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PROSPECTING REPORT

And

Soil, Stream Sediment and Rock Sampling

And

Historical Drill Collar and Trench Locations

Mining Claims 210854, 229673, 260323, 271057, 556367, 556368, 556369 and 556370

Cardiff Township (G-3044)

Southern Ontario Mining Division

N.T.S. 31E/01,

Provincial Grid Group 31F02G

For

Skead Holdings Ltd.

(Client Number 194897)

Jim Laidlaw, 20 December 2019

Madoc ON

INTRODUCTION

Robert A. MacGregor P.Eng., (client number 162287) engaged Jim Laidlaw of Madoc Ontario to conduct prospecting work that included soil, stream sediment and rock sampling in Cardiff Township (G-3044) on Mining Claims 210854, 229673, 260323, 271057, 556367, 556368, 556369 and 556370, N.T.S. 31E/01, located in the Southern Ontario Mining Division.

CLAIM HOLDER

The claims are held in 100% in the name of Skead Holdings Ltd. (client number 194897).

Field Work – Skead, Cardiff Township Claims - Daily Rate

Field work was performed by Jim Laidlaw and Chris Fouts.

Jim Laidlaw, 307 Riggs Road, Madoc ON K0K 2K0

4 days

26 October, 02, 03 and 26, November 2019; and

Chris Fouts, 29277 Highway 28 South, Bancroft ON K0L 1C0

4 days

26 October, 02, 03 and 26, November 2019

Office Work - Skead, Cardiff Township Claims - Hourly Rate

Office work was performed by Jim Laidlaw.

Jim Laidlaw:

30 hours

17, 18 and 20 December 2019: sample shipping, map and table production and report writing.

Property Access

The Skead Holdings Ltd. mining claims in Cardiff Township are located about 25 km west of Bancroft Ontario and are accessible via Highways 28 South and 118.

At the intersections of Highway 28 South and Highway 62 in Bancroft, turn left onto Highway 28 South, drive about 13 km to Highway 118; turn right and drive about 7.7 km to Adanac Road; turn right here and drive about 0.93 km to Moraine Drive turn left onto this road; and drive about 3.3 km to the intersection with OFSC Trail E, drive on this trail for about 0.24 to a parking area on the right side of the trail located at UTM 17 T 723302 4989102. This parking area is located in the north part of mining claim 561587. Access to the remainder of the property is by foot or ATV trails and compass traverses.

WORK PERFORMED

Prospecting activities that included soil, stream and rock sampling was performed on claims 210854, 229673, 260323, 271057, 280454, 556367, 556368, 556369 and 556370, in Cardiff Township, over a 4 day period on 26 October and 02, 03 and 26, November 2019, by Jim Laidlaw and Chris Fouts.

Mr. MacGregor forwarded several property maps and with instructions specifying the prospecting activity coverages in these mining claims. This work can be considered as reconnaissance in nature.

FIELD WORK

Soil Sampling

A total of 19 soil samples (B horizon) were obtained, sample numbers 138653 to 138671, from 4 widely spaced lines, at sampling station intervals of about 100 m apart. Claims covered in this work are 210854, 229673, 260323, 271057, 556367, 556368, 556369 and 556370.

A shovel and grub-hoe hammer was used to obtain B horizon soil material from depths ranging from 25 to 40 cm in depth. The sample was passed through a 25 mm plastic screen onto a plastic gold pan. Then about 300 grams of this material was collected from the gold pan and emplaced in pre-numbered Kraft sample bags, sealed and stored in a fabrene bag for transport. All tools were thoroughly cleaned prior to collecting the next sample(s).

The field note data collected concurrent to sample collection are: SAMPLE NUMBER, UTME, UTMN, CLAIM, SOIL HORIZON, TERRAIN, SOIL TYPE, OVERBURDEN THICKNESS, COLOUR, SLOPE ASPECT (°), SLOPE DIRECTION (°), DRAINAGE, VEGETATION, STATE and REMARKS.

