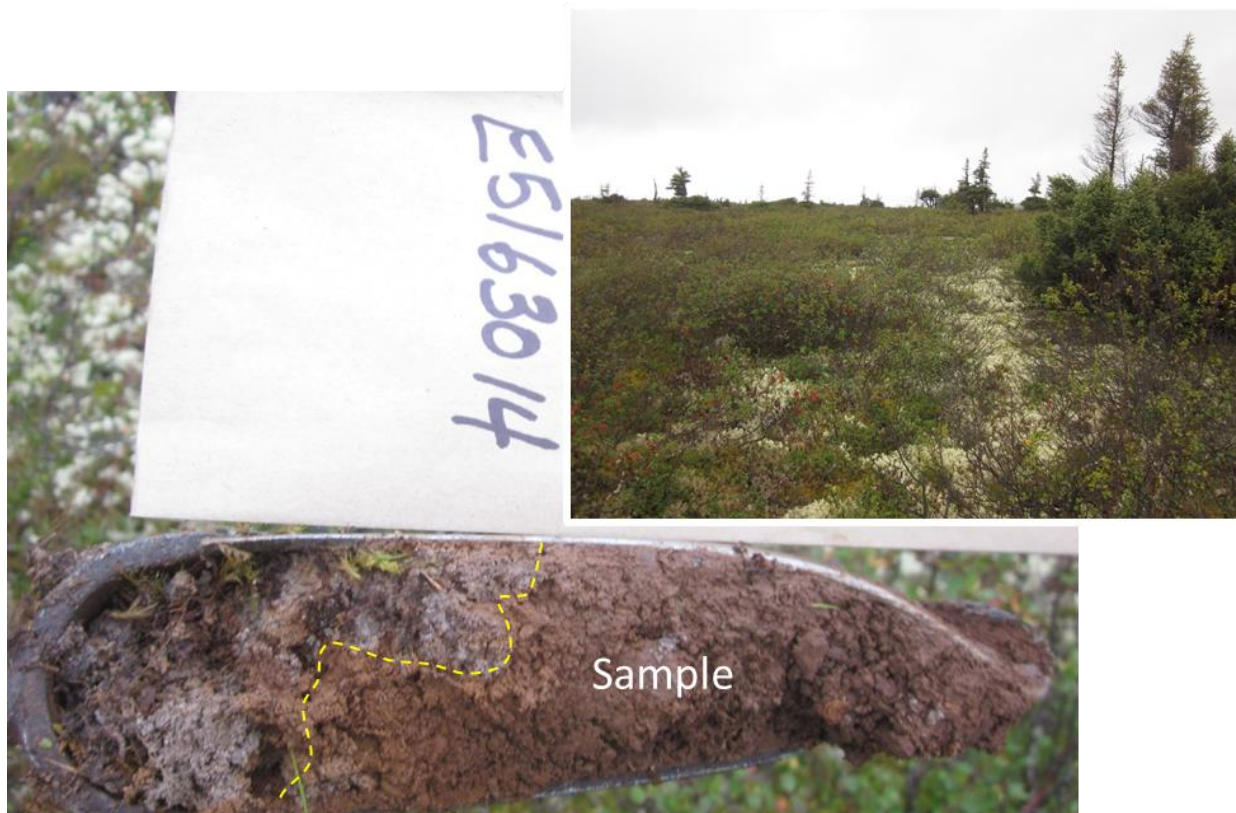
TOPOGRAPHY: Low local relief with low ground cover dominated by low bushes (up to 1.5 metres) and caribou moss. Rare black spruce trees and large boulders are scattered across the area. Isolated areas of the ground are free of vegetation.

SOIL SAMPLE NO: E5163014 **CLAIM NO:** CDC 2016806 (Kivivic No.1) **IRON ASSAY:** (FE = 13.00 %)

SOIL COLOR: Brown

Project Zone: North

UTM COORDINATES in NAD83 for ZONE 19 (Quebec)		
Easting (NAD83X19U)	Northing (NAD83Y19U)	Elevation (AMSL) metres
605556	6105440	694



GENERAL DESCRIPTION: Moderate soil development with a thin organic layer. Contains minor angular to rounded clasts are up to one (1) centimetre. Strong leaching at the top of the soil and below the organic layer.

TOPOGRAPHY: Low local relief with low ground cover dominated by low bushes (up to 1.5 metres) and caribou moss. Rare black spruce trees and large boulders are scattered across the area. Isolated areas of the ground are free of vegetation.

SOIL SAMPLE NO: E5163015 **CLAIM NO:** CDC 2016806 (Kivivic No.1) **IRON ASSAY:** (FE = 14.20 %)

SOIL COLOR: Brown

Project Zone: North

UTM COORDINATES in NAD83 for ZONE 19 (Quebec)		
Easting (NAD83X19U)	Northing (NAD83Y19U)	Elevation (AMSL) metres
605567	6105443	694



GENERAL DESCRIPTION: Moderate soil development from surface with a thin organic layer. Contains minor angular to rounded clasts are up to two (2) centimetres. Minor rootlets at the top of the soil and below the organic layer.

TOPOGRAPHY: Low local relief with low ground cover dominated by low bushes (up to 1.5 metres) and caribou moss. Rare black spruce trees and large boulders are scattered across the area. Isolated areas of the ground are free of vegetation.

SOIL SAMPLE NO: E5163016 **CLAIM NO:** CDC 2016806 (Kivivic No.1) **IRON ASSAY:** (FE = 14.30 %)

SOIL COLOR: Reddish-brown

Project Zone: North

UTM COORDINATES in NAD83 for ZONE 19 (Quebec)		
Easting (NAD83X19U)	Northing (NAD83Y19U)	Elevation (AMSL) metres
605578	6105444	694



GENERAL DESCRIPTION: Good soil development from surface with a thin organic layer. Contains minor angular to rounded clasts are up to one (1) centimetre. Minor leaching at the top of the soil and below the organic layer.

TOPOGRAPHY: Low local relief with low ground cover dominated by low bushes (up to 1.5 metres) and caribou moss. Rare black spruce trees and rare large boulders are scattered across the area. Isolated areas of the ground are free of vegetation.

SOIL SAMPLE NO: E5163017 **CLAIM NO:** CDC 2016806 (Kivivic No.1) **IRON ASSAY:** (FE = 13.60 %)

SOIL COLOR: Reddish-brown

Project Zone: North

UTM COORDINATES in NAD83 for ZONE 19 (Quebec)		
Easting (NAD83X19U)	Northing (NAD83Y19U)	Elevation (AMSL) metres
605588	6105443	693



GENERAL DESCRIPTION: Good soil development from surface with a thin organic layer. Contains minor angular to rounded clasts are up to two (2) centimetres.

TOPOGRAPHY: Low local relief with low ground cover dominated by low bushes (up to 1.5 metres) and caribou moss. Rare black spruce trees and rare large boulders are scattered across the area. Isolated areas of the ground are free of vegetation.

SOIL SAMPLE NO: E5163018 **CLAIM NO:** CDC 2016806 (Kivivic No.1) **IRON ASSAY:** (FE = 12.90 %)

SOIL COLOR: Brown

Project Zone: North

UTM COORDINATES in NAD83 for ZONE 19 (Quebec)		
Easting (NAD83X19U)	Northing (NAD83Y19U)	Elevation (AMSL) metres
605601	6105441	692



GENERAL DESCRIPTION: Moderate soil development from surface with a thin organic layer. Contains minor angular to rounded clasts are up to one (1) centimetre.

TOPOGRAPHY: Low local relief with low ground cover dominated by low bushes (up to 1.5 metres) and caribou moss. Rare black spruce trees and isolated large boulders are scattered across the area. Minor areas of the ground are free of vegetation.

SOIL SAMPLE NO: E5163019 **CLAIM NO:** CDC 2016806 (Kivivic No.1) **IRON ASSAY:** (FE = 14.90 %)

SOIL COLOR: Chocolate-brown

Project Zone: North

UTM COORDINATES in NAD83 for ZONE 19 (Quebec)		
Easting (NAD83X19U)	Northing (NAD83Y19U)	Elevation (AMSL) metres
605612	6105440	693



GENERAL DESCRIPTION: Poor soil development from surface with a thin organic layer. Contains minor angular to rounded clasts are up to one (1) centimetre. Soil gets darker with depth.

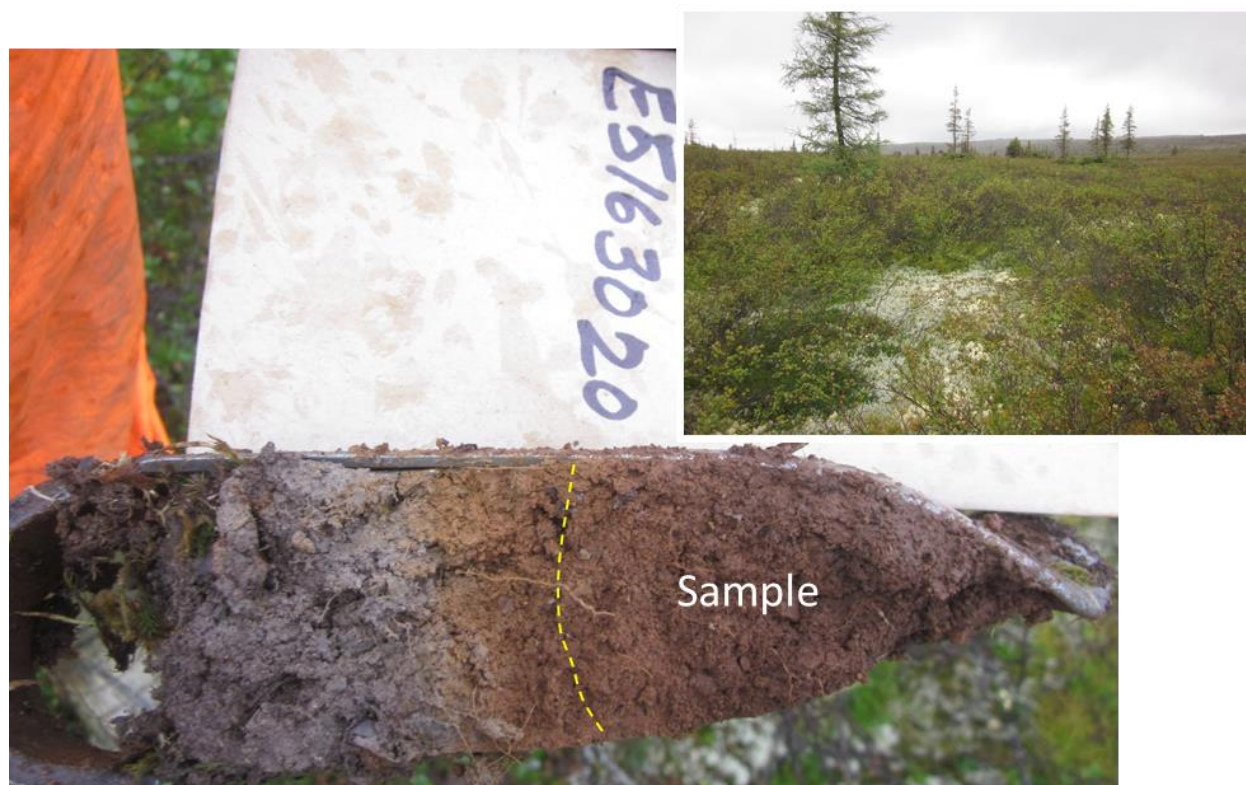
TOPOGRAPHY: Low local relief with low ground cover dominated by low bushes (up to 1.5 metres) and caribou moss. Rare black spruce trees and secluded large boulders are scattered across the area. Minor areas of the ground are free of vegetation.

SOIL SAMPLE NO: E5163020 **CLAIM NO:** CDC 2016806 (Kivivic No.1) **IRON ASSAY:** (FE = 12.80 %)

SOIL COLOR: Brown

Project Zone: North

UTM COORDINATES in NAD83 for ZONE 19 (Quebec)		
Easting (NAD83X19U)	Northing (NAD83Y19U)	Elevation (AMSL) metres
605623	6105440	691



GENERAL DESCRIPTION: Good soil development from surface with a thin organic layer and strong leach zone. Contains minor angular to rounded clasts less than one (1) centimetre.

TOPOGRAPHY: Low local relief with low ground cover dominated by low bushes (up to 1.5 metres) and caribou moss. Rare black spruce trees and secluded large boulders are scattered across the area. Minor areas of the ground are free of vegetation.

SOIL SAMPLE NO: E5163021 **CLAIM NO:** CDC 2016806 (Kivivic No.1) **IRON ASSAY:** (FE = 13.70 %)

SOIL COLOR: Chocolate-brown

Project Zone: North

UTM COORDINATES in NAD83 for ZONE 19 (Quebec)		
Easting (NAD83X19U)	Northing (NAD83Y19U)	Elevation (AMSL) metres
605634	6105440	690



GENERAL DESCRIPTION: Poor soil development from surface with a thin organic layer. Contains minor angular to rounded clasts are up to one (1) centimetre. Minor rootlets at the top of the soil interval.

TOPOGRAPHY: Low local relief with low ground cover dominated by low bushes (up to 1.5 metres) and caribou moss. Rare black spruce trees and secluded large boulders are scattered across the area. Minor areas of the ground are free of vegetation.

SOIL SAMPLE NO: E5163022 **CLAIM NO:** CDC 2016806 (Kivivic No.1) **IRON ASSAY:** (FE = 14.20 %)

SOIL COLOR: Reddish-brown

Project Zone: North

UTM COORDINATES in NAD83 for ZONE 19 (Quebec)		
Easting (NAD83X19U)	Northing (NAD83Y19U)	Elevation (AMSL) metres
605645	6105438	689



GENERAL DESCRIPTION: Poor soil development from surface with a thin organic layer. Contains minor angular to rounded clasts are up to one (1) centimetre and minor rootlets.

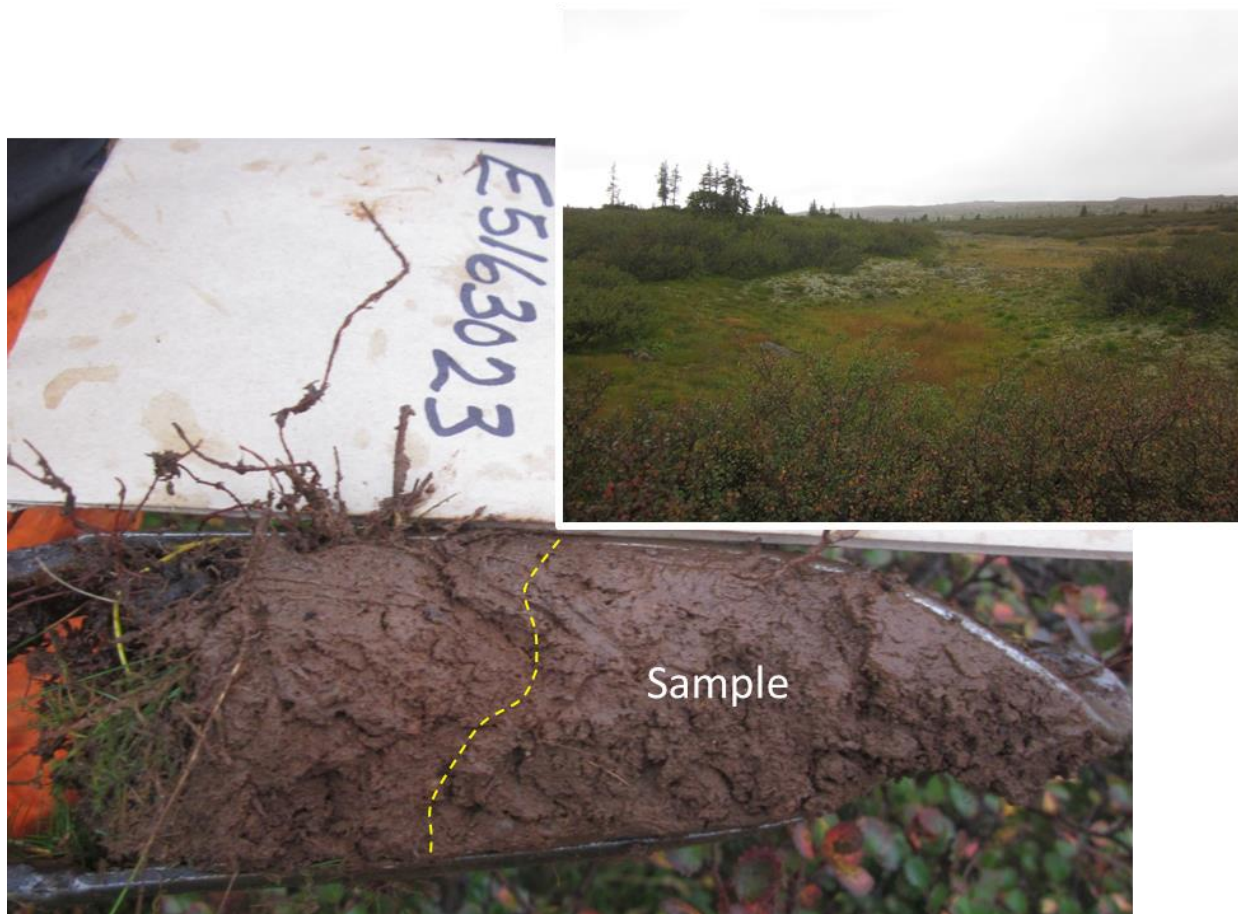
TOPOGRAPHY: Low local relief with low ground cover dominated by low bushes (up to 1.5 metres) and caribou moss. Rare black spruce trees in clusters and isolated boulders are scattered across the area. Rare areas of the ground are free of vegetation.

SOIL SAMPLE NO: E5163023 **CLAIM NO:** CDC 2016806 (Kivivic No.1) **IRON ASSAY:** (FE = 14.20 %)

SOIL COLOR: Reddish-brown

Project Zone: North

UTM COORDINATES in NAD83 for ZONE 19 (Quebec)		
Easting (NAD83X19U)	Northing (NAD83Y19U)	Elevation (AMSL) metres
605656	6105438	688



GENERAL DESCRIPTION: Poor soil development from surface with a thin organic root layer at the top. Contains minor angular to rounded clasts are up to one (1) centimetre. Minor leaching at the top of the soil and below the organic layer.

TOPOGRAPHY: Low local relief with low ground cover dominated by low bushes (up to 1.5 metres) and caribou moss. Rare black spruce trees and occasional boulders are scattered across the area.

SOIL SAMPLE NO: E5163024 **CLAIM NO:** CDC 2016806 (Kivivic No.1) **IRON ASSAY:** (FE = 13.00 %)

SOIL COLOR: Reddish-brown

Project Zone: North

UTM COORDINATES in NAD83 for ZONE 19 (Quebec)		
Easting (NAD83X19U)	Northing (NAD83Y19U)	Elevation (AMSL) metres
605666	6105435	688



GENERAL DESCRIPTION: Moderate soil development from surface with a thin organic layer. Contains minor angular to rounded clasts less than one (1) centimetre.

TOPOGRAPHY: Low local relief with low ground cover dominated by low bushes (up to 3 metres) and caribou moss. Rare black spruce trees and a few boulders are scattered across the area.

SOIL SAMPLE NO: E5163025 **CLAIM NO:** CDC 2016806 (Kivivic No.1) **IRON ASSAY:** (FE = 15.10 %)

SOIL COLOR: Reddish-brown

Project Zone: North

UTM COORDINATES in NAD83 for ZONE 19 (Quebec)		
Easting (NAD83X19U)	Northing (NAD83Y19U)	Elevation (AMSL) metres
605678	6105436	691



GENERAL DESCRIPTION: Moderate soil development from surface with a thin organic layer. Contains minor angular to rounded clasts less than one (1) centimetre.

TOPOGRAPHY: Low local relief with low ground cover dominated by low bushes (up to 3 metres) and caribou moss. Rare black spruce trees and a few boulders are scattered across the area.

SOIL SAMPLE NO: E5163026 **CLAIM NO:** CDC 2016806 (Kivivic No.1) **IRON ASSAY:** (FE = 13.60 %)

SOIL COLOR: Brown

Project Zone: North

UTM COORDINATES in NAD83 for ZONE 19 (Quebec)		
Easting (NAD83X19U)	Northing (NAD83Y19U)	Elevation (AMSL) metres
605689	6105437	690



GENERAL DESCRIPTION: Moderate soil development from surface with a thin organic layer. Contains minor angular to rounded clasts less than one (1) centimetre.

TOPOGRAPHY: Low local relief with low ground cover dominated by low bushes (up to 2 metres) and caribou moss. Rare black spruce trees and a few boulders are scattered across the area.

SOIL SAMPLE NO: E5163027 **CLAIM NO:** CDC 2016806 (Kivivic No.1) **IRON ASSAY:** (FE = 15.20 %)

SOIL COLOR: Reddish-brown

Project Zone: North

UTM COORDINATES in NAD83 for ZONE 19 (Quebec)		
Easting (NAD83X19U)	Northing (NAD83Y19U)	Elevation (AMSL) metres
605701	6105436	691



GENERAL DESCRIPTION: Good soil development from surface with a thin organic layer. Contains minor angular to rounded clasts less than one (1) centimetre.

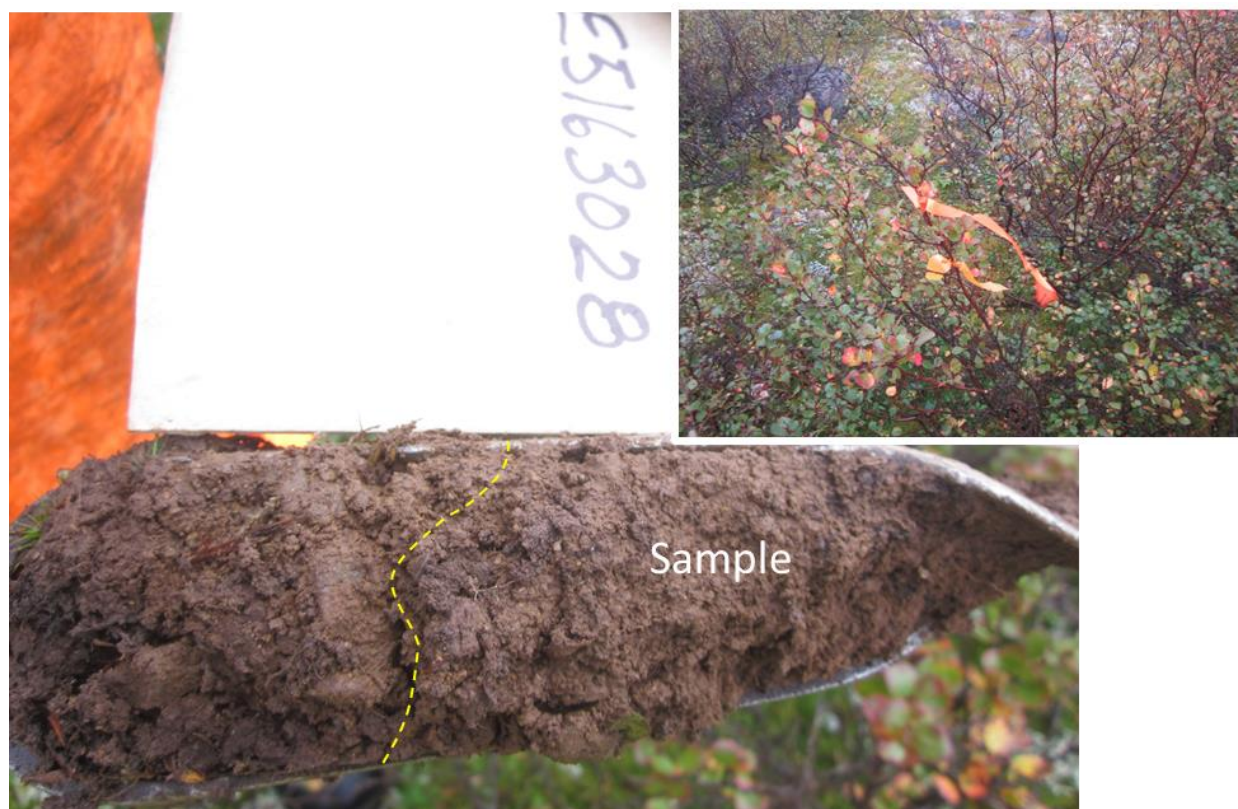
TOPOGRAPHY: Low local relief with low ground cover dominated by low bushes (up to 2 metres) and caribou moss. Rare black spruce trees and a few boulders are scattered across the area.

SOIL SAMPLE NO: E5163028 **CLAIM NO:** CDC 2016806 (Kivivic No.1) **IRON ASSAY:** (FE = 11.60 %)

SOIL COLOR: Tan-brown

Project Zone: North

UTM COORDINATES in NAD83 for ZONE 19 (Quebec)		
Easting (NAD83X19U)	Northing (NAD83Y19U)	Elevation (AMSL) metres
605668	6105481	689



GENERAL DESCRIPTION: Moderate soil development from surface with a thin organic layer. Contains minor angular to rounded clasts less than one (1) centimetre.

TOPOGRAPHY: Low local relief with low ground cover dominated by low bushes (up to 2.5 metres) and caribou moss. Rare black spruce trees and a few boulders are scattered across the area.

**ASSAY CERTIFICATES
(KIVIVIC NO.1 SOIL GEOCHEMISTRY)
AGAT LABORATORIES**



CLIENT NAME: LABRADOR IRON MINES LIMITED
220 BAY STREET, SUITE 700
TORONTO, ON M5J2W4
(647) 728-4125

ATTENTION TO: Paul Smith

PROJECT:

AGAT WORK ORDER: 19T536945

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Dec 11, 2019

PAGES (INCLUDING COVER): 96

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.



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(200-) Sample Login Weight

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5417863 (662859)		0.295
E5417864 (662860)		0.308
E5417865 (662861)		0.337
E5417866 (662862)		0.339
E5417867 (662863)		0.32
E5417886 (662864)		0.503
E5417887 (662865)		0.407
E5417888 (662866)		0.326
E5417889 (662867)		0.387
E5417890 (662868)		0.441
E5417891 (662869)		0.344
E5417892 (662870)		0.493
E5129400 (662871)		0.486
E5129401 (662872)		0.477
E5129402 (662873)		0.345
E5129403 (662874)		0.394
E5129404 (662875)		0.521
E5129405 (662876)		0.551
E5129406 (662877)		0.397
E5129407 (662878)		0.378
E5129408 (662879)		0.321
E5129409 (662880)		0.279
E5420237 (662881)		0.438
E5420238 (662882)		0.392
E5420239 (662883)		0.452
E5420240 (662884)		0.418
E5420241 (662885)		0.537
E5420242 (662886)		0.329
E5420243 (662887)		0.337
E5420244 (662888)		0.416
E5420245 (662889)		0.487

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(200-) Sample Login Weight

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5420246 (662890)		0.355
E5420247 (662891)		0.524
E5420248 (662892)		0.503
E5420249 (662893)		0.305
E5420250 (662894)		0.389
E5420251 (662895)		0.430
E5420252 (662896)		0.363
E5420253 (662897)		0.367
E5420254 (662898)		0.366
E5420255 (662899)		0.353
E5420256 (662900)		0.400
E5420257 (662901)		0.326
E5420258 (662902)		0.321
E5420259 (662903)		0.401
E5308866 (662904)		0.406
E5308867 (662905)		0.367
E5308868 (662906)		0.324
E5308869 (662907)		0.449
E5308870 (662908)		0.474
E5308871 (662909)		0.307
E5308872 (662910)		0.409
E5308873 (662911)		0.421
E5308874 (662912)		0.458
E5308875 (662913)		0.318
E5308876 (662914)		0.364
E5308877 (662915)		0.449
E5308878 (662916)		0.575
E5308879 (662917)		0.565
E5308880 (662918)		0.493
E5308881 (662919)		0.466
E5308882 (662920)		0.457

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(200-) Sample Login Weight

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5308883 (662921)		0.359
E5308884 (662922)		0.366
E5163036 (662923)		0.467
E5163037 (662924)		0.338
E5163038 (662925)		0.503
E5163039 (662926)		0.419
E5163040 (662927)		0.484
E5163041 (662928)		0.578
E5163042 (662929)		0.595
E5163043 (662930)		0.459
E5163044 (662931)		0.518
E5163045 (662932)		0.424
E5163046 (662933)		0.427
E5163047 (662934)		0.542
E5163048 (662935)		0.624
E5163049 (662936)		0.548
E5163050 (662937)		0.426
E5163051 (662938)		0.418
E5163052 (662939)		0.393
E5163053 (662940)		0.424
E5163054 (662941)		0.388
E5163055 (662942)		0.529
E5163056 (662943)		0.423
E5163057 (662944)		0.295
E5163058 (662945)		0.284
E5163059 (662946)		0.318
E5420210 (662947)		0.373
E5420211 (662948)		0.437
E5420212 (662949)		0.331
E5420213 (662950)		0.369
E5420214 (662951)		0.347

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(200-) Sample Login Weight

DATE SAMPLED: Oct 28, 2019 DATE RECEIVED: Oct 29, 2019 DATE REPORTED: Dec 11, 2019 SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5420215 (662952)		0.265
E5420216 (662953)		0.357
E5420217 (662954)		0.319
E5420218 (662955)		0.373
E5420219 (662956)		0.300
E5420220 (662957)		0.342
E5420221 (662958)		0.360
E5420222 (662959)		0.440
E5420223 (662960)		0.309
E5420224 (662961)		0.313
E5420225 (662962)		0.385
E5420226 (662963)		0.448
E5420227 (662964)		0.433
E5420228 (662965)		0.482
E5420229 (662966)		0.489
E5420230 (662967)		0.486
E5420231 (662968)		0.420
E5420232 (662969)		0.424
E5420233 (662970)		0.450
E5420234 (662971)		0.378
E5420235 (662972)		0.364
E5420236 (662973)		0.355
E5163010 (662974)		0.628
E5163011 (662975)		0.513
E5163012 (662976)		0.488
E5163013 (662977)		0.386
E5163014 (662978)		0.439
E5163015 (662979)		0.475
E5163016 (662980)		0.311
E5163017 (662981)		0.426
E5163018 (662982)		0.511

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(200-) Sample Login Weight

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5163019 (662983)		0.385
E5163020 (662984)		0.415
E5163021 (662985)		0.548
E5163022 (662986)		0.505
E5163023 (662987)		0.373
E5163024 (662988)		0.353
E5163025 (662989)		0.439
E5163026 (662990)		0.433
E5163027 (662991)		0.447
E5163028 (662992)		0.364
E5163029 (662993)		0.700
E5163030 (662994)		0.509
E5163031 (662995)		0.354
E5163032 (662996)		0.519
E5163033 (662997)		0.496
E5163034 (662998)		0.543
E5163035 (662999)		0.613
E5308974 (663000)		0.455
E5308975 (663001)		0.390
E5308976 (663002)		0.413
E5308977 (663003)		0.396
E5308978 (663004)		0.300
E5308979 (663005)		0.377
E5308980 (663006)		0.286
E5308981 (663007)		0.365
E5308982 (663008)		0.332
E5308983 (663009)		0.288
E5308984 (663010)		0.366
E5308985 (663011)		0.383
E5308986 (663012)		0.280
E5308987 (663013)		0.459

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Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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<http://www.agatlabs.com>

CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(200-) Sample Login Weight

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5308988 (663014)		0.343
E5308989 (663015)		0.426
E5308990 (663016)		0.353
E5308991 (663017)		0.340
E5308992 (663018)		0.376
E5308993 (663019)		0.424
E5308994 (663020)		0.411
E5308995 (663021)		0.382
E5308996 (663022)		0.517
E5308997 (663023)		0.453
E5308998 (663024)		0.375
E5308999 (663025)		0.346
E5129139 (663026)		0.390
E5129140 (663027)		0.372
E5129141 (663028)		0.327
E5129142 (663029)		0.393
E5129143 (663030)		0.373
E5129144 (663031)		0.294
E5129145 (663032)		0.400
E5129146 (663033)		0.318
E5129147 (663034)		0.331
E5129148 (663035)		0.304
E5129149 (663036)		0.370
E5129150 (663037)		0.382
E5129151 (663038)		0.273
E5129152 (663039)		0.403
E5129153 (663040)		0.255
E5129154 (663041)		0.250
E5129155 (663042)		0.335
E5129156 (663043)		0.410
E5129157 (663044)		0.334

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(200-) Sample Login Weight

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5129158 (663045)		0.441
E5129159 (663046)		0.478
E5308953 (663047)		0.647
E5308954 (663048)		0.556
E5308955 (663049)		0.550
E5308956 (663050)		0.469
E5308957 (663051)		0.477
E5308958 (663052)		0.474
E5308959 (663053)		0.481
E5308960 (663054)		0.330
E5308961 (663055)		0.326
E5308962 (663056)		0.311
E5308963 (663057)		0.342
E5308964 (663058)		0.422
E5308965 (663059)		0.349
E5308966 (663060)		0.315
E5308967 (663061)		0.377
E5308968 (663062)		0.342
E5308969 (663063)		0.375
E5308970 (663064)		0.389
E5308971 (663065)		0.473
E5308972 (663066)		0.345
E5308973 (663067)		0.474
E5308934 (663068)		0.386
E5308935 (663069)		0.524
E5308936 (663070)		0.306
E5308937 (663071)		0.672
E5308938 (663072)		0.358
E5308939 (663073)		0.464
E5308940 (663074)		0.407
E5308941 (663075)		0.432

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Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
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 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(200-) Sample Login Weight

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5308942 (663076)		0.425
E5308943 (663077)		0.496
E5308944 (663078)		0.549
E5308945 (663079)		0.438
E5308946 (663080)		0.456
E5308947 (663081)		0.370
E5308948 (663082)		0.469
E5308949 (663083)		0.385
E5308950 (663084)		0.456
E5308951 (663085)		0.435
E5308952 (663086)		0.485
E5308910 (663087)		0.390
E5308911 (663088)		-
E5308912 (663089)		0.443
E5308913 (663090)		0.393
E5308914 (663091)		0.404
E5308915 (663092)		0.478
E5308916 (663093)		0.416
E5308917 (663094)		0.539
E5308918 (663095)		0.481
E5308919 (663096)		0.570
E5308920 (663097)		0.414
E5308921 (663098)		0.435
E5308922 (663099)		0.433
E5308923 (663100)		0.464
E5308924 (663101)		0.336
E5308925 (663102)		0.359
E5308926 (663103)		0.362
E5308927 (663104)		0.346
E5308928 (663105)		0.446
E5308929 (663106)		0.535

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AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(200-) Sample Login Weight

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5308930 (663107)		0.381
E5308931 (663108)		0.411
E5308932 (663109)		0.525
E5308933 (663110)		0.406
E5129380 (663111)		0.499
E5129381 (663112)		0.300
E5129382 (663113)		0.294
E5129383 (663114)		0.368
E5129384 (663115)		0.320
E5129385 (663116)		0.310
E5129386 (663117)		0.418
E5129387 (663118)		0.434
E5129388 (663119)		0.442
E5129389 (663120)		0.327
E5129390 (663121)		0.379
E5129391 (663122)		0.438
E5129392 (663123)		0.248
E5129393 (663124)		0.362
E5129394 (663125)		0.321
E5129395 (663126)		0.336
E5129396 (663127)		0.405
E5129397 (663128)		0.348
E5129398 (663129)		0.413
E5129399 (663130)		0.390
E5309000 (663131)		0.433
E5309001 (663132)		0.391
E5309002 (663133)		0.414
E5309003 (663134)		0.319
E5309004 (663135)		0.423
E5309005 (663136)		0.398
E5309006 (663137)		0.435

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(200-) Sample Login Weight

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5309007 (663138)		0.516
E5309008 (663139)		0.397
E5309009 (663140)		0.523
E5309010 (663141)		0.342
E5309011 (663142)		0.399
E5309012 (663143)		0.493
E5309013 (663144)		0.453
E5309014 (663145)		0.471
E5309015 (663146)		0.362
E5309016 (663147)		0.513
E5309017 (663148)		0.413
E5309018 (663149)		0.464
E5309019 (663150)		0.498
E5309020 (663151)		0.564
E5309021 (663152)		0.369
E5309022 (663153)		0.504
E5309023 (663154)		0.429
E5309024 (663155)		0.530
E5309025 (663156)		0.341
E5309026 (663157)		0.477
E5309027 (663158)		0.430
E5309028 (663159)		0.479
E5309029 (663160)		0.433
E5309030 (663161)		0.423
E5309031 (663162)		0.331
E5309032 (663163)		0.536
E5309033 (663164)		0.472
E5309034 (663165)		0.393
E5309035 (663166)		0.422
E5309036 (663167)		0.434
E5309037 (663168)		0.340

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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 TEL (905)501-9998
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<http://www.agatlabs.com>

CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(200-) Sample Login Weight

DATE SAMPLED: Oct 28, 2019 DATE RECEIVED: Oct 29, 2019 DATE REPORTED: Dec 11, 2019 SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
E5309038 (663169)		0.373
E5309039 (663170)		0.451
E5309040 (663171)		0.460
E5309041 (663172)		0.377
E5309042 (663173)		0.439
E5309043 (663174)		0.407
E5309044 (663175)		0.371
E5309045 (663176)		0.409
E5309046 (663177)		0.411
E5309047 (663178)		0.438
E5309048 (663179)		0.344
E5309049 (663180)		0.477
E5309050 (663181)		0.695
E5309051 (663182)		0.438
E5309052 (663183)		0.544
E5309053 (663184)		0.474
E5309054 (663185)		0.427
E5309055 (663186)		0.509
E5309056 (663187)		0.458
E5309057 (663188)		0.579
E5309058 (663189)		0.562
E5309059 (663190)		0.623
E5420130 (663191)		0.524
E5420131 (663192)		0.411
E5420132 (663193)		0.463
E5420133 (663194)		0.740
E5420134 (663195)		0.621
E5420135 (663196)		0.504
E5420136 (663197)		0.694
E5420137 (663198)		0.476
E5420138 (663199)		0.562

Certified By:



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AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(200-) Sample Login Weight

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5420139 (663200)		0.498
E5420140 (663201)		0.373
E5420141 (663202)		0.492
E5420142 (663203)		0.499
E5420143 (663204)		0.518
E5420144 (663205)		0.492
E5420145 (663206)		0.545
E5420146 (663207)		0.377
E5420147 (663208)		0.376
E5420148 (663209)		0.473
E5420149 (663210)		0.378
E5420150 (663211)		0.384
E5420151 (663212)		0.387
E5420152 (663213)		0.377
E5420153 (663214)		0.405
E5420154 (663215)		0.496
E5420155 (663216)		0.295
E5420156 (663217)		0.428
E5420157 (663218)		0.429
E5420158 (663219)		0.374
E5420159 (663220)		0.351
E5420110 (663221)		0.388
E5420111 (663222)		0.339
E5420112 (663223)		0.527
E5420113 (663224)		0.485
E5420114 (663225)		0.436
E5420115 (663226)		0.388
E5420116 (663227)		0.371
E5420117 (663228)		0.361
E5420118 (663229)		0.477
E5420119 (663230)		0.449

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(200-) Sample Login Weight

DATE SAMPLED: Oct 28, 2019	DATE RECEIVED: Oct 29, 2019	DATE REPORTED: Dec 11, 2019	SAMPLE TYPE: Soil
Analyte:	Sample Login Weight		
Unit:	kg		
RDL:	0.01		
Sample ID (AGAT ID)			
E5420120 (663231)	0.420		
E5420121 (663232)	0.498		
E5420122 (663233)	0.502		
E5420123 (663234)	0.283		
E5420124 (663235)	0.281		
E5420125 (663236)	0.491		
E5420126 (663237)	0.426		
E5420127 (663238)	0.473		
E5420128 (666124)	0.505		
E5420129 (666126)	0.444		
E5129138 (680459)	0.372		

Comments: RDL - Reported Detection Limit
 Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 1	Al % 0.01	As ppm 5	B ppm 20	Ba ppm 0.5	Be ppm 5	Bi ppm 0.1	Ca % 0.05	Cd ppm 0.2	Ce ppm 0.1	Co ppm 0.5	Cr % 0.005	Cs ppm 0.1	Cu ppm 5
E5417863 (662859)		<1	6.14	18	84	525	<5	0.2	0.42	<0.2	38.2	7.2	0.008	4.9	161
E5417864 (662860)		<1	4.05	32	92	292	<5	<0.1	0.23	<0.2	35.8	6.2	<0.005	2.1	12
E5417865 (662861)		<1	5.74	11	78	500	<5	0.2	0.37	<0.2	42.9	4.8	0.006	4.1	6
E5417866 (662862)		<1	6.15	21	80	428	<5	0.2	0.25	<0.2	53.1	5.2	0.006	3.9	149
E5417867 (662863)		<1	6.04	24	84	461	<5	0.2	0.27	<0.2	36.9	6.6	0.007	3.9	16
E5417886 (662864)		<1	5.95	17	85	457	<5	0.2	0.30	<0.2	43.5	8.5	0.006	3.3	18
E5417887 (662865)		<1	6.04	32	87	496	<5	0.2	0.26	<0.2	39.9	5.6	0.006	4.1	11
E5417888 (662866)		<1	6.19	21	85	476	<5	0.2	0.30	<0.2	46.1	7.4	0.007	3.7	17
E5417889 (662867)		<1	6.18	18	86	488	<5	0.2	0.28	<0.2	42.3	9.1	0.006	4.4	22
E5417890 (662868)		<1	6.34	26	87	529	<5	0.2	0.29	<0.2	45.5	8.7	0.007	4.7	20
E5417891 (662869)		<1	5.11	21	101	402	<5	0.2	0.20	<0.2	39.4	5.7	0.006	3.3	10
E5417892 (662870)		<1	5.61	22	98	460	<5	0.2	0.33	<0.2	72.1	8.9	0.006	2.7	30
E5129400 (662871)		<1	5.67	15	110	429	<5	0.1	0.25	<0.2	47.7	8.9	0.006	3.1	10
E5129401 (662872)		<1	6.30	10	117	478	<5	<0.1	0.20	<0.2	60.1	7.7	0.007	3.7	12
E5129402 (662873)		<1	6.77	10	104	507	<5	0.2	0.23	<0.2	52.9	7.9	0.007	4.2	20
E5129403 (662874)		<1	5.97	11	105	455	<5	0.1	0.21	<0.2	48.6	5.5	0.007	3.4	11
E5129404 (662875)		<1	6.20	16	126	442	<5	0.1	0.18	<0.2	45.0	8.1	0.007	4.5	7
E5129405 (662876)		<1	4.83	22	114	381	<5	<0.1	0.21	0.2	66.0	12.4	0.005	2.3	16
E5129406 (662877)		<1	6.29	6	112	434	<5	0.1	0.21	<0.2	45.8	11.0	0.007	3.9	14
E5129407 (662878)		<1	3.01	24	117	273	<5	<0.1	0.14	<0.2	48.7	4.3	<0.005	1.7	<5
E5129408 (662879)		<1	3.84	20	126	299	<5	<0.1	0.16	<0.2	44.3	9.7	<0.005	1.6	8
E5129409 (662880)		<1	4.27	21	124	287	<5	<0.1	0.15	<0.2	46.1	7.2	<0.005	1.7	8
E5420237 (662881)		<1	4.56	13	96	367	<5	<0.1	0.24	<0.2	58.9	6.9	0.005	1.9	8
E5420238 (662882)		<1	4.21	7	84	333	<5	<0.1	0.34	<0.2	41.4	6.5	<0.005	1.9	7
E5420239 (662883)		<1	4.45	7	91	385	<5	<0.1	0.29	<0.2	52.4	7.4	0.005	1.8	9
E5420240 (662884)		<1	4.41	10	92	382	<5	0.1	0.29	<0.2	51.9	5.6	0.005	2.3	6
E5420241 (662885)		<1	4.64	14	94	386	<5	<0.1	0.32	<0.2	45.3	6.1	0.005	2.3	7
E5420242 (662886)		<1	3.81	5	82	317	<5	<0.1	0.18	<0.2	45.0	4.1	<0.005	1.6	5
E5420243 (662887)		<1	3.95	13	72	328	<5	0.1	0.16	<0.2	37.8	3.2	<0.005	2.8	6
E5420244 (662888)		<1	4.53	8	92	382	<5	0.1	0.22	<0.2	44.0	8.0	0.005	2.3	10
E5420245 (662889)		2	5.38	22	84	403	<5	0.1	0.38	0.2	48.7	9.2	0.007	2.5	11
E5420246 (662890)		1	5.69	28	89	428	<5	0.2	0.32	<0.2	41.7	8.3	0.007	3.4	15

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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<http://www.agatlabs.com>

CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 1	Al % 0.01	As ppm 5	B ppm 20	Ba ppm 0.5	Be ppm 5	Bi ppm 0.1	Ca % 0.05	Cd ppm 0.2	Ce ppm 0.1	Co ppm 0.5	Cr % 0.005	Cs ppm 0.1	Cu ppm 5
E5420247 (662891)		1	5.09	18	95	413	<5	0.2	0.39	<0.2	49.4	11.1	0.007	2.9	12
E5420248 (662892)		<1	5.71	16	91	401	<5	0.2	0.40	<0.2	49.9	9.3	0.009	3.0	14
E5420249 (662893)		<1	5.18	22	93	452	<5	0.1	0.35	<0.2	37.0	6.4	0.006	3.1	9
E5420250 (662894)		<1	5.20	15	75	445	<5	<0.1	0.25	<0.2	36.4	6.9	0.006	3.6	16
E5420251 (662895)		<1	5.19	24	104	436	<5	0.2	0.39	<0.2	69.5	9.5	0.007	3.2	8
E5420252 (662896)		1	5.44	26	104	392	<5	0.1	0.43	0.2	57.7	10.1	0.008	3.0	11
E5420253 (662897)		<1	5.53	25	85	453	<5	0.1	0.39	<0.2	40.9	8.8	0.006	2.5	12
E5420254 (662898)		<1	5.27	22	89	445	<5	0.2	0.38	<0.2	46.3	5.7	0.006	3.5	13
E5420255 (662899)		<1	5.81	23	81	444	<5	0.1	0.36	<0.2	37.6	7.4	0.006	3.7	13
E5420256 (662900)		<1	5.40	32	88	403	<5	0.1	0.38	<0.2	55.4	7.5	0.006	2.9	9
E5420257 (662901)		<1	4.84	15	69	440	<5	0.2	0.32	<0.2	36.5	4.6	0.006	3.3	9
E5420258 (662902)		<1	5.78	21	78	471	<5	0.2	0.39	<0.2	38.9	7.0	0.007	3.4	16
E5420259 (662903)		<1	5.53	13	95	476	<5	0.2	0.31	<0.2	39.3	7.5	0.007	4.0	11
E5308866 (662904)		<1	5.81	16	83	483	<5	0.2	0.31	<0.2	34.5	6.4	0.007	3.5	13
E5308867 (662905)		<1	6.75	17	86	543	<5	0.2	0.36	<0.2	54.5	13.4	0.008	3.7	42
E5308868 (662906)		<1	6.56	20	81	493	<5	0.1	0.37	<0.2	35.3	7.9	0.007	3.4	16
E5308869 (662907)		1	6.36	17	79	501	<5	0.1	0.37	<0.2	48.6	9.7	0.007	3.5	24
E5308870 (662908)		<1	6.22	24	83	518	<5	0.2	0.37	<0.2	60.1	12.7	0.006	3.5	32
E5308871 (662909)		<1	6.25	23	77	517	<5	0.1	0.45	<0.2	42.7	11.4	0.006	3.0	17
E5308872 (662910)		<1	6.99	21	93	581	<5	0.2	0.42	0.4	74.7	18.5	0.007	3.9	56
E5308873 (662911)		<1	6.54	15	69	491	<5	0.2	0.38	<0.2	39.1	6.2	0.006	3.3	15
E5308874 (662912)		1	7.11	17	77	572	<5	0.2	0.49	<0.2	55.5	13.0	0.007	3.2	41
E5308875 (662913)		<1	6.77	14	79	529	<5	0.2	0.42	<0.2	42.2	7.4	0.007	3.3	20
E5308876 (662914)		<1	6.96	13	84	544	<5	0.2	0.42	<0.2	55.0	15.0	0.007	3.2	40
E5308877 (662915)		<1	6.53	16	79	528	<5	0.2	0.44	<0.2	54.8	8.7	0.006	3.2	22
E5308878 (662916)		<1	6.60	19	87	517	<5	0.2	0.37	0.2	57.4	11.9	0.007	3.3	38
E5308879 (662917)		1	4.71	19	74	302	<5	0.2	0.21	<0.2	59.6	8.7	0.005	1.7	29
E5308880 (662918)		<1	6.50	13	86	531	<5	0.2	0.34	<0.2	42.4	8.9	0.007	3.8	24
E5308881 (662919)		<1	6.21	20	89	476	<5	0.2	0.33	<0.2	41.9	7.3	0.007	2.9	17
E5308882 (662920)		1	5.93	17	81	421	<5	0.2	0.35	<0.2	51.1	7.2	0.007	2.2	18
E5308883 (662921)		<1	6.04	8	82	482	<5	0.2	0.32	<0.2	34.8	6.7	0.007	3.0	14
E5308884 (662922)		<1	5.92	20	82	384	<5	0.3	0.24	<0.2	36.3	8.0	0.007	2.9	18

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 1	Al % 0.01	As ppm 5	B ppm 20	Ba ppm 0.5	Be ppm 5	Bi ppm 0.1	Ca % 0.05	Cd ppm 0.2	Ce ppm 0.1	Co ppm 0.5	Cr % 0.005	Cs ppm 0.1	Cu ppm 5
E5163036 (662923)		<1	6.41	15	84	486	<5	0.1	0.41	<0.2	45.7	7.0	0.007	3.5	12
E5163037 (662924)		<1	6.20	9	111	518	<5	0.2	0.32	<0.2	52.6	6.2	0.007	4.0	11
E5163038 (662925)		<1	6.24	14	101	482	<5	0.2	0.40	<0.2	55.7	12.1	0.006	2.4	18
E5163039 (662926)		<1	6.48	9	87	453	<5	0.2	0.37	<0.2	49.0	6.5	0.008	2.9	15
E5163040 (662927)		<1	6.53	13	92	504	<5	0.1	0.41	<0.2	48.1	7.9	0.007	3.1	18
E5163041 (662928)		<1	5.37	14	136	450	<5	0.1	0.18	<0.2	57.0	11.2	0.006	2.6	16
E5163042 (662929)		<1	5.91	<5	108	489	<5	0.1	0.39	<0.2	63.6	11.5	0.006	2.6	24
E5163043 (662930)		<1	6.94	6	84	541	<5	0.2	0.40	<0.2	48.3	10.6	0.007	3.7	25
E5163044 (662931)		<1	4.14	17	130	402	<5	0.1	0.20	<0.2	60.1	13.7	<0.005	1.9	12
E5163045 (662932)		<1	5.99	8	115	484	<5	0.1	0.27	<0.2	52.2	10.2	0.006	2.1	11
E5163046 (662933)		<1	6.34	10	94	486	<5	0.2	0.27	<0.2	45.1	7.7	0.007	3.2	22
E5163047 (662934)		<1	5.61	10	122	400	<5	0.2	0.31	<0.2	53.7	7.2	0.006	2.4	7
E5163048 (662935)		<1	6.27	22	96	450	<5	0.2	0.28	<0.2	53.7	8.7	0.008	3.5	16
E5163049 (662936)		<1	6.50	16	88	544	<5	0.2	0.40	0.2	63.3	13.6	0.007	2.9	38
E5163050 (662937)		<1	6.63	6	79	529	<5	0.2	0.44	<0.2	45.1	9.1	0.007	3.1	18
E5163051 (662938)		<1	6.43	11	90	516	<5	0.2	0.37	<0.2	53.0	12.7	0.007	2.5	20
E5163052 (662939)		<1	6.71	12	87	510	<5	0.2	0.36	<0.2	51.2	12.6	0.007	2.9	20
E5163053 (662940)		<1	6.79	9	91	510	<5	0.2	0.35	<0.2	43.9	8.6	0.008	2.8	21
E5163054 (662941)		<1	6.16	11	85	485	<5	0.1	0.34	<0.2	45.8	7.0	0.007	2.8	12
E5163055 (662942)		<1	4.75	14	121	332	<5	0.1	0.27	<0.2	38.4	5.9	0.006	1.2	5
E5163056 (662943)		<1	7.08	6	124	567	<5	0.2	0.15	<0.2	44.6	5.5	0.008	3.3	8
E5163057 (662944)		2	5.16	26	90	415	<5	0.3	0.37	0.3	37.6	7.3	0.006	2.6	19
E5163058 (662945)		3	5.40	21	78	520	<5	0.2	0.40	<0.2	39.2	5.4	0.005	2.8	10
E5163059 (662946)		2	5.97	16	68	553	<5	0.1	0.48	<0.2	29.0	5.4	0.005	2.4	12
E5420210 (662947)		<1	4.16	14	102	306	<5	0.2	0.22	<0.2	43.7	5.6	<0.005	1.1	<5
E5420211 (662948)		<1	5.42	14	120	345	<5	0.2	0.14	<0.2	49.9	6.9	0.006	1.9	13
E5420212 (662949)		<1	5.89	8	97	481	<5	0.1	0.36	<0.2	64.3	11.2	0.007	1.8	17
E5420213 (662950)		<1	5.76	13	111	401	<5	0.1	0.29	<0.2	58.5	11.4	0.007	2.1	22
E5420214 (662951)		<1	6.66	15	108	466	<5	0.2	0.25	<0.2	44.1	10.6	0.008	2.9	26
E5420215 (662952)		<1	6.54	15	101	458	<5	0.2	0.21	<0.2	46.6	8.1	0.008	4.1	22
E5420216 (662953)		1	6.75	6	91	485	<5	0.2	0.30	<0.2	42.9	9.5	0.008	3.5	29
E5420217 (662954)		<1	5.45	16	105	434	<5	0.2	0.32	<0.2	50.4	9.1	0.007	2.3	16

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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<http://www.agatlabs.com>

CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 1	Al % 0.01	As ppm 5	B ppm 20	Ba ppm 0.5	Be ppm 5	Bi ppm 0.1	Ca % 0.05	Cd ppm 0.2	Ce ppm 0.1	Co ppm 0.5	Cr % 0.005	Cs ppm 0.1	Cu ppm 5
E5420218 (662955)		1	6.28	25	84	477	<5	0.2	0.36	<0.2	47.9	8.0	0.007	3.5	19
E5420219 (662956)		<1	5.94	9	83	436	<5	0.2	0.29	<0.2	43.8	7.5	0.007	2.8	17
E5420220 (662957)		<1	6.66	18	82	481	<5	0.2	0.40	<0.2	64.9	14.5	0.007	2.9	38
E5420221 (662958)		<1	7.05	9	80	510	<5	0.2	0.40	<0.2	58.5	14.8	0.007	3.3	37
E5420222 (662959)		<1	6.52	8	84	507	<5	0.2	0.35	<0.2	46.8	8.0	0.008	3.9	17
E5420223 (662960)		<1	6.31	18	79	474	<5	0.2	0.36	<0.2	44.8	5.7	0.007	3.9	12
E5420224 (662961)		<1	6.01	10	86	478	<5	0.2	0.31	<0.2	37.5	5.6	0.007	3.8	16
E5420225 (662962)		<1	5.95	15	98	455	<5	0.2	0.31	<0.2	48.0	7.9	0.007	3.1	17
E5420226 (662963)		<1	7.03	18	83	519	<5	0.2	0.41	<0.2	54.4	12.3	0.007	3.5	22
E5420227 (662964)		<1	6.37	13	79	501	<5	0.2	0.36	<0.2	45.5	12.1	0.007	3.4	21
E5420228 (662965)		<1	6.47	10	76	533	<5	0.2	0.40	<0.2	47.7	10.0	0.007	3.7	16
E5420229 (662966)		<1	6.82	9	71	489	<5	0.2	0.41	<0.2	46.3	8.2	0.007	3.2	18
E5420230 (662967)		<1	6.63	9	83	525	<5	0.2	0.38	<0.2	55.3	15.2	0.007	3.7	36
E5420231 (662968)		<1	4.23	17	90	383	<5	<0.1	0.34	<0.2	47.6	6.7	<0.005	1.3	8
E5420232 (662969)		<1	4.24	9	94	362	<5	0.1	0.30	<0.2	47.5	5.9	<0.005	1.7	7
E5420233 (662970)		<1	4.29	15	96	360	<5	0.1	0.25	<0.2	56.5	7.6	0.005	1.6	8
E5420234 (662971)		<1	4.61	12	87	380	<5	0.1	0.28	<0.2	48.9	5.9	0.005	1.7	9
E5420235 (662972)		<1	4.32	11	91	361	<5	0.2	0.23	<0.2	49.6	5.8	0.005	1.8	8
E5420236 (662973)		<1	4.80	13	98	392	<5	0.2	0.24	<0.2	47.9	7.0	0.006	2.0	10
E5163010 (662974)		1	5.57	17	99	449	<5	0.2	0.29	<0.2	68.7	12.8	0.007	2.8	28
E5163011 (662975)		<1	5.54	23	94	493	<5	0.2	0.37	<0.2	43.8	12.3	0.007	2.2	18
E5163012 (662976)		<1	5.61	23	97	455	<5	0.2	0.28	0.2	49.4	11.3	0.006	2.7	19
E5163013 (662977)		<1	5.57	20	87	457	<5	0.2	0.43	<0.2	54.1	11.5	0.008	2.2	19
E5163014 (662978)		<1	5.49	18	93	449	<5	0.2	0.29	0.2	47.3	11.3	0.006	2.5	15
E5163015 (662979)		<1	5.72	20	101	486	<5	0.2	0.29	<0.2	55.9	15.3	0.007	3.0	29
E5163016 (662980)		<1	5.10	14	90	458	<5	0.1	0.36	<0.2	45.4	12.6	0.006	2.1	15
E5163017 (662981)		<1	5.27	15	95	418	<5	0.2	0.21	<0.2	48.2	10.5	0.006	2.8	14
E5163018 (662982)		<1	5.58	15	96	435	<5	0.2	0.25	<0.2	52.6	12.6	0.006	2.8	15
E5163019 (662983)		<1	5.54	14	103	479	<5	0.2	0.28	<0.2	58.2	15.0	0.006	2.7	28
E5163020 (662984)		<1	5.40	24	99	451	<5	0.2	0.27	<0.2	49.8	9.7	0.006	2.5	14
E5163021 (662985)		1	5.65	14	106	476	<5	0.2	0.26	0.3	62.2	12.9	0.006	2.8	30
E5163022 (662986)		1	5.37	18	103	451	<5	0.2	0.27	<0.2	54.0	12.6	0.006	2.3	19

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
RDL:	1	0.01	5	20	0.5	5	0.1	0.05	0.2	0.1	0.5	0.005	0.1	5
E5163023 (662987)	<1	5.26	20	105	462	<5	0.2	0.29	<0.2	51.0	12.4	0.007	2.9	23
E5163024 (662988)	<1	4.89	18	95	431	<5	0.2	0.28	<0.2	46.9	9.1	0.006	2.4	14
E5163025 (662989)	<1	5.04	22	103	426	<5	0.2	0.28	<0.2	48.6	10.0	0.007	2.4	13
E5163026 (662990)	<1	5.26	20	95	455	<5	0.2	0.31	<0.2	54.0	12.0	0.006	2.0	21
E5163027 (662991)	<1	4.59	12	96	399	<5	0.2	0.31	<0.2	40.7	5.9	0.006	2.5	9
E5163028 (662992)	1	5.21	8	88	420	<5	0.2	0.24	<0.2	54.3	8.1	0.006	2.3	23
E5163029 (662993)	<1	4.97	17	128	305	<5	0.2	0.28	<0.2	64.2	12.5	0.006	1.8	10
E5163030 (662994)	<1	5.94	14	110	414	<5	0.2	0.28	<0.2	60.2	11.7	0.007	2.4	16
E5163031 (662995)	<1	6.64	15	92	492	<5	0.2	0.39	<0.2	50.4	9.1	0.008	2.5	24
E5163032 (662996)	<1	5.66	14	104	496	<5	0.2	0.32	<0.2	69.6	10.1	0.006	2.2	23
E5163033 (662997)	<1	7.38	8	96	607	<5	0.2	0.28	<0.2	50.8	7.6	0.008	4.0	21
E5163034 (662998)	<1	5.90	5	82	513	<5	0.2	0.46	<0.2	44.8	7.7	0.006	2.4	15
E5163035 (662999)	2	6.13	21	106	376	<5	0.2	0.36	0.5	70.5	12.8	0.007	2.0	13
E5308974 (663000)	1	4.81	28	114	416	<5	0.3	0.30	0.2	45.0	6.2	0.006	2.9	14
E5308975 (663001)	2	6.09	25	86	507	<5	0.4	0.36	0.2	43.6	5.8	0.007	4.1	20
E5308976 (663002)	2	6.79	11	79	499	<5	0.3	0.38	0.3	38.5	7.6	0.007	3.7	18
E5308977 (663003)	1	6.37	18	83	505	<5	0.3	0.37	0.3	49.8	7.7	0.007	4.0	18
E5308978 (663004)	<1	4.25	24	99	385	<5	0.2	0.24	<0.2	51.0	6.1	<0.005	2.3	8
E5308979 (663005)	<1	4.60	13	105	415	<5	0.2	0.27	<0.2	57.6	6.0	0.005	2.3	7
E5308980 (663006)	<1	4.72	19	102	392	<5	0.2	0.25	<0.2	49.9	8.1	0.006	2.1	10
E5308981 (663007)	<1	4.86	14	106	449	<5	0.2	0.30	<0.2	59.4	4.7	0.006	3.5	6
E5308982 (663008)	<1	4.47	14	102	369	<5	0.2	0.24	<0.2	55.3	6.4	0.005	2.5	7
E5308983 (663009)	<1	5.48	7	96	405	<5	0.2	0.34	<0.2	55.4	8.5	0.009	2.1	9
E5308984 (663010)	<1	4.45	7	93	377	<5	0.2	0.23	<0.2	56.9	4.1	<0.005	2.4	5
E5308985 (663011)	<1	4.88	15	100	409	<5	0.2	0.29	<0.2	52.9	7.8	0.006	2.3	10
E5308986 (663012)	<1	4.85	14	93	403	<5	0.2	0.24	<0.2	52.2	7.8	0.006	2.1	12
E5308987 (663013)	<1	4.50	7	97	383	<5	0.2	0.25	<0.2	48.4	6.3	0.005	2.6	7
E5308988 (663014)	2	5.96	11	90	434	<5	0.2	0.32	<0.2	53.3	12.3	0.008	2.6	12
E5308989 (663015)	<1	5.09	17	97	413	<5	0.1	0.33	<0.2	51.2	8.5	0.006	2.7	8
E5308990 (663016)	<1	4.70	17	88	393	<5	0.1	0.24	<0.2	52.4	7.5	0.005	2.8	11
E5308991 (663017)	<1	5.29	10	90	373	<5	0.2	0.25	<0.2	52.2	7.3	0.006	2.2	8
E5308992 (663018)	<1	4.97	10	89	364	<5	0.1	0.30	<0.2	46.9	8.9	0.006	2.0	10

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 1	Al % 0.01	As ppm 5	B ppm 20	Ba ppm 0.5	Be ppm 5	Bi ppm 0.1	Ca % 0.05	Cd ppm 0.2	Ce ppm 0.1	Co ppm 0.5	Cr % 0.005	Cs ppm 0.1	Cu ppm 5
E5308993 (663019)		<1	4.71	19	96	388	<5	0.2	0.24	<0.2	54.3	8.3	0.006	2.5	13
E5308994 (663020)		<1	5.30	12	94	405	<5	0.2	0.23	<0.2	56.4	9.5	0.006	2.5	12
E5308995 (663021)		<1	5.04	13	99	401	<5	0.1	0.22	<0.2	60.8	10.3	0.006	2.6	11
E5308996 (663022)		<1	5.49	9	94	405	<5	0.2	0.23	<0.2	53.0	11.1	0.006	2.4	13
E5308997 (663023)		<1	5.37	14	92	418	<5	0.1	0.22	<0.2	47.8	10.5	0.006	2.6	13
E5308998 (663024)		<1	5.19	21	95	396	<5	0.1	0.21	<0.2	51.3	8.3	0.006	2.2	14
E5308999 (663025)		<1	4.75	14	93	376	<5	0.1	0.26	<0.2	48.5	8.0	0.006	2.1	10
E5129139 (663026)		<1	4.61	7	104	369	<5	0.2	0.17	<0.2	46.2	4.9	0.005	2.5	<5
E5129140 (663027)		<1	4.51	18	118	431	<5	0.2	0.17	<0.2	54.5	5.1	<0.005	2.8	6
E5129141 (663028)		<1	4.83	19	111	394	<5	0.2	0.18	<0.2	51.8	7.6	0.006	2.6	10
E5129142 (663029)		1	4.77	8	102	404	<5	0.2	0.20	<0.2	48.2	4.8	0.006	3.1	<5
E5129143 (663030)		<1	4.83	9	102	370	<5	0.2	0.20	<0.2	43.1	4.7	<0.005	3.1	<5
E5129144 (663031)		<1	5.81	23	102	419	<5	0.2	0.25	<0.2	45.2	6.9	0.007	3.5	12
E5129145 (663032)		<1	4.95	18	100	389	<5	0.2	0.25	<0.2	48.5	6.0	0.006	2.7	9
E5129146 (663033)		<1	6.12	17	91	486	<5	0.2	0.31	<0.2	52.8	7.2	0.007	3.9	16
E5129147 (663034)		<1	5.75	23	93	452	<5	0.2	0.23	<0.2	45.7	7.2	0.006	3.9	15
E5129148 (663035)		<1	6.35	17	90	484	<5	0.2	0.30	<0.2	44.0	8.3	0.007	4.0	19
E5129149 (663036)		<1	6.37	17	90	488	<5	0.3	0.28	<0.2	42.5	8.5	0.007	4.5	21
E5129150 (663037)		<1	6.36	16	80	505	<5	0.2	0.34	<0.2	44.5	8.2	0.007	4.0	23
E5129151 (663038)		<1	6.07	17	92	474	<5	0.2	0.36	<0.2	45.5	8.2	0.006	3.3	19
E5129152 (663039)		<1	5.81	16	85	528	<5	0.2	0.34	<0.2	41.8	7.7	0.006	3.6	18
E5129153 (663040)		<1	5.86	17	88	500	<5	0.3	0.30	<0.2	41.7	7.0	0.007	4.1	17
E5129154 (663041)		<1	6.01	12	86	494	<5	0.2	0.28	<0.2	38.1	6.9	0.007	4.0	18
E5129155 (663042)		<1	6.19	16	82	519	<5	0.3	0.28	<0.2	41.3	6.0	0.006	5.0	16
E5129156 (663043)		<1	6.54	11	80	490	<5	0.3	0.32	<0.2	45.3	9.6	0.007	4.4	24
E5129157 (663044)		<1	6.63	18	77	500	<5	0.3	0.30	<0.2	40.8	6.0	0.007	4.9	20
E5129158 (663045)		<1	5.22	19	95	387	<5	0.2	0.24	<0.2	50.8	9.9	0.005	3.2	13
E5129159 (663046)		<1	6.30	18	86	510	<5	0.3	0.31	<0.2	43.4	8.8	0.007	5.0	17
E5308953 (663047)		<1	5.29	10	100	426	<5	0.2	0.29	<0.2	56.4	13.3	0.006	2.4	18
E5308954 (663048)		<1	4.96	18	92	393	<5	0.1	0.34	<0.2	53.9	9.3	0.008	2.0	10
E5308955 (663049)		<1	4.47	13	98	385	<5	0.1	0.27	<0.2	52.8	8.5	0.005	2.1	7
E5308956 (663050)		<1	4.82	6	99	397	<5	0.1	0.25	<0.2	54.3	9.1	0.005	2.4	10

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
RDL:	1	0.01	5	20	0.5	5	0.1	0.05	0.2	0.1	0.5	0.005	0.1	5
E5308957 (663051)	<1	4.69	17	93	371	<5	0.1	0.25	<0.2	51.1	6.8	0.006	1.9	7
E5308958 (663052)	<1	4.93	13	91	428	<5	0.1	0.25	<0.2	46.7	6.3	0.005	2.6	7
E5308959 (663053)	<1	5.29	10	103	418	<5	0.2	0.25	<0.2	50.9	8.4	0.006	2.8	13
E5308960 (663054)	3	5.34	23	82	455	<5	0.3	0.33	0.2	34.4	5.3	0.005	4.2	14
E5308961 (663055)	2	5.76	27	84	497	<5	0.2	0.32	0.2	39.1	6.2	0.006	5.3	14
E5308962 (663056)	2	6.82	20	82	565	<5	0.3	0.50	1.5	44.2	9.2	0.007	6.6	38
E5308963 (663057)	2	7.36	19	78	587	<5	0.2	0.51	2.0	48.7	10.6	0.007	7.3	60
E5308964 (663058)	2	5.61	22	88	470	<5	0.3	0.25	<0.2	40.7	4.8	0.006	4.5	19
E5308965 (663059)	2	6.14	25	90	540	<5	0.3	0.31	<0.2	40.9	5.7	0.006	5.9	17
E5308966 (663060)	2	5.31	24	88	451	<5	0.3	0.32	<0.2	42.5	5.2	0.006	4.8	15
E5308967 (663061)	2	5.81	29	80	454	<5	0.3	0.34	<0.2	39.1	7.7	0.006	3.6	12
E5308968 (663062)	3	5.94	22	84	504	<5	0.3	0.26	<0.2	37.8	6.3	0.006	5.8	17
E5308969 (663063)	3	7.09	30	84	535	<5	0.3	0.37	0.5	77.8	9.8	0.007	7.9	37
E5308970 (663064)	1	6.54	18	70	607	<5	0.1	0.59	0.4	57.0	12.6	0.005	2.8	31
E5308971 (663065)	3	6.16	29	81	496	<5	0.2	0.41	0.2	37.4	9.6	0.006	3.5	14
E5308972 (663066)	4	5.60	19	85	438	<5	0.2	0.36	<0.2	47.9	6.3	0.006	3.6	13
E5308973 (663067)	3	6.04	22	82	558	<5	0.2	0.45	<0.2	39.2	5.4	0.006	4.2	9
E5308934 (663068)	<1	4.70	25	111	362	<5	<0.1	0.35	<0.2	57.7	7.5	0.008	2.0	<5
E5308935 (663069)	<1	5.32	17	136	497	<5	0.1	0.26	<0.2	66.2	15.4	0.006	2.7	22
E5308936 (663070)	<1	5.39	10	101	428	<5	0.2	0.25	<0.2	50.1	6.1	0.006	2.9	8
E5308937 (663071)	<1	3.25	31	140	344	<5	<0.1	0.16	0.2	74.3	21.8	<0.005	1.9	14
E5308938 (663072)	<1	5.40	8	107	435	<5	0.1	0.27	<0.2	53.7	10.4	0.006	2.7	11
E5308939 (663073)	<1	5.63	11	99	410	<5	0.1	0.32	<0.2	48.9	7.5	0.007	2.8	9
E5308940 (663074)	<1	5.89	21	100	471	<5	0.2	0.42	<0.2	61.6	6.9	0.007	2.9	8
E5308941 (663075)	<1	5.78	8	123	422	<5	0.2	0.17	<0.2	54.9	6.8	0.007	4.1	8
E5308942 (663076)	<1	5.12	18	128	396	<5	0.2	0.20	<0.2	48.3	11.3	0.006	3.1	11
E5308943 (663077)	<1	4.99	19	139	403	<5	0.2	0.21	0.2	58.6	15.1	0.006	2.8	15
E5308944 (663078)	<1	5.19	11	113	443	<5	0.2	0.28	0.2	62.3	14.3	0.006	2.8	27
E5308945 (663079)	<1	5.79	<5	96	488	<5	0.2	0.26	<0.2	54.5	5.4	0.006	2.9	14
E5308946 (663080)	<1	5.94	11	121	457	<5	0.2	0.19	<0.2	66.5	9.4	0.007	3.0	25
E5308947 (663081)	<1	4.39	12	94	379	<5	0.2	0.24	<0.2	40.1	5.5	0.005	2.1	<5
E5308948 (663082)	<1	4.80	19	95	387	<5	0.1	0.27	<0.2	51.6	6.7	0.006	2.1	7

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr %	Cs ppm	Cu ppm
E5308949 (663083)	<1	4.38	7	103	345	<5	0.1	0.19	<0.2	49.8	6.1	0.006	2.2	6	
E5308950 (663084)	<1	4.45	11	98	365	<5	0.2	0.22	<0.2	52.9	5.3	0.005	2.1	<5	
E5308951 (663085)	<1	4.76	13	100	360	<5	0.1	0.20	<0.2	54.6	6.0	0.006	2.3	6	
E5308952 (663086)	<1	5.12	20	94	383	<5	0.2	0.21	<0.2	43.1	5.2	0.006	2.7	7	
E5308910 (663087)	<1	6.69	17	80	526	<5	0.2	0.36	<0.2	47.3	10.0	0.007	4.3	20	
E5308911 (663088)	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC
E5308912 (663089)	<1	7.72	22	88	516	<5	0.2	0.30	<0.2	47.2	9.2	0.009	5.0	26	
E5308913 (663090)	1	7.18	6	74	482	<5	0.2	0.36	<0.2	49.5	10.4	0.007	3.5	20	
E5308914 (663091)	1	7.13	16	81	535	<5	0.2	0.36	<0.2	61.9	14.1	0.007	3.7	30	
E5308915 (663092)	<1	6.85	17	76	542	<5	0.2	0.39	<0.2	47.2	12.9	0.007	4.3	23	
E5308916 (663093)	<1	7.02	16	78	530	<5	0.2	0.37	<0.2	47.0	15.3	0.007	4.2	23	
E5308917 (663094)	<1	6.66	14	84	508	<5	0.2	0.35	<0.2	55.9	12.8	0.007	3.7	26	
E5308918 (663095)	<1	6.63	16	90	516	<5	0.2	0.37	<0.2	65.2	16.0	0.007	3.7	32	
E5308919 (663096)	<1	7.15	13	77	502	<5	0.2	0.35	<0.2	50.5	14.5	0.007	4.2	28	
E5308920 (663097)	<1	6.46	15	88	506	<5	0.2	0.38	<0.2	48.9	13.1	0.007	3.5	25	
E5308921 (663098)	<1	7.11	13	83	551	<5	0.2	0.44	0.3	87.5	18.0	0.007	4.1	47	
E5308922 (663099)	<1	5.85	15	102	463	<5	0.2	0.35	<0.2	58.1	11.8	0.006	3.2	18	
E5308923 (663100)	<1	5.72	6	102	466	<5	0.2	0.31	<0.2	62.9	15.0	0.006	2.8	26	
E5308924 (663101)	1	7.05	15	84	483	<5	0.2	0.31	<0.2	58.1	13.3	0.007	3.8	32	
E5308925 (663102)	<1	5.64	6	94	462	<5	0.2	0.33	<0.2	44.2	8.2	0.007	3.2	10	
E5308926 (663103)	<1	6.82	11	79	484	<5	0.2	0.34	<0.2	57.0	11.0	0.007	3.4	27	
E5308927 (663104)	<1	6.24	6	80	465	<5	0.1	0.30	<0.2	41.1	8.1	0.006	3.1	16	
E5308928 (663105)	<1	6.02	22	104	495	<5	0.1	0.35	<0.2	67.3	15.8	0.007	3.3	33	
E5308929 (663106)	<1	5.39	15	112	448	<5	0.2	0.32	<0.2	61.2	13.8	0.006	2.9	21	
E5308930 (663107)	<1	6.05	10	92	477	<5	0.2	0.34	<0.2	58.7	11.6	0.007	3.3	15	
E5308931 (663108)	<1	6.31	9	92	508	<5	0.2	0.31	<0.2	47.6	7.8	0.007	3.2	15	
E5308932 (663109)	1	4.99	21	101	366	<5	0.1	0.32	<0.2	54.1	9.3	0.005	2.0	8	
E5308933 (663110)	<1	4.18	22	121	325	<5	<0.1	0.27	<0.2	60.7	7.8	<0.005	1.5	<5	
E5129380 (663111)	<1	7.63	24	116	336	<5	0.2	0.15	<0.2	86.6	6.7	0.007	3.9	10	
E5129381 (663112)	<1	7.06	6	94	305	<5	0.2	0.09	<0.2	81.7	5.0	0.006	3.1	5	
E5129382 (663113)	<1	6.75	6	155	176	<5	0.1	<0.05	<0.2	67.8	3.8	0.007	2.8	9	
E5129383 (663114)	<1	6.15	8	116	316	<5	0.1	0.24	<0.2	52.2	6.4	0.007	3.1	11	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr %	Cs ppm	Cu ppm
E5129384 (663115)	<1	7.15	9	108	363	<5	0.2	0.23	<0.2	54.1	7.1	0.008	3.8	17	
E5129385 (663116)	<1	10.6	<5	176	239	<5	0.1	<0.05	<0.2	40.5	5.7	0.010	3.6	47	
E5129386 (663117)	1	5.36	16	107	412	<5	0.1	0.31	<0.2	56.5	10.4	0.006	2.2	14	
E5129387 (663118)	<1	5.10	9	109	361	<5	0.1	0.18	<0.2	48.4	10.9	0.006	1.9	7	
E5129388 (663119)	<1	5.17	19	102	347	<5	<0.1	0.24	<0.2	46.2	8.1	0.007	1.6	11	
E5129389 (663120)	<1	5.50	12	110	406	<5	0.1	0.18	<0.2	61.5	9.9	0.006	2.2	13	
E5129390 (663121)	<1	5.78	22	104	440	<5	0.1	0.29	<0.2	67.4	14.9	0.006	2.4	21	
E5129391 (663122)	<1	5.89	11	106	429	<5	0.1	0.20	<0.2	55.6	12.0	0.006	2.3	19	
E5129392 (663123)	<1	6.86	16	67	451	<5	0.1	0.40	0.4	76.0	16.9	0.007	2.8	25	
E5129393 (663124)	<1	6.54	15	70	508	<5	0.2	0.59	<0.2	42.8	9.0	0.008	3.0	15	
E5129394 (663125)	<1	6.99	15	72	510	<5	0.2	1.45	0.3	69.4	11.7	0.007	2.8	26	
E5129395 (663126)	<1	7.29	16	69	481	<5	0.2	0.53	0.4	95.2	14.1	0.008	2.3	25	
E5129396 (663127)	<1	6.28	15	70	492	<5	0.2	0.48	<0.2	41.6	8.9	0.006	2.4	12	
E5129397 (663128)	<1	5.31	14	122	349	<5	0.1	0.15	<0.2	50.8	11.7	0.006	2.4	8	
E5129398 (663129)	6	6.31	13	97	473	<5	0.1	0.31	<0.2	60.8	14.5	0.007	2.9	26	
E5129399 (663130)	<1	6.47	22	96	466	<5	0.1	0.27	<0.2	51.9	13.2	0.007	2.9	23	
E5309000 (663131)	<1	5.35	10	93	444	<5	<0.1	0.27	<0.2	49.6	6.2	0.005	1.8	11	
E5309001 (663132)	<1	4.92	13	95	397	<5	0.1	0.24	<0.2	44.3	8.0	0.005	1.7	7	
E5309002 (663133)	<1	4.83	13	93	389	<5	<0.1	0.31	<0.2	45.9	8.0	0.005	1.5	7	
E5309003 (663134)	<1	4.65	16	88	385	<5	0.1	0.22	<0.2	44.2	7.5	0.005	2.0	9	
E5309004 (663135)	<1	4.86	19	113	419	<5	0.2	0.22	<0.2	46.7	13.9	0.005	2.3	20	
E5309005 (663136)	<1	4.57	22	86	405	5	<0.1	0.37	<0.2	57.0	8.6	0.006	1.6	8	
E5309006 (663137)	<1	4.58	14	98	378	<5	<0.1	0.26	<0.2	53.0	7.3	0.005	1.8	7	
E5309007 (663138)	<1	4.50	15	97	368	<5	0.1	0.25	<0.2	59.6	7.8	0.006	2.1	7	
E5309008 (663139)	<1	5.27	10	94	419	<5	<0.1	0.23	<0.2	44.3	7.4	<0.005	1.9	7	
E5309009 (663140)	<1	5.08	13	88	394	<5	<0.1	0.28	0.2	51.7	8.3	0.005	1.7	13	
E5309010 (663141)	<1	5.10	18	97	441	<5	<0.1	0.37	<0.2	47.8	9.5	0.006	1.2	13	
E5309011 (663142)	<1	5.87	12	85	464	<5	<0.1	0.44	<0.2	52.6	12.7	0.008	1.3	14	
E5309012 (663143)	<1	5.00	7	87	394	<5	0.1	0.29	<0.2	51.0	6.0	0.005	1.7	6	
E5309013 (663144)	<1	5.27	15	98	412	<5	0.1	0.29	<0.2	51.5	9.3	0.006	2.0	11	
E5309014 (663145)	<1	5.00	7	96	402	<5	0.1	0.31	<0.2	46.8	6.7	0.006	1.7	8	
E5309015 (663146)	<1	5.15	13	99	416	<5	0.1	0.27	<0.2	46.8	7.5	0.006	2.4	8	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 1	Al % 0.01	As ppm 5	B ppm 20	Ba ppm 0.5	Be ppm 5	Bi ppm 0.1	Ca % 0.05	Cd ppm 0.2	Ce ppm 0.1	Co ppm 0.5	Cr % 0.005	Cs ppm 0.1	Cu ppm 5
E5309016 (663147)		<1	5.17	9	81	435	<5	<0.1	0.41	<0.2	45.3	7.3	0.006	1.1	9
E5309017 (663148)		<1	4.98	15	97	359	<5	<0.1	0.28	<0.2	45.4	8.1	0.006	1.6	8
E5309018 (663149)		<1	5.37	17	112	414	<5	0.1	0.25	<0.2	48.1	11.0	0.006	2.4	11
E5309019 (663150)		<1	4.41	12	93	393	<5	<0.1	0.35	<0.2	57.4	11.4	<0.005	1.4	14
E5309020 (663151)		<1	4.83	14	93	415	<5	<0.1	0.37	<0.2	50.6	10.6	<0.005	1.8	12
E5309021 (663152)		<1	4.83	22	91	409	<5	0.1	0.30	<0.2	40.3	7.4	0.006	2.5	8
E5309022 (663153)		<1	5.33	12	87	434	<5	0.1	0.36	<0.2	43.1	7.3	0.006	2.1	12
E5309023 (663154)		<1	5.28	18	99	440	<5	0.1	0.35	<0.2	49.4	10.9	0.006	1.8	14
E5309024 (663155)		<1	5.31	6	92	464	<5	0.1	0.32	<0.2	51.7	9.7	0.006	2.1	15
E5309025 (663156)		<1	5.33	20	98	448	<5	0.1	0.25	<0.2	51.1	13.4	0.006	3.4	21
E5309026 (663157)		<1	5.66	20	104	501	<5	0.1	0.25	0.6	56.7	13.1	0.006	3.4	23
E5309027 (663158)		<1	5.38	24	99	467	<5	0.2	0.24	0.3	59.3	14.8	0.006	3.4	23
E5309028 (663159)		<1	5.27	20	96	451	5	0.2	0.26	<0.2	55.5	14.0	0.005	3.0	24
E5309029 (663160)		<1	5.49	21	90	440	<5	0.1	0.28	<0.2	42.5	11.4	0.006	3.3	15
E5309030 (663161)		<1	5.56	17	100	457	<5	0.1	0.26	0.2	50.1	14.6	0.006	3.7	17
E5309031 (663162)		<1	5.06	16	89	415	<5	0.1	0.28	<0.2	40.5	11.2	0.005	2.4	11
E5309032 (663163)		<1	5.34	21	93	444	<5	0.1	0.26	0.3	55.3	14.0	0.006	3.0	18
E5309033 (663164)		<1	5.07	19	93	428	<5	0.1	0.26	<0.2	46.5	11.0	0.005	2.5	13
E5309034 (663165)		<1	5.33	12	98	458	<5	0.1	0.28	0.3	53.5	15.8	0.006	3.3	21
E5309035 (663166)		<1	5.27	24	92	434	<5	0.1	0.26	<0.2	48.9	14.1	0.006	3.5	13
E5309036 (663167)		1	5.65	26	95	458	<5	0.1	0.28	0.3	52.8	13.8	0.006	2.4	23
E5309037 (663168)		<1	5.36	28	97	429	<5	0.1	0.26	0.3	56.0	14.7	0.006	2.5	19
E5309038 (663169)		<1	5.20	19	91	439	<5	0.1	0.27	<0.2	47.1	11.7	0.006	2.4	12
E5309039 (663170)		<1	5.36	18	99	484	<5	0.1	0.27	0.4	58.1	14.6	0.006	2.5	25
E5309040 (663171)		<1	5.45	22	96	464	<5	0.1	0.25	0.3	54.9	14.6	0.006	2.7	25
E5309041 (663172)		<1	5.01	11	89	407	<5	0.1	0.24	<0.2	45.4	9.6	0.006	2.2	8
E5309042 (663173)		<1	5.36	12	99	459	<5	0.1	0.27	1.8	69.6	15.5	0.006	2.7	28
E5309043 (663174)		<1	5.41	22	94	455	<5	0.1	0.26	0.3	62.7	14.6	0.006	2.4	26
E5309044 (663175)		1	5.24	17	93	433	<5	0.1	0.26	<0.2	57.4	12.2	0.006	2.7	17
E5309045 (663176)		<1	4.91	12	86	411	<5	<0.1	0.26	<0.2	45.0	8.5	0.005	2.1	12
E5309046 (663177)		<1	5.11	25	90	410	<5	0.1	0.31	<0.2	43.2	10.5	0.005	1.8	10
E5309047 (663178)		<1	5.04	20	90	434	<5	0.1	0.26	0.2	60.1	10.8	0.005	2.5	19