Stream Sediment

A total of 7 stream sediment samples, sample numbers 138672 to 138678, were collected on claims 229673, 260323, 271057, 280454, 556369 and 556370. The sample material collected was the modern alluvium in active stream beds. Samples of about 3-4 kg were obtained from the sample sites using a shovel to dig and a gold pan to hold the collected materials prior to emplacing these sands and gravels into pre-numbered specially weaved Tyvek-sample bags which promotes water drainage. Field note observations collected at the time of sampling are: SAMPLE NUMBER, UTME, UTMN, CLAIM, SOIL HORIZON, TERRAIN, SLOPE ASPECT (°), SLOPE DIRECTION (°), STATE and DESCRIPTION.

FIELD WORK

Rock Sampling

The collection and descriptions of rock samples was conducted in the course of the prospecting out of outcrop and historic trenched areas. A total of 4 rock grab samples were collected; sample numbers 138679 to 138682; in claims 210854 and 271057. Field note observations collected at the time of sampling are: Sample Number, UTME, UTMN, CLAIM, STRIKE (°), DIP (°), MINERALS, MA, HCl and DESCRIPTION. (Note: MA = magnetic attraction, HCl = Acid test)

Location data for all (sample) sites visited, was gathered by means of a Garmin GPS 76 CSx handheld unit, obtaining long-term averaged coordinate readings per sample site, in UTM coordinates, (Easting (UTME) and Northing (UTMN)), set to Datum NAD 83.

Compass: headings in degrees True and; compass declination set to 12° W.

FIELD WORK

Historic Exploration Features

Several historical exploration features were located in this sampling program.

Diamond Drill Collars

Two of four drill collars drilled in 1955 by Halo Uranium Mines, (Ontario Assessment Files Database reference 31E01SE0106), were located in present claim 229673. Collar locations were obtained using a handheld GPS, obtaining long-term averaged readings over the drill casings.

Drill Hole Number	UTM Location
B-1	17 T 722994 4989783
B-2	17 T 722991 4989749

Trenches

Thirteen of 16 trenches in bedrock/overburden opened up in 1953 by Stratmat Limited, (Ontario Assessment Files Database reference 31E01SE0055), were located in present claim 271057.

Mapping of the these trenches was conducted by obtaining UTM coordinates from the west side of the excavations, and an estimated distance in meters and compass azimuth in degrees was measured and plotted, see Figure 3. A tabulation of the trench site measurements, are included below. All data is preliminary.

TRENCH	UTME	UTMN	DISTANCE	AZIMUTH
1	722816	4990346	8m	70°
2	722847	4990433	22m	58°
3	722834	4990465	12m	70°
4	722827	4990413	18m	108°
5	722830	4990397	14m	75°
6	722823	4990368	5m	100°
7	722813	4990332	18m	60°
8	722814	4990318	15m	65°
9	722811	4990295	12m	55°
10	722822	4990278	8m	75°
11	722828	4990265	10m	50°
12	722834	4990243	7m	65°
13	722838	4990228	8m	75°

Office Work

The office work involved: field map drafting, GPS map inputs, sample descriptions, data compilation, data tabulation, report tables and figures, and final report writing.

The products of this work are listed as the following, for Skead Holdings Ltd. Cardiff Township (G-3044), N.T.S. 31E/01), Claims 210854, 229673, 260323, 271057, 556367, 556368, 556369 and 556370:

Figure 1, Overview Plan Map, Sample Numbers 138653 to 138682, Soil, Stream and Rock Sample Locations In Claims 210854, 229673, 260323, 271057, 280454, 556367, 556368, 556369 and 556370;

Figure 2, Soil Sample Numbers 138653 to 138671, Stream Sediment Sample Numbers 138672 to 138678 and Rock Samples 138679 to 138682 In Claims 210854, 229673, 260323, 271057, 280454, 556367, 556368, 556369 and 556370; and

Figure 3, 13 Historic Trenches Located In Claim 271057).

And

Table 1 - Soil samples 138653 to 138671; Claims 210854, 229673, 260323, 271057, 556367, 556368, 556369 and 556370;

Table 2 - Stream sediment samples 138672 to 138678; Claims 229673, 260323, 271057, 280454, 556369 and 556370;

Table 3 - Rock samples 138679 to 138682.

Sample Shipping

All samples were shipped by Purolator courier, PIN 332105236084, in sealed plastic containers, to Mr. MacGregor's office, in Sault Ste. Marie, Ontario.