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr %	Cs ppm	Cu ppm
E5309048 (663179)	<1	4.88	14	85	434	<5	<0.1	0.32	<0.2	44.9	11.2	<0.005	1.7	13	
E5309049 (663180)	<1	5.24	27	93	448	<5	<0.1	0.31	0.2	48.2	13.1	0.006	2.3	18	
E5309050 (663181)	<1	5.30	12	93	461	<5	<0.1	0.43	<0.2	52.4	11.3	0.007	2.2	15	
E5309051 (663182)	1	5.87	27	87	483	<5	<0.1	0.42	0.3	70.5	10.1	0.007	2.1	16	
E5309052 (663183)	<1	5.54	18	105	492	<5	0.1	0.38	0.4	58.7	14.2	0.007	2.4	24	
E5309053 (663184)	<1	4.80	21	129	404	<5	0.1	0.29	0.4	50.3	11.9	0.005	1.6	20	
E5309054 (663185)	<1	2.78	28	190	144	<5	<0.1	0.10	<0.2	28.6	7.8	<0.005	0.4	9	
E5309055 (663186)	<1	5.68	48	136	393	<5	0.2	0.26	0.3	62.5	10.9	0.006	2.1	21	
E5309056 (663187)	<1	6.43	33	103	547	<5	0.2	0.44	0.6	58.9	16.7	0.008	2.9	35	
E5309057 (663188)	<1	6.41	31	92	580	<5	0.1	0.49	0.7	66.9	20.5	0.009	3.7	37	
E5309058 (663189)	<1	5.36	15	99	433	<5	0.1	0.37	<0.2	53.2	10.6	0.006	2.2	14	
E5309059 (663190)	<1	4.95	18	96	444	<5	<0.1	0.41	<0.2	43.4	10.1	0.005	1.6	9	
E5420130 (663191)	<1	5.54	<5	104	434	<5	0.1	0.19	<0.2	51.3	9.5	0.006	2.7	11	
E5420131 (663192)	<1	5.15	13	98	406	<5	0.1	0.20	<0.2	60.1	8.5	0.005	2.0	10	
E5420132 (663193)	<1	5.60	6	97	446	<5	0.1	0.21	<0.2	52.3	9.0	0.006	2.2	12	
E5420133 (663194)	<1	5.24	24	121	444	<5	<0.1	0.35	<0.2	50.8	16.1	0.006	1.7	14	
E5420134 (663195)	<1	4.09	22	144	359	<5	0.1	0.23	<0.2	47.5	8.3	0.005	1.9	<5	
E5420135 (663196)	<1	5.19	22	152	459	<5	0.1	0.24	<0.2	54.9	10.4	0.006	2.1	<5	
E5420136 (663197)	<1	4.70	17	132	395	<5	<0.1	0.31	<0.2	50.5	10.5	0.006	1.5	<5	
E5420137 (663198)	1	4.40	19	125	343	<5	<0.1	0.32	<0.2	54.7	11.3	<0.005	1.0	8	
E5420138 (663199)	<1	5.47	18	110	402	<5	0.1	0.22	<0.2	50.6	10.1	0.006	1.8	15	
E5420139 (663200)	<1	5.21	15	118	397	<5	<0.1	0.16	<0.2	57.5	12.2	0.005	1.8	13	
E5420140 (663201)	<1	5.96	15	101	446	<5	0.1	0.25	<0.2	54.4	10.7	0.006	2.2	16	
E5420141 (663202)	<1	6.94	10	93	539	<5	0.2	0.39	<0.2	63.5	14.8	0.007	2.9	28	
E5420142 (663203)	<1	6.23	19	115	476	<5	0.1	0.31	<0.2	67.0	15.2	0.007	2.1	24	
E5420143 (663204)	<1	6.21	8	93	507	<5	0.1	0.36	<0.2	61.3	9.5	0.006	2.5	14	
E5420144 (663205)	<1	6.46	13	105	467	<5	0.1	0.27	<0.2	59.3	14.8	0.007	2.6	30	
E5420145 (663206)	<1	6.30	<5	104	468	<5	0.1	0.32	<0.2	51.6	9.7	0.007	2.3	17	
E5420146 (663207)	<1	6.42	11	79	506	<5	0.1	0.35	<0.2	49.2	7.3	0.006	2.5	11	
E5420147 (663208)	<1	6.80	13	89	510	<5	0.2	0.42	<0.2	49.1	12.7	0.007	3.0	18	
E5420148 (663209)	<1	5.54	13	95	460	<5	0.1	0.30	0.2	53.3	9.3	0.006	2.5	12	
E5420149 (663210)	<1	7.08	8	77	523	<5	0.2	0.37	<0.2	41.4	8.7	0.007	3.7	16	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 1	Al % 0.01	As ppm 5	B ppm 20	Ba ppm 0.5	Be ppm 5	Bi ppm 0.1	Ca % 0.05	Cd ppm 0.2	Ce ppm 0.1	Co ppm 0.5	Cr % 0.005	Cs ppm 0.1	Cu ppm 5
E5420150 (663211)		<1	5.80	20	108	394	<5	0.2	0.32	<0.2	54.0	14.4	0.007	2.5	11
E5420151 (663212)		<1	6.47	17	85	498	<5	0.2	0.40	<0.2	54.0	7.8	0.006	3.1	13
E5420152 (663213)		1	6.12	24	85	463	<5	0.2	0.34	<0.2	42.8	7.5	0.006	2.4	11
E5420153 (663214)		<1	5.82	14	114	445	<5	<0.1	0.27	<0.2	62.3	10.4	0.006	2.0	14
E5420154 (663215)		<1	6.41	11	86	494	<5	0.2	0.32	<0.2	41.8	9.7	0.008	3.6	12
E5420155 (663216)		<1	7.60	8	104	532	<5	0.2	0.25	<0.2	44.3	8.3	0.009	6.5	21
E5420156 (663217)		<1	6.28	12	96	487	<5	0.1	0.33	<0.2	54.2	9.0	0.007	2.8	18
E5420157 (663218)		<1	6.25	14	92	538	<5	0.2	0.39	<0.2	44.3	7.5	0.007	4.2	11
E5420158 (663219)		<1	6.06	12	84	489	<5	0.1	0.33	<0.2	55.0	8.0	0.006	2.8	16
E5420159 (663220)		<1	6.23	13	83	472	<5	0.2	0.30	<0.2	40.2	9.8	0.007	3.0	14
E5420110 (663221)		<1	5.42	14	97	426	<5	<0.1	0.20	<0.2	62.3	9.6	0.006	2.7	10
E5420111 (663222)		<1	5.02	17	89	397	<5	<0.1	0.21	<0.2	51.4	7.7	<0.005	2.1	<5
E5420112 (663223)		<1	5.42	6	84	434	<5	<0.1	0.27	<0.2	48.9	6.4	0.005	2.6	<5
E5420113 (663224)		<1	5.12	13	87	416	<5	<0.1	0.25	<0.2	50.2	5.7	0.005	2.2	5
E5420114 (663225)		<1	5.41	9	93	427	<5	0.1	0.25	<0.2	56.7	8.9	0.005	2.5	10
E5420115 (663226)		<1	5.35	6	91	394	<5	<0.1	0.21	<0.2	52.4	8.8	0.005	2.3	9
E5420116 (663227)		<1	5.67	8	97	455	<5	<0.1	0.21	<0.2	57.1	7.1	0.006	3.1	7
E5420117 (663228)		<1	5.20	11	90	427	<5	<0.1	0.20	<0.2	55.9	7.9	0.005	2.6	10
E5420118 (663229)		<1	6.31	11	107	514	<5	0.1	0.20	0.5	81.5	16.1	0.007	3.6	36
E5420119 (663230)		<1	5.20	15	88	428	<5	0.1	0.19	<0.2	52.3	6.0	0.005	3.1	9
E5420120 (663231)		<1	6.10	19	94	457	<5	0.1	0.15	0.2	66.2	13.0	0.006	3.1	31
E5420121 (663232)		<1	6.03	10	104	489	<5	0.1	0.20	<0.2	80.1	11.8	0.007	3.0	20
E5420122 (663233)		<1	7.05	13	109	574	<5	0.1	0.23	<0.2	68.5	8.3	0.007	3.5	25
E5420123 (663234)		<1	7.03	9	111	534	<5	0.2	0.14	<0.2	58.1	7.0	0.008	4.6	15
E5420124 (663235)		<1	6.98	9	106	548	<5	0.1	0.14	<0.2	55.4	5.7	0.008	4.6	13
E5420125 (663236)		<1	6.11	12	108	491	<5	0.1	0.20	<0.2	73.6	16.5	0.007	3.4	37
E5420126 (663237)		<1	5.90	8	90	446	<5	<0.1	0.25	<0.2	62.3	7.9	0.006	2.8	16
E5420127 (663238)		<1	5.32	9	95	401	<5	<0.1	0.19	<0.2	62.0	9.5	0.005	2.7	9
E5420128 (666124)		<1	5.38	8	93	422	<5	0.1	0.16	<0.2	56.2	5.1	0.005	3.4	<5
E5420129 (666126)		<1	5.45	13	98	427	<5	<0.1	0.21	<0.2	57.6	8.9	0.006	2.8	10
E5129138 (680459)		<1	4.93	12	102	366	<5	0.1	0.23	<0.2	72.2	4.6	0.005	2.4	5

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Ho	In	K	La	Li	Lu
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
RDL:	0.05	0.05	0.05	0.01	0.01	0.05	1	1	0.05	0.2	0.05	0.1	10	0.05
E5417863 (662859)	2.50	1.72	0.64	10.5	20.0	2.74	3	5	0.53	<0.2	1.90	19.1	19	0.27
E5417864 (662860)	2.14	1.21	0.53	16.5	11.1	2.32	5	3	0.45	<0.2	1.02	19.2	11	0.17
E5417865 (662861)	2.56	1.54	0.66	8.20	18.2	2.83	4	5	0.54	<0.2	1.75	21.0	12	0.25
E5417866 (662862)	2.77	1.52	0.64	9.43	15.7	3.46	3	4	0.53	<0.2	1.56	25.3	17	0.23
E5417867 (662863)	2.54	1.61	0.64	9.30	17.3	2.78	3	5	0.51	<0.2	1.68	18.7	21	0.24
E5417886 (662864)	2.85	1.68	0.75	10.4	15.3	3.24	3	5	0.58	<0.2	1.64	21.3	22	0.26
E5417887 (662865)	2.70	1.78	0.75	8.83	17.9	3.20	3	6	0.62	<0.2	1.78	19.8	17	0.29
E5417888 (662866)	2.80	1.60	0.71	9.80	16.7	3.16	3	5	0.55	<0.2	1.71	21.8	21	0.25
E5417889 (662867)	2.87	1.83	0.74	9.85	16.4	2.93	3	5	0.56	<0.2	1.84	19.6	25	0.25
E5417890 (662868)	2.85	1.68	0.73	9.35	17.0	3.22	3	5	0.59	<0.2	1.97	20.7	22	0.26
E5417891 (662869)	2.30	1.47	0.61	12.8	14.3	2.74	3	4	0.48	<0.2	1.56	21.4	21	0.22
E5417892 (662870)	3.38	1.80	0.92	13.0	14.0	4.25	4	4	0.64	<0.2	1.71	34.5	22	0.25
E5129400 (662871)	2.44	1.47	0.72	10.5	13.9	2.90	3	4	0.50	<0.2	1.85	24.5	19	0.22
E5129401 (662872)	2.78	1.65	0.90	9.14	16.5	3.47	4	5	0.55	<0.2	2.23	31.0	22	0.21
E5129402 (662873)	2.57	1.47	0.74	7.20	17.3	3.42	3	4	0.52	<0.2	2.26	27.5	27	0.23
E5129403 (662874)	2.49	1.45	0.72	8.57	15.2	3.12	3	4	0.51	<0.2	2.05	25.7	24	0.22
E5129404 (662875)	2.44	1.59	0.68	11.5	17.0	3.05	4	4	0.52	<0.2	2.17	24.2	22	0.21
E5129405 (662876)	2.69	1.43	0.94	15.2	12.1	3.38	4	4	0.53	<0.2	1.66	28.1	23	0.21
E5129406 (662877)	2.46	1.35	0.69	12.4	16.0	2.87	3	4	0.47	<0.2	1.98	23.1	20	0.21
E5129407 (662878)	2.11	1.26	0.68	17.9	12.2	3.12	5	4	0.44	<0.2	1.00	26.8	10	0.16
E5129408 (662879)	2.38	1.40	0.71	19.5	9.81	2.95	5	3	0.48	<0.2	1.14	24.2	19	0.19
E5129409 (662880)	2.47	1.37	0.76	17.8	10.9	3.15	4	3	0.47	<0.2	1.15	25.6	18	0.19
E5420237 (662881)	2.23	1.40	0.80	12.0	11.8	3.36	3	4	0.46	<0.2	1.41	31.2	13	0.19
E5420238 (662882)	1.94	1.19	0.57	10.9	11.1	2.49	3	4	0.40	<0.2	1.27	21.9	13	0.16
E5420239 (662883)	2.23	1.39	0.66	11.8	11.5	2.98	3	4	0.44	<0.2	1.42	26.8	13	0.18
E5420240 (662884)	2.43	1.40	0.73	11.8	11.9	3.09	3	5	0.48	<0.2	1.45	27.5	13	0.19
E5420241 (662885)	2.24	1.33	0.75	12.4	11.3	3.17	3	4	0.46	<0.2	1.46	23.7	14	0.17
E5420242 (662886)	2.00	1.21	0.56	9.52	11.6	2.57	3	4	0.40	<0.2	1.22	23.9	11	0.17
E5420243 (662887)	1.91	1.09	0.50	6.26	12.3	2.34	3	4	0.39	<0.2	1.39	20.2	13	0.18
E5420244 (662888)	2.19	1.32	0.64	11.2	12.4	2.80	3	4	0.43	<0.2	1.51	22.8	19	0.19
E5420245 (662889)	2.69	1.57	0.67	14.7	13.8	3.05	4	6	0.57	<0.2	1.32	23.7	19	0.25
E5420246 (662890)	2.57	1.47	0.70	13.6	16.0	2.72	3	5	0.54	<0.2	1.50	20.6	21	0.24

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Ho	In	K	La	Li	Lu
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
RDL:	0.05	0.05	0.05	0.01	0.01	0.05	1	1	0.05	0.2	0.05	0.1	10	0.05
E5420247 (662891)	2.72	1.72	0.57	17.3	14.4	3.08	4	5	0.56	<0.2	1.40	23.4	16	0.26
E5420248 (662892)	2.68	1.66	0.71	15.6	16.9	3.02	4	5	0.53	<0.2	1.33	23.6	15	0.24
E5420249 (662893)	2.26	1.42	0.57	14.7	14.0	2.44	4	4	0.47	<0.2	1.65	18.8	15	0.20
E5420250 (662894)	2.42	1.48	0.63	8.37	12.8	2.91	2	4	0.47	<0.2	1.77	20.0	20	0.19
E5420251 (662895)	2.87	1.76	0.73	16.1	17.0	3.77	5	5	0.58	<0.2	1.55	31.9	11	0.25
E5420252 (662896)	2.87	1.79	0.70	16.0	17.6	3.41	5	4	0.61	<0.2	1.45	28.0	17	0.25
E5420253 (662897)	2.68	1.68	0.61	12.5	14.1	2.95	3	5	0.57	<0.2	1.58	19.9	19	0.24
E5420254 (662898)	2.63	1.69	0.64	14.0	17.7	2.89	4	4	0.52	<0.2	1.53	22.9	13	0.24
E5420255 (662899)	2.44	1.55	0.63	11.4	14.9	2.81	3	6	0.53	<0.2	1.57	18.6	20	0.24
E5420256 (662900)	2.91	1.64	0.63	14.5	14.3	3.52	4	5	0.56	<0.2	1.40	27.0	16	0.24
E5420257 (662901)	2.05	1.36	0.53	9.79	16.8	2.50	3	5	0.41	<0.2	1.50	18.3	12	0.22
E5420258 (662902)	2.66	1.62	0.63	10.8	15.3	2.73	3	4	0.58	<0.2	1.60	18.4	19	0.23
E5420259 (662903)	2.51	1.51	0.61	12.4	16.9	2.66	4	5	0.51	<0.2	1.72	19.5	18	0.23
E5308866 (662904)	2.34	1.46	0.59	10.8	16.5	2.51	3	5	0.48	<0.2	1.66	17.2	18	0.23
E5308867 (662905)	3.03	1.73	0.86	10.1	15.6	3.47	3	5	0.60	<0.2	1.98	24.3	28	0.26
E5308868 (662906)	2.55	1.60	0.72	10.5	14.6	2.88	3	4	0.55	<0.2	1.74	17.6	24	0.23
E5308869 (662907)	2.72	1.53	0.66	9.56	14.7	3.20	3	5	0.55	<0.2	1.79	22.8	28	0.22
E5308870 (662908)	3.06	1.70	0.79	9.25	14.8	3.35	3	5	0.60	<0.2	1.82	26.7	26	0.25
E5308871 (662909)	2.72	1.69	0.72	8.96	14.2	2.93	3	5	0.58	<0.2	1.71	18.4	21	0.23
E5308872 (662910)	3.49	2.05	0.97	9.63	15.7	3.89	3	5	0.70	<0.2	2.08	30.1	31	0.28
E5308873 (662911)	2.52	1.70	0.63	8.00	15.7	2.72	3	5	0.52	<0.2	1.68	18.4	23	0.25
E5308874 (662912)	3.00	1.74	0.83	8.69	15.2	3.35	3	5	0.59	<0.2	1.97	22.8	29	0.26
E5308875 (662913)	2.66	1.63	0.70	9.01	15.3	2.81	3	5	0.56	<0.2	1.85	19.9	22	0.24
E5308876 (662914)	3.15	1.85	0.87	9.52	15.6	3.34	3	5	0.62	<0.2	1.99	23.4	29	0.26
E5308877 (662915)	2.80	1.69	0.68	8.92	14.9	3.27	3	5	0.56	<0.2	1.89	25.9	24	0.23
E5308878 (662916)	3.02	1.72	0.75	10.7	15.4	3.34	3	4	0.60	<0.2	1.91	25.1	26	0.25
E5308879 (662917)	3.26	2.09	0.78	9.85	12.1	3.23	4	5	0.70	<0.2	1.07	20.7	23	0.29
E5308880 (662918)	2.75	1.72	0.67	9.38	15.8	2.79	3	5	0.56	<0.2	1.90	20.2	25	0.24
E5308881 (662919)	2.57	1.65	0.75	11.8	15.7	2.73	3	5	0.55	<0.2	1.69	20.8	20	0.22
E5308882 (662920)	2.84	1.62	0.79	11.9	13.9	3.07	4	5	0.58	<0.2	1.39	21.9	20	0.24
E5308883 (662921)	2.28	1.50	0.59	9.76	15.6	2.48	3	5	0.49	<0.2	1.71	18.1	21	0.23
E5308884 (662922)	2.07	1.38	0.53	9.97	14.9	2.25	3	4	0.43	<0.2	1.47	16.9	26	0.20

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Ho	In	K	La	Li	Lu
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
RDL:	0.05	0.05	0.05	0.01	0.01	0.05	1	1	0.05	0.2	0.05	0.1	10	0.05
E5163036 (662923)	2.41	1.32	0.71	10.3	16.6	2.64	3	4	0.50	<0.2	1.92	24.4	22	0.21
E5163037 (662924)	2.82	1.73	0.81	10.6	16.4	3.21	4	4	0.61	<0.2	2.31	29.9	20	0.24
E5163038 (662925)	2.79	1.59	0.68	11.9	13.1	3.11	4	4	0.57	<0.2	1.83	26.6	26	0.20
E5163039 (662926)	2.54	1.54	0.76	10.1	14.6	3.13	3	5	0.54	<0.2	1.69	25.5	23	0.22
E5163040 (662927)	2.64	1.68	0.74	11.0	14.5	3.05	3	5	0.57	<0.2	1.86	24.9	24	0.22
E5163041 (662928)	2.63	1.50	0.77	13.7	12.4	3.21	4	4	0.52	<0.2	2.11	29.3	22	0.21
E5163042 (662929)	2.66	1.66	0.84	12.1	13.8	3.39	4	5	0.55	<0.2	1.94	31.8	19	0.22
E5163043 (662930)	2.83	1.66	0.81	8.29	14.8	3.28	3	4	0.53	<0.2	2.00	23.9	26	0.22
E5163044 (662931)	2.40	1.40	0.74	16.9	9.54	3.15	5	4	0.51	<0.2	1.80	29.4	19	0.19
E5163045 (662932)	2.45	1.53	0.73	12.1	15.1	3.09	4	5	0.48	<0.2	2.02	26.0	21	0.20
E5163046 (662933)	2.38	1.55	0.65	9.59	16.6	2.91	3	5	0.52	<0.2	1.89	22.3	24	0.21
E5163047 (662934)	2.71	1.78	0.67	15.1	15.9	3.06	4	5	0.56	<0.2	1.67	26.1	18	0.22
E5163048 (662935)	2.39	1.51	0.63	10.8	17.6	2.87	3	5	0.49	<0.2	1.85	25.7	25	0.22
E5163049 (662936)	2.77	1.63	0.74	9.05	15.9	3.14	3	5	0.56	<0.2	2.06	23.9	27	0.25
E5163050 (662937)	2.50	1.66	0.70	8.45	16.0	2.85	3	5	0.52	<0.2	1.94	21.5	23	0.23
E5163051 (662938)	2.60	1.63	1.09	9.85	14.9	3.25	3	4	0.53	<0.2	1.95	24.1	25	0.23
E5163052 (662939)	2.72	1.54	0.76	9.40	15.3	3.07	3	4	0.54	<0.2	1.94	23.8	27	0.23
E5163053 (662940)	2.58	1.54	0.73	9.50	16.0	2.89	3	4	0.55	<0.2	1.95	21.0	29	0.23
E5163054 (662941)	2.51	1.54	0.70	9.03	15.6	2.84	3	4	0.51	<0.2	1.89	22.7	22	0.23
E5163055 (662942)	1.86	1.15	0.44	21.3	11.6	2.20	4	3	0.39	<0.2	1.34	17.7	11	0.16
E5163056 (662943)	2.64	1.60	0.63	8.65	19.2	2.73	4	4	0.49	<0.2	2.86	23.0	27	0.23
E5163057 (662944)	2.66	1.77	0.61	14.4	14.8	2.69	4	4	0.58	<0.2	1.46	18.0	19	0.22
E5163058 (662945)	2.31	1.55	0.63	10.5	15.6	2.58	3	5	0.49	<0.2	1.78	18.3	15	0.23
E5163059 (662946)	2.35	1.39	0.61	8.77	14.2	2.30	2	4	0.50	<0.2	1.84	13.5	18	0.20
E5420210 (662947)	2.06	1.27	0.63	15.1	11.4	2.57	4	4	0.44	<0.2	1.12	22.7	17	0.18
E5420211 (662948)	2.54	1.53	0.83	15.6	13.5	3.44	4	4	0.54	<0.2	1.56	27.0	21	0.23
E5420212 (662949)	2.84	1.63	0.95	9.98	14.1	3.74	4	5	0.56	<0.2	2.00	33.6	20	0.22
E5420213 (662950)	2.80	1.67	0.94	14.5	13.8	3.71	3	4	0.59	<0.2	1.62	30.6	23	0.23
E5420214 (662951)	2.57	1.57	0.79	11.5	16.2	2.91	3	4	0.51	<0.2	1.97	23.6	27	0.20
E5420215 (662952)	2.86	1.74	0.75	11.1	18.1	3.38	3	5	0.57	<0.2	1.91	24.3	28	0.24
E5420216 (662953)	2.63	1.67	0.74	10.7	17.1	3.08	3	5	0.54	<0.2	1.88	21.8	29	0.23
E5420217 (662954)	2.54	1.47	0.71	14.0	14.8	3.02	3	4	0.48	<0.2	1.70	25.9	19	0.21

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Ho	In	K	La	Li	Lu
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
RDL:	0.05	0.05	0.05	0.01	0.01	0.05	1	1	0.05	0.2	0.05	0.1	10	0.05
E5420218 (662955)	2.61	1.57	0.74	10.5	16.2	2.88	3	4	0.53	<0.2	1.77	22.8	24	0.21
E5420219 (662956)	2.49	1.42	0.69	10.3	15.4	2.96	3	4	0.46	<0.2	1.61	22.1	21	0.20
E5420220 (662957)	2.80	1.69	0.78	9.75	14.7	3.82	3	5	0.58	<0.2	1.79	29.8	27	0.22
E5420221 (662958)	2.71	1.65	0.81	9.12	15.0	3.50	3	5	0.55	<0.2	1.89	24.7	28	0.22
E5420222 (662959)	2.81	1.59	0.69	10.5	17.6	2.94	3	4	0.60	<0.2	1.88	22.6	24	0.23
E5420223 (662960)	2.63	1.63	0.65	10.2	17.0	2.88	3	5	0.49	<0.2	1.77	21.9	20	0.22
E5420224 (662961)	2.44	1.50	0.64	10.1	17.3	2.62	3	5	0.53	<0.2	1.79	19.2	18	0.21
E5420225 (662962)	2.76	1.76	0.76	13.4	17.6	3.10	3	5	0.55	<0.2	1.71	22.3	19	0.23
E5420226 (662963)	2.79	1.65	0.74	9.94	16.2	3.23	3	5	0.54	<0.2	1.87	24.0	26	0.23
E5420227 (662964)	2.89	1.71	0.80	9.37	16.4	2.99	3	5	0.55	<0.2	1.87	21.1	25	0.23
E5420228 (662965)	2.75	1.70	0.75	8.26	16.8	3.02	3	5	0.60	<0.2	1.94	22.1	23	0.25
E5420229 (662966)	2.88	1.73	0.73	8.30	14.7	3.33	3	4	0.55	<0.2	1.78	22.0	26	0.23
E5420230 (662967)	2.80	1.67	0.72	9.68	15.5	3.20	3	5	0.57	<0.2	1.98	23.1	27	0.23
E5420231 (662968)	2.10	1.23	0.61	14.9	11.6	2.56	3	4	0.42	<0.2	1.36	23.2	12	0.16
E5420232 (662969)	2.10	1.21	0.63	14.0	12.3	2.67	3	4	0.42	<0.2	1.33	23.6	11	0.19
E5420233 (662970)	2.21	1.31	0.69	14.1	12.0	3.11	3	4	0.46	<0.2	1.39	29.1	15	0.17
E5420234 (662971)	2.12	1.26	0.61	11.6	12.8	2.89	3	4	0.43	<0.2	1.43	24.5	13	0.16
E5420235 (662972)	2.05	1.27	0.70	12.2	12.5	2.71	3	4	0.41	<0.2	1.39	25.0	13	0.17
E5420236 (662973)	2.27	1.32	0.67	12.8	13.3	2.73	4	6	0.46	<0.2	1.53	24.2	18	0.20
E5163010 (662974)	3.62	2.15	1.24	14.6	15.2	4.63	4	4	0.76	<0.2	1.65	34.0	29	0.24
E5163011 (662975)	1.93	1.24	0.62	14.9	14.1	2.25	4	4	0.42	<0.2	1.70	21.1	21	0.17
E5163012 (662976)	2.43	1.51	0.72	13.2	14.6	2.84	4	4	0.49	<0.2	1.71	22.7	24	0.20
E5163013 (662977)	2.37	1.62	0.68	13.4	15.0	2.93	4	4	0.54	<0.2	1.60	25.4	22	0.21
E5163014 (662978)	2.21	1.30	0.66	13.0	14.2	2.50	4	4	0.44	<0.2	1.68	22.1	24	0.18
E5163015 (662979)	2.61	1.54	0.72	14.2	15.1	3.02	4	5	0.52	<0.2	1.83	23.8	27	0.21
E5163016 (662980)	1.98	1.20	0.61	14.3	14.0	2.35	4	4	0.39	<0.2	1.53	21.1	19	0.17
E5163017 (662981)	2.29	1.35	0.66	13.6	14.6	2.57	4	5	0.45	<0.2	1.61	22.5	24	0.20
E5163018 (662982)	2.37	1.31	0.65	12.9	14.5	2.93	4	4	0.46	<0.2	1.71	24.4	27	0.20
E5163019 (662983)	2.83	1.67	0.78	14.9	14.5	3.37	5	4	0.52	<0.2	1.79	26.8	25	0.22
E5163020 (662984)	2.38	1.42	0.71	12.8	13.8	2.72	4	4	0.52	<0.2	1.70	24.0	21	0.20
E5163021 (662985)	3.06	1.64	0.80	13.7	15.0	3.55	4	4	0.61	<0.2	1.78	27.8	27	0.23
E5163022 (662986)	2.41	1.33	0.73	14.2	13.4	2.94	4	4	0.50	<0.2	1.70	25.1	24	0.19

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Ho	In	K	La	Li	Lu
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
RDL:	0.05	0.05	0.05	0.01	0.01	0.05	1	1	0.05	0.2	0.05	0.1	10	0.05
E5163023 (662987)	2.36	1.45	0.66	14.2	15.3	2.82	4	4	0.50	<0.2	1.76	23.2	20	0.19
E5163024 (662988)	2.28	1.28	0.68	13.0	13.3	2.73	3	4	0.46	<0.2	1.56	22.7	20	0.18
E5163025 (662989)	2.24	1.41	0.59	15.1	14.0	2.57	4	4	0.47	<0.2	1.55	23.3	18	0.19
E5163026 (662990)	2.29	1.37	0.68	13.6	12.7	3.00	4	4	0.45	<0.2	1.62	24.2	21	0.18
E5163027 (662991)	1.89	1.24	0.64	15.2	15.6	2.33	4	5	0.37	<0.2	1.42	20.6	12	0.17
E5163028 (662992)	2.80	1.56	0.78	11.6	13.8	3.34	3	4	0.55	<0.2	1.52	26.1	24	0.20
E5163029 (662993)	2.75	1.57	0.74	24.0	14.1	3.52	6	5	0.56	<0.2	1.21	29.7	14	0.22
E5163030 (662994)	2.77	1.61	0.78	15.6	15.1	3.26	4	5	0.56	<0.2	1.62	27.5	23	0.21
E5163031 (662995)	2.67	1.52	0.81	10.3	14.5	3.12	3	5	0.57	<0.2	1.94	25.6	25	0.22
E5163032 (662996)	3.11	1.72	0.89	11.4	14.1	4.04	3	5	0.60	<0.2	2.11	33.3	19	0.24
E5163033 (662997)	2.96	1.84	0.84	6.50	19.0	3.41	3	5	0.62	<0.2	2.57	26.6	35	0.26
E5163034 (662998)	2.50	1.62	0.70	9.81	14.4	3.02	3	4	0.55	<0.2	1.94	22.8	19	0.24
E5163035 (662999)	3.25	1.92	0.79	16.2	14.5	3.78	5	4	0.66	<0.2	1.55	34.0	31	0.21
E5308974 (663000)	2.75	1.83	0.66	19.1	16.8	3.08	6	5	0.62	<0.2	1.54	21.4	14	0.27
E5308975 (663001)	2.79	1.75	0.62	12.3	19.1	2.83	3	5	0.57	<0.2	1.82	17.9	19	0.28
E5308976 (663002)	2.85	1.72	0.70	10.5	16.6	2.76	3	5	0.56	<0.2	1.77	17.3	26	0.26
E5308977 (663003)	2.91	1.76	0.69	11.1	18.6	3.19	3	5	0.59	<0.2	1.79	22.7	21	0.26
E5308978 (663004)	2.04	1.29	0.64	12.4	14.2	2.76	3	4	0.44	<0.2	1.64	25.3	14	0.17
E5308979 (663005)	2.25	1.35	0.69	12.5	13.7	3.12	3	4	0.44	<0.2	1.78	28.9	13	0.18
E5308980 (663006)	2.23	1.30	0.64	13.2	14.0	2.63	3	4	0.44	<0.2	1.69	25.1	14	0.18
E5308981 (663007)	2.31	1.46	0.72	9.94	16.5	3.02	4	5	0.47	<0.2	1.98	30.2	13	0.20
E5308982 (663008)	2.17	1.41	0.72	12.9	15.0	3.00	3	4	0.43	<0.2	1.62	27.6	14	0.17
E5308983 (663009)	2.14	1.20	0.73	10.7	15.5	3.05	3	4	0.42	<0.2	1.66	29.0	17	0.16
E5308984 (663010)	2.34	1.37	0.75	9.79	14.7	3.02	4	5	0.44	<0.2	1.65	29.2	10	0.19
E5308985 (663011)	2.19	1.33	0.68	12.3	14.0	2.98	4	4	0.50	<0.2	1.67	27.0	15	0.19
E5308986 (663012)	2.13	1.25	0.66	10.4	13.0	2.90	3	4	0.44	<0.2	1.69	25.8	19	0.18
E5308987 (663013)	2.22	1.38	0.62	11.1	14.3	2.76	4	4	0.47	<0.2	1.62	24.8	17	0.17
E5308988 (663014)	2.39	1.60	0.71	9.49	16.4	3.06	3	6	0.50	<0.2	1.64	25.3	25	0.22
E5308989 (663015)	2.22	1.35	0.68	10.8	14.4	2.83	4	4	0.46	<0.2	1.68	25.8	18	0.22
E5308990 (663016)	2.30	1.35	0.62	10.4	12.5	3.07	3	4	0.47	<0.2	1.63	25.9	16	0.21
E5308991 (663017)	2.38	1.39	0.67	9.85	13.7	3.02	3	5	0.45	<0.2	1.46	26.2	20	0.20
E5308992 (663018)	2.10	1.31	0.62	11.6	12.6	2.74	4	4	0.44	<0.2	1.39	23.6	21	0.19

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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<http://www.agatlabs.com>

CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Ho	In	K	La	Li	Lu
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
RDL:	0.05	0.05	0.05	0.01	0.01	0.05	1	1	0.05	0.2	0.05	0.1	10	0.05
E5308993 (663019)	2.29	1.24	0.66	11.7	13.0	2.82	3	4	0.45	<0.2	1.64	27.2	17	0.17
E5308994 (663020)	2.36	1.47	0.69	10.9	13.5	3.08	4	4	0.47	<0.2	1.63	28.5	24	0.18
E5308995 (663021)	2.40	1.44	0.75	11.6	13.8	3.30	4	4	0.48	<0.2	1.62	29.3	22	0.18
E5308996 (663022)	2.33	1.40	0.70	11.1	14.4	3.10	4	4	0.48	<0.2	1.60	25.8	26	0.22
E5308997 (663023)	2.30	1.34	0.58	10.4	14.0	2.94	3	4	0.50	<0.2	1.66	24.0	27	0.19
E5308998 (663024)	2.20	1.20	0.62	10.2	11.7	3.12	3	4	0.45	<0.2	1.64	25.7	27	0.19
E5308999 (663025)	2.21	1.32	0.66	11.9	12.5	2.75	4	4	0.43	<0.2	1.52	25.1	20	0.18
E5129139 (663026)	2.16	1.39	0.65	13.3	13.5	2.81	4	4	0.45	<0.2	1.45	23.6	16	0.19
E5129140 (663027)	2.18	1.34	0.68	13.1	13.4	2.94	4	5	0.45	<0.2	1.82	26.9	16	0.20
E5129141 (663028)	2.54	1.49	0.80	14.7	13.5	3.21	4	5	0.53	<0.2	1.67	26.2	19	0.22
E5129142 (663029)	2.29	1.41	0.67	13.4	15.3	3.01	4	5	0.45	<0.2	1.56	24.9	16	0.21
E5129143 (663030)	2.30	1.59	0.70	13.5	15.4	2.90	4	5	0.47	<0.2	1.45	22.4	19	0.21
E5129144 (663031)	2.66	1.70	0.78	12.7	14.9	3.19	4	4	0.55	<0.2	1.67	22.9	26	0.24
E5129145 (663032)	2.56	1.55	0.74	14.0	13.8	3.01	4	4	0.50	<0.2	1.42	24.5	20	0.20
E5129146 (663033)	3.10	1.77	0.79	10.7	16.4	3.56	3	5	0.59	<0.2	1.84	25.5	22	0.26
E5129147 (663034)	2.69	1.68	0.74	11.1	15.7	3.19	3	5	0.59	<0.2	1.76	21.8	23	0.24
E5129148 (663035)	2.78	1.73	0.71	10.8	15.8	3.21	3	5	0.58	<0.2	1.80	20.9	26	0.25
E5129149 (663036)	2.71	1.64	0.73	10.8	17.1	3.10	3	5	0.56	<0.2	1.87	19.4	25	0.27
E5129150 (663037)	2.72	1.65	0.74	8.99	16.0	3.12	3	5	0.57	<0.2	1.82	21.3	26	0.27
E5129151 (663038)	2.75	1.66	0.74	11.7	14.3	3.26	3	4	0.57	<0.2	1.74	21.5	21	0.26
E5129152 (663039)	2.98	1.89	0.64	9.86	15.4	3.16	3	5	0.63	<0.2	1.98	19.8	18	0.27
E5129153 (663040)	2.93	1.74	0.64	11.2	16.8	2.99	3	5	0.56	<0.2	1.88	19.1	21	0.26
E5129154 (663041)	2.70	1.64	0.71	9.05	16.0	2.99	3	5	0.56	<0.2	1.90	18.6	19	0.26
E5129155 (663042)	2.78	1.83	0.65	8.78	17.8	3.17	3	6	0.61	<0.2	1.95	19.6	20	0.31
E5129156 (663043)	3.04	1.98	0.73	8.90	17.7	3.13	3	5	0.59	<0.2	1.78	21.4	26	0.27
E5129157 (663044)	3.00	1.84	0.78	8.32	16.7	3.35	3	5	0.62	<0.2	1.83	19.0	30	0.28
E5129158 (663045)	2.78	1.71	0.70	13.9	13.7	3.18	4	5	0.58	<0.2	1.39	25.5	21	0.26
E5129159 (663046)	2.97	1.88	0.73	10.2	18.8	3.27	3	5	0.61	<0.2	1.87	20.5	22	0.27
E5308953 (663047)	2.54	1.50	0.74	12.6	12.7	3.53	4	4	0.57	<0.2	1.68	25.0	21	0.23
E5308954 (663048)	2.38	1.43	0.71	13.7	13.8	2.93	4	5	0.47	<0.2	1.48	27.0	14	0.19
E5308955 (663049)	2.33	1.36	0.76	12.3	12.4	2.88	4	4	0.47	<0.2	1.48	26.7	16	0.21
E5308956 (663050)	2.39	1.39	0.69	12.4	13.7	3.15	4	5	0.50	<0.2	1.58	27.1	20	0.19

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Ho	In	K	La	Li	Lu
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
RDL:	0.05	0.05	0.05	0.01	0.01	0.05	1	1	0.05	0.2	0.05	0.1	10	0.05
E5308957 (663051)	2.35	1.47	0.69	11.7	13.1	3.03	4	5	0.49	<0.2	1.39	26.3	17	0.19
E5308958 (663052)	2.36	1.37	0.67	10.2	13.6	2.84	4	5	0.47	<0.2	1.61	24.7	14	0.22
E5308959 (663053)	2.47	1.55	0.77	12.1	14.5	3.00	4	5	0.47	<0.2	1.67	26.1	22	0.21
E5308960 (663054)	2.61	1.76	0.59	11.1	18.3	2.52	4	5	0.57	<0.2	1.62	16.3	14	0.28
E5308961 (663055)	2.75	1.84	0.60	10.8	17.1	2.88	4	6	0.58	<0.2	1.77	18.1	18	0.30
E5308962 (663056)	3.14	1.98	0.76	9.11	17.9	3.37	3	6	0.65	<0.2	2.01	22.0	36	0.31
E5308963 (663057)	3.50	2.19	0.87	8.15	19.3	3.65	3	5	0.69	<0.2	2.09	23.4	38	0.32
E5308964 (663058)	3.29	2.05	0.76	9.86	19.4	3.45	4	5	0.70	<0.2	1.76	20.5	24	0.34
E5308965 (663059)	3.32	2.18	0.72	9.59	20.4	3.51	4	6	0.70	<0.2	2.00	20.0	18	0.35
E5308966 (663060)	2.95	1.83	0.80	12.0	17.9	3.18	4	5	0.63	<0.2	1.68	21.6	17	0.31
E5308967 (663061)	2.81	1.82	0.58	12.3	17.0	2.89	4	6	0.56	<0.2	1.54	17.6	20	0.28
E5308968 (663062)	2.65	1.72	0.65	9.42	20.0	2.64	3	5	0.57	<0.2	1.85	17.8	24	0.28
E5308969 (663063)	3.26	2.01	0.73	10.3	20.5	4.07	4	6	0.70	<0.2	1.99	36.6	32	0.30
E5308970 (663064)	3.11	1.80	0.85	7.04	14.9	3.27	3	4	0.59	<0.2	2.06	20.5	28	0.26
E5308971 (663065)	2.59	1.63	0.63	10.9	15.4	2.89	4	5	0.49	<0.2	1.68	17.4	21	0.23
E5308972 (663066)	2.73	1.61	0.68	11.7	15.9	3.17	4	4	0.53	<0.2	1.56	22.8	18	0.23
E5308973 (663067)	2.81	2.00	0.68	11.0	17.8	3.15	4	5	0.64	<0.2	1.96	19.2	18	0.32
E5308934 (663068)	2.72	1.57	0.97	17.4	13.3	3.85	4	5	0.52	<0.2	1.28	32.3	13	0.23
E5308935 (663069)	3.17	1.94	0.98	17.4	13.7	4.29	5	4	0.61	<0.2	2.02	30.6	20	0.26
E5308936 (663070)	2.48	1.52	0.72	10.4	15.4	2.94	4	5	0.50	<0.2	1.61	25.6	23	0.23
E5308937 (663071)	2.54	1.59	0.82	26.9	13.5	3.15	8	3	0.51	<0.2	1.22	24.8	17	0.19
E5308938 (663072)	2.55	1.51	0.73	12.4	14.1	2.98	4	4	0.51	<0.2	1.82	26.0	20	0.22
E5308939 (663073)	2.49	1.60	0.71	12.4	15.2	3.04	4	5	0.51	<0.2	1.65	24.1	16	0.22
E5308940 (663074)	2.43	1.45	0.86	11.5	16.3	3.43	4	5	0.50	<0.2	1.72	30.6	16	0.23
E5308941 (663075)	2.59	1.57	0.78	11.6	18.0	3.22	4	5	0.51	<0.2	2.01	28.5	20	0.22
E5308942 (663076)	2.51	1.52	0.73	16.0	14.1	3.13	4	4	0.50	<0.2	1.73	23.0	22	0.23
E5308943 (663077)	3.02	1.83	0.87	18.9	13.2	3.69	5	4	0.59	<0.2	1.81	28.3	22	0.26
E5308944 (663078)	3.42	1.98	0.94	14.8	13.6	4.39	4	5	0.68	<0.2	1.81	29.4	20	0.26
E5308945 (663079)	2.69	1.72	0.77	8.42	14.8	3.26	3	5	0.51	<0.2	2.13	27.7	20	0.25
E5308946 (663080)	3.25	1.76	1.09	12.3	14.7	4.22	4	4	0.66	<0.2	2.08	30.5	26	0.29
E5308947 (663081)	2.18	1.23	0.59	12.9	13.1	2.37	4	4	0.43	<0.2	1.47	20.5	14	0.20
E5308948 (663082)	2.28	1.40	0.66	14.7	12.2	3.05	4	4	0.47	<0.2	1.46	25.3	12	0.22

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Ho	In	K	La	Li	Lu
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
RDL:	0.05	0.05	0.05	0.01	0.01	0.05	1	1	0.05	0.2	0.05	0.1	10	0.05
E5308949 (663083)	2.27	1.29	0.70	14.7	13.5	2.90	4	4	0.45	<0.2	1.42	24.6	16	0.19
E5308950 (663084)	2.22	1.34	0.61	13.0	13.0	3.14	4	5	0.46	<0.2	1.42	27.4	14	0.19
E5308951 (663085)	2.65	1.62	0.73	12.5	13.4	3.29	4	5	0.52	<0.2	1.47	28.3	17	0.22
E5308952 (663086)	2.24	1.36	0.63	10.6	15.0	2.60	3	4	0.46	<0.2	1.58	22.3	19	0.20
E5308910 (663087)	2.62	1.60	0.72	7.60	16.8	3.23	3	5	0.56	<0.2	1.99	21.8	27	0.25
E5308911 (663088)	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC
E5308912 (663089)	3.08	1.71	0.73	8.66	19.0	3.32	3	4	0.62	<0.2	2.03	23.9	33	0.26
E5308913 (663090)	2.81	1.72	0.73	8.37	15.9	3.42	3	5	0.57	<0.2	1.70	23.6	31	0.26
E5308914 (663091)	2.90	1.71	0.74	7.76	16.7	4.01	3	5	0.60	<0.2	2.08	26.0	29	0.27
E5308915 (663092)	2.98	1.80	0.78	7.92	17.2	3.08	3	5	0.59	<0.2	1.97	20.4	28	0.27
E5308916 (663093)	2.82	1.71	0.69	8.00	16.6	2.97	3	5	0.57	<0.2	2.02	21.0	30	0.25
E5308917 (663094)	2.89	1.67	0.72	9.12	15.8	3.32	3	5	0.64	<0.2	1.94	25.2	27	0.25
E5308918 (663095)	3.19	1.86	0.85	9.33	15.8	3.93	3	5	0.63	<0.2	1.99	27.3	27	0.27
E5308919 (663096)	2.83	1.68	0.74	8.50	15.4	3.25	3	5	0.55	<0.2	1.88	22.5	30	0.24
E5308920 (663097)	2.93	1.71	0.76	9.07	15.1	3.35	3	5	0.60	<0.2	1.90	22.2	25	0.26
E5308921 (663098)	3.48	1.97	0.90	8.78	16.7	3.97	3	5	0.66	<0.2	2.08	31.8	31	0.29
E5308922 (663099)	3.01	1.71	0.77	11.5	15.1	3.43	4	5	0.59	<0.2	1.79	27.1	24	0.27
E5308923 (663100)	2.81	1.64	0.77	12.0	14.1	3.45	4	5	0.55	<0.2	1.81	27.5	21	0.26
E5308924 (663101)	2.94	1.62	0.80	8.98	15.5	3.33	3	4	0.56	<0.2	1.89	26.9	33	0.23
E5308925 (663102)	2.42	1.47	0.70	11.3	14.8	2.93	3	5	0.45	<0.2	1.71	22.4	20	0.23
E5308926 (663103)	2.79	1.57	0.75	8.53	15.2	3.19	3	4	0.54	<0.2	1.77	23.4	28	0.24
E5308927 (663104)	2.51	1.46	0.77	7.62	15.0	2.86	3	4	0.52	<0.2	1.76	20.6	24	0.25
E5308928 (663105)	3.01	1.78	0.89	12.4	14.7	3.60	4	5	0.61	<0.2	2.01	26.8	26	0.26
E5308929 (663106)	3.09	1.74	0.85	14.2	14.0	3.68	4	5	0.60	<0.2	1.79	28.3	19	0.28
E5308930 (663107)	2.83	1.64	0.79	10.2	15.7	3.50	3	5	0.58	<0.2	1.78	28.5	22	0.25
E5308931 (663108)	2.72	1.60	0.75	10.2	15.4	3.24	3	4	0.57	<0.2	1.82	24.7	22	0.23
E5308932 (663109)	2.80	1.59	0.93	15.1	12.5	3.75	4	4	0.55	<0.2	1.25	28.8	18	0.21
E5308933 (663110)	2.77	1.60	0.95	18.1	10.9	3.89	4	4	0.58	<0.2	1.15	33.5	14	0.20
E5129380 (663111)	3.15	1.67	1.25	8.38	17.1	5.06	4	4	0.57	<0.2	1.92	44.4	18	0.23
E5129381 (663112)	3.22	1.91	0.96	4.68	19.3	4.27	3	6	0.59	<0.2	1.50	38.0	15	0.28
E5129382 (663113)	3.20	2.03	0.82	3.14	17.6	3.76	3	10	0.68	<0.2	2.03	33.6	<10	0.31
E5129383 (663114)	2.93	1.82	0.74	9.96	15.0	3.15	3	6	0.57	<0.2	1.65	25.3	22	0.26

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Ho	In	K	La	Li	Lu
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
RDL:	0.05	0.05	0.05	0.01	0.01	0.05	1	1	0.05	0.2	0.05	0.1	10	0.05
E5129384 (663115)	2.92	1.73	0.75	7.75	16.9	3.54	3	6	0.59	<0.2	1.84	26.4	22	0.26
E5129385 (663116)	2.29	1.39	0.52	3.90	18.4	2.38	4	3	0.49	<0.2	2.18	25.9	11	0.19
E5129386 (663117)	2.41	1.30	0.65	11.8	13.6	3.03	4	5	0.45	<0.2	1.75	25.8	18	0.19
E5129387 (663118)	2.30	1.30	0.59	14.0	13.2	2.96	5	3	0.43	<0.2	1.61	23.9	21	0.17
E5129388 (663119)	2.03	1.22	0.52	15.2	11.4	2.52	4	4	0.38	<0.2	1.40	22.4	25	0.18
E5129389 (663120)	2.42	1.51	0.69	12.2	13.1	3.47	4	4	0.48	<0.2	1.79	27.3	26	0.20
E5129390 (663121)	2.47	1.54	0.64	13.2	14.0	3.53	5	4	0.49	<0.2	1.80	29.3	21	0.20
E5129391 (663122)	2.57	1.41	0.65	11.3	13.5	3.15	4	4	0.46	<0.2	1.90	26.1	28	0.20
E5129392 (663123)	3.35	1.68	0.93	7.07	13.6	4.32	3	4	0.63	<0.2	1.82	25.7	35	0.21
E5129393 (663124)	2.52	1.38	0.62	8.28	15.5	2.69	3	4	0.47	<0.2	1.85	19.6	29	0.20
E5129394 (663125)	4.12	2.15	1.22	7.39	13.6	5.62	3	4	0.85	<0.2	2.27	38.0	33	0.27
E5129395 (663126)	3.46	1.81	1.01	7.62	13.5	4.57	3	4	0.64	<0.2	2.07	31.0	32	0.21
E5129396 (663127)	2.39	1.45	0.60	7.68	15.7	2.73	3	4	0.45	<0.2	1.85	18.5	25	0.19
E5129397 (663128)	2.33	1.24	0.65	12.1	13.2	3.06	4	4	0.45	<0.2	1.58	25.3	22	0.19
E5129398 (663129)	2.58	1.54	0.68	9.65	14.5	3.34	3	5	0.51	<0.2	1.83	26.3	25	0.22
E5129399 (663130)	2.58	1.44	0.63	10.3	14.7	3.11	3	4	0.50	<0.2	1.80	24.6	29	0.21
E5309000 (663131)	2.10	1.18	0.60	8.31	13.9	2.79	4	5	0.40	<0.2	1.71	26.0	18	0.18
E5309001 (663132)	2.03	1.21	0.54	10.9	12.2	2.56	3	4	0.40	<0.2	1.55	23.5	20	0.17
E5309002 (663133)	2.08	1.06	0.49	13.3	10.8	2.55	4	4	0.36	<0.2	1.51	23.5	19	0.16
E5309003 (663134)	1.98	1.30	0.53	10.4	12.1	2.57	4	4	0.40	<0.2	1.51	22.8	20	0.17
E5309004 (663135)	2.17	1.37	0.55	13.4	12.3	2.72	4	4	0.43	<0.2	1.83	24.0	23	0.19
E5309005 (663136)	2.12	1.11	0.59	12.0	13.0	2.94	4	4	0.39	<0.2	1.43	28.7	12	0.16
E5309006 (663137)	2.05	1.27	0.59	13.0	11.5	2.99	4	4	0.39	<0.2	1.44	27.7	16	0.15
E5309007 (663138)	2.22	1.27	0.58	12.8	13.3	3.10	4	5	0.39	<0.2	1.52	30.5	16	0.17
E5309008 (663139)	2.01	1.17	0.52	9.35	12.8	2.64	3	4	0.39	<0.2	1.75	23.6	24	0.15
E5309009 (663140)	2.20	1.28	0.65	10.7	11.8	3.04	3	4	0.40	<0.2	1.59	26.6	23	0.15
E5309010 (663141)	2.42	1.29	0.62	12.8	11.9	2.75	3	4	0.45	<0.2	1.59	25.3	17	0.19
E5309011 (663142)	2.27	1.19	0.66	11.5	14.1	2.84	3	4	0.41	<0.2	1.55	26.1	19	0.18
E5309012 (663143)	2.19	1.23	0.61	10.4	13.1	2.97	3	4	0.42	<0.2	1.46	26.1	15	0.17
E5309013 (663144)	2.27	1.23	0.60	12.7	13.0	2.89	3	4	0.43	<0.2	1.68	26.4	19	0.17
E5309014 (663145)	1.91	1.15	0.58	12.2	11.8	2.83	3	4	0.37	<0.2	1.54	24.7	14	0.17
E5309015 (663146)	2.20	1.28	0.56	12.1	13.0	2.87	4	4	0.42	<0.2	1.61	24.3	19	0.17

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Ho	In	K	La	Li	Lu
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
RDL:	0.05	0.05	0.05	0.01	0.01	0.05	1	1	0.05	0.2	0.05	0.1	10	0.05
E5309016 (663147)	2.07	1.22	0.60	11.5	11.4	2.78	3	4	0.41	<0.2	1.39	23.3	13	0.17
E5309017 (663148)	2.17	1.26	0.64	13.6	12.6	2.78	4	4	0.45	<0.2	1.26	22.8	15	0.17
E5309018 (663149)	2.33	1.33	0.58	14.6	13.4	2.97	4	4	0.44	<0.2	1.66	24.1	18	0.20
E5309019 (663150)	2.29	1.28	0.56	14.6	10.3	3.05	4	4	0.46	<0.2	1.31	26.0	17	0.16
E5309020 (663151)	2.19	1.37	0.61	13.6	11.0	3.07	4	6	0.46	<0.2	1.48	24.0	16	0.20
E5309021 (663152)	1.94	1.18	0.43	13.1	13.1	2.33	4	4	0.37	<0.2	1.52	20.1	14	0.17
E5309022 (663153)	2.18	1.26	0.58	11.6	13.3	2.86	3	4	0.43	<0.2	1.52	21.0	16	0.19
E5309023 (663154)	2.23	1.32	0.66	13.5	11.9	2.94	4	4	0.41	<0.2	1.59	23.9	16	0.20
E5309024 (663155)	2.43	1.37	0.62	12.2	13.3	3.20	4	4	0.44	<0.2	1.64	25.0	18	0.20
E5309025 (663156)	2.39	1.52	0.55	13.1	14.0	2.76	4	5	0.46	<0.2	1.65	23.5	29	0.20
E5309026 (663157)	2.85	1.61	0.79	13.8	14.1	3.57	5	5	0.57	<0.2	1.83	26.2	28	0.23
E5309027 (663158)	2.71	1.53	0.71	13.4	13.8	3.19	4	4	0.52	<0.2	1.76	24.7	30	0.22
E5309028 (663159)	2.64	1.44	0.64	13.3	13.0	2.90	5	5	0.52	<0.2	1.69	23.4	28	0.20
E5309029 (663160)	2.24	1.34	0.49	12.3	13.3	2.40	4	4	0.45	<0.2	1.62	19.3	23	0.21
E5309030 (663161)	2.35	1.43	0.50	14.0	14.1	2.82	4	4	0.47	<0.2	1.68	22.1	30	0.19
E5309031 (663162)	2.09	1.25	0.51	13.2	13.1	2.47	4	4	0.40	<0.2	1.39	18.9	19	0.18
E5309032 (663163)	2.35	1.48	0.59	13.2	13.8	2.92	4	4	0.47	<0.2	1.64	24.4	21	0.20
E5309033 (663164)	2.11	1.15	0.53	13.4	12.1	2.49	4	4	0.39	<0.2	1.56	21.3	24	0.17
E5309034 (663165)	2.39	1.35	4.97	13.5	14.1	2.71	4	4	0.47	<0.2	1.68	22.6	23	0.21
E5309035 (663166)	2.17	1.36	0.56	12.5	14.7	2.75	4	4	0.42	<0.2	1.63	22.5	24	0.18
E5309036 (663167)	2.42	1.50	0.60	13.6	13.2	3.06	4	4	0.49	<0.2	1.64	22.2	28	0.21
E5309037 (663168)	2.31	1.41	0.55	13.6	13.4	2.95	4	4	0.44	<0.2	1.60	24.7	24	0.19
E5309038 (663169)	2.15	1.37	0.55	12.8	13.0	2.60	4	4	0.41	<0.2	1.59	22.0	24	0.18
E5309039 (663170)	2.48	1.29	0.70	14.1	13.2	3.06	4	4	0.51	<0.2	1.77	23.7	29	0.19
E5309040 (663171)	2.41	1.34	0.66	12.8	13.7	2.78	4	4	0.50	<0.2	1.75	22.8	32	0.20
E5309041 (663172)	2.01	1.27	0.52	12.6	12.3	2.49	4	4	0.40	<0.2	1.51	21.2	19	0.19
E5309042 (663173)	2.77	1.55	0.75	13.7	13.9	3.31	4	4	0.49	<0.2	1.71	28.9	27	0.21
E5309043 (663174)	2.68	1.53	0.69	13.3	13.3	3.02	4	4	0.51	<0.2	1.68	22.3	23	0.22
E5309044 (663175)	2.43	1.29	0.53	13.1	13.0	3.04	4	4	0.45	<0.2	1.66	24.1	24	0.18
E5309045 (663176)	2.05	1.14	0.54	12.0	11.6	2.60	4	4	0.40	<0.2	1.51	20.6	22	0.17
E5309046 (663177)	2.31	1.32	0.56	14.2	11.2	2.56	4	4	0.43	<0.2	1.45	19.6	20	0.20
E5309047 (663178)	2.51	1.37	0.59	12.1	12.8	3.21	4	4	0.47	<0.2	1.61	25.8	22	0.19

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Ho	In	K	La	Li	Lu
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
RDL:	0.05	0.05	0.05	0.01	0.01	0.05	1	1	0.05	0.2	0.05	0.1	10	0.05
E5309048 (663179)	2.16	1.32	0.54	12.7	11.0	2.49	4	4	0.41	<0.2	1.54	19.5	20	0.18
E5309049 (663180)	2.36	1.29	0.61	13.5	12.5	2.73	5	4	0.49	<0.2	1.65	20.7	24	0.19
E5309050 (663181)	2.15	1.29	0.57	15.8	12.8	2.99	5	4	0.45	<0.2	1.48	24.3	22	0.19
E5309051 (663182)	3.02	1.78	0.83	13.9	14.9	3.84	6	4	0.61	<0.2	1.50	33.5	21	0.23
E5309052 (663183)	2.86	1.74	0.82	17.4	14.3	3.83	5	4	0.57	<0.2	1.68	28.0	20	0.26
E5309053 (663184)	2.68	1.67	0.77	23.4	12.5	3.29	6	4	0.50	<0.2	1.41	23.4	16	0.23
E5309054 (663185)	1.62	0.88	0.32	45.7	6.46	1.72	12	2	0.29	<0.2	0.61	12.4	<10	0.14
E5309055 (663186)	3.57	2.23	0.82	22.0	14.2	4.21	6	4	0.72	<0.2	1.62	30.6	21	0.31
E5309056 (663187)	3.38	2.00	0.91	14.4	16.9	4.13	5	5	0.67	<0.2	1.97	28.8	26	0.27
E5309057 (663188)	3.12	1.84	0.93	13.5	16.7	4.31	4	4	0.62	<0.2	1.97	31.2	26	0.26
E5309058 (663189)	2.40	1.38	0.64	16.6	13.8	3.19	4	4	0.45	<0.2	1.51	25.5	22	0.18
E5309059 (663190)	2.12	1.29	0.55	16.0	12.0	2.49	5	4	0.42	<0.2	1.52	19.9	17	0.19
E5420130 (663191)	2.25	1.26	0.61	10.2	13.6	2.96	4	4	0.44	<0.2	2.03	26.7	23	0.19
E5420131 (663192)	2.37	1.23	0.66	9.64	13.5	3.36	4	5	0.45	<0.2	1.77	30.2	21	0.19
E5420132 (663193)	2.23	1.34	0.69	9.04	13.5	2.84	4	4	0.44	<0.2	2.05	27.2	25	0.19
E5420133 (663194)	2.42	1.30	0.61	17.8	13.1	2.73	6	4	0.44	<0.2	1.69	21.9	19	0.18
E5420134 (663195)	2.08	1.39	0.48	25.3	13.2	2.61	8	4	0.43	<0.2	1.55	22.2	15	0.20
E5420135 (663196)	2.17	1.35	0.50	22.9	15.7	2.95	8	4	0.40	<0.2	2.00	26.1	20	0.19
E5420136 (663197)	2.17	1.30	0.61	22.0	13.4	2.85	7	5	0.42	<0.2	1.58	23.9	14	0.17
E5420137 (663198)	2.36	1.38	0.50	22.9	10.1	3.19	6	4	0.45	<0.2	1.26	25.1	14	0.19
E5420138 (663199)	2.29	1.29	0.66	12.6	12.5	2.84	4	4	0.43	<0.2	1.75	25.7	24	0.17
E5420139 (663200)	2.59	1.47	0.69	12.8	12.8	3.31	5	4	0.48	<0.2	1.81	28.9	26	0.18
E5420140 (663201)	2.39	1.48	0.61	9.98	13.4	3.16	4	4	0.46	<0.2	1.96	26.4	28	0.20
E5420141 (663202)	2.89	1.64	0.69	9.54	15.4	3.55	3	5	0.55	<0.2	2.10	26.9	28	0.21
E5420142 (663203)	2.88	1.53	0.74	12.4	14.0	3.63	4	5	0.52	<0.2	2.02	30.1	26	0.21
E5420143 (663204)	2.65	1.52	0.65	10.3	15.4	3.35	4	5	0.48	<0.2	1.95	29.6	25	0.20
E5420144 (663205)	2.66	1.58	0.69	11.2	14.5	3.28	4	5	0.50	<0.2	2.21	26.7	29	0.20
E5420145 (663206)	2.42	1.45	0.70	10.9	14.6	2.96	3	4	0.50	<0.2	1.95	26.0	25	0.21
E5420146 (663207)	2.61	1.43	0.63	8.06	16.0	2.81	3	5	0.48	<0.2	2.02	23.2	21	0.23
E5420147 (663208)	2.58	1.55	0.72	10.8	17.3	2.91	3	5	0.52	<0.2	1.88	23.4	26	0.24
E5420148 (663209)	2.27	1.31	0.61	11.2	14.7	3.00	4	5	0.43	<0.2	1.74	26.5	27	0.20
E5420149 (663210)	2.58	1.50	0.66	8.03	16.6	2.77	3	5	0.49	<0.2	1.90	20.1	26	0.22

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Dy ppm 0.05	Er ppm 0.05	Eu ppm 0.05	Fe % 0.01	Ga ppm 0.01	Gd ppm 0.05	Ge ppm 1	Hf ppm 1	Ho ppm 0.05	In ppm 0.2	K % 0.05	La ppm 0.1	Li ppm 10	Lu ppm 0.05
E5420150 (663211)		2.81	1.64	0.59	18.1	14.0	3.23	5	4	0.56	<0.2	1.52	25.7	20	0.24
E5420151 (663212)		2.59	1.51	0.70	10.1	15.3	3.39	3	5	0.51	<0.2	1.86	26.0	21	0.22
E5420152 (663213)		2.37	1.41	0.56	10.6	14.8	2.57	3	5	0.44	<0.2	1.72	20.6	24	0.21
E5420153 (663214)		2.62	1.42	0.74	11.2	13.2	3.27	4	5	0.46	<0.2	1.96	31.4	19	0.20
E5420154 (663215)		2.40	1.43	0.56	8.97	19.0	2.61	4	5	0.48	<0.2	1.85	20.8	17	0.22
E5420155 (663216)		2.61	1.62	0.67	8.87	21.2	2.93	4	5	0.54	<0.2	2.41	22.7	25	0.24
E5420156 (663217)		2.72	1.52	0.74	9.97	14.7	3.10	3	5	0.50	<0.2	2.05	26.7	22	0.23
E5420157 (663218)		2.69	1.59	0.61	10.7	19.8	3.23	4	6	0.54	<0.2	2.03	22.2	21	0.28
E5420158 (663219)		2.83	1.63	0.70	10.3	14.9	3.41	4	5	0.55	<0.2	1.70	26.4	21	0.24
E5420159 (663220)		2.54	1.44	0.52	10.5	16.3	2.77	4	5	0.49	<0.2	1.69	19.4	22	0.24
E5420110 (663221)		2.54	1.36	0.73	9.11	13.5	3.20	3	5	0.46	<0.2	1.86	31.2	22	0.19
E5420111 (663222)		2.36	1.47	0.71	10.5	12.8	2.87	4	5	0.45	<0.2	1.57	26.5	18	0.19
E5420112 (663223)		2.26	1.44	0.64	8.44	14.5	2.68	4	5	0.44	<0.2	1.81	24.3	18	0.20
E5420113 (663224)		2.25	1.25	0.59	8.99	12.6	2.86	3	5	0.44	<0.2	1.61	25.4	22	0.20
E5420114 (663225)		2.43	1.38	0.68	10.1	12.9	2.96	4	5	0.47	<0.2	1.73	27.7	26	0.21
E5420115 (663226)		2.35	1.43	0.71	9.69	12.1	3.04	3	5	0.43	<0.2	1.59	26.8	23	0.19
E5420116 (663227)		2.49	1.43	0.67	8.83	15.6	3.37	4	5	0.46	<0.2	1.92	27.8	23	0.21
E5420117 (663228)		2.45	1.31	0.67	8.74	13.2	3.03	3	5	0.47	<0.2	1.73	27.4	20	0.20
E5420118 (663229)		3.87	2.16	1.18	10.3	16.2	5.06	4	5	0.76	<0.2	2.35	41.0	31	0.28
E5420119 (663230)		2.24	1.46	0.63	8.49	14.9	2.86	4	5	0.46	<0.2	1.70	25.1	22	0.22
E5420120 (663231)		2.67	1.49	0.78	8.40	14.7	3.61	3	4	0.52	<0.2	1.98	30.5	31	0.19
E5420121 (663232)		3.32	1.72	1.03	9.44	14.9	4.35	3	5	0.61	<0.2	2.25	38.9	28	0.22
E5420122 (663233)		3.42	1.87	1.04	9.96	16.5	4.38	4	6	0.67	<0.2	2.61	34.5	34	0.28
E5420123 (663234)		2.97	1.77	0.81	8.40	17.9	3.67	3	5	0.57	<0.2	2.64	29.9	32	0.24
E5420124 (663235)		2.74	1.55	0.78	6.29	17.9	3.43	3	5	0.52	<0.2	2.67	28.3	33	0.22
E5420125 (663236)		3.20	1.83	0.95	10.7	15.7	3.94	4	5	0.61	<0.2	2.24	30.8	28	0.26
E5420126 (663237)		2.78	1.60	0.83	8.39	13.1	3.45	3	5	0.50	<0.2	1.92	32.4	27	0.21
E5420127 (663238)		2.59	1.48	0.75	9.77	14.1	3.59	4	5	0.50	<0.2	1.74	32.2	20	0.23
E5420128 (666124)		2.57	1.45	0.75	8.31	14.5	2.93	4	5	0.48	<0.2	1.91	29.3	18	0.20
E5420129 (666126)		2.37	1.45	0.69	9.74	13.7	3.10	4	5	0.43	<0.2	1.89	29.5	22	0.20
E5129138 (680459)		2.57	1.39	0.79	12.2	13.8	3.89	4	5	0.46	<0.2	1.40	35.4	16	0.20

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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<http://www.agatlabs.com>

CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Sc	Si
Unit:	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%
RDL:	0.01	10	2	1	0.1	5	0.01	5	0.05	0.2	0.01	0.1	5	0.01
E5417863 (662859)	0.74	478	4	12	16.0	16	0.07	20	4.35	98.6	<0.01	1.1	12	24.8
E5417864 (662860)	0.40	567	2	8	14.6	9	0.07	13	4.06	52.5	<0.01	0.7	7	25.2
E5417865 (662861)	0.57	420	3	12	18.0	10	0.06	14	5.09	93.3	<0.01	0.9	11	29.1
E5417866 (662862)	0.49	359	3	11	22.6	12	0.09	21	6.33	82.3	0.01	0.8	10	25.1
E5417867 (662863)	0.65	523	3	12	15.2	15	0.09	18	4.16	88.4	0.01	1.1	10	25.0
E5417886 (662864)	0.68	618	3	13	18.6	19	0.05	22	5.07	76.0	<0.01	1.7	9	27.1
E5417887 (662865)	0.57	372	4	15	16.8	13	0.05	17	4.65	86.8	<0.01	1.4	10	28.3
E5417888 (662866)	0.68	558	4	13	18.9	25	0.07	20	5.22	80.4	<0.01	1.5	9	25.7
E5417889 (662867)	0.76	626	4	12	16.5	22	0.06	21	4.68	89.1	<0.01	1.6	10	26.8
E5417890 (662868)	0.73	656	4	14	17.3	20	0.06	21	4.80	94.4	<0.01	1.5	10	26.9
E5417891 (662869)	0.54	387	3	13	17.1	13	0.08	17	4.79	70.0	0.02	0.9	8	24.8
E5417892 (662870)	0.72	721	3	12	29.9	20	0.06	21	8.43	70.2	<0.01	1.2	9	26.4
E5129400 (662871)	0.56	603	<2	11	20.1	17	0.05	14	5.58	82.2	<0.01	0.7	9	27.9
E5129401 (662872)	0.53	640	<2	12	24.3	17	0.05	12	7.00	105	<0.01	0.6	10	28.9
E5129402 (662873)	0.66	437	<2	13	22.2	22	0.05	13	6.34	109	<0.01	0.7	10	30.1
E5129403 (662874)	0.56	284	<2	12	21.1	16	0.04	10	5.73	91.7	<0.01	0.6	9	29.0
E5129404 (662875)	0.54	566	<2	11	18.8	18	0.04	11	5.28	114	<0.01	0.7	9	27.3
E5129405 (662876)	0.47	1090	<2	11	23.2	21	0.05	12	6.51	69.8	<0.01	0.6	8	28.0
E5129406 (662877)	0.61	915	2	11	18.4	22	0.04	17	5.20	95.9	<0.01	0.7	9	26.4
E5129407 (662878)	0.22	373	<2	14	21.1	<5	0.04	11	5.99	47.8	<0.01	0.6	5	26.6
E5129408 (662879)	0.38	1190	<2	14	19.1	14	0.04	12	5.17	49.4	<0.01	0.6	5	24.9
E5129409 (662880)	0.38	550	<2	15	20.1	12	0.05	11	5.62	48.2	<0.01	0.5	6	25.3
E5420237 (662881)	0.48	586	<2	11	25.4	14	0.06	13	7.18	55.2	<0.01	0.6	7	27.4
E5420238 (662882)	0.46	500	<2	10	16.7	13	0.06	12	4.86	52.1	<0.01	0.5	6	25.2
E5420239 (662883)	0.49	596	<2	11	21.3	17	0.05	13	6.08	55.5	<0.01	0.6	7	27.4
E5420240 (662884)	0.45	423	<2	12	21.7	12	0.06	12	5.95	57.8	<0.01	0.6	7	28.1
E5420241 (662885)	0.48	473	<2	10	19.9	13	0.07	11	5.41	56.6	<0.01	0.5	7	29.2
E5420242 (662886)	0.35	361	<2	11	17.8	8	0.07	14	5.33	48.0	<0.01	0.9	6	26.3
E5420243 (662887)	0.33	218	<2	10	16.0	14	0.10	10	4.55	59.1	<0.01	0.6	7	24.1
E5420244 (662888)	0.49	661	<2	11	17.9	14	0.05	19	5.02	63.3	<0.01	0.8	7	26.7
E5420245 (662889)	0.62	873	3	10	20.5	15	0.06	16	5.85	58.3	0.01	1.3	10	22.1
E5420246 (662890)	0.61	846	4	12	17.6	15	0.08	18	4.83	71.1	0.01	1.3	10	24.8

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Mg %	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	P %	Pb ppm	Pr ppm	Rb ppm	S %	Sb ppm	Sc ppm	Si %
E5420247 (662891)		0.70	1470	3	10	20.2	14	0.09	20	5.63	67.8	<0.01	1.3	10	22.7
E5420248 (662892)		0.64	1660	4	10	19.0	16	0.10	20	5.49	64.6	0.01	1.1	10	22.7
E5420249 (662893)		0.57	761	3	10	15.7	11	0.06	15	4.33	71.5	<0.01	0.9	10	26.5
E5420250 (662894)		0.56	487	2	9	16.6	17	0.05	12	4.47	79.7	<0.01	0.6	8	23.3
E5420251 (662895)		0.57	1120	2	10	27.7	11	0.08	17	7.70	84.2	<0.01	1.0	10	24.8
E5420252 (662896)		0.66	732	2	10	23.7	13	0.06	19	6.65	70.9	<0.01	0.7	10	21.6
E5420253 (662897)		0.71	691	2	9	16.5	16	0.04	18	4.58	69.8	<0.01	0.9	11	25.4
E5420254 (662898)		0.54	516	3	11	18.5	12	0.08	18	5.23	71.4	<0.01	0.9	10	25.8
E5420255 (662899)		0.66	573	3	10	15.4	16	0.06	16	4.39	76.8	<0.01	0.8	10	25.5
E5420256 (662900)		0.67	581	3	9	23.8	14	0.06	17	6.55	68.6	<0.01	0.9	10	23.9
E5420257 (662901)		0.46	396	4	11	16.1	10	0.07	15	4.34	71.8	<0.01	0.9	9	24.6
E5420258 (662902)		0.66	652	4	10	14.9	16	0.10	21	4.19	75.7	0.01	1.1	10	26.0
E5420259 (662903)		0.64	656	3	10	16.3	15	0.06	16	4.39	92.4	<0.01	1.0	16	26.3
E5308866 (662904)		0.62	547	3	12	14.4	15	0.06	16	4.00	83.5	<0.01	1.0	10	27.6
E5308867 (662905)		0.91	1000	3	10	20.4	32	0.05	22	5.63	86.5	<0.01	1.3	11	26.7
E5308868 (662906)		0.79	689	3	11	14.7	31	0.07	18	4.15	76.8	0.01	0.9	10	27.2
E5308869 (662907)		0.78	882	3	11	19.2	25	0.06	19	5.44	78.0	<0.01	1.1	9	27.2
E5308870 (662908)		0.78	1100	3	12	21.9	27	0.06	20	6.19	78.9	<0.01	1.3	10	27.6
E5308871 (662909)		0.69	1750	3	11	15.6	19	0.09	17	4.28	73.1	<0.01	1.0	9	27.7
E5308872 (662910)		0.93	1670	4	12	24.7	42	0.06	26	6.91	87.1	<0.01	1.6	11	28.7
E5308873 (662911)		0.68	595	4	14	15.7	16	0.06	19	4.29	72.1	0.01	0.4	10	27.7
E5308874 (662912)		0.89	1070	4	12	19.3	30	0.06	22	5.32	76.5	<0.01	0.6	10	28.7
E5308875 (662913)		0.78	607	3	13	16.4	24	0.06	18	4.45	77.8	<0.01	0.3	10	28.0
E5308876 (662914)		0.90	1270	4	12	19.5	33	0.06	25	5.18	82.4	<0.01	1.0	10	28.6
E5308877 (662915)		0.76	746	4	13	21.1	24	0.05	20	5.82	77.3	<0.01	1.0	10	28.6
E5308878 (662916)		0.86	958	4	13	20.6	31	0.06	20	5.64	81.6	<0.01	1.0	10	27.2
E5308879 (662917)		0.47	713	5	37	17.0	19	0.03	15	4.53	45.8	<0.01	0.6	7	32.0
E5308880 (662918)		0.77	780	5	13	16.0	22	0.05	20	4.36	85.2	<0.01	1.1	10	28.7
E5308881 (662919)		0.67	682	4	17	16.1	19	0.06	19	4.43	77.4	<0.01	0.8	10	27.8
E5308882 (662920)		0.54	630	4	17	17.7	15	0.06	19	4.72	62.9	0.01	0.6	9	25.9
E5308883 (662921)		0.65	431	4	13	14.1	16	0.04	16	3.80	77.3	<0.01	0.7	10	29.2
E5308884 (662922)		0.60	526	4	11	13.5	16	0.06	19	3.63	70.2	<0.01	0.8	9	29.0

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Mg %	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	P %	Pb ppm	Pr ppm	Rb ppm	S %	Sb ppm	Sc ppm	Si %
E5163036 (662923)		0.69	535	3	12	17.9	15	0.05	14	4.93	81.5	<0.01	0.4	10	28.0
E5163037 (662924)		0.60	516	3	15	21.6	15	0.05	12	5.95	93.0	<0.01	0.2	11	28.5
E5163038 (662925)		0.69	885	3	11	20.9	21	0.05	15	5.70	70.8	<0.01	0.3	10	27.7
E5163039 (662926)		0.65	352	3	13	20.1	19	0.06	17	5.33	68.2	0.02	0.2	9	26.0
E5163040 (662927)		0.75	637	3	12	19.3	21	0.05	15	5.45	75.9	<0.01	0.4	10	28.7
E5163041 (662928)		0.52	953	2	14	22.4	21	0.04	12	6.15	80.8	<0.01	0.2	8	29.3
E5163042 (662929)		0.64	1090	2	14	24.6	23	0.05	14	6.73	74.5	<0.01	0.3	9	28.5
E5163043 (662930)		0.76	797	3	13	18.9	23	0.05	17	5.24	87.9	<0.01	0.5	11	29.2
E5163044 (662931)		0.37	1430	<2	12	22.1	16	0.04	10	6.11	63.3	<0.01	<0.1	6	28.9
E5163045 (662932)		0.54	917	<2	13	20.0	18	0.05	15	5.59	84.5	<0.01	1.1	9	29.5
E5163046 (662933)		0.71	650	3	15	18.4	21	0.05	15	4.93	86.0	<0.01	1.1	10	28.3
E5163047 (662934)		0.49	767	3	15	20.8	11	0.10	13	5.76	82.7	<0.01	0.9	10	25.9
E5163048 (662935)		0.68	787	3	14	20.3	20	0.09	16	5.68	93.0	0.02	0.9	10	25.8
E5163049 (662936)		0.80	1150	3	12	19.6	30	0.05	19	5.29	91.0	<0.01	1.1	11	28.1
E5163050 (662937)		0.74	684	3	12	17.6	20	0.05	16	4.73	87.0	<0.01	0.9	10	29.2
E5163051 (662938)		0.74	988	2	12	20.3	23	0.06	17	5.54	79.6	<0.01	0.9	10	28.5
E5163052 (662939)		0.79	816	2	12	20.1	26	0.05	18	5.58	84.4	<0.01	0.9	10	27.8
E5163053 (662940)		0.82	576	3	12	18.3	23	0.05	17	4.82	80.0	<0.01	0.7	11	27.7
E5163054 (662941)		0.67	519	3	12	18.8	19	0.05	14	5.06	82.9	<0.01	0.7	10	28.1
E5163055 (662942)		0.46	504	<2	8	14.6	9	0.06	13	3.95	51.0	<0.01	0.4	8	22.4
E5163056 (662943)		0.75	213	<2	11	17.6	17	0.05	12	4.92	129	0.01	0.4	12	25.3
E5163057 (662944)		0.60	695	6	11	15.3	14	0.09	21	3.99	63.3	<0.01	1.9	9	24.3
E5163058 (662945)		0.59	727	5	12	15.5	13	0.08	21	4.17	74.7	<0.01	1.5	8	28.8
E5163059 (662946)		0.71	617	5	11	11.4	16	0.06	24	3.01	75.0	<0.01	1.5	8	28.1
E5420210 (662947)		0.36	388	<2	12	17.7	8	0.04	12	4.98	44.7	<0.01	0.4	6	25.9
E5420211 (662948)		0.47	456	<2	16	21.3	12	0.10	12	5.81	64.2	<0.01	0.4	8	24.6
E5420212 (662949)		0.61	982	<2	14	27.1	21	0.09	12	7.37	73.8	<0.01	0.3	9	27.6
E5420213 (662950)		0.59	839	<2	16	24.5	21	0.06	16	6.92	67.1	<0.01	1.0	8	26.1
E5420214 (662951)		0.75	502	2	13	18.4	26	0.06	19	5.14	82.0	<0.01	1.1	10	26.5
E5420215 (662952)		0.77	399	4	15	20.1	25	0.09	23	5.40	83.5	0.01	1.1	11	24.7
E5420216 (662953)		0.79	494	3	13	17.5	25	0.07	20	4.78	82.4	<0.01	1.3	10	25.4
E5420217 (662954)		0.59	791	2	14	21.1	17	0.05	18	5.79	69.1	<0.01	0.8	8	26.7

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019	DATE RECEIVED: Oct 29, 2019					DATE REPORTED: Dec 11, 2019					SAMPLE TYPE: Soil				
Analyte:	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Sc	Si	
Unit:	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	
RDL:	0.01	10	2	1	0.1	5	0.01	5	0.05	0.2	0.01	0.1	5	0.01	
E5420218 (662955)	0.75	591	4	12	19.4	19	0.06	19	5.19	78.0	<0.01	1.1	10	25.5	
E5420219 (662956)	0.62	543	3	12	18.1	17	0.07	19	4.92	69.0	<0.01	0.8	9	26.5	
E5420220 (662957)	0.76	1150	3	11	25.9	26	0.07	20	6.77	74.5	<0.01	1.0	10	26.0	
E5420221 (662958)	0.82	952	3	11	20.2	29	0.07	20	5.60	79.8	<0.01	1.1	10	26.6	
E5420222 (662959)	0.75	812	4	12	19.1	21	0.07	18	5.11	84.8	<0.01	1.0	10	26.5	
E5420223 (662960)	0.60	432	4	12	17.9	14	0.06	16	4.93	75.3	<0.01	0.9	10	27.4	
E5420224 (662961)	0.52	506	4	13	14.9	11	0.07	18	4.11	83.1	<0.01	0.8	10	27.6	
E5420225 (662962)	0.57	558	3	14	18.9	14	0.07	18	5.15	79.3	<0.01	1.1	10	26.7	
E5420226 (662963)	0.80	871	3	12	20.0	23	0.06	21	5.39	85.8	<0.01	1.1	11	27.1	
E5420227 (662964)	0.71	1080	3	12	17.7	22	0.07	20	4.84	82.8	<0.01	1.0	10	26.4	
E5420228 (662965)	0.69	811	3	12	18.2	19	0.06	18	4.95	86.4	<0.01	0.9	10	28.3	
E5420229 (662966)	0.74	621	3	11	19.3	21	0.06	16	4.95	74.9	<0.01	0.8	10	26.7	
E5420230 (662967)	0.84	1070	3	12	19.4	29	0.05	24	5.20	87.1	<0.01	1.2	10	27.2	
E5420231 (662968)	0.45	551	<2	8	18.4	15	0.06	15	5.03	50.6	<0.01	0.6	7	27.4	
E5420232 (662969)	0.41	504	<2	10	18.9	10	0.06	12	5.28	53.5	<0.01	0.6	7	27.9	
E5420233 (662970)	0.45	679	<2	11	22.6	13	0.06	14	6.34	54.5	<0.01	0.5	7	27.2	
E5420234 (662971)	0.43	458	<2	10	18.9	11	0.06	13	5.36	56.5	<0.01	0.6	7	27.1	
E5420235 (662972)	0.40	468	<2	12	20.0	12	0.06	17	5.47	55.4	<0.01	1.2	6	28.3	
E5420236 (662973)	0.50	504	<2	12	18.6	15	0.06	14	5.24	60.7	<0.01	0.9	8	28.5	
E5163010 (662974)	0.94	2680	2	10	29.9	23	0.07	20	8.14	67.5	<0.01	1.3	9	27.1	
E5163011 (662975)	0.74	2130	<2	10	16.2	22	0.05	16	4.61	64.0	<0.01	1.0	9	27.6	
E5163012 (662976)	0.66	1900	2	12	18.0	20	0.05	15	5.09	69.8	<0.01	1.3	9	28.7	
E5163013 (662977)	0.76	1850	2	11	21.1	21	0.06	17	5.80	63.8	<0.01	1.0	10	26.8	
E5163014 (662978)	0.70	2040	2	12	16.9	21	0.06	15	4.78	66.3	<0.01	1.1	8	27.5	
E5163015 (662979)	0.75	2880	2	11	19.9	26	0.05	18	5.40	75.2	<0.01	1.3	9	26.9	
E5163016 (662980)	0.68	2760	<2	10	17.0	18	0.05	16	4.59	59.1	<0.01	0.9	7	27.1	
E5163017 (662981)	0.63	2040	3	12	18.1	16	0.06	15	4.94	69.7	<0.01	1.3	8	27.1	
E5163018 (662982)	0.69	2790	3	11	20.8	18	0.07	19	5.52	72.2	<0.01	1.3	8	27.2	
E5163019 (662983)	0.76	3200	2	11	21.9	33	0.05	18	6.02	72.7	<0.01	1.5	9	27.6	
E5163020 (662984)	0.65	1670	2	11	18.8	23	0.07	15	5.30	70.5	<0.01	1.1	9	27.8	
E5163021 (662985)	0.72	2250	2	12	22.5	24	0.06	17	6.16	75.6	<0.01	1.3	9	27.6	
E5163022 (662986)	0.67	2270	3	11	19.6	19	0.06	18	5.41	68.5	<0.01	1.1	8	27.4	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019	DATE RECEIVED: Oct 29, 2019					DATE REPORTED: Dec 11, 2019					SAMPLE TYPE: Soil				
Analyte:	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Sc	Si	
Unit:	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	
RDL:	0.01	10	2	1	0.1	5	0.01	5	0.05	0.2	0.01	0.1	5	0.01	
E5163023 (662987)	0.66	2360	3	11	18.8	21	0.08	20	5.18	73.2	0.01	1.2	8	26.6	
E5163024 (662988)	0.58	1710	3	11	18.0	15	0.07	15	4.91	63.9	0.01	0.8	7	26.6	
E5163025 (662989)	0.66	1440	3	11	18.4	17	0.06	16	5.07	63.8	<0.01	1.0	8	26.4	
E5163026 (662990)	0.68	2100	3	10	19.6	19	0.05	17	5.37	61.3	<0.01	1.5	8	26.9	
E5163027 (662991)	0.47	934	3	11	16.3	9	0.06	15	4.50	54.5	<0.01	0.8	7	27.7	
E5163028 (662992)	0.61	2940	3	11	21.7	19	0.08	13	5.83	60.2	0.02	0.9	8	26.6	
E5163029 (662993)	0.50	1180	3	13	25.3	11	0.07	17	6.92	54.1	<0.01	1.1	9	19.5	
E5163030 (662994)	0.61	997	3	13	22.6	19	0.06	18	6.25	70.5	<0.01	1.0	10	24.4	
E5163031 (662995)	0.75	570	3	12	20.2	21	0.06	17	5.56	78.5	<0.01	0.9	10	27.1	
E5163032 (662996)	0.66	760	2	14	27.3	19	0.04	16	7.45	81.1	<0.01	0.7	9	28.9	
E5163033 (662997)	0.96	302	2	15	21.0	26	0.04	17	5.81	113	<0.01	0.8	12	29.2	
E5163034 (662998)	0.77	582	3	10	18.3	19	0.05	14	4.99	75.8	<0.01	0.7	10	28.3	
E5163035 (662999)	0.60	1140	2	12	28.9	18	0.09	13	7.86	61.4	<0.01	0.5	10	22.9	
E5308974 (663000)	0.49	755	8	15	17.2	8	0.08	17	4.80	69.0	<0.01	2.1	9	24.3	
E5308975 (663001)	0.73	520	8	13	15.9	12	0.07	23	4.33	88.8	<0.01	2.0	10	24.7	
E5308976 (663002)	0.77	619	7	13	14.9	19	0.05	21	3.94	82.9	<0.01	1.6	10	26.3	
E5308977 (663003)	0.73	720	7	13	18.3	17	0.07	23	5.21	85.9	<0.01	1.8	10	25.8	
E5308978 (663004)	0.39	538	<2	12	19.8	10	0.09	15	5.50	67.0	0.01	<0.1	7	28.4	
E5308979 (663005)	0.46	446	<2	11	23.1	10	0.06	12	6.33	71.4	<0.01	<0.1	8	28.2	
E5308980 (663006)	0.51	738	<2	11	19.7	13	0.07	14	5.52	68.9	<0.01	<0.1	8	26.9	
E5308981 (663007)	0.42	266	<2	13	23.1	7	0.06	11	6.48	86.4	<0.01	<0.1	8	30.6	
E5308982 (663008)	0.44	453	<2	11	22.3	10	0.07	13	6.14	66.5	0.01	<0.1	7	26.9	
E5308983 (663009)	0.74	363	<2	12	23.0	21	0.06	15	6.15	67.6	<0.01	<0.1	8	26.9	
E5308984 (663010)	0.36	245	<2	13	22.2	7	0.06	10	6.30	62.3	<0.01	<0.1	7	28.8	
E5308985 (663011)	0.54	483	<2	12	20.9	17	0.05	14	5.84	67.3	<0.01	<0.1	8	28.5	
E5308986 (663012)	0.51	492	<2	11	20.5	15	0.06	14	5.75	64.9	<0.01	<0.1	7	28.6	
E5308987 (663013)	0.46	495	<2	12	18.9	12	0.07	13	5.43	66.9	0.01	<0.1	8	28.2	
E5308988 (663014)	0.76	1110	<2	14	20.5	24	0.06	17	5.51	65.3	<0.01	1.1	9	28.2	
E5308989 (663015)	0.55	902	<2	14	20.0	16	0.06	13	5.44	69.2	<0.01	0.7	8	28.8	
E5308990 (663016)	0.48	581	<2	12	21.5	15	0.07	13	5.87	70.5	<0.01	0.6	7	27.6	
E5308991 (663017)	0.59	521	<2	13	20.6	17	0.06	13	5.61	56.8	<0.01	0.6	8	27.5	
E5308992 (663018)	0.58	600	<2	11	19.1	17	0.07	13	5.15	52.6	0.01	0.5	7	25.6	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Mg %	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	P %	Pb ppm	Pr ppm	Rb ppm	S %	Sb ppm	Sc ppm	Si %
E5308993 (663019)		0.48	597	<2	12	21.5	17	0.07	15	5.97	68.6	0.01	0.5	7	26.6
E5308994 (663020)		0.57	760	<2	12	22.8	18	0.05	13	6.08	63.7	<0.01	0.5	8	28.4
E5308995 (663021)		0.53	923	<2	12	23.8	17	0.05	15	6.48	64.2	<0.01	0.7	7	28.9
E5308996 (663022)		0.58	1050	<2	13	20.2	19	0.06	15	5.57	64.9	<0.01	0.6	8	27.8
E5308997 (663023)		0.57	1060	2	14	18.8	18	0.05	14	5.12	67.0	<0.01	0.7	8	28.6
E5308998 (663024)		0.55	582	<2	15	21.4	20	0.05	13	5.77	59.5	<0.01	0.6	7	29.3
E5308999 (663025)		0.48	586	<2	12	19.6	14	0.06	14	5.36	56.7	0.01	0.5	7	27.6
E5129139 (663026)		0.35	292	<2	12	19.2	9	0.04	11	5.07	60.9	<0.01	0.4	7	29.0
E5129140 (663027)		0.30	273	<2	15	22.2	10	0.03	12	5.96	76.2	<0.01	0.5	7	31.3
E5129141 (663028)		0.42	499	2	14	21.5	14	0.04	15	5.67	76.7	<0.01	0.7	8	28.5
E5129142 (663029)		0.40	322	2	12	20.6	8	0.04	14	5.59	71.9	<0.01	0.5	7	29.5
E5129143 (663030)		0.35	290	2	13	18.1	8	0.04	12	4.94	64.9	<0.01	0.7	7	29.0
E5129144 (663031)		0.60	492	3	12	19.2	18	0.05	17	5.23	78.7	<0.01	0.7	9	28.4
E5129145 (663032)		0.46	397	3	15	19.4	13	0.05	15	5.45	63.1	<0.01	0.7	8	28.5
E5129146 (663033)		0.72	486	4	15	21.8	19	0.07	21	5.68	82.7	<0.01	1.2	10	28.2
E5129147 (663034)		0.64	517	4	14	18.5	20	0.06	20	5.06	75.9	<0.01	1.6	9	28.1
E5129148 (663035)		0.72	638	4	12	18.0	21	0.06	22	4.62	79.2	<0.01	1.5	10	28.5
E5129149 (663036)		0.77	626	5	14	16.5	24	0.07	26	4.35	85.7	<0.01	1.6	10	27.4
E5129150 (663037)		0.73	637	4	13	18.1	23	0.07	18	4.73	84.9	<0.01	1.2	9	28.7
E5129151 (663038)		0.70	678	4	12	17.9	20	0.08	21	4.75	72.9	0.01	1.2	9	28.5
E5129152 (663039)		0.75	623	4	11	17.1	20	0.10	19	4.41	85.5	0.01	1.3	9	27.9
E5129153 (663040)		0.75	560	5	14	16.2	18	0.09	23	4.17	82.6	0.02	1.5	9	28.2
E5129154 (663041)		0.72	568	4	14	15.7	19	0.11	20	4.16	84.5	0.03	1.3	10	26.4
E5129155 (663042)		0.66	462	5	13	16.8	14	0.12	20	4.51	89.9	0.02	1.2	10	28.3
E5129156 (663043)		0.80	673	4	12	18.4	22	0.07	25	4.79	82.8	<0.01	1.3	10	26.4
E5129157 (663044)		0.73	419	5	13	16.5	18	0.08	23	4.41	84.3	0.01	1.3	10	27.2
E5129158 (663045)		0.53	880	3	13	20.6	17	0.07	17	5.51	64.0	<0.01	0.9	8	27.3
E5129159 (663046)		0.66	1030	5	15	17.2	18	0.08	22	4.58	94.9	<0.01	1.3	10	28.7
E5308953 (663047)		0.57	1300	2	12	20.6	23	0.05	16	5.63	69.5	<0.01	0.7	8	28.5
E5308954 (663048)		0.54	770	2	11	21.2	21	0.06	15	5.87	61.7	<0.01	0.4	8	27.5
E5308955 (663049)		0.46	876	<2	10	22.4	14	0.07	14	5.96	59.5	<0.01	0.2	7	27.1
E5308956 (663050)		0.47	859	2	12	22.5	17	0.06	14	5.95	67.1	<0.01	0.5	7	30.0