Statements

Jim Laidlaw authored this report, table and maps for Mr. Bob MacGregor P.Eng., to be used by Skead Holdings Ltd., for their assessment requirements, in order to hold the Cardiff Township mining claims in good standing.

Jim Laidlaw, prospector-geological technician, conducted the field and office work, and does not hold ***nor*** expects to hold any interest in the aforementioned mining claims, as outlined in this report.

Jim Laidlaw

20 December 2019

Madoc On

Table 1 - Soil samples 138653 to 138671; Claims 210854, 229673, 260323, 271057, 556367, 556368, 556369 and 556370, Skead Holdings Ltd. Cardiff Township (G-3044), N.T.S. 31E/01.

SAMPLE NUMBER	UTME	UTMN	CLAIM	SOIL HORIZON	TERRAIN	SOIL TYPE	OVERBURDEN THICKNESS	COLOUR	SLOPE ASPECT	SLOPE DIRECTION	DRAINAGE	VEGETATION	STATE	REMARKS
138653	722613	4989183	210854	B	Moraine	Sandy-silt	Till pocket>1m	Red-brown	~10°	100°	Well	Deciduous	Natural	Soil with regolith rock material - yellow weathered decrepit metasediments cobbles; felsic and mafic boulders covered slope; open forest.
138654	722572	4989279	210854	B	Moraine	Sandy-silt	Till pocket>1m	Yellow-brown	~5°	100°	Well	Deciduous	Natural	Boulders on surface of metasedimantary composition.
138655	722532	4989396	260323	B	Outcrop	Sandy-silt	Till pocket>1m	Red-brown	>+45°	279°	Well	Con-Dec mixed	Natural	Swamp - low wet area high mineral content in outcrop area; base of ridge with talus pile of feldspar hornblende gneiss, foliated outcrop ridge, ~25 m high; sample taken in swampy linear trending at about 340°.
138656	722503	4989494	260323	B	Moraine	Sandy-silt	Till pocket>1m	Red-brown	>+45°	270°	Well	Con-Dec mixed	Natural	Ridge/Outcrop height: 15 m ridge to the east; setting of sample site on east side of north-south trending swampy linear.
138657	722924	4989682	229673	B	Moraine	Sandy-silt	Till pocket<1m	Red-brown	~15°	115°	Well	Con-Dec mixed	Natural	Outcrop ridges, pegmatitic syenite; sub-angular glacial cobbles; balsam fir blow down area.
138658	722930	4989801	229673	B	Outcrop	Sandy-silt	Till pocket<1m	Red-brown	~10°	30°	Well	Con-Dec mixed	Natural	Site at north end of a topographical linear ridge trending about 210°; hornblende-plagioclase gneiss boulders and decomposed bedrock.
138659	723143	4990067	556370	B	Outcrop	Sandy-silt	Till pocket<1m	Red-brown	~15°	280°	Well	Con-Dec mixed	Natural	Hornblende-plagioclase gneiss bedrock.
138660	723113	4990130	556369	B	Moraine	Sandy-silt	Till pocket>1m	Red-brown	~10°	90°	Well	Con-Dec mixed	Natural	Hornblende-plagioclase gneiss bedrock ridge; modified stream bank, about 15 m west of active stream;
138661	723111	4990226	556369	B	Moraine	Sandy-silt	Till pocket<1m	Yellow-brown	~10°	>+45°	Well	Con-Dec mixed	Natural	Granite gneiss outcrop area; ridged.
138662	723058	4990318	556369	B	Moraine	Sandy-silt	Till pocket<1m	Red-brown	~5°	180°	Well	Con-Dec mixed	Natural	Granite gneiss outcrop area; outcrop highland.
138663	723044	4990423	556369	B	Moraine	Sandy-silt	Till pocket<1m	Red-brown	~5°	260°	Well	Con-Dec mixed	Natural	Granite gneiss outcrop area; outcrop highland.
138664	723033	4990512	556369	B	Moraine	Sandy-silt	Till pocket<1m	Red-brown	~10°	220°	Well	Con-Dec mixed	Natural	Granite gneiss outcrop area; outcrop highland.
138665	723038	4990635	556368	B	Moraine	Sandy-silt	Till pocket>1m	Red-brown	~5°	180°	Well	Deciduous	Natural	Hornblende-plagioclase gneiss bedrock; level area in between outcrop highlands.
138666	723044	4990738	556368	B	Moraine	Sandy-silt	Till pocket>1m	Red-brown	~10°	270°	Poor	Con-Dec mixed	Natural	Hornblende-plagioclase gneiss outcrop; base of ridge; saturated ground, water infills sample site.
138667	722681	4990253	271057	B	Moraine	Sandy-silt	Till pocket>1m	Red-brown	~15°	90°	Well	Deciduous	Natural	Original sample site in low wet area, new site located about 20 m west
138668	722708	4990352	271057	B	Moraine	Sandy-silt	Till pocket>1m	Yellow-brown	~10°	180°	Well	Deciduous	Natural	Hornblende-plagioclase gneiss bedrock and bouldery surface; This site is west of stream sediment sample 138677.
138669	722696	4990459	271057	B	Moraine	Sandy-silt	Till pocket<1m	Red-brown	~20°	90°	Well	Deciduous	Natural	Large granitic like erratics; top of slope.
138670	722710	4990558	556367	B	Moraine	Sandy-silt	Till pocket<1m	Red-brown	~15°	90°	Well	Deciduous	Natural	Large granitic like erratics.
138671	722717	4990657	556367	B	Moraine	Sandy-silt	Till pocket<1m	Red-brown	~20°	90°	Well	Deciduous	Natural	Large granitic like erratics; top of slope; no evidence of past exploration activity in the form of trenching observed along this traverse.