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Sc	Si
Unit:	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%
RDL:	0.01	10	2	1	0.1	5	0.01	5	0.05	0.2	0.01	0.1	5	0.01
E5308957 (663051)	0.45	580	<2	13	19.7	15	0.06	14	5.45	56.0	<0.01	0.3	7	30.5
E5308958 (663052)	0.46	486	<2	12	19.4	15	0.04	12	5.36	66.3	<0.01	0.3	8	31.3
E5308959 (663053)	0.57	665	2	13	20.8	19	0.05	15	5.63	69.2	<0.01	0.5	8	30.5
E5308960 (663054)	0.53	505	7	14	13.8	10	0.10	19	3.74	74.4	<0.01	1.8	9	26.8
E5308961 (663055)	0.57	530	7	15	15.2	12	0.06	21	4.21	80.4	<0.01	2.4	9	28.1
E5308962 (663056)	0.88	799	8	14	19.3	28	0.05	23	5.10	105	<0.01	2.0	11	28.1
E5308963 (663057)	0.97	1030	6	13	21.1	43	0.05	20	5.50	107	<0.01	1.6	11	27.6
E5308964 (663058)	0.53	550	7	17	17.7	11	0.07	19	4.55	89.2	<0.01	2.6	10	28.0
E5308965 (663059)	0.59	726	7	17	17.9	10	0.08	19	4.58	106	<0.01	2.2	11	27.3
E5308966 (663060)	0.56	471	8	17	18.0	13	0.11	17	4.92	89.1	<0.01	2.0	9	27.5
E5308967 (663061)	0.63	762	5	12	16.6	11	0.10	21	4.27	75.2	<0.01	1.5	10	25.7
E5308968 (663062)	0.64	493	6	15	15.1	13	0.08	18	4.03	103	<0.01	1.7	9	27.3
E5308969 (663063)	0.84	1350	8	13	30.3	24	0.07	27	8.20	104	<0.01	2.0	11	26.6
E5308970 (663064)	0.81	1430	4	11	17.3	28	0.05	22	4.73	81.3	<0.01	1.3	9	30.4
E5308971 (663065)	0.69	827	4	12	14.6	16	0.07	16	4.05	74.7	<0.01	1.4	9	28.3
E5308972 (663066)	0.54	587	5	11	20.3	13	0.09	22	5.42	73.9	<0.01	1.3	8	26.3
E5308973 (663067)	0.66	459	5	14	16.3	10	0.05	15	4.32	85.5	<0.01	1.3	11	28.6
E5308934 (663068)	0.53	599	2	18	26.7	15	0.06	13	6.90	52.3	<0.01	0.2	7	25.9
E5308935 (663069)	0.64	1910	2	13	27.0	27	0.05	15	7.17	82.5	<0.01	0.3	9	26.1
E5308936 (663070)	0.51	451	<2	16	21.1	15	0.05	14	5.67	73.6	<0.01	0.3	8	29.6
E5308937 (663071)	0.38	59600	<2	8	21.0	15	0.04	10	5.69	51.7	<0.01	0.3	6	18.8
E5308938 (663072)	0.56	1150	<2	12	21.5	18	0.05	14	5.74	77.1	<0.01	0.4	8	28.6
E5308939 (663073)	0.55	538	2	12	19.9	15	0.05	13	5.37	74.0	<0.01	0.2	9	27.7
E5308940 (663074)	0.55	659	<2	13	24.9	14	0.05	16	6.68	74.3	<0.01	0.2	9	28.4
E5308941 (663075)	0.50	535	<2	14	22.3	16	0.05	14	6.11	91.0	<0.01	0.3	9	28.3
E5308942 (663076)	0.51	1420	2	14	18.7	18	0.05	18	5.11	74.2	<0.01	1.0	8	27.2
E5308943 (663077)	0.55	1830	<2	12	23.5	23	0.05	15	6.42	76.6	<0.01	0.6	8	26.8
E5308944 (663078)	0.61	1740	2	12	25.9	24	0.05	18	6.98	76.8	<0.01	0.8	9	27.2
E5308945 (663079)	0.59	308	<2	13	22.0	16	0.05	13	6.13	86.9	<0.01	0.5	9	31.5
E5308946 (663080)	0.61	870	<2	13	28.1	19	0.07	13	7.48	85.6	<0.01	0.5	10	29.2
E5308947 (663081)	0.41	440	<2	10	15.9	12	0.06	13	4.31	59.7	<0.01	0.4	7	29.1
E5308948 (663082)	0.49	583	2	13	21.7	12	0.06	15	5.79	58.0	<0.01	0.6	8	28.7

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Mg %	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	P %	Pb ppm	Pr ppm	Rb ppm	S %	Sb ppm	Sc ppm	Si %
E5308949 (663083)		0.38	595	<2	14	19.9	10	0.07	17	5.51	59.8	<0.01	0.5	7	28.0
E5308950 (663084)		0.39	385	<2	12	21.7	10	0.06	14	5.93	57.2	<0.01	0.4	7	29.4
E5308951 (663085)		0.47	389	<2	13	21.9	13	0.06	14	6.05	60.4	<0.01	0.4	8	28.6
E5308952 (663086)		0.45	538	<2	14	17.5	13	0.07	13	4.74	64.1	0.01	0.4	7	29.3
E5308910 (663087)		0.72	781	3	13	18.1	21	0.06	18	4.89	90.3	<0.01	0.6	10	28.6
E5308911 (663088)		NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC
E5308912 (663089)		0.91	617	3	13	19.2	26	0.06	20	5.29	86.9	<0.01	0.7	12	28.2
E5308913 (663090)		0.76	692	3	12	19.3	24	0.06	23	5.29	74.2	<0.01	0.6	10	27.3
E5308914 (663091)		0.82	986	3	14	22.5	33	0.05	20	5.99	87.0	<0.01	0.7	11	29.8
E5308915 (663092)		0.80	955	4	13	17.6	26	0.06	21	4.67	91.7	<0.01	0.8	10	28.9
E5308916 (663093)		0.79	1140	3	12	17.2	27	0.06	19	4.62	91.8	<0.01	0.9	10	29.0
E5308917 (663094)		0.73	1000	3	13	21.2	24	0.06	21	5.61	84.4	<0.01	1.3	10	28.8
E5308918 (663095)		0.77	1360	3	12	23.6	33	0.06	22	6.27	85.5	<0.01	1.3	10	28.6
E5308919 (663096)		0.79	1010	3	12	18.5	30	0.07	20	5.05	84.9	<0.01	1.3	10	26.8
E5308920 (663097)		0.75	888	3	13	18.4	26	0.05	21	5.08	82.3	<0.01	1.0	10	28.5
E5308921 (663098)		0.87	1030	3	11	26.2	45	0.05	23	7.22	88.2	<0.01	1.2	11	28.5
E5308922 (663099)		0.63	909	2	13	21.4	23	0.05	17	5.89	80.0	<0.01	0.6	9	28.3
E5308923 (663100)		0.62	1190	2	15	22.2	25	0.05	18	6.23	76.0	<0.01	0.8	9	28.7
E5308924 (663101)		0.80	850	3	13	21.1	33	0.05	19	5.73	80.8	<0.01	0.9	10	27.8
E5308925 (663102)		0.58	624	3	14	17.6	15	0.05	14	4.87	76.5	<0.01	0.7	8	29.3
E5308926 (663103)		0.74	887	3	13	19.7	26	0.06	18	5.14	78.1	<0.01	0.7	10	27.5
E5308927 (663104)		0.66	602	2	13	16.8	22	0.05	16	4.61	71.0	<0.01	0.5	9	29.6
E5308928 (663105)		0.74	1440	3	14	21.6	30	0.05	20	6.06	83.4	<0.01	1.0	9	28.9
E5308929 (663106)		0.60	1170	3	13	22.7	22	0.05	18	6.19	78.4	<0.01	0.6	9	28.5
E5308930 (663107)		0.67	848	3	13	22.7	23	0.05	19	6.39	78.8	<0.01	0.7	9	28.3
E5308931 (663108)		0.66	511	3	13	19.6	19	0.05	16	5.37	75.0	<0.01	0.7	9	29.0
E5308932 (663109)		0.47	1010	2	15	22.9	15	0.06	14	6.31	53.2	<0.01	0.4	7	27.1
E5308933 (663110)		0.40	783	<2	16	27.0	13	0.05	12	7.23	44.2	<0.01	0.3	6	26.5
E5129380 (663111)		0.41	345	<2	12	37.5	19	0.07	14	10.4	92.3	<0.01	0.4	11	28.5
E5129381 (663112)		0.30	121	<2	13	31.1	15	0.04	12	8.77	75.1	<0.01	<0.1	9	31.2
E5129382 (663113)		0.26	52	<2	15	25.7	14	0.03	9	7.40	103	<0.01	<0.1	10	33.7
E5129383 (663114)		0.54	373	2	11	20.0	16	0.04	17	5.69	74.7	<0.01	0.4	10	30.1

Certified By:



Certificate of Analysis

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PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Mg %	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	P %	Pb ppm	Pr ppm	Rb ppm	S %	Sb ppm	Sc ppm	Si %
E5129384 (663115)		0.57	374	3	14	20.4	46	0.04	18	5.85	86.5	<0.01	0.6	10	29.3
E5129385 (663116)		0.32	34	<2	11	15.5	70	0.03	24	5.12	101	<0.01	<0.1	12	29.2
E5129386 (663117)		0.51	1640	<2	15	20.7	19	0.05	14	5.82	70.1	<0.01	0.9	8	28.8
E5129387 (663118)		0.49	1550	<2	12	18.5	18	0.07	10	5.10	69.8	<0.01	0.5	8	27.3
E5129388 (663119)		0.46	707	<2	12	18.4	13	0.06	9	4.97	57.2	<0.01	0.5	7	25.1
E5129389 (663120)		0.51	1040	<2	14	22.4	20	0.05	10	6.20	78.7	<0.01	0.5	8	29.0
E5129390 (663121)		0.63	1510	<2	13	24.2	23	0.06	16	6.64	77.5	<0.01	0.7	9	27.3
E5129391 (663122)		0.60	1120	<2	13	21.4	25	0.05	12	5.66	78.6	<0.01	0.6	9	29.1
E5129392 (663123)		0.74	873	<2	10	24.6	36	0.09	18	6.50	70.4	0.02	0.9	10	23.7
E5129393 (663124)		0.89	575	2	11	17.3	23	0.06	19	4.49	73.7	<0.01	1.0	10	27.1
E5129394 (663125)		1.22	1490	<2	10	35.1	40	0.14	14	8.97	76.0	0.01	0.7	10	26.2
E5129395 (663126)		0.87	1430	<2	6	29.1	37	0.08	18	7.84	70.2	0.02	0.4	10	20.8
E5129396 (663127)		0.84	739	<2	13	15.3	19	0.05	16	4.37	67.5	<0.01	0.8	10	28.2
E5129397 (663128)		0.49	887	<2	13	19.9	21	0.05	11	5.41	70.2	<0.01	0.5	8	29.1
E5129398 (663129)		0.68	1040	2	12	20.8	27	0.05	18	5.84	79.3	<0.01	0.9	9	30.5
E5129399 (663130)		0.72	911	3	13	19.1	26	0.05	17	5.22	76.0	<0.01	1.0	10	30.0
E5309000 (663131)		0.46	499	<2	12	18.9	16	0.04	11	5.41	60.9	<0.01	0.5	9	33.8
E5309001 (663132)		0.49	575	<2	12	17.3	16	0.04	12	4.87	59.0	<0.01	0.7	7	31.5
E5309002 (663133)		0.51	645	<2	9	18.5	25	0.05	11	4.99	53.9	<0.01	0.6	7	29.6
E5309003 (663134)		0.45	561	2	12	17.6	14	0.05	11	4.68	63.9	<0.01	0.6	7	29.5
E5309004 (663135)		0.54	1320	2	15	18.1	24	0.05	12	5.10	72.6	<0.01	0.8	7	30.2
E5309005 (663136)		0.53	637	<2	10	22.5	13	0.05	12	6.34	60.2	<0.01	0.4	7	28.0
E5309006 (663137)		0.47	491	<2	11	20.8	13	0.05	11	5.85	56.0	<0.01	0.5	7	28.9
E5309007 (663138)		0.41	746	<2	13	23.2	12	0.05	22	6.38	66.9	<0.01	0.6	7	29.9
E5309008 (663139)		0.47	617	<2	13	17.7	14	0.05	11	4.78	70.3	<0.01	0.9	7	31.7
E5309009 (663140)		0.48	569	<2	10	20.6	17	0.07	12	5.56	69.0	<0.01	0.9	7	29.7
E5309010 (663141)		0.60	712	<2	10	19.7	19	0.05	15	5.23	56.8	<0.01	0.6	8	30.7
E5309011 (663142)		0.70	1170	2	11	20.4	21	0.05	14	5.38	56.8	<0.01	0.6	9	28.7
E5309012 (663143)		0.49	401	<2	11	20.9	13	0.06	13	5.70	55.8	<0.01	0.4	8	30.7
E5309013 (663144)		0.55	734	2	11	19.8	17	0.06	15	5.49	64.4	<0.01	0.7	8	30.7
E5309014 (663145)		0.54	494	2	11	19.0	16	0.07	13	5.14	55.2	<0.01	0.6	7	30.0
E5309015 (663146)		0.52	532	2	12	18.8	17	0.06	13	5.11	64.3	<0.01	0.6	8	29.8

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019	DATE RECEIVED: Oct 29, 2019					DATE REPORTED: Dec 11, 2019					SAMPLE TYPE: Soil				
Analyte:	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Sc	Si	
Unit:	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	
RDL:	0.01	10	2	1	0.1	5	0.01	5	0.05	0.2	0.01	0.1	5	0.01	
E5309016 (663147)	0.53	565	2	10	18.4	14	0.05	12	5.04	48.3	<0.01	0.5	7	30.3	
E5309017 (663148)	0.48	617	<2	12	18.9	15	0.05	12	5.06	49.2	<0.01	0.6	7	30.2	
E5309018 (663149)	0.56	1110	<2	12	19.2	16	0.05	14	5.27	68.2	<0.01	0.7	8	29.5	
E5309019 (663150)	0.48	993	<2	9	21.9	17	0.04	12	6.02	47.8	<0.01	0.6	6	30.1	
E5309020 (663151)	0.50	876	<2	10	20.2	16	0.04	14	5.43	56.4	<0.01	0.6	7	30.2	
E5309021 (663152)	0.52	516	<2	10	15.9	14	0.05	13	4.36	66.9	<0.01	0.6	7	29.5	
E5309022 (663153)	0.58	558	<2	11	16.9	17	0.06	13	4.82	59.2	<0.01	0.6	8	28.3	
E5309023 (663154)	0.57	1090	<2	12	19.3	21	0.06	14	5.31	59.4	<0.01	0.5	8	30.3	
E5309024 (663155)	0.56	879	<2	12	20.2	19	0.05	13	5.61	63.3	<0.01	0.8	8	30.3	
E5309025 (663156)	0.68	2850	2	12	18.2	23	0.07	15	5.16	72.5	<0.01	1.1	8	28.1	
E5309026 (663157)	0.71	3480	3	13	22.2	27	0.05	15	6.04	73.5	<0.01	1.5	9	31.6	
E5309027 (663158)	0.73	3670	3	12	20.2	29	0.05	17	5.60	71.1	<0.01	1.5	9	28.5	
E5309028 (663159)	0.69	2900	2	12	18.7	23	0.05	15	5.15	70.0	<0.01	1.4	8	28.7	
E5309029 (663160)	0.68	2430	<2	13	15.7	21	0.06	13	4.24	68.4	<0.01	1.1	8	30.3	
E5309030 (663161)	0.76	3420	2	13	17.7	27	0.06	17	4.96	66.5	<0.01	1.8	8	28.4	
E5309031 (663162)	0.59	2240	2	11	15.5	16	0.06	13	4.25	55.7	<0.01	1.3	7	28.1	
E5309032 (663163)	0.68	2910	2	12	20.0	21	0.06	15	5.40	66.4	<0.01	1.5	8	28.2	
E5309033 (663164)	0.59	2850	<2	10	17.7	16	0.06	12	4.83	58.3	<0.01	1.2	7	28.2	
E5309034 (663165)	0.70	3070	2	12	18.9	26	0.06	16	5.16	70.6	<0.01	1.3	8	27.6	
E5309035 (663166)	0.64	2900	2	12	19.8	18	0.06	14	5.22	72.7	<0.01	1.4	8	29.2	
E5309036 (663167)	0.78	3070	2	11	18.3	25	0.07	24	5.16	62.3	<0.01	1.2	9	28.9	
E5309037 (663168)	0.69	2910	2	11	19.2	24	0.05	17	5.33	64.7	<0.01	1.3	7	28.6	
E5309038 (663169)	0.64	2260	2	11	17.7	17	0.06	13	4.82	63.5	<0.01	1.1	8	29.7	
E5309039 (663170)	0.75	3280	2	11	18.9	26	0.05	17	5.22	69.2	<0.01	1.3	8	29.0	
E5309040 (663171)	0.73	3270	3	12	17.6	26	0.05	16	4.90	70.2	<0.01	1.4	8	28.6	
E5309041 (663172)	0.61	1890	3	11	16.8	15	0.08	14	4.68	56.9	0.02	0.9	7	28.5	
E5309042 (663173)	0.74	5100	2	11	23.4	30	0.06	17	6.61	67.0	<0.01	1.2	8	27.8	
E5309043 (663174)	0.71	3310	2	12	19.3	23	0.05	17	5.11	66.0	<0.01	1.6	9	28.8	
E5309044 (663175)	0.67	2630	2	11	21.0	20	0.06	14	5.72	63.2	<0.01	1.1	8	29.6	
E5309045 (663176)	0.57	1720	2	11	16.2	14	0.06	11	4.58	55.3	<0.01	1.0	7	29.3	
E5309046 (663177)	0.60	1950	<2	11	16.2	14	0.07	13	4.42	52.8	<0.01	1.0	7	27.3	
E5309047 (663178)	0.63	2110	2	11	21.0	19	0.05	14	5.96	66.1	<0.01	1.2	8	28.6	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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<http://www.agatlabs.com>

CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019	DATE RECEIVED: Oct 29, 2019					DATE REPORTED: Dec 11, 2019					SAMPLE TYPE: Soil				
Analyte:	Mg	Mn	Mo	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Sc	Si	
Unit:	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	
RDL:	0.01	10	2	1	0.1	5	0.01	5	0.05	0.2	0.01	0.1	5	0.01	
E5309048 (663179)	0.58	2400	<2	10	15.5	16	0.05	13	4.31	56.6	<0.01	0.9	7	28.3	
E5309049 (663180)	0.70	2700	2	11	16.3	21	0.06	14	4.51	63.6	<0.01	1.2	8	28.4	
E5309050 (663181)	0.64	1780	<2	9	20.0	18	0.06	16	5.44	58.1	<0.01	1.0	8	27.6	
E5309051 (663182)	0.69	2190	2	11	26.6	20	0.08	15	7.69	55.8	0.03	0.7	10	26.0	
E5309052 (663183)	0.66	2960	2	10	23.1	32	0.06	17	6.47	68.2	<0.01	1.7	10	27.4	
E5309053 (663184)	0.43	2300	2	10	20.4	19	0.06	13	5.62	55.0	<0.01	1.5	9	24.6	
E5309054 (663185)	0.15	972	<2	9	11.0	<5	0.12	9	2.96	24.0	<0.01	0.7	6	10.1	
E5309055 (663186)	0.48	1930	3	13	25.4	21	0.06	14	7.20	66.4	<0.01	1.9	10	24.9	
E5309056 (663187)	0.73	3290	3	12	25.3	40	0.06	19	6.72	82.2	<0.01	1.5	11	28.3	
E5309057 (663188)	0.78	4700	3	10	27.4	45	0.06	20	7.37	80.8	<0.01	1.4	11	28.2	
E5309058 (663189)	0.68	2020	<2	12	19.9	18	0.07	13	5.59	73.8	0.01	0.5	9	26.8	
E5309059 (663190)	0.62	2120	<2	9	16.3	15	0.05	14	4.46	53.9	<0.01	0.9	8	28.3	
E5420130 (663191)	0.58	720	<2	14	19.2	18	0.05	12	5.60	78.2	<0.01	0.4	8	32.8	
E5420131 (663192)	0.50	692	<2	13	23.1	16	0.05	11	6.58	73.7	<0.01	0.4	8	32.7	
E5420132 (663193)	0.55	827	<2	13	20.1	18	0.05	14	5.80	79.8	<0.01	0.4	8	33.4	
E5420133 (663194)	0.58	2310	<2	11	16.6	17	0.05	12	4.70	64.7	<0.01	0.5	8	27.5	
E5420134 (663195)	0.40	875	<2	12	17.1	<5	0.05	11	4.90	68.6	<0.01	0.4	8	22.9	
E5420135 (663196)	0.55	1170	<2	11	20.9	9	0.07	11	5.90	83.9	<0.01	0.2	9	24.2	
E5420136 (663197)	0.50	1210	<2	10	19.1	12	0.08	12	5.46	63.1	<0.01	0.2	7	25.4	
E5420137 (663198)	0.49	1530	<2	9	19.6	11	0.06	12	5.72	45.7	<0.01	0.3	8	25.0	
E5420138 (663199)	0.53	917	<2	13	19.1	18	0.05	11	5.46	66.3	<0.01	0.4	8	29.8	
E5420139 (663200)	0.50	1360	<2	12	21.5	20	0.04	10	6.17	72.3	<0.01	0.3	8	30.0	
E5420140 (663201)	0.61	1090	<2	11	20.1	20	0.04	12	5.69	74.9	<0.01	0.3	9	30.4	
E5420141 (663202)	0.86	1070	3	12	21.0	31	0.05	18	6.01	82.7	<0.01	0.9	11	30.1	
E5420142 (663203)	0.66	1720	2	13	23.1	29	0.06	16	6.69	76.1	<0.01	1.2	9	30.9	
E5420143 (663204)	0.68	678	3	14	22.8	20	0.04	15	6.77	77.0	<0.01	1.1	10	31.7	
E5420144 (663205)	0.68	1090	2	12	20.3	32	0.04	16	5.74	80.3	<0.01	0.8	9	29.8	
E5420145 (663206)	0.69	750	2	11	20.2	24	0.04	12	5.70	76.8	<0.01	0.7	9	30.7	
E5420146 (663207)	0.59	588	2	13	18.1	20	0.04	12	5.14	80.0	<0.01	0.7	10	32.7	
E5420147 (663208)	0.79	852	3	14	18.3	25	0.05	17	5.11	76.6	<0.01	1.1	10	30.2	
E5420148 (663209)	0.56	958	2	13	20.3	15	0.05	13	5.96	80.1	<0.01	0.7	9	30.1	
E5420149 (663210)	0.78	623	3	12	16.1	19	0.05	15	4.48	85.5	<0.01	1.0	10	30.0	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Mg %	Mn ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm	P %	Pb ppm	Pr ppm	Rb ppm	S %	Sb ppm	Sc ppm	Si %
E5420150 (663211)		0.72	1480	3	10	20.7	18	0.08	18	5.85	70.0	<0.01	0.8	11	23.9
E5420151 (663212)		0.70	664	3	13	20.9	19	0.07	16	5.92	82.3	<0.01	0.9	10	30.4
E5420152 (663213)		0.61	673	3	13	16.5	16	0.06	15	4.55	73.1	<0.01	0.8	9	29.0
E5420153 (663214)		0.58	806	<2	11	23.9	21	0.04	12	6.83	74.8	<0.01	0.5	9	30.8
E5420154 (663215)		0.58	1230	3	13	15.8	12	0.06	14	4.41	95.1	<0.01	1.0	11	28.5
E5420155 (663216)		0.72	657	4	11	17.1	22	0.05	15	4.83	118	<0.01	0.8	12	29.6
E5420156 (663217)		0.70	695	3	11	20.8	21	0.05	13	5.98	82.9	<0.01	0.6	9	30.1
E5420157 (663218)		0.72	617	4	15	17.6	17	0.05	16	4.96	95.4	<0.01	1.1	11	31.5
E5420158 (663219)		0.60	615	3	13	20.6	16	0.05	16	5.96	74.4	<0.01	0.9	9	30.2
E5420159 (663220)		0.70	1020	4	14	15.7	18	0.06	16	4.31	88.8	<0.01	1.3	10	28.9
E5420110 (663221)		0.53	848	<2	12	22.6	20	0.05	12	6.74	75.5	<0.01	0.4	8	31.6
E5420111 (663222)		0.42	656	<2	11	20.1	13	0.05	12	5.68	64.7	<0.01	0.5	7	32.4
E5420112 (663223)		0.48	573	<2	11	18.3	19	0.05	11	5.30	75.2	<0.01	0.4	8	32.2
E5420113 (663224)		0.47	402	<2	11	18.3	16	0.04	12	5.41	64.8	<0.01	0.9	7	32.4
E5420114 (663225)		0.57	665	<2	11	20.9	18	0.05	13	6.06	70.1	<0.01	0.6	8	30.9
E5420115 (663226)		0.50	651	<2	11	19.2	18	0.05	12	5.70	63.1	<0.01	0.7	7	29.5
E5420116 (663227)		0.56	523	<2	13	22.4	26	0.05	12	6.44	79.4	<0.01	0.6	9	31.9
E5420117 (663228)		0.49	739	<2	12	20.2	14	0.05	12	5.90	73.4	<0.01	0.5	8	30.6
E5420118 (663229)		0.74	1830	<2	12	33.0	36	0.05	17	9.41	94.1	<0.01	0.9	11	30.3
E5420119 (663230)		0.46	449	<2	12	18.1	13	0.05	12	5.29	75.5	<0.01	0.5	8	30.1
E5420120 (663231)		0.65	1140	<2	12	22.7	32	0.05	14	6.62	83.0	<0.01	0.8	9	29.9
E5420121 (663232)		0.66	1000	<2	13	29.0	27	0.05	13	8.38	88.0	<0.01	0.6	10	31.8
E5420122 (663233)		0.82	578	<2	14	28.6	28	0.06	14	8.11	103	<0.01	0.7	11	34.8
E5420123 (663234)		0.82	388	3	14	23.5	25	0.14	20	6.59	112	<0.01	0.8	11	29.3
E5420124 (663235)		0.81	234	2	14	22.1	23	0.14	13	6.36	115	<0.01	0.6	11	30.5
E5420125 (663236)		0.71	2290	2	12	25.2	35	0.07	16	7.05	91.1	<0.01	1.0	10	30.4
E5420126 (663237)		0.61	580	<2	12	23.8	29	0.05	11	6.83	75.5	<0.01	0.5	8	30.6
E5420127 (663238)		0.51	792	<2	12	23.2	16	0.04	12	6.84	71.1	<0.01	0.4	8	30.8
E5420128 (666124)		0.46	379	<2	12	21.6	11	0.04	10	6.22	79.0	<0.01	0.4	8	33.7
E5420129 (666126)		0.55	780	<2	12	22.2	18	0.05	12	6.34	74.5	<0.01	0.4	8	31.7
E5129138 (680459)		0.34	287	<2	13	29.6	7	0.04	13	8.07	57.7	<0.01	0.4	7	28.9

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tl	Tm	U	V	W	Y	Yb
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.1	1	0.1	0.5	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	0.1
E5417863 (662859)	3.0	3	129	<0.5	0.39	10.0	0.37	1.0	0.25	3.49	119	1	15.5	1.6
E5417864 (662860)	2.8	1	76.9	<0.5	0.33	6.0	0.22	1.0	0.19	2.33	70	1	11.0	1.2
E5417865 (662861)	3.2	2	124	<0.5	0.43	9.5	0.38	1.1	0.23	3.55	107	2	15.5	1.6
E5417866 (662862)	3.8	2	92.0	<0.5	0.46	13.6	0.31	0.9	0.22	4.26	95	1	13.8	1.4
E5417867 (662863)	2.9	1	104	<0.5	0.43	8.8	0.35	0.8	0.23	3.45	103	1	12.4	1.5
E5417886 (662864)	3.4	1	108	0.6	0.46	10.2	0.30	0.7	0.22	3.79	91	1	15.7	1.6
E5417887 (662865)	3.2	2	99.3	<0.5	0.45	10.5	0.38	1.2	0.27	4.47	108	2	15.8	1.7
E5417888 (662866)	3.4	2	103	<0.5	0.48	11.3	0.32	1.1	0.24	4.15	95	1	14.7	1.6
E5417889 (662867)	3.0	1	101	<0.5	0.45	9.8	0.31	1.1	0.27	4.04	98	1	14.2	1.6
E5417890 (662868)	3.4	2	106	<0.5	0.48	10.6	0.35	1.0	0.27	4.41	104	1	18.0	1.7
E5417891 (662869)	2.8	1	76.5	<0.5	0.39	8.7	0.29	0.8	0.21	3.39	93	1	13.8	1.4
E5417892 (662870)	5.1	1	109	<0.5	0.58	14.0	0.30	0.9	0.26	4.45	90	1	16.9	1.6
E5129400 (662871)	3.1	1	98.3	<0.5	0.40	10.5	0.31	0.6	0.21	2.80	77	1	14.2	1.4
E5129401 (662872)	4.2	2	94.4	<0.5	0.49	10.8	0.35	0.6	0.25	3.06	110	1	14.3	1.4
E5129402 (662873)	3.7	2	102	<0.5	0.46	11.1	0.35	0.7	0.24	3.28	84	1	13.9	1.4
E5129403 (662874)	3.4	1	108	<0.5	0.43	9.5	0.32	<0.5	0.22	2.87	84	1	13.4	1.4
E5129404 (662875)	3.2	1	98.5	<0.5	0.40	9.3	0.29	<0.5	0.24	2.93	102	1	13.0	1.4
E5129405 (662876)	3.6	1	129	<0.5	0.45	8.7	0.28	<0.5	0.20	2.79	78	1	15.1	1.3
E5129406 (662877)	3.0	1	98.7	<0.5	0.41	10.0	0.30	1.8	0.22	2.98	95	1	15.2	1.4
E5129407 (662878)	3.4	<1	68.7	<0.5	0.38	8.6	0.25	1.5	0.19	2.17	83	1	13.5	1.1
E5129408 (662879)	3.1	<1	75.3	<0.5	0.42	7.0	0.21	1.3	0.19	2.16	77	1	14.1	1.2
E5129409 (662880)	3.4	<1	88.3	<0.5	0.43	6.9	0.23	1.2	0.20	2.22	78	1	13.8	1.2
E5420237 (662881)	4.2	<1	84.7	<0.5	0.41	10.4	0.28	1.2	0.21	2.66	73	1	12.6	1.2
E5420238 (662882)	2.8	<1	73.8	<0.5	0.33	7.8	0.27	1.0	0.16	2.34	69	1	9.7	1.0
E5420239 (662883)	3.3	<1	96.5	<0.5	0.41	8.8	0.28	0.9	0.19	2.53	74	1	12.6	1.1
E5420240 (662884)	3.5	2	91.0	<0.5	0.43	8.9	0.29	0.8	0.20	2.59	73	1	13.1	1.2
E5420241 (662885)	3.6	<1	95.7	<0.5	0.38	7.7	0.28	0.8	0.20	2.34	72	1	11.9	1.2
E5420242 (662886)	2.9	1	65.7	<0.5	0.36	7.9	0.27	1.2	0.18	2.27	66	1	11.4	1.1
E5420243 (662887)	2.5	1	57.2	<0.5	0.31	7.2	0.27	1.4	0.18	2.32	72	1	9.1	1.0
E5420244 (662888)	3.0	1	79.3	<0.5	0.36	8.7	0.28	1.4	0.19	2.55	77	1	11.3	1.3
E5420245 (662889)	3.3	1	111	<0.5	0.46	10.4	0.29	1.5	0.24	3.23	93	1	16.0	1.6
E5420246 (662890)	3.1	1	104	<0.5	0.43	9.2	0.31	1.7	0.25	3.60	104	1	15.9	1.5

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tl	Tm	U	V	W	Y	Yb
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.1	1	0.1	0.5	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	0.1
Sample ID (AGAT ID)														
E5420247 (662891)	3.3	<1	119	<0.5	0.46	10.9	0.30	1.4	0.26	3.16	98	1	15.9	1.6
E5420248 (662892)	3.4	1	119	<0.5	0.42	10.2	0.33	1.4	0.26	3.26	110	1	14.8	1.5
E5420249 (662893)	2.8	<1	111	<0.5	0.37	8.7	0.30	1.2	0.21	3.02	100	1	10.9	1.3
E5420250 (662894)	3.0	1	84.7	<0.5	0.40	8.3	0.24	1.2	0.21	2.90	75	1	12.8	1.4
E5420251 (662895)	4.6	1	121	<0.5	0.52	17.1	0.31	1.2	0.25	3.50	100	1	15.1	1.7
E5420252 (662896)	3.9	1	119	<0.5	0.48	13.7	0.33	1.5	0.26	2.88	101	2	14.8	1.6
E5420253 (662897)	3.0	4	126	<0.5	0.44	9.0	0.27	1.5	0.27	3.17	85	1	16.7	1.6
E5420254 (662898)	3.2	2	119	<0.5	0.46	9.9	0.33	1.4	0.24	3.36	109	1	14.2	1.5
E5420255 (662899)	2.9	1	112	<0.5	0.42	8.4	0.29	1.2	0.25	3.23	91	1	14.0	1.5
E5420256 (662900)	4.0	1	111	<0.5	0.47	11.1	0.29	1.1	0.25	3.46	90	1	16.2	1.5
E5420257 (662901)	2.8	1	109	<0.5	0.33	9.4	0.35	1.1	0.21	3.05	112	1	12.3	1.3
E5420258 (662902)	2.7	1	122	<0.5	0.42	8.5	0.30	0.9	0.25	3.44	97	1	15.4	1.6
E5420259 (662903)	2.7	1	111	<0.5	0.40	9.8	0.34	0.9	0.22	3.24	107	1	12.8	1.6
E5308866 (662904)	2.6	1	110	<0.5	0.37	9.3	0.34	0.8	0.21	3.48	104	1	13.4	1.4
E5308867 (662905)	3.4	1	123	<0.5	0.53	11.5	0.33	0.9	0.26	4.38	101	1	14.9	1.6
E5308868 (662906)	2.7	1	118	<0.5	0.43	8.5	0.31	0.7	0.24	3.43	94	1	14.2	1.5
E5308869 (662907)	3.4	1	122	<0.5	0.45	12.2	0.30	0.7	0.23	3.80	93	1	14.4	1.6
E5308870 (662908)	3.9	1	122	<0.5	0.51	12.3	0.31	0.7	0.27	4.07	92	1	18.4	1.6
E5308871 (662909)	2.9	1	137	<0.5	0.44	8.5	0.31	0.7	0.24	3.78	94	1	16.1	1.6
E5308872 (662910)	4.2	1	135	<0.5	0.57	13.4	0.33	0.8	0.31	5.04	105	1	16.4	1.9
E5308873 (662911)	3.1	2	123	<0.5	0.43	9.3	0.32	<0.5	0.23	3.88	100	1	15.3	1.6
E5308874 (662912)	3.7	2	153	<0.5	0.51	10.8	0.32	0.6	0.27	4.55	98	1	17.6	1.8
E5308875 (662913)	3.1	2	130	<0.5	0.44	9.9	0.32	0.7	0.24	3.76	99	1	15.7	1.7
E5308876 (662914)	3.7	2	136	<0.5	0.52	10.8	0.33	<0.5	0.25	4.38	98	1	15.2	1.9
E5308877 (662915)	3.9	1	135	<0.5	0.50	13.7	0.33	0.6	0.24	3.96	97	1	15.2	1.6
E5308878 (662916)	3.9	2	120	<0.5	0.50	11.6	0.33	0.8	0.23	4.26	104	1	15.7	1.7
E5308879 (662917)	3.2	2	70.0	0.6	0.49	9.6	0.52	<0.5	0.34	4.17	128	2	22.3	2.0
E5308880 (662918)	3.2	1	117	<0.5	0.44	9.8	0.34	0.6	0.25	4.15	105	1	14.5	1.7
E5308881 (662919)	3.1	1	109	<0.5	0.44	8.8	0.37	<0.5	0.25	3.66	109	1	15.2	1.7
E5308882 (662920)	3.6	1	111	<0.5	0.47	9.0	0.35	<0.5	0.25	3.58	96	1	16.9	1.8
E5308883 (662921)	2.6	1	107	<0.5	0.38	8.9	0.33	<0.5	0.23	3.25	94	1	12.7	1.5
E5308884 (662922)	2.5	2	77.9	<0.5	0.36	9.3	0.29	<0.5	0.19	3.15	92	<1	13.1	1.3

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tl	Tm	U	V	W	Y	Yb
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.1	1	0.1	0.5	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	0.1
Sample ID (AGAT ID)														
E5163036 (662923)	3.3	1	128	<0.5	0.40	9.3	0.34	<0.5	0.21	3.04	96	<1	11.6	1.5
E5163037 (662924)	3.6	2	114	<0.5	0.49	8.3	0.35	<0.5	0.27	3.11	102	1	16.2	1.7
E5163038 (662925)	3.6	1	129	<0.5	0.46	9.4	0.30	<0.5	0.23	2.95	81	<1	13.5	1.5
E5163039 (662926)	3.6	1	116	<0.5	0.43	9.3	0.32	<0.5	0.20	3.14	86	<1	14.6	1.5
E5163040 (662927)	3.3	1	130	<0.5	0.47	9.5	0.32	<0.5	0.24	3.03	88	<1	16.0	1.6
E5163041 (662928)	3.9	1	83.2	<0.5	0.48	9.4	0.32	<0.5	0.22	2.55	76	<1	15.3	1.4
E5163042 (662929)	4.1	<1	132	<0.5	0.49	9.5	0.31	<0.5	0.24	2.85	86	<1	13.7	1.5
E5163043 (662930)	3.7	1	134	<0.5	0.47	9.4	0.34	<0.5	0.23	3.41	90	3	15.5	1.6
E5163044 (662931)	3.7	<1	78.5	<0.5	0.44	8.3	0.28	<0.5	0.21	2.25	65	<1	14.1	1.4
E5163045 (662932)	3.5	1	101	<0.5	0.44	10.2	0.34	1.4	0.21	2.58	79	<1	13.4	1.3
E5163046 (662933)	3.4	2	106	<0.5	0.43	10.7	0.35	1.5	0.24	3.42	98	<1	13.1	1.5
E5163047 (662934)	3.7	2	97.0	<0.5	0.47	10.6	0.32	1.5	0.25	3.24	115	1	16.4	1.7
E5163048 (662935)	3.4	2	98.9	<0.5	0.41	12.2	0.36	1.4	0.23	3.21	104	<1	14.2	1.4
E5163049 (662936)	3.7	1	135	<0.5	0.50	10.3	0.32	1.5	0.25	3.73	90	<1	16.6	1.6
E5163050 (662937)	3.2	1	139	<0.5	0.43	9.7	0.33	1.4	0.23	3.22	92	<1	12.7	1.5
E5163051 (662938)	3.9	1	138	<0.5	0.48	9.6	0.31	1.2	0.22	3.06	83	<1	13.9	1.6
E5163052 (662939)	3.8	1	128	<0.5	0.47	10.5	0.32	1.3	0.22	3.24	90	<1	16.3	1.7
E5163053 (662940)	3.4	1	126	<0.5	0.45	11.1	0.33	1.2	0.23	3.29	93	<1	13.9	1.6
E5163054 (662941)	3.4	1	121	<0.5	0.40	10.0	0.32	1.1	0.21	2.96	85	<1	14.3	1.5
E5163055 (662942)	2.5	<1	88.8	<0.5	0.32	7.7	0.26	0.9	0.18	2.03	94	<1	9.4	1.2
E5163056 (662943)	3.2	2	75.6	<0.5	0.42	9.7	0.37	1.1	0.23	3.21	101	<1	13.6	1.6
E5163057 (662944)	2.9	1	109	<0.5	0.43	7.9	0.28	1.0	0.24	3.86	132	<1	15.3	1.8
E5163058 (662945)	3.0	2	132	<0.5	0.40	9.0	0.31	1.0	0.23	3.89	117	<1	16.8	1.5
E5163059 (662946)	2.2	1	148	<0.5	0.35	7.3	0.27	0.9	0.22	3.81	103	<1	13.4	1.5
E5420210 (662947)	3.1	<1	88.6	<0.5	0.39	6.8	0.25	0.6	0.19	2.18	70	<1	12.4	1.3
E5420211 (662948)	3.8	1	84.9	<0.5	0.46	9.0	0.27	0.7	0.21	2.74	89	<1	14.6	1.4
E5420212 (662949)	4.6	2	129	<0.5	0.54	11.1	0.29	0.8	0.23	2.66	77	<1	15.9	1.5
E5420213 (662950)	4.2	1	120	0.8	0.53	9.6	0.27	1.3	0.23	2.68	88	1	14.2	1.5
E5420214 (662951)	3.3	1	104	<0.5	0.43	9.5	0.32	1.6	0.21	2.97	92	1	15.6	1.4
E5420215 (662952)	3.8	2	90.0	<0.5	0.48	10.0	0.33	1.7	0.25	3.50	108	1	15.2	1.7
E5420216 (662953)	3.3	2	111	<0.5	0.43	9.7	0.32	1.7	0.24	3.29	99	1	13.4	1.6
E5420217 (662954)	3.4	1	116	<0.5	0.43	9.4	0.30	1.3	0.21	2.59	88	1	15.3	1.4

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tl	Tm	U	V	W	Y	Yb
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.1	1	0.1	0.5	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	0.1
E5420218 (662955)	3.4	1	121	<0.5	0.46	9.8	0.31	1.5	0.23	3.24	92	1	13.3	1.5
E5420219 (662956)	3.2	1	110	<0.5	0.43	9.0	0.31	1.2	0.21	2.97	90	1	14.7	1.4
E5420220 (662957)	4.6	1	134	<0.5	0.55	10.9	0.30	1.2	0.22	3.55	84	1	15.0	1.6
E5420221 (662958)	3.8	1	133	<0.5	0.53	10.5	0.31	1.2	0.23	3.56	88	1	15.7	1.6
E5420222 (662959)	3.5	1	119	<0.5	0.48	11.7	0.34	1.1	0.23	3.47	116	1	16.4	1.7
E5420223 (662960)	3.3	1	122	<0.5	0.44	11.0	0.34	1.0	0.24	3.46	102	1	13.6	1.7
E5420224 (662961)	2.9	2	114	<0.5	0.42	8.9	0.35	1.0	0.24	3.48	107	2	15.4	1.7
E5420225 (662962)	3.4	1	112	<0.5	0.46	10.7	0.34	0.9	0.24	3.30	101	1	16.0	1.7
E5420226 (662963)	4.0	1	135	<0.5	0.48	11.9	0.34	0.9	0.24	3.64	99	1	16.5	1.6
E5420227 (662964)	3.0	1	125	<0.5	0.47	9.5	0.34	0.9	0.25	3.62	93	1	16.4	1.7
E5420228 (662965)	3.3	1	138	<0.5	0.45	9.8	0.36	0.9	0.24	3.57	98	1	17.7	1.7
E5420229 (662966)	3.8	1	132	<0.5	0.48	10.0	0.30	0.8	0.25	3.37	84	1	16.7	1.6
E5420230 (662967)	3.7	1	133	<0.5	0.49	11.2	0.32	0.8	0.25	3.69	91	1	18.6	1.7
E5420231 (662968)	3.1	<1	106	<0.5	0.37	7.9	0.23	1.4	0.18	2.16	73	<1	10.4	1.2
E5420232 (662969)	3.1	<1	97.7	<0.5	0.38	8.6	0.27	1.3	0.20	2.35	77	<1	12.8	1.3
E5420233 (662970)	3.8	<1	85.0	<0.5	0.39	10.5	0.27	1.3	0.19	2.45	74	1	12.9	1.3
E5420234 (662971)	3.5	<1	94.5	<0.5	0.39	9.5	0.26	1.1	0.18	2.48	75	1	11.8	1.2
E5420235 (662972)	3.3	1	83.1	<0.5	0.37	9.0	0.28	1.1	0.18	2.37	76	1	11.0	1.2
E5420236 (662973)	3.2	1	85.3	<0.5	0.41	8.1	0.31	1.2	0.22	2.64	82	1	12.3	1.4
E5163010 (662974)	5.2	1	95.1	<0.5	0.66	10.1	0.28	1.4	0.29	5.07	201	2	20.2	1.7
E5163011 (662975)	2.7	<1	116	<0.5	0.35	8.0	0.28	1.3	0.18	2.46	95	1	11.3	1.2
E5163012 (662976)	3.2	1	95.9	<0.5	0.40	9.1	0.30	1.4	0.22	3.02	104	1	12.3	1.4
E5163013 (662977)	3.4	1	121	<0.5	0.42	9.5	0.32	1.3	0.21	2.70	102	1	14.6	1.5
E5163014 (662978)	2.8	1	94.9	<0.5	0.38	8.5	0.29	1.3	0.18	2.98	97	1	12.0	1.3
E5163015 (662979)	3.6	2	98.0	<0.5	0.44	9.7	0.29	1.1	0.21	3.46	108	1	13.0	1.6
E5163016 (662980)	2.8	1	111	<0.5	0.33	8.1	0.26	1.0	0.17	2.45	89	1	10.8	1.2
E5163017 (662981)	3.1	2	76.3	<0.5	0.39	9.7	0.31	0.9	0.20	3.39	110	2	13.7	1.3
E5163018 (662982)	3.3	2	85.3	<0.5	0.43	11.5	0.29	0.9	0.20	3.29	102	1	13.4	1.4
E5163019 (662983)	3.8	3	95.6	<0.5	0.48	9.3	0.29	0.9	0.23	3.31	105	2	15.1	1.5
E5163020 (662984)	3.4	1	91.1	<0.5	0.42	10.2	0.28	0.9	0.22	3.35	98	2	14.9	1.4
E5163021 (662985)	4.1	1	92.0	<0.5	0.54	9.8	0.30	0.8	0.24	3.70	106	1	17.1	1.7
E5163022 (662986)	3.3	1	93.5	<0.5	0.41	10.5	0.29	0.8	0.21	3.10	96	1	14.6	1.5

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tl	Tm	U	V	W	Y	Yb
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.1	1	0.1	0.5	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	0.1
Sample ID (AGAT ID)														
E5163023 (662987)	3.4	1	96.0	<0.5	0.42	9.2	0.29	1.5	0.21	3.28	109	<1	12.6	1.4
E5163024 (662988)	3.1	2	91.8	<0.5	0.40	9.0	0.27	1.4	0.19	2.86	88	<1	13.5	1.3
E5163025 (662989)	3.3	2	90.9	<0.5	0.37	9.3	0.30	1.4	0.18	2.91	102	<1	12.0	1.3
E5163026 (662990)	3.4	2	102	<0.5	0.41	10.0	0.28	1.2	0.19	2.99	95	<1	12.2	1.3
E5163027 (662991)	2.9	1	91.2	<0.5	0.32	7.2	0.34	1.0	0.18	2.46	112	<1	11.1	1.2
E5163028 (662992)	3.8	1	82.7	<0.5	0.47	8.5	0.29	0.9	0.21	3.31	92	<1	14.6	1.3
E5163029 (662993)	4.4	1	84.1	<0.5	0.50	13.6	0.28	1.0	0.23	2.69	92	1	14.6	1.6
E5163030 (662994)	4.0	1	100	<0.5	0.48	11.0	0.32	1.3	0.23	2.95	92	<1	14.4	1.6
E5163031 (662995)	3.7	2	128	<0.5	0.46	10.2	0.31	1.4	0.23	3.18	84	<1	13.5	1.5
E5163032 (662996)	4.6	1	124	<0.5	0.53	10.3	0.31	1.3	0.26	3.30	81	<1	17.2	1.7
E5163033 (662997)	3.8	2	116	<0.5	0.54	10.8	0.39	1.6	0.27	3.86	103	<1	14.9	1.8
E5163034 (662998)	3.1	1	144	<0.5	0.41	8.7	0.27	1.1	0.24	2.82	81	<1	13.4	1.6
E5163035 (662999)	4.7	1	102	<0.5	0.55	12.8	0.30	1.2	0.27	2.90	85	<1	17.1	1.7
E5308974 (663000)	3.3	1	98.1	<0.5	0.47	10.2	0.34	1.1	0.26	4.43	174	<1	17.0	1.9
E5308975 (663001)	2.9	2	115	<0.5	0.44	11.5	0.35	1.3	0.27	4.62	144	<1	16.3	1.8
E5308976 (663002)	3.2	2	123	<0.5	0.44	9.4	0.33	1.1	0.27	4.50	121	<1	14.7	1.8
E5308977 (663003)	3.4	1	119	<0.5	0.48	11.0	0.34	1.2	0.27	4.63	131	3	15.5	1.8
E5308978 (663004)	3.2	<1	75.9	<0.5	0.39	7.9	0.31	1.3	0.20	2.40	91	<1	11.5	1.2
E5308979 (663005)	3.9	1	82.9	<0.5	0.42	9.1	0.32	1.4	0.20	2.44	87	<1	13.4	1.2
E5308980 (663006)	3.1	2	77.7	<0.5	0.40	8.9	0.29	1.3	0.18	2.46	83	<1	12.3	1.3
E5308981 (663007)	3.8	1	85.5	<0.5	0.41	8.6	0.36	1.1	0.21	2.59	105	<1	13.3	1.3
E5308982 (663008)	3.8	1	71.5	<0.5	0.41	8.9	0.31	0.9	0.19	2.50	92	<1	12.0	1.2
E5308983 (663009)	3.7	1	94.2	<0.5	0.38	9.3	0.36	1.0	0.16	2.58	95	<1	11.6	1.1
E5308984 (663010)	3.6	1	74.8	<0.5	0.41	8.4	0.34	0.8	0.20	2.57	87	<1	14.1	1.4
E5308985 (663011)	3.5	1	82.9	<0.5	0.40	8.8	0.31	0.8	0.19	2.58	85	<1	14.2	1.3
E5308986 (663012)	3.3	<1	78.7	<0.5	0.40	9.7	0.28	0.7	0.18	2.76	77	<1	12.4	1.3
E5308987 (663013)	3.3	1	75.5	<0.5	0.39	8.8	0.31	0.7	0.19	2.74	91	<1	12.2	1.4
E5308988 (663014)	3.5	2	96.2	0.9	0.46	9.1	0.35	0.8	0.23	2.90	98	1	13.8	1.4
E5308989 (663015)	3.5	2	84.4	0.8	0.42	8.9	0.31	0.5	0.21	2.59	82	1	12.6	1.3
E5308990 (663016)	3.6	2	83.8	0.6	0.41	9.0	0.28	<0.5	0.19	2.51	76	1	12.5	1.3
E5308991 (663017)	3.6	2	80.7	0.7	0.44	8.8	0.33	<0.5	0.19	2.72	82	1	12.9	1.3
E5308992 (663018)	3.2	2	81.8	<0.5	0.37	8.2	0.28	<0.5	0.18	2.45	78	1	11.7	1.2

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tl	Tm	U	V	W	Y	Yb
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.1	1	0.1	0.5	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	0.1
E5308993 (663019)	3.5	2	80.6	0.5	0.40	8.5	0.29	<0.5	0.20	2.48	75	1	12.3	1.4
E5308994 (663020)	3.7	2	85.2	0.6	0.47	9.0	0.31	<0.5	0.22	2.57	81	1	12.6	1.3
E5308995 (663021)	3.9	2	81.1	0.6	0.47	10.2	0.32	<0.5	0.20	2.72	82	1	13.5	1.3
E5308996 (663022)	3.5	2	85.7	0.7	0.47	9.0	0.32	0.6	0.21	2.78	85	1	13.7	1.4
E5308997 (663023)	3.1	2	83.1	0.6	0.42	8.8	0.31	0.5	0.19	2.70	84	1	13.0	1.4
E5308998 (663024)	3.7	2	79.3	0.5	0.44	10.2	0.32	<0.5	0.19	2.49	77	1	11.9	1.3
E5308999 (663025)	3.1	3	85.0	<0.5	0.40	8.1	0.29	<0.5	0.20	2.42	73	1	12.2	1.3
E5129139 (663026)	3.3	2	83.3	<0.5	0.38	7.7	0.30	<0.5	0.20	2.47	81	1	12.2	1.3
E5129140 (663027)	3.5	2	93.0	<0.5	0.42	8.4	0.33	<0.5	0.20	2.22	83	1	12.7	1.3
E5129141 (663028)	3.7	2	91.3	0.6	0.47	8.9	0.30	<0.5	0.21	2.66	86	1	13.8	1.6
E5129142 (663029)	3.4	2	93.3	0.6	0.42	8.5	0.32	<0.5	0.20	2.54	89	1	12.7	1.4
E5129143 (663030)	3.1	2	91.8	0.6	0.41	7.5	0.32	<0.5	0.21	2.58	88	1	12.9	1.5
E5129144 (663031)	3.4	2	96.4	0.5	0.47	8.9	0.30	<0.5	0.23	3.26	92	1	14.6	1.7
E5129145 (663032)	3.6	2	96.2	0.5	0.45	8.4	0.31	<0.5	0.22	2.91	89	1	13.9	1.5
E5129146 (663033)	3.9	2	109	0.6	0.51	10.9	0.33	<0.5	0.26	4.07	97	2	15.9	1.8
E5129147 (663034)	3.4	2	91.7	1.0	0.47	9.4	0.32	0.8	0.27	3.80	98	2	14.4	1.6
E5129148 (663035)	3.5	2	108	0.8	0.47	9.6	0.33	0.6	0.26	3.87	96	1	15.7	1.7
E5129149 (663036)	3.3	2	101	0.7	0.50	10.2	0.33	0.7	0.28	4.18	101	2	15.6	1.8
E5129150 (663037)	3.5	2	115	0.7	0.50	9.9	0.31	0.6	0.26	4.03	90	1	15.4	1.8
E5129151 (663038)	3.5	2	117	0.6	0.49	9.4	0.32	<0.5	0.24	3.63	88	1	14.7	1.7
E5129152 (663039)	3.1	2	114	0.5	0.51	9.6	0.31	<0.5	0.26	4.04	91	1	17.4	1.9
E5129153 (663040)	3.1	2	106	0.7	0.48	10.0	0.33	0.7	0.26	4.07	99	1	15.5	1.7
E5129154 (663041)	3.0	2	98.7	0.7	0.47	10.0	0.32	0.6	0.26	4.34	92	1	14.9	1.7
E5129155 (663042)	3.3	2	103	0.7	0.49	11.0	0.35	0.7	0.27	4.71	101	2	15.6	1.9
E5129156 (663043)	3.5	2	109	0.6	0.55	11.0	0.33	0.6	0.27	4.47	99	2	16.6	1.9
E5129157 (663044)	3.5	2	104	0.6	0.53	11.1	0.34	0.6	0.28	4.73	95	1	16.3	1.9
E5129158 (663045)	3.7	2	93.0	0.6	0.48	9.3	0.28	<0.5	0.24	3.33	85	1	15.2	1.6
E5129159 (663046)	3.4	2	111	0.7	0.49	9.8	0.36	<0.5	0.27	4.39	110	2	16.2	2.0
E5308953 (663047)	3.8	1	105	<0.5	0.48	9.4	0.27	<0.5	0.24	2.94	77	1	13.9	1.5
E5308954 (663048)	3.5	2	107	<0.5	0.45	9.4	0.31	<0.5	0.20	2.57	87	1	12.7	1.3
E5308955 (663049)	3.7	1	91.1	<0.5	0.41	9.0	0.28	<0.5	0.21	2.51	74	1	12.8	1.3
E5308956 (663050)	3.8	2	92.6	0.5	0.43	9.4	0.30	<0.5	0.21	2.66	80	2	13.4	1.5

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tl	Tm	U	V	W	Y	Yb
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.1	1	0.1	0.5	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	0.1
E5308957 (663051)	3.3	4	88.2	<0.5	0.45	8.6	0.30	<0.5	0.22	2.57	76	1	12.9	1.4
E5308958 (663052)	3.3	2	93.7	<0.5	0.43	8.0	0.32	<0.5	0.21	2.57	77	1	13.3	1.5
E5308959 (663053)	3.8	2	90.4	0.5	0.44	9.2	0.32	<0.5	0.19	2.89	85	1	13.4	1.5
E5308960 (663054)	2.7	2	110	0.6	0.44	7.7	0.36	<0.5	0.26	4.41	155	1	15.6	1.8
E5308961 (663055)	3.1	2	116	1.0	0.46	9.2	0.33	0.9	0.29	4.62	140	2	16.3	1.9
E5308962 (663056)	3.5	2	136	0.7	0.51	10.2	0.30	0.8	0.31	4.79	138	2	17.4	2.1
E5308963 (663057)	3.9	2	140	0.6	0.57	9.7	0.28	0.9	0.34	5.46	138	1	19.3	2.1
E5308964 (663058)	3.4	3	95.5	1.0	0.54	9.0	0.37	0.8	0.32	5.81	243	2	19.5	2.2
E5308965 (663059)	3.6	3	108	0.8	0.59	10.4	0.39	0.9	0.35	6.44	199	2	19.5	2.4
E5308966 (663060)	3.6	2	108	0.8	0.50	7.7	0.33	0.8	0.29	4.85	187	2	17.2	1.9
E5308967 (663061)	3.1	2	117	0.5	0.47	10.2	0.32	0.6	0.27	4.39	132	1	15.7	1.9
E5308968 (663062)	3.0	2	101	0.6	0.46	9.1	0.35	0.6	0.26	4.77	168	2	14.9	1.7
E5308969 (663063)	5.1	3	121	0.6	0.62	24.2	0.31	0.7	0.32	5.31	151	2	17.7	2.1
E5308970 (663064)	3.4	2	179	<0.5	0.52	8.8	0.25	<0.5	0.25	4.54	94	1	16.2	1.8
E5308971 (663065)	2.9	1	130	<0.5	0.39	8.5	0.30	<0.5	0.20	4.04	125	1	14.3	1.7
E5308972 (663066)	3.6	2	115	<0.5	0.49	12.0	0.28	<0.5	0.24	4.08	115	1	14.4	1.6
E5308973 (663067)	3.4	2	141	0.5	0.51	9.5	0.33	<0.5	0.30	4.52	132	2	16.6	2.0
E5308934 (663068)	4.4	1	124	0.7	0.50	9.0	0.30	<0.5	0.23	2.32	90	1	14.6	1.4
E5308935 (663069)	4.8	2	100	<0.5	0.59	9.6	0.28	<0.5	0.29	3.06	85	1	17.9	1.9
E5308936 (663070)	3.5	2	102	1.6	0.43	9.5	0.31	<0.5	0.21	2.72	85	1	13.1	1.5
E5308937 (663071)	3.7	1	72.5	<0.5	0.44	6.5	0.16	<0.5	0.24	2.09	67	1	15.3	1.4
E5308938 (663072)	3.6	2	107	<0.5	0.48	10.1	0.30	<0.5	0.22	2.80	77	1	14.0	1.5
E5308939 (663073)	3.3	2	112	<0.5	0.48	10.6	0.31	<0.5	0.21	2.60	85	1	13.7	1.4
E5308940 (663074)	4.1	2	144	<0.5	0.48	10.6	0.33	<0.5	0.21	2.58	83	1	13.4	1.4
E5308941 (663075)	3.9	2	79.9	0.5	0.47	10.7	0.33	<0.5	0.21	2.78	92	1	14.3	1.5
E5308942 (663076)	3.2	2	85.6	0.9	0.43	9.2	0.28	0.6	0.22	2.62	81	2	14.1	1.5
E5308943 (663077)	4.1	2	85.9	0.6	0.55	8.9	0.28	<0.5	0.25	2.78	85	1	17.1	1.6
E5308944 (663078)	4.2	2	106	0.6	0.58	8.3	0.27	<0.5	0.30	3.27	80	2	18.2	1.9
E5308945 (663079)	3.7	2	108	0.6	0.51	10.1	0.31	<0.5	0.23	3.27	78	1	14.0	1.6
E5308946 (663080)	5.0	2	92.9	0.7	0.67	10.5	0.31	<0.5	0.27	4.18	86	1	15.6	1.8
E5308947 (663081)	2.6	1	85.0	<0.5	0.36	7.0	0.28	<0.5	0.20	2.42	80	1	10.9	1.3
E5308948 (663082)	3.8	1	93.9	<0.5	0.45	10.8	0.29	<0.5	0.20	2.72	80	1	12.3	1.4

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tl	Tm	U	V	W	Y	Yb
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.1	1	0.1	0.5	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	0.1
E5308949 (663083)	3.2	1	72.9	<0.5	0.42	8.5	0.31	<0.5	0.21	2.45	79	1	11.9	1.3
E5308950 (663084)	3.6	1	82.3	<0.5	0.44	10.7	0.30	<0.5	0.20	2.68	79	1	12.2	1.4
E5308951 (663085)	3.7	1	74.7	0.5	0.50	9.5	0.30	<0.5	0.21	2.75	78	1	14.1	1.5
E5308952 (663086)	3.1	1	80.5	0.5	0.38	7.9	0.33	<0.5	0.19	2.64	86	1	11.9	1.3
E5308910 (663087)	3.5	2	128	0.5	0.49	9.6	0.34	<0.5	0.25	3.51	91	1	14.3	1.6
E5308911 (663088)	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC	NRC
E5308912 (663089)	3.7	2	115	0.5	0.51	10.4	0.35	<0.5	0.26	3.85	108	2	15.3	1.7
E5308913 (663090)	3.5	1	129	0.5	0.48	10.7	0.32	<0.5	0.24	3.52	85	2	14.0	1.6
E5308914 (663091)	4.0	1	132	0.5	0.66	12.1	0.35	<0.5	0.28	3.87	90	1	15.7	1.7
E5308915 (663092)	3.4	2	138	0.6	0.51	10.0	0.33	<0.5	0.26	3.79	91	1	15.4	1.8
E5308916 (663093)	3.5	1	136	0.5	0.49	10.1	0.33	<0.5	0.23	3.52	89	1	14.5	1.6
E5308917 (663094)	3.7	2	131	1.0	0.57	11.7	0.32	0.7	0.27	3.72	85	2	14.9	1.7
E5308918 (663095)	4.2	3	133	0.7	0.59	13.2	0.32	0.6	0.27	3.74	86	1	16.0	1.8
E5308919 (663096)	3.4	2	126	0.6	0.52	10.7	0.31	0.6	0.24	3.63	89	1	14.3	1.6
E5308920 (663097)	3.4	2	131	0.7	0.51	10.1	0.33	0.5	0.26	3.47	86	2	14.9	1.7
E5308921 (663098)	4.8	2	144	0.6	0.61	13.7	0.34	0.6	0.29	4.08	93	1	16.5	1.8
E5308922 (663099)	3.6	2	122	0.6	0.49	10.9	0.32	<0.5	0.28	3.18	89	1	15.1	1.7
E5308923 (663100)	3.7	2	120	0.6	0.50	10.9	0.31	<0.5	0.26	3.29	78	1	14.4	1.6
E5308924 (663101)	3.9	2	121	0.5	0.49	11.4	0.31	<0.5	0.23	3.44	87	1	14.8	1.6
E5308925 (663102)	3.1	2	124	0.6	0.43	8.5	0.32	<0.5	0.21	2.66	81	1	12.5	1.4
E5308926 (663103)	3.5	2	126	0.5	0.50	10.4	0.31	<0.5	0.23	3.58	83	1	13.8	1.6
E5308927 (663104)	3.2	2	115	0.5	0.46	8.4	0.30	<0.5	0.23	3.19	79	1	13.3	1.6
E5308928 (663105)	4.1	2	125	0.5	0.56	9.9	0.31	<0.5	0.26	3.52	87	1	15.3	1.7
E5308929 (663106)	4.1	2	115	0.5	0.56	10.0	0.30	<0.5	0.23	3.22	80	1	15.5	1.8
E5308930 (663107)	4.0	2	125	0.5	0.51	13.4	0.33	<0.5	0.24	3.23	86	1	14.5	1.6
E5308931 (663108)	3.4	2	116	0.5	0.47	9.5	0.32	<0.5	0.24	3.13	83	1	13.6	1.6
E5308932 (663109)	4.0	1	129	<0.5	0.53	8.2	0.26	<0.5	0.23	2.49	75	1	14.1	1.5
E5308933 (663110)	4.4	1	113	0.6	0.55	7.9	0.24	<0.5	0.22	2.17	73	<1	14.8	1.5
E5129380 (663111)	5.8	2	60.7	0.6	0.65	12.0	0.35	<0.5	0.22	3.53	73	1	13.9	1.5
E5129381 (663112)	5.2	2	46.2	0.9	0.63	13.3	0.39	0.8	0.26	2.80	60	1	15.1	1.8
E5129382 (663113)	4.4	3	16.2	1.2	0.57	16.0	0.50	<0.5	0.33	3.33	49	1	17.2	2.2
E5129383 (663114)	3.7	2	79.1	0.6	0.49	12.4	0.34	<0.5	0.26	3.05	71	1	14.5	1.8

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tl	Tm	U	V	W	Y	Yb
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.1	1	0.1	0.5	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	0.1
E5129384 (663115)	3.7	2	74.5	0.7	0.53	13.5	0.37	<0.5	0.25	3.46	79	1	14.5	1.7
E5129385 (663116)	2.2	2	25.7	0.7	0.40	11.8	0.47	<0.5	0.20	3.43	67	<1	11.8	1.4
E5129386 (663117)	3.4	2	88.3	<0.5	0.37	9.8	0.32	<0.5	0.16	2.53	73	2	13.9	1.4
E5129387 (663118)	3.3	1	73.7	<0.5	0.37	8.3	0.29	<0.5	0.17	2.18	79	1	13.7	1.3
E5129388 (663119)	2.9	1	85.3	<0.5	0.33	9.6	0.26	0.5	0.16	1.95	70	1	12.4	1.2
E5129389 (663120)	3.8	1	83.3	<0.5	0.43	9.4	0.30	<0.5	0.17	2.38	75	1	15.4	1.2
E5129390 (663121)	4.4	2	105	<0.5	0.42	10.8	0.30	<0.5	0.20	3.00	82	1	15.2	1.5
E5129391 (663122)	3.7	1	89.2	<0.5	0.42	9.4	0.31	<0.5	0.18	2.57	77	1	14.2	1.4
E5129392 (663123)	5.0	1	110	<0.5	0.58	10.1	0.27	<0.5	0.23	3.09	73	1	17.5	1.6
E5129393 (663124)	3.2	3	143	<0.5	0.38	9.5	0.32	<0.5	0.20	3.21	88	1	14.5	1.4
E5129394 (663125)	6.0	2	120	<0.5	0.70	10.6	0.29	<0.5	0.28	3.90	77	1	26.5	1.9
E5129395 (663126)	5.2	<1	120	<0.5	0.63	12.0	0.29	<0.5	0.23	2.97	79	<1	19.2	1.7
E5129396 (663127)	3.0	3	125	<0.5	0.36	8.9	0.33	<0.5	0.20	3.19	87	1	14.3	1.5
E5129397 (663128)	3.4	1	85.2	<0.5	0.37	9.1	0.32	<0.5	0.17	2.39	77	1	13.9	1.3
E5129398 (663129)	3.9	1	115	<0.5	0.43	10.9	0.33	<0.5	0.19	3.39	84	1	14.9	1.4
E5129399 (663130)	3.4	2	107	<0.5	0.44	10.8	0.33	0.9	0.19	3.46	86	1	15.0	1.4
E5309000 (663131)	3.3	7	106	<0.5	0.34	8.1	0.36	0.5	0.17	2.36	79	1	12.7	1.2
E5309001 (663132)	3.0	1	84.3	<0.5	0.34	7.7	0.29	<0.5	0.14	2.43	75	1	12.4	1.2
E5309002 (663133)	3.2	1	96.2	<0.5	0.31	7.9	0.28	<0.5	0.14	2.11	76	<1	12.0	1.1
E5309003 (663134)	2.8	1	83.5	<0.5	0.31	7.9	0.28	<0.5	0.16	2.46	78	1	12.2	1.2
E5309004 (663135)	3.2	1	77.8	<0.5	0.33	8.5	0.28	<0.5	0.19	3.16	95	1	13.6	1.3
E5309005 (663136)	3.6	<1	116	<0.5	0.34	9.6	0.26	<0.5	0.14	2.10	73	1	12.2	1.1
E5309006 (663137)	3.7	1	85.6	<0.5	0.35	8.9	0.28	<0.5	0.16	2.40	76	<1	12.6	1.2
E5309007 (663138)	3.8	2	84.0	<0.5	0.35	10.0	0.32	<0.5	0.15	2.39	87	1	12.5	1.3
E5309008 (663139)	3.1	1	87.6	<0.5	0.32	8.1	0.30	0.6	0.14	2.37	76	1	12.4	1.2
E5309009 (663140)	3.6	1	92.2	<0.5	0.39	7.9	0.25	<0.5	0.15	2.49	71	<1	13.3	1.2
E5309010 (663141)	3.4	1	118	<0.5	0.36	8.0	0.30	<0.5	0.17	2.50	88	1	14.6	1.3
E5309011 (663142)	3.3	1	137	<0.5	0.38	8.6	0.31	0.5	0.15	2.39	86	1	13.1	1.2
E5309012 (663143)	3.5	1	98.1	<0.5	0.37	11.9	0.30	<0.5	0.17	2.86	79	1	13.1	1.3
E5309013 (663144)	3.5	1	97.3	<0.5	0.35	9.3	0.31	<0.5	0.17	2.76	82	<1	13.0	1.3
E5309014 (663145)	3.1	1	99.0	<0.5	0.34	8.6	0.30	<0.5	0.16	2.62	75	1	12.1	1.2
E5309015 (663146)	3.2	4	94.1	<0.5	0.33	8.5	0.31	<0.5	0.18	2.70	82	1	13.2	1.3

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tl	Tm	U	V	W	Y	Yb
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.1	1	0.1	0.5	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	0.1
Sample ID (AGAT ID)														
E5309016 (663147)	3.0	<1	129	<0.5	0.36	8.2	0.28	<0.5	0.15	2.41	74	1	12.0	1.2
E5309017 (663148)	3.1	<1	95.9	<0.5	0.36	8.2	0.29	0.6	0.18	2.51	82	1	13.6	1.3
E5309018 (663149)	3.4	1	91.0	<0.5	0.37	8.6	0.30	0.5	0.17	2.69	90	1	14.1	1.3
E5309019 (663150)	3.5	<1	114	<0.5	0.40	10.0	0.24	<0.5	0.18	2.46	71	1	13.9	1.2
E5309020 (663151)	3.4	3	119	<0.5	0.36	9.3	0.26	<0.5	0.18	2.54	69	1	14.3	1.4
E5309021 (663152)	2.5	1	102	<0.5	0.31	7.4	0.28	<0.5	0.15	2.47	84	1	12.2	1.2
E5309022 (663153)	3.0	<1	114	<0.5	0.35	8.7	0.29	<0.5	0.16	2.84	84	1	12.6	1.4
E5309023 (663154)	3.3	<1	119	<0.5	0.38	8.9	0.31	<0.5	0.18	2.63	80	1	13.0	1.3
E5309024 (663155)	3.6	1	116	<0.5	0.37	9.8	0.31	<0.5	0.17	2.95	86	1	13.7	1.3
E5309025 (663156)	3.2	1	85.8	<0.5	0.38	9.3	0.29	<0.5	0.19	3.30	113	1	13.7	1.5
E5309026 (663157)	4.0	1	93.1	<0.5	0.46	9.4	0.33	<0.5	0.23	3.92	122	1	17.1	1.7
E5309027 (663158)	3.7	11	87.6	<0.5	0.41	9.4	0.29	<0.5	0.22	3.58	110	1	16.1	1.6
E5309028 (663159)	3.4	1	91.0	<0.5	0.41	9.0	0.28	<0.5	0.20	3.55	103	1	15.2	1.5
E5309029 (663160)	2.5	1	95.6	<0.5	0.33	8.1	0.30	<0.5	0.18	3.15	111	1	13.4	1.4
E5309030 (663161)	3.1	1	92.5	<0.5	0.36	9.3	0.30	0.6	0.18	3.08	109	1	13.9	1.3
E5309031 (663162)	2.7	1	95.5	<0.5	0.34	7.8	0.27	<0.5	0.18	2.82	97	1	12.6	1.2
E5309032 (663163)	3.4	1	93.8	<0.5	0.39	10.2	0.29	<0.5	0.19	3.45	106	1	14.0	1.3
E5309033 (663164)	2.9	<1	93.8	<0.5	0.34	7.9	0.27	<0.5	0.15	2.78	99	1	11.9	1.2
E5309034 (663165)	3.3	<1	94.8	<0.5	0.37	9.3	0.27	<0.5	0.19	3.14	104	1	14.8	1.4
E5309035 (663166)	3.2	1	91.0	<0.5	0.36	9.7	0.30	<0.5	0.17	3.01	106	1	13.6	1.3
E5309036 (663167)	3.4	1	95.2	<0.5	0.43	8.3	0.28	<0.5	0.19	3.37	112	1	15.0	1.4
E5309037 (663168)	3.4	1	90.8	<0.5	0.39	9.6	0.27	<0.5	0.18	3.32	99	1	13.9	1.3
E5309038 (663169)	3.1	1	94.8	<0.5	0.35	9.0	0.28	<0.5	0.16	3.02	99	1	13.0	1.4
E5309039 (663170)	3.3	1	97.1	<0.5	0.41	9.0	0.28	<0.5	0.19	3.48	106	1	14.3	1.5
E5309040 (663171)	3.1	1	90.6	<0.5	0.36	8.9	0.28	<0.5	0.18	3.42	109	1	14.2	1.4
E5309041 (663172)	2.8	1	84.0	<0.5	0.32	8.8	0.27	<0.5	0.15	3.12	98	1	12.1	1.3
E5309042 (663173)	3.8	1	89.5	<0.5	0.44	12.0	0.28	<0.5	0.21	3.69	103	1	15.6	1.5
E5309043 (663174)	3.3	2	93.0	<0.5	0.38	9.0	0.28	<0.5	0.21	3.56	103	2	15.0	1.5
E5309044 (663175)	3.7	1	88.9	<0.5	0.40	11.4	0.27	<0.5	0.18	3.48	101	1	13.0	1.4
E5309045 (663176)	2.7	1	92.2	<0.5	0.34	8.6	0.27	<0.5	0.15	3.09	96	1	12.0	1.2
E5309046 (663177)	2.9	1	99.3	<0.5	0.33	8.0	0.25	<0.5	0.17	3.06	93	1	12.9	1.4
E5309047 (663178)	3.8	1	92.9	<0.5	0.40	11.0	0.27	<0.5	0.18	3.44	96	1	14.0	1.4

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Analyte:	Sm	Sn	Sr	Ta	Tb	Th	Ti	Tl	Tm	U	V	W	Y	Yb
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.1	1	0.1	0.5	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	0.1
Sample ID (AGAT ID)														
E5309048 (663179)	2.5	1	107	<0.5	0.33	8.0	0.24	<0.5	0.18	2.80	85	1	13.0	1.3
E5309049 (663180)	3.0	1	102	<0.5	0.36	8.4	0.26	<0.5	0.18	3.17	98	1	13.2	1.3
E5309050 (663181)	3.1	1	131	<0.5	0.37	8.8	0.27	<0.5	0.18	2.72	102	1	13.2	1.3
E5309051 (663182)	4.6	1	123	<0.5	0.54	13.5	0.30	<0.5	0.21	3.75	116	1	16.9	1.6
E5309052 (663183)	4.2	1	120	<0.5	0.49	9.6	0.28	0.6	0.22	3.52	119	2	16.8	1.7
E5309053 (663184)	3.5	1	93.8	<0.5	0.44	8.0	0.25	<0.5	0.22	3.71	117	2	15.1	1.6
E5309054 (663185)	2.2	<1	32.4	<0.5	0.21	5.5	0.17	<0.5	0.13	4.29	96	1	9.1	1.0
E5309055 (663186)	4.5	1	84.7	<0.5	0.60	10.4	0.31	<0.5	0.29	4.55	150	2	21.6	2.1
E5309056 (663187)	4.4	1	130	<0.5	0.57	9.0	0.34	<0.5	0.24	3.94	138	1	20.3	1.8
E5309057 (663188)	4.7	1	138	<0.5	0.51	10.2	0.34	<0.5	0.23	3.85	129	2	18.3	1.7
E5309058 (663189)	3.3	1	111	<0.5	0.40	10.2	0.26	<0.5	0.17	2.90	108	1	13.2	1.4
E5309059 (663190)	2.8	<1	123	<0.5	0.31	8.0	0.23	<0.5	0.18	3.02	99	1	12.4	1.3
E5420130 (663191)	3.4	1	74.6	<0.5	0.37	9.8	0.32	<0.5	0.16	2.70	80	1	12.9	1.3
E5420131 (663192)	3.8	1	76.8	<0.5	0.40	11.4	0.33	<0.5	0.18	2.65	75	1	13.4	1.4
E5420132 (663193)	3.4	1	81.1	<0.5	0.36	9.4	0.34	<0.5	0.17	2.61	79	1	13.0	1.3
E5420133 (663194)	3.0	1	113	<0.5	0.37	8.4	0.27	<0.5	0.18	2.33	85	1	13.3	1.4
E5420134 (663195)	2.9	1	76.0	<0.5	0.33	8.7	0.28	<0.5	0.18	2.15	96	1	13.0	1.3
E5420135 (663196)	3.2	1	80.8	<0.5	0.36	12.0	0.33	<0.5	0.18	2.37	94	1	13.2	1.3
E5420136 (663197)	3.5	1	104	<0.5	0.38	8.5	0.30	<0.5	0.18	2.20	92	1	12.5	1.3
E5420137 (663198)	3.3	<1	104	<0.5	0.40	10.6	0.21	<0.5	0.18	2.31	76	1	13.8	1.3
E5420138 (663199)	3.3	1	86.4	<0.5	0.37	8.6	0.30	<0.5	0.17	2.20	76	1	12.8	1.3
E5420139 (663200)	3.5	1	75.5	<0.5	0.42	8.9	0.28	<0.5	0.20	2.49	72	1	14.3	1.3
E5420140 (663201)	3.4	1	101	<0.5	0.40	10.3	0.32	<0.5	0.19	2.88	76	1	13.5	1.4
E5420141 (663202)	3.7	1	138	<0.5	0.49	10.9	0.34	<0.5	0.22	3.47	89	1	15.4	1.6
E5420142 (663203)	3.8	4	111	<0.5	0.46	11.4	0.32	0.5	0.21	3.00	81	1	14.8	1.5
E5420143 (663204)	3.9	1	129	<0.5	0.45	12.9	0.34	0.5	0.21	3.04	87	1	14.8	1.5
E5420144 (663205)	3.9	1	101	<0.5	0.44	10.5	0.31	0.5	0.22	2.87	84	1	14.7	1.4
E5420145 (663206)	3.5	1	116	<0.5	0.41	9.4	0.32	<0.5	0.20	2.61	83	1	14.0	1.5
E5420146 (663207)	3.4	1	125	<0.5	0.39	9.3	0.34	<0.5	0.21	2.98	84	1	14.0	1.5
E5420147 (663208)	3.3	1	140	<0.5	0.43	9.5	0.37	<0.5	0.21	3.21	102	1	15.3	1.6
E5420148 (663209)	3.5	1	112	<0.5	0.39	10.2	0.32	<0.5	0.17	2.73	86	1	12.9	1.4
E5420149 (663210)	3.0	1	133	<0.5	0.38	9.6	0.33	<0.5	0.22	3.53	95	2	14.0	1.6

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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<http://www.agatlabs.com>

CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Ti %	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm	Yb ppm
		0.1	1	0.1	0.5	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	0.1
E5420150 (663211)		3.8	2	99.9	<0.5	0.43	12.7	0.28	<0.5	0.21	3.06	96	1	16.3	1.7
E5420151 (663212)		3.8	2	134	<0.5	0.42	12.0	0.33	<0.5	0.20	3.24	89	2	14.0	1.5
E5420152 (663213)		3.2	1	123	<0.5	0.36	8.8	0.31	<0.5	0.18	2.97	89	1	12.8	1.4
E5420153 (663214)		4.0	1	104	<0.5	0.42	10.7	0.31	<0.5	0.20	2.50	76	1	13.4	1.4
E5420154 (663215)		2.9	2	119	<0.5	0.39	9.6	0.39	<0.5	0.17	3.28	111	2	13.0	1.5
E5420155 (663216)		3.3	2	96.3	<0.5	0.38	10.0	0.34	<0.5	0.22	3.70	128	1	13.9	1.7
E5420156 (663217)		3.7	1	117	<0.5	0.43	9.8	0.30	<0.5	0.22	3.18	83	1	14.1	1.6
E5420157 (663218)		3.3	2	111	<0.5	0.43	10.5	0.39	<0.5	0.23	3.81	125	2	14.7	1.7
E5420158 (663219)		3.9	2	125	<0.5	0.46	10.2	0.33	<0.5	0.23	3.85	97	1	14.3	1.7
E5420159 (663220)		3.0	2	110	<0.5	0.37	9.4	0.35	<0.5	0.21	3.74	106	2	13.8	1.7
E5420110 (663221)		3.8	2	79.2	<0.5	0.41	10.7	0.31	0.7	0.19	2.56	73	1	12.8	1.4
E5420111 (663222)		3.6	1	83.9	<0.5	0.37	8.5	0.30	<0.5	0.18	2.44	70	1	12.4	1.4
E5420112 (663223)		3.2	1	86.9	<0.5	0.37	8.0	0.30	0.5	0.18	2.66	75	1	12.5	1.4
E5420113 (663224)		3.4	1	91.0	<0.5	0.37	9.5	0.28	<0.5	0.18	2.57	65	2	12.0	1.4
E5420114 (663225)		3.7	1	91.2	<0.5	0.39	9.8	0.29	0.5	0.18	2.73	75	1	12.8	1.4
E5420115 (663226)		3.5	1	83.7	<0.5	0.39	9.0	0.28	<0.5	0.19	2.62	69	1	12.2	1.4
E5420116 (663227)		3.9	2	82.1	<0.5	0.42	11.9	0.33	0.5	0.20	3.20	81	1	13.4	1.5
E5420117 (663228)		3.6	1	83.0	<0.5	0.41	9.5	0.31	<0.5	0.19	2.80	76	1	12.8	1.4
E5420118 (663229)		5.7	1	85.6	<0.5	0.67	11.1	0.33	<0.5	0.30	3.96	92	1	19.5	2.0
E5420119 (663230)		3.3	1	78.9	<0.5	0.38	8.6	0.32	<0.5	0.18	2.85	82	1	12.2	1.4
E5420120 (663231)		4.2	1	77.6	<0.5	0.43	11.9	0.31	<0.5	0.20	3.54	82	1	13.3	1.5
E5420121 (663232)		5.2	1	81.8	<0.5	0.59	11.3	0.33	<0.5	0.24	3.97	83	1	15.5	1.7
E5420122 (663233)		5.6	1	99.6	<0.5	0.59	13.1	0.38	<0.5	0.27	5.12	98	1	16.1	2.0
E5420123 (663234)		4.2	2	68.3	<0.5	0.50	11.7	0.36	<0.5	0.24	4.58	104	2	14.5	1.7
E5420124 (663235)		4.0	2	70.0	<0.5	0.46	10.6	0.38	<0.5	0.20	4.02	101	1	14.8	1.6
E5420125 (663236)		5.0	1	83.9	<0.5	0.51	11.3	0.31	<0.5	0.21	4.21	92	1	14.6	1.8
E5420126 (663237)		4.3	1	93.4	<0.5	0.48	9.8	0.31	<0.5	0.19	2.88	75	1	13.2	1.5
E5420127 (663238)		4.1	1	78.9	<0.5	0.47	9.7	0.33	<0.5	0.19	2.67	77	1	13.0	1.5
E5420128 (666124)		3.8	1	71.8	<0.5	0.39	8.5	0.33	<0.5	0.19	2.53	80	1	12.5	1.4
E5420129 (666126)		3.6	2	81.1	<0.5	0.39	10.2	0.31	<0.5	0.18	2.81	77	1	12.5	1.4
E5129138 (680459)		5.2	1	96.4	<0.5	0.48	13.2	0.31	<0.5	0.19	2.99	88	1	12.8	1.5

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Zn ppm 5	Zr ppm 0.5
E5417863 (662859)		73	178
E5417864 (662860)		41	124
E5417865 (662861)		40	203
E5417866 (662862)		67	146
E5417867 (662863)		60	166
E5417886 (662864)		61	171
E5417887 (662865)		45	198
E5417888 (662866)		62	171
E5417889 (662867)		74	174
E5417890 (662868)		70	184
E5417891 (662869)		40	150
E5417892 (662870)		57	168
E5129400 (662871)		41	160
E5129401 (662872)		41	167
E5129402 (662873)		51	164
E5129403 (662874)		41	157
E5129404 (662875)		40	152
E5129405 (662876)		44	146
E5129406 (662877)		57	159
E5129407 (662878)		19	139
E5129408 (662879)		42	105
E5129409 (662880)		34	137
E5420237 (662881)		39	157
E5420238 (662882)		35	136
E5420239 (662883)		39	154
E5420240 (662884)		34	192
E5420241 (662885)		37	160
E5420242 (662886)		26	147
E5420243 (662887)		21	149
E5420244 (662888)		41	150
E5420245 (662889)		69	198
E5420246 (662890)		70	177

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Zn ppm 5	Zr ppm 0.5
E5420247 (662891)		65	179
E5420248 (662892)		64	166
E5420249 (662893)		51	148
E5420250 (662894)		54	159
E5420251 (662895)		53	170
E5420252 (662896)		56	157
E5420253 (662897)		52	174
E5420254 (662898)		44	168
E5420255 (662899)		60	213
E5420256 (662900)		53	177
E5420257 (662901)		41	178
E5420258 (662902)		66	166
E5420259 (662903)		53	171
E5308866 (662904)		58	165
E5308867 (662905)		99	167
E5308868 (662906)		78	153
E5308869 (662907)		94	170
E5308870 (662908)		90	176
E5308871 (662909)		82	162
E5308872 (662910)		142	182
E5308873 (662911)		62	174
E5308874 (662912)		100	171
E5308875 (662913)		83	171
E5308876 (662914)		133	169
E5308877 (662915)		83	190
E5308878 (662916)		109	152
E5308879 (662917)		54	174
E5308880 (662918)		89	172
E5308881 (662919)		73	167
E5308882 (662920)		56	170
E5308883 (662921)		64	183
E5308884 (662922)		69	150

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AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019 DATE RECEIVED: Oct 29, 2019 DATE REPORTED: Dec 11, 2019 SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Zn ppm 5	Zr ppm 0.5
E5163036 (662923)		52	152
E5163037 (662924)		32	165
E5163038 (662925)		63	155
E5163039 (662926)		49	161
E5163040 (662927)		56	160
E5163041 (662928)		47	158
E5163042 (662929)		48	166
E5163043 (662930)		61	161
E5163044 (662931)		33	155
E5163045 (662932)		45	144
E5163046 (662933)		55	169
E5163047 (662934)		36	157
E5163048 (662935)		61	161
E5163049 (662936)		79	161
E5163050 (662937)		71	184
E5163051 (662938)		65	150
E5163052 (662939)		70	148
E5163053 (662940)		61	149
E5163054 (662941)		50	152
E5163055 (662942)		35	120
E5163056 (662943)		44	148
E5163057 (662944)		76	138
E5163058 (662945)		59	181
E5163059 (662946)		62	150
E5420210 (662947)		28	130
E5420211 (662948)		39	130
E5420212 (662949)		42	191
E5420213 (662950)		48	139
E5420214 (662951)		73	130
E5420215 (662952)		72	173
E5420216 (662953)		80	155
E5420217 (662954)		51	144

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AGAT WORK ORDER: 19T536945

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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019 DATE RECEIVED: Oct 29, 2019 DATE REPORTED: Dec 11, 2019 SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Zn ppm 5	Zr ppm 0.5
E5420218 (662955)		64	141
E5420219 (662956)		56	147
E5420220 (662957)		88	147
E5420221 (662958)		80	157
E5420222 (662959)		68	141
E5420223 (662960)		47	176
E5420224 (662961)		45	156
E5420225 (662962)		49	171
E5420226 (662963)		77	165
E5420227 (662964)		76	160
E5420228 (662965)		63	159
E5420229 (662966)		71	132
E5420230 (662967)		85	158
E5420231 (662968)		33	143
E5420232 (662969)		34	150
E5420233 (662970)		39	141
E5420234 (662971)		37	136
E5420235 (662972)		37	139
E5420236 (662973)		42	190
E5163010 (662974)		84	136
E5163011 (662975)		72	132
E5163012 (662976)		86	153
E5163013 (662977)		67	152
E5163014 (662978)		73	155
E5163015 (662979)		96	160
E5163016 (662980)		67	134
E5163017 (662981)		79	161
E5163018 (662982)		96	139
E5163019 (662983)		87	149
E5163020 (662984)		62	142
E5163021 (662985)		89	150
E5163022 (662986)		76	136

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AGAT WORK ORDER: 19T536945

PROJECT:

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CLIENT NAME: LABRADOR IRON MINES LIMITED

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(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019 DATE RECEIVED: Oct 29, 2019 DATE REPORTED: Dec 11, 2019 SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Zn ppm 5	Zr ppm 0.5
E5163023 (662987)		82	142
E5163024 (662988)		55	160
E5163025 (662989)		61	161
E5163026 (662990)		70	137
E5163027 (662991)		47	165
E5163028 (662992)		75	132
E5163029 (662993)		45	152
E5163030 (662994)		62	167
E5163031 (662995)		58	157
E5163032 (662996)		53	175
E5163033 (662997)		64	161
E5163034 (662998)		53	152
E5163035 (662999)		67	154
E5308974 (663000)		52	172
E5308975 (663001)		85	156
E5308976 (663002)		115	172
E5308977 (663003)		99	178
E5308978 (663004)		35	154
E5308979 (663005)		37	159
E5308980 (663006)		43	153
E5308981 (663007)		28	195
E5308982 (663008)		34	139
E5308983 (663009)		48	149
E5308984 (663010)		23	168
E5308985 (663011)		43	157
E5308986 (663012)		161	126
E5308987 (663013)		42	153
E5308988 (663014)		60	190
E5308989 (663015)		49	160
E5308990 (663016)		46	149
E5308991 (663017)		51	171
E5308992 (663018)		52	157

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AGAT WORK ORDER: 19T536945

PROJECT:

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(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019 DATE RECEIVED: Oct 29, 2019 DATE REPORTED: Dec 11, 2019 SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Zn ppm 5	Zr ppm 0.5
E5308993 (663019)		49	151
E5308994 (663020)		52	164
E5308995 (663021)		51	170
E5308996 (663022)		58	167
E5308997 (663023)		57	154
E5308998 (663024)		53	146
E5308999 (663025)		42	162
E5129139 (663026)		30	150
E5129140 (663027)		23	189
E5129141 (663028)		36	180
E5129142 (663029)		26	185
E5129143 (663030)		28	182
E5129144 (663031)		48	158
E5129145 (663032)		38	160
E5129146 (663033)		56	176
E5129147 (663034)		57	160
E5129148 (663035)		68	190
E5129149 (663036)		77	184
E5129150 (663037)		76	186
E5129151 (663038)		72	162
E5129152 (663039)		61	181
E5129153 (663040)		64	191
E5129154 (663041)		61	175
E5129155 (663042)		62	201
E5129156 (663043)		74	188
E5129157 (663044)		63	189
E5129158 (663045)		51	185
E5129159 (663046)		62	186
E5308953 (663047)		63	160
E5308954 (663048)		43	198
E5308955 (663049)		37	171
E5308956 (663050)		41	181

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AGAT WORK ORDER: 19T536945

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(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte:	Zn	Zr
	Unit:	ppm	ppm
	RDL:	5	0.5
E5308957 (663051)		33	172
E5308958 (663052)		38	177
E5308959 (663053)		50	170
E5308960 (663054)		58	192
E5308961 (663055)		69	216
E5308962 (663056)		181	195
E5308963 (663057)		246	175
E5308964 (663058)		63	189
E5308965 (663059)		69	232
E5308966 (663060)		59	172
E5308967 (663061)		84	205
E5308968 (663062)		75	181
E5308969 (663063)		153	207
E5308970 (663064)		113	156
E5308971 (663065)		81	160
E5308972 (663066)		60	162
E5308973 (663067)		59	192
E5308934 (663068)		32	175
E5308935 (663069)		64	153
E5308936 (663070)		38	175
E5308937 (663071)		42	95.4
E5308938 (663072)		46	161
E5308939 (663073)		40	172
E5308940 (663074)		36	188
E5308941 (663075)		37	178
E5308942 (663076)		43	146
E5308943 (663077)		55	139
E5308944 (663078)		59	166
E5308945 (663079)		39	184
E5308946 (663080)		50	154
E5308947 (663081)		31	146
E5308948 (663082)		36	153

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AGAT WORK ORDER: 19T536945

PROJECT:

5623 McADAM ROAD
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 CANADA L4Z 1N9
 TEL (905)501-9998
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CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte:	Zn	Zr
	Unit:	ppm	ppm
	RDL:	5	0.5
E5308949 (663083)		32	161
E5308950 (663084)		29	165
E5308951 (663085)		35	172
E5308952 (663086)		37	151
E5308910 (663087)		60	162
E5308911 (663088)		NRC	NRC
E5308912 (663089)		63	146
E5308913 (663090)		67	156
E5308914 (663091)		79	172
E5308915 (663092)		76	165
E5308916 (663093)		76	159
E5308917 (663094)		72	170
E5308918 (663095)		94	177
E5308919 (663096)		77	172
E5308920 (663097)		75	160
E5308921 (663098)		102	169
E5308922 (663099)		59	162
E5308923 (663100)		57	170
E5308924 (663101)		72	145
E5308925 (663102)		43	164
E5308926 (663103)		75	146
E5308927 (663104)		48	150
E5308928 (663105)		67	168
E5308929 (663106)		56	181
E5308930 (663107)		54	174
E5308931 (663108)		50	150
E5308932 (663109)		41	148
E5308933 (663110)		29	137
E5129380 (663111)		30	154
E5129381 (663112)		16	209
E5129382 (663113)		8	357
E5129383 (663114)		35	205

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(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

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DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte:	Zn	Zr
	Unit: RDL:	ppm 5	ppm 0.5
E5129384 (663115)		50	195
E5129385 (663116)		21	112
E5129386 (663117)		58	155
E5129387 (663118)		47	131
E5129388 (663119)		49	144
E5129389 (663120)		55	161
E5129390 (663121)		62	163
E5129391 (663122)		58	159
E5129392 (663123)		80	151
E5129393 (663124)		66	149
E5129394 (663125)		66	155
E5129395 (663126)		73	149
E5129396 (663127)		60	154
E5129397 (663128)		36	146
E5129398 (663129)		67	169
E5129399 (663130)		64	159
E5309000 (663131)		36	180
E5309001 (663132)		41	159
E5309002 (663133)		41	147
E5309003 (663134)		37	161
E5309004 (663135)		48	136
E5309005 (663136)		37	164
E5309006 (663137)		35	159
E5309007 (663138)		38	178
E5309008 (663139)		39	146
E5309009 (663140)		46	138
E5309010 (663141)		41	155
E5309011 (663142)		45	156
E5309012 (663143)		32	154
E5309013 (663144)		44	163
E5309014 (663145)		38	160
E5309015 (663146)		40	147

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PROJECT:

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DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte:	Zn	Zr
	Unit:	ppm	ppm
	RDL:	5	0.5
E5309016 (663147)		37	141
E5309017 (663148)		32	165
E5309018 (663149)		40	156
E5309019 (663150)		38	141
E5309020 (663151)		40	208
E5309021 (663152)		35	152
E5309022 (663153)		37	148
E5309023 (663154)		41	163
E5309024 (663155)		42	149
E5309025 (663156)		84	167
E5309026 (663157)		109	170
E5309027 (663158)		92	155
E5309028 (663159)		85	184
E5309029 (663160)		82	160
E5309030 (663161)		118	143
E5309031 (663162)		75	142
E5309032 (663163)		96	158
E5309033 (663164)		77	137
E5309034 (663165)		103	150
E5309035 (663166)		75	159
E5309036 (663167)		93	147
E5309037 (663168)		88	147
E5309038 (663169)		77	151
E5309039 (663170)		96	138
E5309040 (663171)		101	150
E5309041 (663172)		59	141
E5309042 (663173)		89	146
E5309043 (663174)		75	136
E5309044 (663175)		69	155
E5309045 (663176)		71	145
E5309046 (663177)		63	153
E5309047 (663178)		74	146

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AGAT WORK ORDER: 19T536945

PROJECT:

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(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

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DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Zn ppm 5	Zr ppm 0.5
E5309048 (663179)		70	143
E5309049 (663180)		90	141
E5309050 (663181)		83	159
E5309051 (663182)		56	153
E5309052 (663183)		84	143
E5309053 (663184)		56	144
E5309054 (663185)		32	79.0
E5309055 (663186)		60	158
E5309056 (663187)		104	171
E5309057 (663188)		120	153
E5309058 (663189)		65	156
E5309059 (663190)		58	138
E5420130 (663191)		41	148
E5420131 (663192)		38	170
E5420132 (663193)		40	148
E5420133 (663194)		47	158
E5420134 (663195)		27	150
E5420135 (663196)		32	137
E5420136 (663197)		32	174
E5420137 (663198)		37	160
E5420138 (663199)		38	135
E5420139 (663200)		35	145
E5420140 (663201)		45	156
E5420141 (663202)		69	161
E5420142 (663203)		64	149
E5420143 (663204)		50	163
E5420144 (663205)		60	158
E5420145 (663206)		58	153
E5420146 (663207)		51	167
E5420147 (663208)		66	168
E5420148 (663209)		48	157
E5420149 (663210)		63	155

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AGAT WORK ORDER: 19T536945

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(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

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DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Zn ppm 5	Zr ppm 0.5
E5420150 (663211)		53	145
E5420151 (663212)		59	160
E5420152 (663213)		46	158
E5420153 (663214)		40	159
E5420154 (663215)		58	162
E5420155 (663216)		65	177
E5420156 (663217)		47	165
E5420157 (663218)		373	184
E5420158 (663219)		48	178
E5420159 (663220)		66	156
E5420110 (663221)		45	161
E5420111 (663222)		38	152
E5420112 (663223)		35	162
E5420113 (663224)		40	155
E5420114 (663225)		50	157
E5420115 (663226)		53	158
E5420116 (663227)		35	152
E5420117 (663228)		43	148
E5420118 (663229)		77	150
E5420119 (663230)		33	167
E5420120 (663231)		68	138
E5420121 (663232)		50	151
E5420122 (663233)		94	187
E5420123 (663234)		70	146
E5420124 (663235)		62	153
E5420125 (663236)		86	159
E5420126 (663237)		48	147
E5420127 (663238)		36	147
E5420128 (666124)		28	171
E5420129 (666126)		39	147
E5129138 (680459)		21	158

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AGAT WORK ORDER: 19T536945

PROJECT:

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(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 28, 2019

DATE RECEIVED: Oct 29, 2019

DATE REPORTED: Dec 11, 2019

SAMPLE TYPE: Soil

Comments: RDL - Reported Detection Limit
Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	662874	< 1	< 1	0.0%	662901	< 1	< 1	0.0%	662922	< 1	< 1	0.0%	662942	< 1	< 1	0.0%
Al	662874	5.97	6.02	0.8%	662901	4.84	4.79	1.0%	662922	5.92	5.89	0.5%	662942	4.75	4.80	1.0%
As	662874	11	7		662901	15	17	12.5%	662922	20	17	16.2%	662942	14	17	19.4%
B	662874	105	109	3.7%	662901	69	71	2.9%	662922	82	81	1.2%	662942	121	119	1.7%
Ba	662874	455	454	0.2%	662901	440	441	0.2%	662922	384	377	1.8%	662942	332	342	3.0%
Be	662874	< 5	< 5	0.0%	662901	< 5	< 5	0.0%	662922	< 5	< 5	0.0%	662942	< 5	< 5	0.0%
Bi	662874	0.1	0.1	0.0%	662901	0.2	0.2	0.0%	662922	0.3	0.3	0.0%	662942	0.1	0.2	
Ca	662874	0.21	0.21	0.0%	662901	0.32	0.313	2.2%	662922	0.24	0.23	4.3%	662942	0.27	0.260	3.8%
Cd	662874	< 0.2	< 0.2	0.0%	662901	< 0.2	0.2		662922	< 0.2	< 0.2	0.0%	662942	< 0.2	< 0.2	0.0%
Ce	662874	48.6	53.2	9.0%	662901	36.5	39.6	8.1%	662922	36.3	39.4	8.2%	662942	38.4	42.2	9.4%
Co	662874	5.5	5.8	5.3%	662901	4.6	4.31	6.5%	662922	8.0	7.93	0.9%	662942	5.9	6.5	9.7%
Cr	662874	0.007	0.007	0.0%	662901	0.006	0.006	0.0%	662922	0.007	0.007	0.0%	662942	0.006	0.006	0.0%
Cs	662874	3.4	3.4	0.0%	662901	3.3	3.3	0.0%	662922	2.9	2.9	0.0%	662942	1.2	1.5	
Cu	662874	11	11	0.0%	662901	9	8	11.8%	662922	18	16	11.8%	662942	5	5	0.0%
Dy	662874	2.49	2.46	1.2%	662901	2.05	2.25	9.3%	662922	2.07	2.17	4.7%	662942	1.86	2.08	11.2%
Er	662874	1.45	1.48	2.0%	662901	1.36	1.31	3.7%	662922	1.38	1.32	4.4%	662942	1.15	1.25	8.3%
Eu	662874	0.721	0.790	9.1%	662901	0.53	0.51	3.8%	662922	0.53	0.48	9.9%	662942	0.44	0.48	8.7%
Fe	662874	8.57	8.52	0.6%	662901	9.79	9.69	1.0%	662922	9.97	10.0	0.3%	662942	21.3	20.7	2.9%
Ga	662874	15.2	15.6	2.6%	662901	16.8	16.9	0.6%	662922	14.9	14.4	3.4%	662942	11.6	12.7	9.1%
Gd	662874	3.12	3.06	1.9%	662901	2.50	2.75	9.5%	662922	2.25	2.40	6.5%	662942	2.20	2.40	8.7%
Ge	662874	3	3	0.0%	662901	3	3	0.0%	662922	3	3	0.0%	662942	4	6	
Hf	662874	4	5	22.2%	662901	5	4	22.2%	662922	4	4	0.0%	662942	3	4	
Ho	662874	0.51	0.50	2.0%	662901	0.41	0.460	11.5%	662922	0.43	0.43	0.0%	662942	0.39	0.42	7.4%
In	662874	< 0.2	< 0.2	0.0%	662901	< 0.2	< 0.2	0.0%	662922	< 0.2	< 0.2	0.0%	662942	< 0.2	< 0.2	0.0%
K	662874	2.05	2.07	1.0%	662901	1.50	1.51	0.7%	662922	1.47	1.45	1.4%	662942	1.34	1.33	0.7%
La	662874	25.7	28.2	9.3%	662901	18.3	20.2	9.9%	662922	16.9	18.1	6.9%	662942	17.7	19.1	7.6%
Li	662874	24	24	0.0%	662901	12	11	8.7%	662922	26	23	12.2%	662942	11	16	
Lu	662874	0.22	0.22	0.0%	662901	0.22	0.22	0.0%	662922	0.20	0.20	0.0%	662942	0.16	0.18	11.8%
Mg	662874	0.56	0.57	1.8%	662901	0.46	0.454	1.3%	662922	0.60	0.570	5.1%	662942	0.46	0.443	3.8%
Mn	662874	284	287	1.1%	662901	396	380	4.1%	662922	526	526	0.0%	662942	504	502	0.4%
Mo	662874	< 2	< 2	0.0%	662901	4	4	0.0%	662922	4	4	0.0%	662942	< 2	3	



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Nb	662874	12	12	0.0%	662901	11	11	0.0%	662922	11	11	0.0%	662942	8	9	11.8%
Nd	662874	21.1	23.1	9.0%	662901	16.1	17.5	8.3%	662922	13.5	14.8	9.2%	662942	14.6	16.2	10.4%
Ni	662874	16	16	0.0%	662901	10	9	10.5%	662922	16	16	0.0%	662942	9	10	10.5%
P	662874	0.04	0.04	0.0%	662901	0.07	0.07	0.0%	662922	0.06	0.06	0.0%	662942	0.06	0.06	0.0%
Pb	662874	10	11	9.5%	662901	15	16	6.5%	662922	19	17	11.1%	662942	13	15	14.3%
Pr	662874	5.73	6.44	11.7%	662901	4.34	5.03	14.7%	662922	3.63	3.96	8.7%	662942	3.95	4.50	13.0%
Rb	662874	91.7	94.4	2.9%	662901	71.8	71.9	0.1%	662922	70.2	69.7	0.7%	662942	51.0	56.3	9.9%
S	662874	< 0.01	< 0.01	0.0%	662901	< 0.01	< 0.01	0.0%	662922	< 0.01	< 0.01	0.0%	662942	< 0.01	< 0.01	0.0%
Sb	662874	0.56	0.55	1.8%	662901	0.9	0.9	0.0%	662922	0.8	0.7	13.3%	662942	0.4	0.5	
Sc	662874	9	9	0.0%	662901	9	9	0.0%	662922	9	9	0.0%	662942	8	8	0.0%
Si	662874	29.0	29.1	0.3%	662901	24.6	24.4	0.8%	662922	29.0	29.4	1.4%	662942	22.4	22.3	0.4%
Sm	662874	3.41	3.51	2.9%	662901	2.8	3.1	10.2%	662922	2.5	2.72	8.4%	662942	2.5	2.9	14.8%
Sn	662874	1	1	0.0%	662901	1	1	0.0%	662922	2	2	0.0%	662942	< 1	1	
Sr	662874	108	107	0.9%	662901	109	108	0.9%	662922	77.9	77.5	0.5%	662942	88.8	91.6	3.1%
Ta	662874	< 0.5	< 0.5	0.0%	662901	< 0.5	< 0.5	0.0%	662922	< 0.5	< 0.5	0.0%	662942	< 0.5	< 0.5	0.0%
Tb	662874	0.43	0.43	0.0%	662901	0.33	0.37	11.4%	662922	0.36	0.340	5.7%	662942	0.32	0.37	14.5%
Th	662874	9.52	10.2	6.9%	662901	9.4	10.8	13.9%	662922	9.3	10.3	10.2%	662942	7.7	8.4	8.7%
Ti	662874	0.32	0.33	3.1%	662901	0.35	0.342	2.3%	662922	0.29	0.285	1.7%	662942	0.26	0.26	0.0%
Tl	662874	< 0.5	< 0.5	0.0%	662901	1.1	1.0	9.5%	662922	< 0.5	< 0.5	0.0%	662942	0.9	0.9	0.0%
Tm	662874	0.22	0.23	4.4%	662901	0.21	0.19	10.0%	662922	0.19	0.19	0.0%	662942	0.18	0.20	10.5%
U	662874	2.87	2.99	4.1%	662901	3.05	3.13	2.6%	662922	3.15	3.08	2.2%	662942	2.03	2.21	8.5%
V	662874	84	86	2.4%	662901	112	111	0.9%	662922	92	91	1.1%	662942	94	92	2.2%
W	662874	1	1	0.0%	662901	1	1	0.0%	662922	< 1	< 1	0.0%	662942	< 1	< 1	0.0%
Y	662874	13.4	13.0	3.0%	662901	12.3	11.2	9.4%	662922	13.1	12.0	8.8%	662942	9.4	10.6	12.0%
Yb	662874	1.42	1.49	4.8%	662901	1.3	1.24	4.7%	662922	1.3	1.40	7.4%	662942	1.2	1.4	15.4%
Zn	662874	41	43	4.8%	662901	41	41	0.0%	662922	69	63	9.1%	662942	35	36	2.8%
Zr	662874	157	167	6.2%	662901	178	162	9.4%	662922	150	157	4.6%	662942	120	133	10.3%

Parameter	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	662959	< 1	< 1	0.0%	662979	< 1	< 1	0.0%	662999	2	2	0.0%	663016	< 1	< 1	0.0%
Al	662959	6.52	6.51	0.2%	662979	5.72	5.88	2.8%	662999	6.13	6.13	0.0%	663016	4.70	4.82	2.5%
As	662959	8	19		662979	20	15	28.6%	662999	21	17		663016	17	12	
B	662959	84	87	3.5%	662979	101	107	5.8%	662999	106	110	3.7%	663016	88	95	7.7%
Ba	662959	507	502	1.0%	662979	486	495	1.8%	662999	376	375	0.3%	663016	393	407	3.5%



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Be	662959	< 5	< 5	0.0%	662979	< 5	< 5	0.0%	662999	< 5	< 5	0.0%	663016	< 5	< 5	0.0%
Bi	662959	0.2	0.2	0.0%	662979	0.2	0.2	0.0%	662999	0.2	0.2	0.0%	663016	0.1	0.1	0.0%
Ca	662959	0.351	0.358	2.0%	662979	0.29	0.31	6.7%	662999	0.36	0.35	2.8%	663016	0.243	0.248	2.0%
Cd	662959	< 0.2	< 0.2	0.0%	662979	< 0.2	< 0.2	0.0%	662999	0.5	0.4		663016	< 0.2	< 0.2	0.0%
Ce	662959	46.8	41.2	12.7%	662979	55.9	61.2	9.1%	662999	70.5	77.1	8.9%	663016	52.4	49.2	6.3%
Co	662959	8.0	8.0	0.0%	662979	15.3	15.3	0.0%	662999	12.8	13.4	4.6%	663016	7.5	7.5	0.0%
Cr	662959	0.008	0.008	0.0%	662979	0.007	0.007	0.0%	662999	0.007	0.007	0.0%	663016	0.005	0.005	0.0%
Cs	662959	3.9	3.9	0.0%	662979	3.00	2.81	6.5%	662999	2.0	2.0	0.0%	663016	2.8	2.8	0.0%
Cu	662959	17	16	6.1%	662979	29	31	6.7%	662999	13	13	0.0%	663016	11	11	0.0%
Dy	662959	2.81	2.62	7.0%	662979	2.61	2.66	1.9%	662999	3.25	3.23	0.6%	663016	2.30	2.15	6.7%
Er	662959	1.59	1.53	3.8%	662979	1.54	1.57	1.9%	662999	1.92	1.81	5.9%	663016	1.35	1.34	0.7%
Eu	662959	0.69	0.69	0.0%	662979	0.72	0.81	11.8%	662999	0.79	0.89	11.9%	663016	0.622	0.645	3.6%
Fe	662959	10.5	10.2	2.9%	662979	14.2	14.8	4.1%	662999	16.2	16.5	1.8%	663016	10.4	10.7	2.8%
Ga	662959	17.6	17.6	0.0%	662979	15.1	15.1	0.0%	662999	14.5	14.1	2.8%	663016	12.5	12.9	3.1%
Gd	662959	2.94	2.77	6.0%	662979	3.02	3.23	6.7%	662999	3.78	4.14	9.1%	663016	3.07	2.80	9.2%
Ge	662959	3	3	0.0%	662979	4	4	0.0%	662999	5	5	0.0%	663016	3	4	28.6%
Hf	662959	4	4	0.0%	662979	5	5	0.0%	662999	4	4	0.0%	663016	4	4	0.0%
Ho	662959	0.60	0.54	10.5%	662979	0.515	0.513	0.4%	662999	0.66	0.66	0.0%	663016	0.47	0.47	0.0%
In	662959	< 0.2	< 0.2	0.0%	662979	< 0.2	< 0.2	0.0%	662999	< 0.2	< 0.2	0.0%	663016	< 0.2	< 0.2	0.0%
K	662959	1.88	1.89	0.5%	662979	1.83	1.88	2.7%	662999	1.55	1.53	1.3%	663016	1.63	1.68	3.0%
La	662959	22.6	20.3	10.7%	662979	23.8	26.3	10.0%	662999	34.0	37.3	9.3%	663016	25.9	25.6	1.2%
Li	662959	24	23	4.3%	662979	27	27	0.0%	662999	31	31	0.0%	663016	16	21	27.0%
Lu	662959	0.227	0.214	5.9%	662979	0.21	0.21	0.0%	662999	0.21	0.218	3.7%	663016	0.207	0.201	2.9%
Mg	662959	0.748	0.741	0.9%	662979	0.753	0.781	3.7%	662999	0.60	0.590	1.7%	663016	0.480	0.516	7.2%
Mn	662959	812	824	1.5%	662979	2880	2960	2.7%	662999	1140	1150	0.9%	663016	581	599	3.1%
Mo	662959	4	4	0.0%	662979	2	2	0.0%	662999	2	2	0.0%	663016	< 2	< 2	0.0%
Nb	662959	12	12	0.0%	662979	11	11	0.0%	662999	12	12	0.0%	663016	12	12	0.0%
Nd	662959	19.1	17.2	10.5%	662979	19.9	21.8	9.1%	662999	28.9	32.8	12.6%	663016	21.5	19.5	9.8%
Ni	662959	21	20	4.9%	662979	26	26	0.0%	662999	18	19	5.4%	663016	15	16	6.5%
P	662959	0.07	0.07	0.0%	662979	0.053	0.058	9.0%	662999	0.09	0.09	0.0%	663016	0.07	0.07	0.0%
Pb	662959	18	17	5.7%	662979	18	17	5.7%	662999	13	14	7.4%	663016	13	13	0.0%
Pr	662959	5.11	4.52	12.3%	662979	5.40	5.95	9.7%	662999	7.86	8.50	7.8%	663016	5.87	5.45	7.4%
Rb	662959	84.8	86.1	1.5%	662979	75.2	73.7	2.0%	662999	61.4	62.2	1.3%	663016	70.5	71.5	1.4%
S	662959	< 0.01	< 0.01	0.0%	662979	< 0.01	< 0.01	0.0%	662999	< 0.01	0.01		663016	< 0.01	< 0.01	0.0%



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Sb	662959	1.03	1.12	8.4%	662979	1.3	1.3	0.0%	662999	0.5	0.4		663016	0.62	0.70	12.1%
Sc	662959	10	10	0.0%	662979	9	10	10.5%	662999	10	10	0.0%	663016	7	7	0.0%
Si	662959	26.5	26.0	1.9%	662979	26.9	27.7	2.9%	662999	22.9	23.0	0.4%	663016	27.6	28.1	1.8%
Sm	662959	3.53	3.13	12.0%	662979	3.6	4.0	10.5%	662999	4.7	5.0	6.2%	663016	3.62	3.44	5.1%
Sn	662959	1	1	0.0%	662979	2	3		662999	1	< 1		663016	2	1	
Sr	662959	119	120	0.8%	662979	98.0	102	4.0%	662999	102	98.7	3.3%	663016	83.8	85.0	1.4%
Ta	662959	< 0.5	< 0.5	0.0%	662979	< 0.5	< 0.5	0.0%	662999	< 0.5	< 0.5	0.0%	663016	0.62	0.65	4.7%
Tb	662959	0.48	0.45	6.5%	662979	0.436	0.435	0.2%	662999	0.55	0.62	12.0%	663016	0.41	0.41	0.0%
Th	662959	11.7	10.1	14.7%	662979	9.7	9.7	0.0%	662999	12.8	14.2	10.4%	663016	9.0	8.3	8.1%
Ti	662959	0.34	0.34	0.0%	662979	0.29	0.30	3.4%	662999	0.30	0.30	0.0%	663016	0.285	0.295	3.4%
Tl	662959	1.1	1.1	0.0%	662979	1.1	1.0	9.5%	662999	1.2	1.09	9.6%	663016	< 0.5	< 0.5	0.0%
Tm	662959	0.23	0.23	0.0%	662979	0.210	0.217	3.3%	662999	0.27	0.27	0.0%	663016	0.195	0.197	1.0%
U	662959	3.47	3.41	1.7%	662979	3.46	3.46	0.0%	662999	2.90	3.29	12.6%	663016	2.51	2.52	0.4%
V	662959	116	111	4.4%	662979	108	112	3.6%	662999	85	85	0.0%	663016	76	78	2.6%
W	662959	1	1	0.0%	662979	1	1	0.0%	662999	< 1	< 1	0.0%	663016	1	1	0.0%
Y	662959	16.4	16.2	1.2%	662979	13.0	14.0	7.4%	662999	17.1	18.8	9.5%	663016	12.5	12.6	0.8%
Yb	662959	1.7	1.5	12.5%	662979	1.6	1.5	6.5%	662999	1.7	1.6	6.1%	663016	1.3	1.3	0.0%
Zn	662959	68	67	1.5%	662979	96	94	2.1%	662999	67	67	0.0%	663016	46	48	4.3%
Zr	662959	141	147	4.2%	662979	160	157	1.9%	662999	154	138	11.0%	663016	149	168	12.0%

	REPLICATE #9				REPLICATE #10				REPLICATE #11				REPLICATE #12			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	663033	< 1	< 1	0.0%	663052	< 1	< 1	0.0%	663072	< 1	< 1	0.0%	663092	< 1	< 1	0.0%
Al	663033	6.12	5.76	6.1%	663052	4.93	4.98	1.0%	663072	5.40	5.47	1.3%	663092	6.85	6.80	0.7%
As	663033	17	16	6.1%	663052	13	8		663072	8	10	22.2%	663092	17	19	11.1%
B	663033	91	86	5.6%	663052	91	91	0.0%	663072	107	112	4.6%	663092	76	76	0.0%
Ba	663033	486	465	4.4%	663052	428	411	4.1%	663072	435	443	1.8%	663092	542	531	2.1%
Be	663033	< 5	< 5	0.0%	663052	< 5	< 5	0.0%	663072	< 5	< 5	0.0%	663092	< 5	< 5	0.0%
Bi	663033	0.2	0.2	0.0%	663052	0.1	0.1	0.0%	663072	0.1	0.1	0.0%	663092	0.20	0.26	26.1%
Ca	663033	0.307	0.281	8.8%	663052	0.25	0.24	4.1%	663072	0.27	0.26	3.8%	663092	0.39	0.38	2.6%
Cd	663033	< 0.2	< 0.2	0.0%	663052	< 0.2	< 0.2	0.0%	663072	< 0.2	< 0.2	0.0%	663092	< 0.2	< 0.2	0.0%
Ce	663033	52.8	48.5	8.5%	663052	46.7	53.6	13.8%	663072	53.7	56.7	5.4%	663092	47.2	49.0	3.7%
Co	663033	7.24	7.26	0.3%	663052	6.31	6.36	0.8%	663072	10.4	10.2	1.9%	663092	12.9	13.0	0.8%
Cr	663033	0.0067	0.0063	6.2%	663052	0.005	0.005	0.0%	663072	0.006	0.006	0.0%	663092	0.007	0.007	0.0%
Cs	663033	3.9	3.9	0.0%	663052	2.61	2.69	3.0%	663072	2.7	2.6	3.8%	663092	4.25	4.16	2.1%



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Cu	663033	16	15	6.5%	663052	7	7	0.0%	663072	11	11	0.0%	663092	23	22	4.4%
Dy	663033	3.10	2.92	6.0%	663052	2.36	2.49	5.4%	663072	2.55	2.64	3.5%	663092	2.98	2.92	2.0%
Er	663033	1.77	1.76	0.6%	663052	1.37	1.48	7.7%	663072	1.51	1.49	1.3%	663092	1.80	1.77	1.7%
Eu	663033	0.79	0.72	9.3%	663052	0.674	0.687	1.9%	663072	0.73	0.71	2.8%	663092	0.78	0.77	1.3%
Fe	663033	10.7	9.96	7.2%	663052	10.2	10.1	1.0%	663072	12.4	12.5	0.8%	663092	7.92	8.16	3.0%
Ga	663033	16.4	16.3	0.6%	663052	13.6	14.4	5.7%	663072	14.1	14.1	0.0%	663092	17.2	16.6	3.6%
Gd	663033	3.56	3.22	10.0%	663052	2.84	3.26	13.8%	663072	2.98	3.35	11.7%	663092	3.08	3.53	13.6%
Ge	663033	3	3	0.0%	663052	4	4	0.0%	663072	4	4	0.0%	663092	3	3	0.0%
Hf	663033	5	5	0.0%	663052	5	4	22.2%	663072	4	4	0.0%	663092	5	5	0.0%
Ho	663033	0.587	0.572	2.6%	663052	0.470	0.463	1.5%	663072	0.51	0.52	1.9%	663092	0.59	0.59	0.0%
In	663033	< 0.2	< 0.2	0.0%	663052	< 0.2	< 0.2	0.0%	663072	< 0.2	< 0.2	0.0%	663092	< 0.2	< 0.2	0.0%
K	663033	1.84	1.74	5.6%	663052	1.61	1.61	0.0%	663072	1.82	1.85	1.6%	663092	1.97	1.95	1.0%
La	663033	25.5	22.1	14.3%	663052	24.7	27.3	10.0%	663072	26.0	27.7	6.3%	663092	20.4	21.9	7.1%
Li	663033	22	22	0.0%	663052	14	18	25.0%	663072	20	24	18.2%	663092	28	26	7.4%
Lu	663033	0.26	0.25	3.9%	663052	0.22	0.21	4.7%	663072	0.22	0.20	9.5%	663092	0.273	0.254	7.2%
Mg	663033	0.72	0.69	4.3%	663052	0.464	0.474	2.1%	663072	0.557	0.553	0.7%	663092	0.805	0.810	0.6%
Mn	663033	486	469	3.6%	663052	486	492	1.2%	663072	1150	1210	5.1%	663092	955	957	0.2%
Mo	663033	4	4	0.0%	663052	< 2	< 2	0.0%	663072	2	2	0.0%	663092	4	3	28.6%
Nb	663033	15	13	14.3%	663052	12	13	8.0%	663072	12	13	8.0%	663092	13	14	7.4%
Nd	663033	21.8	18.8	14.8%	663052	19.4	21.7	11.2%	663072	21.5	22.1	2.8%	663092	17.6	18.5	5.0%
Ni	663033	19	18	5.4%	663052	15	13	14.3%	663072	18	19	5.4%	663092	26	26	0.0%
P	663033	0.068	0.063	7.6%	663052	0.045	0.045	0.0%	663072	0.05	0.05	0.0%	663092	0.06	0.06	0.0%
Pb	663033	21	20	4.9%	663052	12	12	0.0%	663072	14	14	0.0%	663092	21	21	0.0%
Pr	663033	5.68	4.96	13.5%	663052	5.36	5.88	9.3%	663072	5.74	6.01	4.6%	663092	4.67	4.93	5.4%
Rb	663033	82.7	82.0	0.9%	663052	66.3	68.0	2.5%	663072	77.1	76.5	0.8%	663092	91.7	90.1	1.8%
S	663033	< 0.01	< 0.01	0.0%	663052	< 0.01	< 0.01	0.0%	663072	< 0.01	< 0.01	0.0%	663092	< 0.01	< 0.01	0.0%
Sb	663033	1.2	1.4	15.4%	663052	0.3	0.3	0.0%	663072	0.4	0.4	0.0%	663092	0.8	0.9	11.8%
Sc	663033	10	9	10.5%	663052	8	8	0.0%	663072	8	8	0.0%	663092	10	10	0.0%
Si	663033	28.2	26.3	7.0%	663052	31.3	32.4	3.5%	663072	28.6	29.0	1.4%	663092	28.9	29.2	1.0%
Sm	663033	3.92	3.64	7.4%	663052	3.35	3.52	4.9%	663072	3.6	3.7	2.7%	663092	3.4	3.4	0.0%
Sn	663033	2	2	0.0%	663052	2	2	0.0%	663072	2	3		663092	2	2	0.0%
Sr	663033	109	102	6.6%	663052	93.7	91.4	2.5%	663072	107	107	0.0%	663092	138	138	0.0%
Ta	663033	0.6	0.6	0.0%	663052	0.44	0.56	24.0%	663072	0.5	0.5	0.0%	663092	0.60	0.54	10.5%
Tb	663033	0.51	0.48	6.1%	663052	0.43	0.43	0.0%	663072	0.477	0.486	1.9%	663092	0.51	0.51	0.0%



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Th	663033	10.9	10.1	7.6%	663052	8.0	9.1	12.9%	663072	10.1	10.7	5.8%	663092	10.0	10.3	3.0%
Ti	663033	0.33	0.31	6.3%	663052	0.32	0.32	0.0%	663072	0.30	0.30	0.0%	663092	0.33	0.33	0.0%
Tl	663033	< 0.5	< 0.5	0.0%	663052	< 0.5	< 0.5	0.0%	663072	< 0.5	< 0.5	0.0%	663092	< 0.5	< 0.5	0.0%
Tm	663033	0.26	0.27	3.8%	663052	0.213	0.205	3.8%	663072	0.22	0.22	0.0%	663092	0.256	0.254	0.8%
U	663033	4.07	3.99	2.0%	663052	2.57	2.67	3.8%	663072	2.80	2.70	3.6%	663092	3.79	3.64	4.0%
V	663033	97	93	4.2%	663052	77	78	1.3%	663072	77	79	2.6%	663092	91	91	0.0%
W	663033	2	1		663052	1	1	0.0%	663072	1	1	0.0%	663092	1	1	0.0%
Y	663033	15.9	15.4	3.2%	663052	13.3	13.6	2.2%	663072	14.0	13.8	1.4%	663092	15.4	15.5	0.6%
Yb	663033	1.76	1.72	2.3%	663052	1.47	1.42	3.5%	663072	1.51	1.56	3.3%	663092	1.8	1.8	0.0%
Zn	663033	56	57	1.8%	663052	38	35	8.2%	663072	46	45	2.2%	663092	76	77	1.3%
Zr	663033	176	188	6.6%	663052	177	170	4.0%	663072	161	158	1.9%	663092	165	160	3.1%
		REPLICATE #13				REPLICATE #14				REPLICATE #15				REPLICATE #16		
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	663109	1	1	0.0%	663128	< 1	< 1	0.0%	663147	< 1	< 1	0.0%	663166	< 1	< 1	0.0%
Al	663109	4.99	5.10	2.2%	663128	5.31	5.27	0.8%	663147	5.17	5.54	6.9%	663166	5.27	5.22	1.0%
As	663109	21	13		663128	14	7		663147	9	14		663166	24	17	
B	663109	101	107	5.8%	663128	122	122	0.0%	663147	81	84	3.6%	663166	92	92	0.0%
Ba	663109	366	376	2.7%	663128	349	339	2.9%	663147	435	447	2.7%	663166	434	435	0.2%
Be	663109	< 5	< 5	0.0%	663128	< 5	< 5	0.0%	663147	< 5	< 5	0.0%	663166	< 5	< 5	0.0%
Bi	663109	0.1	0.1	0.0%	663128	0.1	0.1	0.0%	663147	< 0.1	< 0.1	0.0%	663166	0.1	0.1	0.0%
Ca	663109	0.32	0.33	3.1%	663128	0.15	0.15	0.0%	663147	0.413	0.465	11.8%	663166	0.26	0.25	3.9%
Cd	663109	< 0.2	< 0.2	0.0%	663128	< 0.2	< 0.2	0.0%	663147	< 0.2	< 0.2	0.0%	663166	< 0.2	< 0.2	0.0%
Ce	663109	54.1	57.0	5.2%	663128	50.8	50.6	0.4%	663147	45.3	49.3	8.5%	663166	48.9	42.1	14.9%
Co	663109	9.3	9.0	3.3%	663128	11.7	12.3	5.0%	663147	7.3	7.5	2.7%	663166	14.1	13.9	1.4%
Cr	663109	0.0055	0.0060	8.7%	663128	0.006	0.006	0.0%	663147	0.006	0.006	0.0%	663166	0.006	0.006	0.0%
Cs	663109	2.0	2.0	0.0%	663128	2.37	2.29	3.4%	663147	1.1	1.1	0.0%	663166	3.47	2.88	18.6%
Cu	663109	8	9	11.8%	663128	8	7	13.3%	663147	9	9	0.0%	663166	13	13	0.0%
Dy	663109	2.80	2.89	3.2%	663128	2.33	2.31	0.9%	663147	2.07	2.24	7.9%	663166	2.17	2.15	0.9%
Er	663109	1.59	1.52	4.5%	663128	1.24	1.30	4.7%	663147	1.22	1.32	7.9%	663166	1.36	1.32	3.0%
Eu	663109	0.928	0.901	3.0%	663128	0.65	0.68	4.5%	663147	0.600	0.647	7.5%	663166	0.56	0.51	9.3%
Fe	663109	15.1	15.2	0.7%	663128	12.1	12.1	0.0%	663147	11.5	12.3	6.7%	663166	12.5	12.3	1.6%
Ga	663109	12.5	12.1	3.3%	663128	13.2	12.6	4.7%	663147	11.4	12.0	5.1%	663166	14.7	14.8	0.7%
Gd	663109	3.75	3.79	1.1%	663128	3.06	3.08	0.7%	663147	2.78	2.91	4.6%	663166	2.75	2.40	13.6%
Ge	663109	4	4	0.0%	663128	4	4	0.0%	663147	3	4	28.6%	663166	4	3	28.6%



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Hf	663109	4	5	22.2%	663128	4	4	0.0%	663147	4	5	22.2%	663166	4	4	0.0%
Ho	663109	0.55	0.55	0.0%	663128	0.45	0.45	0.0%	663147	0.413	0.417	1.0%	663166	0.42	0.42	0.0%
In	663109	< 0.2	< 0.2	0.0%	663128	< 0.2	< 0.2	0.0%	663147	< 0.2	< 0.2	0.0%	663166	< 0.2	< 0.2	0.0%
K	663109	1.25	1.27	1.6%	663128	1.58	1.55	1.9%	663147	1.39	1.50	7.6%	663166	1.63	1.61	1.2%
La	663109	28.8	29.4	2.1%	663128	25.3	24.9	1.6%	663147	23.3	25.5	9.0%	663166	22.5	19.5	14.3%
Li	663109	18	16	11.8%	663128	22	22	0.0%	663147	13	12	8.0%	663166	24	28	15.4%
Lu	663109	0.21	0.21	0.0%	663128	0.19	0.18	5.4%	663147	0.17	0.17	0.0%	663166	0.185	0.188	1.6%
Mg	663109	0.47	0.48	2.1%	663128	0.489	0.474	3.1%	663147	0.53	0.55	3.7%	663166	0.64	0.63	1.6%
Mn	663109	1010	1000	1.0%	663128	887	851	4.1%	663147	565	599	5.8%	663166	2900	2920	0.7%
Mo	663109	2	2	0.0%	663128	< 2	< 2	0.0%	663147	2	2	0.0%	663166	2	2	0.0%
Nb	663109	15	14	6.9%	663128	13	13	0.0%	663147	10	10	0.0%	663166	12	12	0.0%
Nd	663109	22.9	24.1	5.1%	663128	19.9	20.2	1.5%	663147	18.4	19.5	5.8%	663166	19.8	15.9	21.8%
Ni	663109	15	15	0.0%	663128	21	19	10.0%	663147	14	17	19.4%	663166	18	17	5.7%
P	663109	0.06	0.06	0.0%	663128	0.05	0.05	0.0%	663147	0.055	0.057	3.6%	663166	0.06	0.06	0.0%
Pb	663109	14	14	0.0%	663128	11	11	0.0%	663147	12	13	8.0%	663166	14	15	6.9%
Pr	663109	6.31	6.79	7.3%	663128	5.41	5.44	0.6%	663147	5.04	5.37	6.3%	663166	5.22	4.22	21.2%
Rb	663109	53.2	52.0	2.3%	663128	70.2	67.5	3.9%	663147	48.3	52.0	7.4%	663166	72.7	70.5	3.1%
S	663109	< 0.01	< 0.01	0.0%	663128	< 0.01	< 0.01	0.0%	663147	< 0.01	< 0.01	0.0%	663166	< 0.01	< 0.01	0.0%
Sb	663109	0.4	0.4	0.0%	663128	0.5	0.5	0.0%	663147	0.50	0.41	19.8%	663166	1.4	1.1	24.0%
Sc	663109	7	7	0.0%	663128	8	8	0.0%	663147	7	8	13.3%	663166	8	8	0.0%
Si	663109	27.1	27.3	0.7%	663128	29.1	29.1	0.0%	663147	30.3	32.0	5.5%	663166	29.2	29.3	0.3%
Sm	663109	4.0	4.3	7.2%	663128	3.41	3.56	4.3%	663147	3.01	3.45	13.6%	663166	3.2	2.6	20.7%
Sn	663109	1	1	0.0%	663128	1	2		663147	< 1	1		663166	1	1	0.0%
Sr	663109	129	132	2.3%	663128	85.2	83.9	1.5%	663147	129	140	8.2%	663166	91.0	88.5	2.8%
Ta	663109	0.5	0.5	0.0%	663128	< 0.5	< 0.5	0.0%	663147	< 0.5	< 0.5	0.0%	663166	< 0.5	< 0.5	0.0%
Tb	663109	0.532	0.538	1.1%	663128	0.37	0.41	10.3%	663147	0.36	0.36	0.0%	663166	0.36	0.33	8.7%
Th	663109	8.2	8.5	3.6%	663128	9.07	8.88	2.1%	663147	8.18	8.95	9.0%	663166	9.7	8.1	18.0%
Ti	663109	0.26	0.26	0.0%	663128	0.32	0.32	0.0%	663147	0.282	0.301	6.5%	663166	0.296	0.292	1.4%
Tl	663109	< 0.5	< 0.5	0.0%	663128	< 0.5	< 0.5	0.0%	663147	< 0.5	< 0.5	0.0%	663166	< 0.5	0.6	
Tm	663109	0.23	0.23	0.0%	663128	0.170	0.154	9.9%	663147	0.150	0.166	10.1%	663166	0.17	0.17	0.0%
U	663109	2.49	2.58	3.6%	663128	2.39	2.43	1.7%	663147	2.41	2.60	7.6%	663166	3.01	3.02	0.3%
V	663109	75	77	2.6%	663128	77	74	4.0%	663147	74	76	2.7%	663166	106	102	3.8%
W	663109	1	1	0.0%	663128	1	1	0.0%	663147	1	1	0.0%	663166	1	1	0.0%
Y	663109	14.1	14.1	0.0%	663128	13.9	14.0	0.7%	663147	12.0	13.4	11.0%	663166	13.6	13.1	3.7%



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Yb	663109	1.5	1.5	0.0%	663128	1.3	1.3	0.0%	663147	1.24	1.29	4.0%	663166	1.3	1.3	0.0%
Zn	663109	41	42	2.4%	663128	36	37	2.7%	663147	37	39	5.3%	663166	75	75	0.0%
Zr	663109	148	170	13.8%	663128	146	144	1.4%	663147	141	165	15.7%	663166	159	149	6.5%
	REPLICATE #17				REPLICATE #18				REPLICATE #19							
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	663184	< 1	< 1	0.0%	663204	< 1	< 1	0.0%	663224	< 1	< 1	0.0%				
Al	663184	4.80	4.80	0.0%	663204	6.21	6.12	1.5%	663224	5.12	5.18	1.2%				
As	663184	21	25	17.4%	663204	8	13		663224	13	11	16.7%				
B	663184	129	127	1.6%	663204	93	91	2.2%	663224	87	80	8.4%				
Ba	663184	404	395	2.3%	663204	507	494	2.6%	663224	416	426	2.4%				
Be	663184	< 5	< 5	0.0%	663204	< 5	< 5	0.0%	663224	< 5	< 5	0.0%				
Bi	663184	0.1	0.1	0.0%	663204	0.1	0.1	0.0%	663224	< 0.1	< 0.1	0.0%				
Ca	663184	0.29	0.29	0.0%	663204	0.363	0.353	2.8%	663224	0.251	0.243	3.2%				
Cd	663184	0.37	0.31	17.6%	663204	< 0.2	< 0.2	0.0%	663224	< 0.2	< 0.2	0.0%				
Ce	663184	50.3	55.3	9.5%	663204	61.3	58.9	4.0%	663224	50.2	55.2	9.5%				
Co	663184	11.9	11.6	2.6%	663204	9.5	9.1	4.3%	663224	5.7	5.7	0.0%				
Cr	663184	0.005	0.005	0.0%	663204	0.006	0.006	0.0%	663224	0.005	0.005	0.0%				
Cs	663184	1.57	1.50	4.6%	663204	2.47	2.38	3.7%	663224	2.23	2.27	1.8%				
Cu	663184	20	20	0.0%	663204	14	14	0.0%	663224	5	5	0.0%				
Dy	663184	2.68	2.86	6.5%	663204	2.65	2.72	2.6%	663224	2.25	2.32	3.1%				
Er	663184	1.67	1.67	0.0%	663204	1.52	1.47	3.3%	663224	1.25	1.36	8.4%				
Eu	663184	0.771	0.712	8.0%	663204	0.65	0.66	1.5%	663224	0.586	0.675	14.1%				
Fe	663184	23.4	23.0	1.7%	663204	10.3	10.2	1.0%	663224	8.99	8.72	3.0%				
Ga	663184	12.5	12.3	1.6%	663204	15.4	15.1	2.0%	663224	12.6	12.5	0.8%				
Gd	663184	3.29	3.34	1.5%	663204	3.35	3.28	2.1%	663224	2.86	3.01	5.1%				
Ge	663184	6	6	0.0%	663204	4	3	28.6%	663224	3	3	0.0%				
Hf	663184	4	4	0.0%	663204	5	5	0.0%	663224	5	5	0.0%				
Ho	663184	0.50	0.51	2.0%	663204	0.480	0.489	1.9%	663224	0.441	0.435	1.4%				
In	663184	< 0.2	< 0.2	0.0%	663204	< 0.2	< 0.2	0.0%	663224	< 0.2	< 0.2	0.0%				
K	663184	1.41	1.42	0.7%	663204	1.95	1.91	2.1%	663224	1.61	1.65	2.5%				
La	663184	23.4	25.1	7.0%	663204	29.6	28.3	4.5%	663224	25.4	28.6	11.9%				
Li	663184	16	18	11.8%	663204	25	23	8.3%	663224	22	21	4.7%				
Lu	663184	0.23	0.24	4.3%	663204	0.198	0.215	8.2%	663224	0.20	0.19	5.1%				
Mg	663184	0.434	0.441	1.6%	663204	0.68	0.66	3.0%	663224	0.47	0.47	0.0%				



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Mn	663184	2300	2170	5.8%	663204	678	674	0.6%	663224	402	404	0.5%				
Mo	663184	2	2	0.0%	663204	3	2		663224	< 2	< 2	0.0%				
Nb	663184	10	11	9.5%	663204	14	13	7.4%	663224	11	10	9.5%				
Nd	663184	20.4	21.0	2.9%	663204	22.8	22.9	0.4%	663224	18.3	20.7	12.3%				
Ni	663184	19	19	0.0%	663204	20	20	0.0%	663224	16	13	20.7%				
P	663184	0.06	0.06	0.0%	663204	0.04	0.04	0.0%	663224	0.045	0.047	4.3%				
Pb	663184	13	14	7.4%	663204	15	15	0.0%	663224	12	11	8.7%				
Pr	663184	5.62	5.93	5.4%	663204	6.77	6.59	2.7%	663224	5.41	6.05	11.2%				
Rb	663184	55.0	55.1	0.2%	663204	77.0	76.5	0.7%	663224	64.8	66.1	2.0%				
S	663184	< 0.01	< 0.01	0.0%	663204	< 0.01	< 0.01	0.0%	663224	< 0.01	< 0.01	0.0%				
Sb	663184	1.51	1.12	29.7%	663204	1.08	0.94	13.9%	663224	0.86	0.65	27.8%				
Sc	663184	9	9	0.0%	663204	10	9	10.5%	663224	7	7	0.0%				
Si	663184	24.6	24.5	0.4%	663204	31.7	31.2	1.6%	663224	32.4	32.4	0.0%				
Sm	663184	3.5	4.0	13.3%	663204	3.90	4.26	8.8%	663224	3.42	3.49	2.0%				
Sn	663184	1	2		663204	1	1	0.0%	663224	1	1	0.0%				
Sr	663184	93.8	92.8	1.1%	663204	129	128	0.8%	663224	91.0	92.1	1.2%				
Ta	663184	< 0.5	< 0.5	0.0%	663204	< 0.5	< 0.5	0.0%	663224	< 0.5	< 0.5	0.0%				
Tb	663184	0.44	0.44	0.0%	663204	0.45	0.44	2.2%	663224	0.373	0.354	5.2%				
Th	663184	7.99	8.96	11.4%	663204	12.9	13.5	4.5%	663224	9.5	9.3	2.1%				
Ti	663184	0.25	0.25	0.0%	663204	0.34	0.34	0.0%	663224	0.28	0.28	0.0%				
Tl	663184	< 0.5	< 0.5	0.0%	663204	0.52	0.59	12.6%	663224	< 0.5	< 0.5	0.0%				
Tm	663184	0.22	0.22	0.0%	663204	0.212	0.219	3.2%	663224	0.18	0.15	18.2%				
U	663184	3.71	3.72	0.3%	663204	3.04	2.99	1.7%	663224	2.57	2.57	0.0%				
V	663184	117	118	0.9%	663204	87	85	2.3%	663224	65	66	1.5%				
W	663184	2	1		663204	1	2		663224	2	1					
Y	663184	15.1	15.6	3.3%	663204	14.8	14.5	2.0%	663224	12.0	11.6	3.4%				
Yb	663184	1.62	1.68	3.6%	663204	1.5	1.5	0.0%	663224	1.4	1.4	0.0%				
Zn	663184	56	55	1.8%	663204	50	50	0.0%	663224	40	37	7.8%				
Zr	663184	144	156	8.0%	663204	163	176	7.7%	663224	155	162	4.4%				



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(201-378) Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)				CRM #3 (ref.GBM998-10)				CRM #4 (ref.WMG-1a)			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Ag													3.03	3.07	101%	90% - 110%
Al	10.95	11.26	103%	90% - 110%	8.47	8.61	102%	90% - 110%					4.75	4.93	104%	90% - 110%
As					26	23	90%	90% - 110%	25	24.0	96%	90% - 110%				
Ba	340	357	105%	90% - 110%	540	546	101%	90% - 110%					216	228	106%	90% - 110%
Be	2.6	2.6	101%	90% - 110%	4.0	3.4	86%	90% - 110%								
Ca	5.72	5.88	103%	90% - 110%	0.907	0.938	103%	90% - 110%					10.06	10.59	105%	90% - 110%
Ce	122	129	106%	90% - 110%	98	107	109%	90% - 110%								
Co	2.8	2.5	91%	90% - 110%	15	14	96%	90% - 110%	1202	1230	102%	90% - 110%	191	204	107%	90% - 110%
Cr													0.0804	0.0826	103%	90% - 110%
Cs	1.5	1.6	110%	90% - 110%												
Cu					150	161	107%	90% - 110%	15414	15258	99%	90% - 110%	7120	7616	107%	90% - 110%
Dy	18.2	19.9	109%	90% - 110%									2.291	2.277	99%	90% - 110%
Er	14.2	15.6	110%	90% - 110%	3.7	4.0	108%	90% - 110%								
Eu	2.0	2.05	102%	90% - 110%												
Fe	4.34	4.40	101%	90% - 110%	3.77	4.00	106%	90% - 110%					12.71	13.46	106%	90% - 110%
Ga	35	37	106%	90% - 110%												
Gd	14	15	110%	90% - 110%												
Hf	10.6	11	104%	90% - 110%	11	11	96%	90% - 110%								
Ho	4.3	4.7	109%	90% - 110%												
K	1.37	1.41	103%	90% - 110%	2.55	2.5	98%	90% - 110%					0.1021	0.101	99%	90% - 110%
La	58	60	104%	90% - 110%	44	48	109%	90% - 110%					8.47	8.22	97%	90% - 110%
Li	37	40	107%	90% - 110%	47	53	113%	90% - 110%								
Lu	2.1	2.3	110%	90% - 110%	0.6	0.6	106%	90% - 110%								
Mg	0.325	0.327	101%	90% - 110%	1.1	1.1	101%	90% - 110%					7.41	7.69	104%	90% - 110%
Mn	836	867	104%	90% - 110%	780	825	106%	90% - 110%								
Mo					14	13	92%	90% - 110%					2.49	2.46	99%	90% - 110%
Nb	13	13	100%	90% - 110%	20	19	94%	90% - 110%								
Nd	57	62	109%	90% - 110%									9.41	8.93	95%	90% - 110%
Ni	9	7	75%	90% - 110%	32	35	109%	90% - 110%	23610	23284	99%	90% - 110%	2480	2619	106%	90% - 110%
P													0.0731	0.0798	109%	90% - 110%
Pb	10	10	99%	90% - 110%	31	33.0	107%	90% - 110%	41	40.0	98%	90% - 110%				



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Pr	15.0	16.3	109%	90% - 110%												
Rb	55	58	106%	90% - 110%	144	149	103%	90% - 110%								
Sb					0.8	0.7	92%	90% - 110%								
Sc	1.1	0.8	76%	90% - 110%	12	13	107%	90% - 110%					21.33	22.65	106%	90% - 110%
Si	23.3	22	94%	90% - 110%	28.4	27.8	98%	90% - 110%					18.27	17.87	98%	90% - 110%
Sm	12.7	12.9	101%	90% - 110%	7.4	8.1	109%	90% - 110%					2.211	2.149	97%	90% - 110%
Sn	7.1	7.8	110%	90% - 110%												
Sr	1191	1211	102%	90% - 110%	144	152	106%	90% - 110%					39.0	34.5	89%	90% - 110%
Tb	2.6	2.9	110%	90% - 110%	1.2	1.3	104%	90% - 110%								
Th	1.4	1.2	86%	90% - 110%	18.4	20.3	110%	90% - 110%					1.07	1.18	110%	90% - 110%
Ti	0.172	0.178	104%	90% - 110%	0.527	0.546	104%	90% - 110%					0.419	0.446	106%	90% - 110%
Tm	2.3	2.5	110%	90% - 110%												
U	0.8	0.7	91%	90% - 110%	5.7	5.9	103%	90% - 110%								
V	8	8	101%	90% - 110%	77	79	102%	90% - 110%					158	161	102%	90% - 110%
W					5	5	106%	90% - 110%								
Y	119	123	103%	90% - 110%	40	38	95%	90% - 110%					12.67	13.76	109%	90% - 110%
Yb	14.8	15.4	104%	90% - 110%												
Zn	93	93	100%	90% - 110%	130	131	101%	90% - 110%	90	88	97%	90% - 110%	112	123	110%	90% - 110%
Zr	517	570	110%	90% - 110%	390	372	95%	90% - 110%								
	CRM #5 (ref.SY-4)				CRM #6 (ref.Till-2)				CRM #7 (ref.GBM998-10)				CRM #8 (ref.WMG-1a)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Ag													3.03	3.28	108%	90% - 110%
Al	10.95	11.74	107%	90% - 110%	8.47	8.8	104%	90% - 110%					4.75	5	105%	90% - 110%
As					26	29	111%	90% - 110%	25	25	100%	90% - 110%				
Ba	340	371	109%	90% - 110%	540	546	101%	90% - 110%					216	230	106%	90% - 110%
Be	2.6	3	117%	90% - 110%	4.0	3.4	86%	90% - 110%								
Ca	5.72	6.02	105%	90% - 110%	0.907	0.958	106%	90% - 110%					10.06	10.29	102%	90% - 110%
Ce	122	132	109%	90% - 110%	98	105	108%	90% - 110%								
Co	2.8	2.4	85%	90% - 110%	15	14	96%	90% - 110%	1202	1200	100%	90% - 110%	191	209	109%	90% - 110%
Cr													0.0804	0.0837	104%	90% - 110%
Cs	1.5	1.6	110%	90% - 110%												
Cu					150	161	108%	90% - 110%	15414	15114	98%	90% - 110%	7120	7695	108%	90% - 110%
Dy	18.2	20	110%	90% - 110%									2.291	2.367	103%	90% - 110%
Er	14.2	15.4	108%	90% - 110%	3.7	3.9	106%	90% - 110%								



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Eu	2.0	2.06	103%	90% - 110%	1.0	1.12	112%	90% - 110%								
Fe	4.34	4.65	107%	90% - 110%	3.77	4.14	110%	90% - 110%					12.71	13.2	104%	90% - 110%
Ga	35	38	107%	90% - 110%												
Gd	14	15	109%	90% - 110%												
Hf	10.6	11.8	111%	90% - 110%	11	10	91%	90% - 110%								
Ho	4.3	4.7	110%	90% - 110%												
K	1.37	1.45	106%	90% - 110%	2.55	2.52	99%	90% - 110%					0.1021	0.111	108%	90% - 110%
La	58	60	104%	90% - 110%	44	45	103%	90% - 110%					8.47	7.97	94%	90% - 110%
Li	37	40	109%	90% - 110%	47	51	109%	90% - 110%								
Lu	2.1	2.3	109%	90% - 110%	0.6	0.6	97%	90% - 110%								
Mg	0.325	0.336	103%	90% - 110%	1.1	1.1	102%	90% - 110%					7.41	7.75	105%	90% - 110%
Mn	836	913	109%	90% - 110%	780	845	108%	90% - 110%								
Mo					14	14	103%	90% - 110%					2.49	3.06	123%	90% - 110%
Nb	13	13	103%	90% - 110%	20	18	90%	90% - 110%								
Nd	57	62	110%	90% - 110%									9.41	9.29	99%	90% - 110%
Ni	9	8	92%	90% - 110%	32	36	111%	90% - 110%	23610	22158	94%	90% - 110%	2480	2564	103%	90% - 110%
P													0.0731	0.0797	109%	90% - 110%
Pb	10	10	98%	90% - 110%	31	32	104%	90% - 110%	41	40	96%	90% - 110%				
Pr	15.0	16	107%	90% - 110%												
Rb	55	58	105%	90% - 110%	144	146	102%	90% - 110%								
Sb					0.8	0.8	102%	90% - 110%								
Sc					12	13	107%	90% - 110%					21.33	23.01	108%	90% - 110%
Si	23.3	23.2	100%	90% - 110%	28.4	28.5	100%	90% - 110%					18.27	17.7	97%	90% - 110%
Sm	12.7	13.6	107%	90% - 110%	7.4	7.9	107%	90% - 110%					2.211	2.306	104%	90% - 110%
Sn	7.1	7.5	106%	90% - 110%												
Sr	1191	1237	104%	90% - 110%	144	156	108%	90% - 110%					39.0	34.8	89%	90% - 110%
Tb	2.6	2.8	107%	90% - 110%	1.2	1.2	97%	90% - 110%								
Th	1.4	1.4	102%	90% - 110%	18.4	18.8	102%	90% - 110%					1.07	1.16	108%	90% - 110%
Ti	0.172	0.186	108%	90% - 110%	0.527	0.556	105%	90% - 110%					0.419	0.451	108%	90% - 110%
Tm	2.3	2.5	107%	90% - 110%												
U	0.8	0.8	106%	90% - 110%	5.7	5.4	95%	90% - 110%								
V	8	8	105%	90% - 110%	77	80	104%	90% - 110%					158	165	104%	90% - 110%
W					5	5	103%	90% - 110%								
Y	119	124	104%	90% - 110%	40	39	97%	90% - 110%					12.67	11.73	93%	90% - 110%



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Yb	14.8	16.2	110%	90% - 110%												
Zn	93	99	107%	90% - 110%	130	133	103%	90% - 110%	90	84	93%	90% - 110%	112	123	110%	90% - 110%
Zr	517	553	107%	90% - 110%	390	346	89%	90% - 110%								
	CRM #9 (ref.SY-4)				CRM #10 (ref.Till-2)				CRM #11 (ref.WMG-1a)				CRM #12 (ref.GTS-2a)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Ag									3.03	3.19	105%	90% - 110%				
Al	10.95	11.41	104%	90% - 110%	8.47	8.7	103%	90% - 110%					6.94	7.46	107%	90% - 110%
As									5.99	6.42	107%	90% - 110%				
Ba	340	348	102%	90% - 110%	540	545	101%	90% - 110%								
Be	2.6	2.9	112%	90% - 110%												
Ca	5.72	5.88	103%	90% - 110%	0.907	0.946	104%	90% - 110%					4.01	4.21	105%	90% - 110%
Ce	122	132	108%	90% - 110%												
Co	2.8	2.6	92%	90% - 110%					191	199	104%	90% - 110%				
Cs	1.5	1.4	96%	90% - 110%												
Cu					150	161	107%	90% - 110%								
Dy	18.2	19.7	108%	90% - 110%					2.291	2.323	101%	90% - 110%				
Er	14.2	15.5	109%	90% - 110%												
Eu	2.0	2.08	104%	90% - 110%												
Fe	4.34	4.6	106%	90% - 110%	3.77	4.07	108%	90% - 110%					7.56	8.17	108%	90% - 110%
Ga	35	37	105%	90% - 110%												
Gd	14	15	108%	90% - 110%												
Hf	10.6	11.6	109%	90% - 110%												
Ho	4.3	4.7	109%	90% - 110%												
K	1.37	1.42	104%	90% - 110%	2.55	2.49	97%	90% - 110%					2.02	2.07	102%	90% - 110%
La	58	61	105%	90% - 110%					8.47	8.49	100%	90% - 110%				
Li	37	38	103%	90% - 110%	47	50	107%	90% - 110%								
Lu	2.1	2.2	104%	90% - 110%												
Mg	0.325	0.324	100%	90% - 110%	1.1	1.1	102%	90% - 110%					2.41	2.62	109%	90% - 110%
Mn	836	894	107%	90% - 110%	780	839	108%	90% - 110%								
Mo									2.49	2.33	94%	90% - 110%				
Nb	13	13	99%	90% - 110%												
Nd	57	61	106%	90% - 110%					9.41	9.19	98%	90% - 110%				
Ni	9	7	82%	90% - 110%	32	35	109%	90% - 110%								
Pb	10	10	102%	90% - 110%												



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Pr	15.0	15.6	104%	90% - 110%												
Rb	55	55	99%	90% - 110%												
Sc					12	13	107%	90% - 110%								
Si	23.3	22.5	96%	90% - 110%	28.4	28.2	99%	90% - 110%					23.65	23.81	101%	90% - 110%
Sm	12.7	13.6	107%	90% - 110%					2.211	2.199	99%	90% - 110%				
Sn	7.1	7.6	107%	90% - 110%												
Sr	1191	1206	101%	90% - 110%	144	155	108%	90% - 110%								
Tb	2.6	2.9	110%	90% - 110%												
Th	1.4	1.4	102%	90% - 110%					1.07	1.05	98%	90% - 110%				
Ti	0.172	0.181	105%	90% - 110%	0.527	0.549	104%	90% - 110%								
Tm	2.3	2.5	110%	90% - 110%												
U	0.8	0.9	110%	90% - 110%												
V	8	8	103%	90% - 110%	77	79	103%	90% - 110%								
Y	119	119	100%	90% - 110%					12.67	12.45	98%	90% - 110%				
Yb	14.8	16.2	110%	90% - 110%												
Zn	93	99	107%	90% - 110%	130	133	102%	90% - 110%								
Zr	517	534	103%	90% - 110%												
	CRM #13 (ref.Till-2)				CRM #14 (ref.WMG-1a)				CRM #15 (ref.SY-4)				CRM #16 (ref.Till-2)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Ag					3.03	3.31	109%	90% - 110%								
Al					4.75	4.87	103%	90% - 110%	10.95	11.39	104%	90% - 110%	8.47	8.6	102%	90% - 110%
As	26	25	97%	90% - 110%	5.99	6.67	111%	90% - 110%								
Ba					216	222	103%	90% - 110%	340	349	103%	90% - 110%	540	536	99%	90% - 110%
Be	4.0	3.5	88%	90% - 110%					2.6	3.1	118%	90% - 110%	4.0	3.7	92%	90% - 110%
Ca					10.06	10.26	102%	90% - 110%	5.72	5.88	103%	90% - 110%	0.907	0.915	101%	90% - 110%
Ce	98	103	105%	90% - 110%					122	129	106%	90% - 110%	98	102	104%	90% - 110%
Co	15	14	95%	90% - 110%	191	204	107%	90% - 110%	2.8	2.6	94%	90% - 110%	15	15	98%	90% - 110%
Cr					0.0804	0.0815	101%	90% - 110%								
Cs									1.5	1.7	116%	90% - 110%				
Cu					7120	7593	107%	90% - 110%					150	157	105%	90% - 110%
Dy					2.291	2.536	111%	90% - 110%	18.2	19.6	107%	90% - 110%				
Er	3.7	4.0	108%	90% - 110%					14.2	15.4	108%	90% - 110%	3.7	4.0	108%	90% - 110%
Eu									2.0	2.15	107%	90% - 110%				
Fe					12.71	13.2	104%	90% - 110%	4.34	4.44	102%	90% - 110%	3.77	3.94	105%	90% - 110%



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Ga									35	39	110%	90% - 110%				
Gd									14	16	112%	90% - 110%				
Hf	11	10	92%	90% - 110%					10.6	11.6	109%	90% - 110%	11	12	105%	90% - 110%
Ho									4.3	4.7	110%	90% - 110%				
K					0.1021	0.0924	90%	90% - 110%	1.37	1.41	103%	90% - 110%	2.55	2.43	95%	90% - 110%
La	44	45	102%	90% - 110%	8.47	7.66	90%	90% - 110%	58	60	104%	90% - 110%	44	48	110%	90% - 110%
Li									37	39	106%	90% - 110%	47	50	106%	90% - 110%
Lu	0.6	0.6	102%	90% - 110%					2.1	2.3	109%	90% - 110%	0.6	0.7	114%	90% - 110%
Mg					7.41	7.61	103%	90% - 110%	0.325	0.325	100%	90% - 110%	1.1	1.1	102%	90% - 110%
Mn									836	886	106%	90% - 110%	780	827	106%	90% - 110%
Mo	14	15	104%	90% - 110%	2.49	2.43	97%	90% - 110%					14	14	97%	90% - 110%
Nb	20	19	94%	90% - 110%					13	14	104%	90% - 110%	20	19	94%	90% - 110%
Nd					9.41	9.43	100%	90% - 110%	57	62	109%	90% - 110%				
Ni					2480	2588	104%	90% - 110%	9	8	85%	90% - 110%	32	39	120%	90% - 110%
P					0.0731	0.0733	100%	90% - 110%								
Pb	31	33	107%	90% - 110%					10	10	103%	90% - 110%	31	35	112%	90% - 110%
Pr									15.0	15.8	106%	90% - 110%				
Rb	144	149	103%	90% - 110%					55	57	104%	90% - 110%	144	154	107%	90% - 110%
Sb	0.8	0.7	83%	90% - 110%									0.8	0.6	72%	90% - 110%
Sc					21.33	22.38	105%	90% - 110%					12	13	105%	90% - 110%
Si					18.27	17.74	97%	90% - 110%	23.3	23.1	99%	90% - 110%	28.4	28.6	101%	90% - 110%
Sm	7.4	7.8	106%	90% - 110%	2.211	2.182	99%	90% - 110%	12.7	14	110%	90% - 110%	7.4	8.0	108%	90% - 110%
Sn									7.1	8.4	118%	90% - 110%				
Sr					39.0	35.6	91%	90% - 110%	1191	1220	102%	90% - 110%	144	152	105%	90% - 110%
Ta	1.9	1.8	95%	90% - 110%					0.9	0.7	83%	90% - 110%	1.9	1.8	96%	90% - 110%
Tb	1.2	1.2	103%	90% - 110%					2.6	2.8	107%	90% - 110%	1.2	1.3	111%	90% - 110%
Th	18.4	18.5	101%	90% - 110%	1.07	1.15	107%	90% - 110%	1.4	1.3	92%	90% - 110%	18.4	20	108%	90% - 110%
Ti					0.419	0.439	105%	90% - 110%	0.172	0.18	104%	90% - 110%	0.527	0.541	103%	90% - 110%
Tm									2.3	2.4	106%	90% - 110%				
U	5.7	5.3	94%	90% - 110%					0.8	0.9	108%	90% - 110%	5.7	5.9	103%	90% - 110%
V					158	162	103%	90% - 110%	8	9	110%	90% - 110%	77	80	104%	90% - 110%
W	5	5	109%	90% - 110%									5	6	113%	90% - 110%
Y	40	38	94%	90% - 110%	12.67	12.46	98%	90% - 110%	119	120	100%	90% - 110%	40	39	97%	90% - 110%
Yb									14.8	15.8	106%	90% - 110%				



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Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Zn					112	113	101%	90% - 110%	93	93	100%	90% - 110%	130	123	94%	90% - 110%
Zr	390	372	95%	90% - 110%					517	573	110%	90% - 110%	390	395	101%	90% - 110%
	CRM #17 (ref.GTS-2a)				CRM #18 (ref.WMG-1a)				CRM #19 (ref.SY-4)				CRM #20 (ref.WMG-1a)			
Al	6.94	7.27	105%	90% - 110%									4.75	4.93	104%	90% - 110%
Ba													216	225	104%	90% - 110%
Be									2.6	2.7	104%	90% - 110%				
Ca	4.01	4.24	106%	90% - 110%									10.06	10.3	102%	90% - 110%
Ce									122	127	104%	90% - 110%				
Co					191	210	110%	90% - 110%	2.8	2.4	87%	90% - 110%				
Cr													0.0804	0.0817	102%	90% - 110%
Cs									1.5	1.6	109%	90% - 110%				
Cu													7120	7665	108%	90% - 110%
Dy					2.291	2.212	97%	90% - 110%	18.2	18.9	104%	90% - 110%				
Er									14.2	14.2	100%	90% - 110%				
Eu									2.0	1.91	95%	90% - 110%				
Fe	7.56	8.06	107%	90% - 110%									12.71	12.9	101%	90% - 110%
Ga									35	36	103%	90% - 110%				
Gd									14	15	108%	90% - 110%				
Hf									10.6	10.8	102%	90% - 110%				
Ho									4.3	4.4	102%	90% - 110%				
K	2.02	2.01	100%	90% - 110%									0.1021	0.1042	102%	90% - 110%
La					8.47	8.28	98%	90% - 110%	58	58	100%	90% - 110%				
Lu									2.1	2.2	107%	90% - 110%				
Mg	2.41	2.56	106%	90% - 110%									7.41	7.68	104%	90% - 110%
Mo					2.49	2.57	103%	90% - 110%								
Nb									13	13	101%	90% - 110%				
Nd					9.41	8.79	93%	90% - 110%	57	59	103%	90% - 110%				
Ni													2480	2679	108%	90% - 110%
P													0.0731	0.0736	101%	90% - 110%
Pb									10	11	109%	90% - 110%				
Pr									15.0	15.5	103%	90% - 110%				
Rb									55	55	99%	90% - 110%				
Sc													21.33	22.32	105%	90% - 110%



CLIENT NAME: LABRADOR IRON MINES LIMITED

ATTENTION TO: Paul Smith

Si	23.65	24.49	104%	90% - 110%									18.27	18.42	101%	90% - 110%
Sm					2.211	2.233	101%	90% - 110%	12.7	13.1	103%	90% - 110%				
Sn									7.1	7.8	110%	90% - 110%				
Sr													39.0	35	90%	90% - 110%
Tb									2.6	2.7	103%	90% - 110%				
Th					1.07	1.18	110%	90% - 110%	1.4	1.3	95%	90% - 110%				
Ti													0.419	0.442	105%	90% - 110%
Tm									2.3	2.2	97%	90% - 110%				
V													158	161	102%	90% - 110%
Y					12.67	13.19	104%	90% - 110%	119	120	101%	90% - 110%				
Yb									14.8	15.2	103%	90% - 110%				
Zn													112	110	98%	90% - 110%
Zr									517	562	109%	90% - 110%				
	CRM #21 (ref.SY-4)				CRM #22 (ref.Tiil-2)				CRM #23 (ref.Tiil-2)				CRM #24 (ref.WMG-1a)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Ag													3.03	3.18	105%	90% - 110%
Al	10.95	11.47	105%	90% - 110%					8.47	8.79	104%	90% - 110%				
As					26	27	102%	90% - 110%					5.99	4.82	80%	90% - 110%
Ba	340	353	104%	90% - 110%					540	552	102%	90% - 110%				
Be					4.0	3.6	90%	90% - 110%								
Ca	5.72	5.99	105%	90% - 110%					0.907	0.954	105%	90% - 110%				
Ce					98	106	109%	90% - 110%								
Co					15	15	101%	90% - 110%					191	209	109%	90% - 110%
Cu									150	164	110%	90% - 110%				
Dy													2.291	2.281	100%	90% - 110%
Er					3.7	3.9	105%	90% - 110%								
Eu					1.0	1.13	112%	90% - 110%								
Fe	4.34	4.39	101%	90% - 110%					3.77	3.93	104%	90% - 110%				
Hf					11	10	93%	90% - 110%								
K	1.37	1.42	104%	90% - 110%					2.55	2.52	99%	90% - 110%				
La					44	47	107%	90% - 110%					8.47	7.58	90%	90% - 110%
Li	37	36	97%	90% - 110%					47	53	112%	90% - 110%				
Lu					0.6	0.5	87%	90% - 110%								
Mg	0.325	0.324	100%	90% - 110%					1.1	1.2	105%	90% - 110%				



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Mn	836	895	107%	90% - 110%					780	835	107%	90% - 110%				
Mo					14	13	91%	90% - 110%					2.49	2.48	99%	90% - 110%
Nb					20	19	95%	90% - 110%								
Nd													9.41	8.55	91%	90% - 110%
Ni	9	7	81%	90% - 110%												
Pb					31	29	94%	90% - 110%								
Rb					144	144	100%	90% - 110%								
Sb					0.8	0.8	98%	90% - 110%								
Sc	1.1	0.8	73%	90% - 110%					12	13	109%	90% - 110%				
Si	23.3	24.3	104%	90% - 110%					28.4	29.7	105%	90% - 110%				
Sm					7.4	8.1	109%	90% - 110%					2.211	2.193	99%	90% - 110%
Sr	1191	1234	104%	90% - 110%					144	157	109%	90% - 110%				
Tb					1.2	1.2	96%	90% - 110%								
Th					18.4	19.5	106%	90% - 110%					1.07	1.13	106%	90% - 110%
Ti	0.172	0.182	106%	90% - 110%					0.527	0.549	104%	90% - 110%				
U					5.7	5.8	102%	90% - 110%								
V	8	8	102%	90% - 110%					77	82	106%	90% - 110%				
W					5	6	116%	90% - 110%								
Y					40	36	90%	90% - 110%					12.67	12.5	99%	90% - 110%
Zn	93	89	96%	90% - 110%					130	117	90%	90% - 110%				
Zr					390	365	94%	90% - 110%								
	CRM #25 (ref.GTS-2a)				CRM #26 (ref.SY-4)				CRM #27 (ref.WMG-1a)				CRM #28 (ref.SY-4)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Al	6.94	7.61	110%	90% - 110%					4.75	5.06	106%	90% - 110%	10.95	11.06	101%	90% - 110%
Ba									216	230	106%	90% - 110%	340	336	99%	90% - 110%
Be					2.6	3.1	120%	90% - 110%								
Ca	4.01	4.38	109%	90% - 110%					10.06	10.43	104%	90% - 110%	5.72	5.92	103%	90% - 110%
Ce					122	132	108%	90% - 110%								
Co					2.8	2.3	83%	90% - 110%								
Cr									0.0804	0.0823	102%	90% - 110%				
Cs					1.5	1.6	108%	90% - 110%								
Cu									7120	7818	110%	90% - 110%				
Dy					18.2	19.9	109%	90% - 110%								
Er					14.2	15.5	109%	90% - 110%								



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Eu					2.0	2.02	101%	90% - 110%								
Fe	7.56	8.13	108%	90% - 110%					12.71	12.9	101%	90% - 110%	4.34	4.20	97%	90% - 110%
Ga					35	37	104%	90% - 110%								
Gd					14	15	108%	90% - 110%								
Hf					10.6	11.3	107%	90% - 110%								
Ho					4.3	4.7	109%	90% - 110%								
K	2.02	2.10	104%	90% - 110%					0.1021	0.112	110%	90% - 110%	1.37	1.34	98%	90% - 110%
La					58	61	105%	90% - 110%								
Li													37	35	96%	90% - 110%
Lu					2.1	2.4	113%	90% - 110%								
Mg	2.41	2.63	109%	90% - 110%					7.41	8	108%	90% - 110%	0.325	0.315	97%	90% - 110%
Mn													836	855	102%	90% - 110%
Nb					13	13	103%	90% - 110%								
Nd					57	59	103%	90% - 110%								
Ni									2480	2696	109%	90% - 110%	9	9	96%	90% - 110%
P									0.0731	0.0753	103%	90% - 110%				
Pb					10	9	90%	90% - 110%								
Pr					15.0	15.9	106%	90% - 110%								
Rb					55	53	97%	90% - 110%								
Sc									21.33	22.75	107%	90% - 110%				
Si	23.65	25.78	109%	90% - 110%					18.27	18.78	103%	90% - 110%	23.3	23.9	102%	90% - 110%
Sm					12.7	13.1	103%	90% - 110%								
Sn					7.1	6.9	97%	90% - 110%								
Sr									39.0	36.5	93%	90% - 110%	1191	1221	102%	90% - 110%
Tb					2.6	2.8	108%	90% - 110%								
Th					1.4	1.2	82%	90% - 110%								
Ti									0.419	0.449	107%	90% - 110%	0.172	0.173	101%	90% - 110%
Tm					2.3	2.4	104%	90% - 110%								
U					0.8	0.7	94%	90% - 110%								
V									158	163	103%	90% - 110%	8	8	95%	90% - 110%
Y					119	115	97%	90% - 110%								
Yb					14.8	16.2	109%	90% - 110%								
Zn									112	107	96%	90% - 110%	93	85	92%	90% - 110%
Zr					517	520	101%	90% - 110%								

Method Summary

CLIENT NAME: LABRADOR IRON MINES LIMITED

AGAT WORK ORDER: 19T536945

PROJECT:

ATTENTION TO: Paul Smith

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12049		ICP-MS
Al	MIN-200-12001/MIN-200-12049		ICP/OES
As	MIN-200-12049		ICP-MS
B	MIN-200-12001/MIN-200-12049		ICP/OES
Ba	MIN-200-12001/MIN-200-12049		ICP/OES
Be	MIN-200-12001/MIN-200-12049		ICP/OES
Bi	MIN-200-12049		ICP-MS
Ca	MIN-200-12001/MIN-200-12049		ICP/OES
Cd	MIN-200-12049		ICP-MS
Ce	MIN-200-12049		ICP-MS
Co	MIN-200-12049		ICP-MS
Cr	MIN-200-12001/MIN-200-12049		ICP/OES
Cs	MIN-200-12049		ICP-MS
Cu	MIN-200-12001/MIN-200-12049		ICP/OES
Dy	MIN-200-12049		ICP-MS
Er	MIN-200-12049		ICP-MS
Eu	MIN-200-12049		ICP-MS
Fe	MIN-200-12001/MIN-200-12049		ICP/OES
Ga	MIN-200-12049		ICP-MS
Gd	MIN-200-12049		ICP-MS
Ge	MIN-200-12049		ICP-MS
Hf	MIN-200-12049		ICP-MS
Ho	MIN-200-12049		ICP-MS
In	MIN-200-12049		ICP-MS
K	MIN-200-12001/MIN-200-12049		ICP/OES
La	MIN-200-12049		ICP-MS
Li	MIN-200-12001/MIN-200-12049		ICP/OES
Lu	MIN-200-12049		ICP-MS
Mg	MIN-200-12001/MIN-200-12049		ICP/OES
Mn	MIN-200-12001/MIN-200-12049		ICP/OES
Mo	MIN-200-12049		ICP-MS
Nb	MIN-200-12049		ICP-MS
Nd	MIN-200-12049		ICP-MS
Ni	MIN-200-12001/MIN-200-12049		ICP/OES
P	MIN-200-12001/MIN-200-12049		ICP/OES
Pb	MIN-200-12049		ICP-MS
Pr	MIN-200-12049		ICP-MS



Method Summary

CLIENT NAME: LABRADOR IRON MINES LIMITED

AGAT WORK ORDER: 19T536945

PROJECT:

ATTENTION TO: Paul Smith

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Rb	MIN-200-12049		ICP-MS
S	MIN-200-12001/MIN-200-12049		ICP/OES
Sb	MIN-200-12049		ICP-MS
Sc	MIN-200-12001/MIN-200-12049		ICP/OES
Si	MIN-200-12001/MIN-200-12049		ICP/OES
Sm	MIN-200-12049		ICP-MS
Sn	MIN-200-12049		ICP-MS
Sr	MIN-200-12001/MIN-200-12049		ICP/OES
Ta	MIN-200-12049		ICP-MS
Tb	MIN-200-12049		ICP-MS
Th	MIN-200-12049		ICP-MS
Ti	MIN-200-12001/MIN-200-12049		ICP/OES
Tl	MIN-200-12049		ICP-MS
Tm	MIN-200-12049		ICP-MS
U	MIN-200-12049		ICP-MS
V	MIN-200-12001/MIN-200-12049		ICP/OES
W	MIN-200-12049		ICP-MS
Y	MIN-200-12049		ICP-MS
Yb	MIN-200-12049		ICP-MS
Zn	MIN-200-12001/MIN-200-12049		ICP/OES
Zr	MIN-200-12049		ICP-MS