UTM Coordinates, Zone 17 T, NAD 83

Date: October - November 2019

Table 2 - Stream sediment samples 138672 to 138678; Claims 229673, 260323, 271057, 280454, 556369 and 556370 , Skead Holdings Ltd. Cardiff Township (G-3044), N.T.S. 31E/01.

SAMPLE NUMBER	UTME	UTMN	CLAIM	TERRAIN	SLOPE ASPECT	SLOPE DIRECTION	STATE	DESCRIPTION
138672	722265	4989165	260323	Stream bed	-5°	140°	Natural	Active stream about 1 m wide, moderate flow; Silty sandy gravel; mixed conifer/deciduous vegetation; boulder field; sample site taken 50 m downstream from original location due to overgrown pond bottom, no sample material; sample site below a breached beaver dam.
138673	722376	4988986	280454	Stream bed	-3°	165°	Natural	Active stream about 0.5 m wide, moderate flow; silty sandy gravel; sample site taken in a wide grassy area in creek bed.
138674	723114	4990067	553670	Stream bed	-5°	160°	Natural	Fast flowing creek about 2 m wide and about 0.5 m deep; in an open10-20 m wide valley, between outcrop ridges; sample taken from boulder traps; hardwood mixed bush.
138675	723251	4990140	553669	Stream bed	-5°	275°	Natural	Meandering stream at high flow; 1-2 m wide; sample from boulder bar and pothole filled with cobbles sand and gravels; top of 6 m waterfalls.
138676	723302	4990206	553669	Stream bed	-5°	205°	Natural	Stream is shallow, <0.20 m, about 2 to 4 m wide, fast flowing. About 20 m wide flat lying shore; original sample site is in beaver pond; Large boulders in creek bed, organic debris in sample.
138677	722744	4990344	271057	Stream bed	-10°	210°	Natural	Modern alluvium collected from boulder traps in creek bed; Organic debris in sample; 4-6 m wide x 0.10 to 0.50 m deep channel; Steep v-shaped valley bounded by outcrop ridges.
138678	722743	4990051	229673	Stream bed	-10°	200°	Natural	Modern alluvium > 1m incising bedrock; gravel and sand with boulder armoured stream bed; 3 to 6 m wide section of Cope Creek; imbricated boulders armoured creek bed; organic debris in sample; outcrop of amphibolite gneiss, Strike 10 - 20 °, Dip 20° @ 90°, rusty appearance.

UTM Coordinates, Zone 17 T, NAD 83

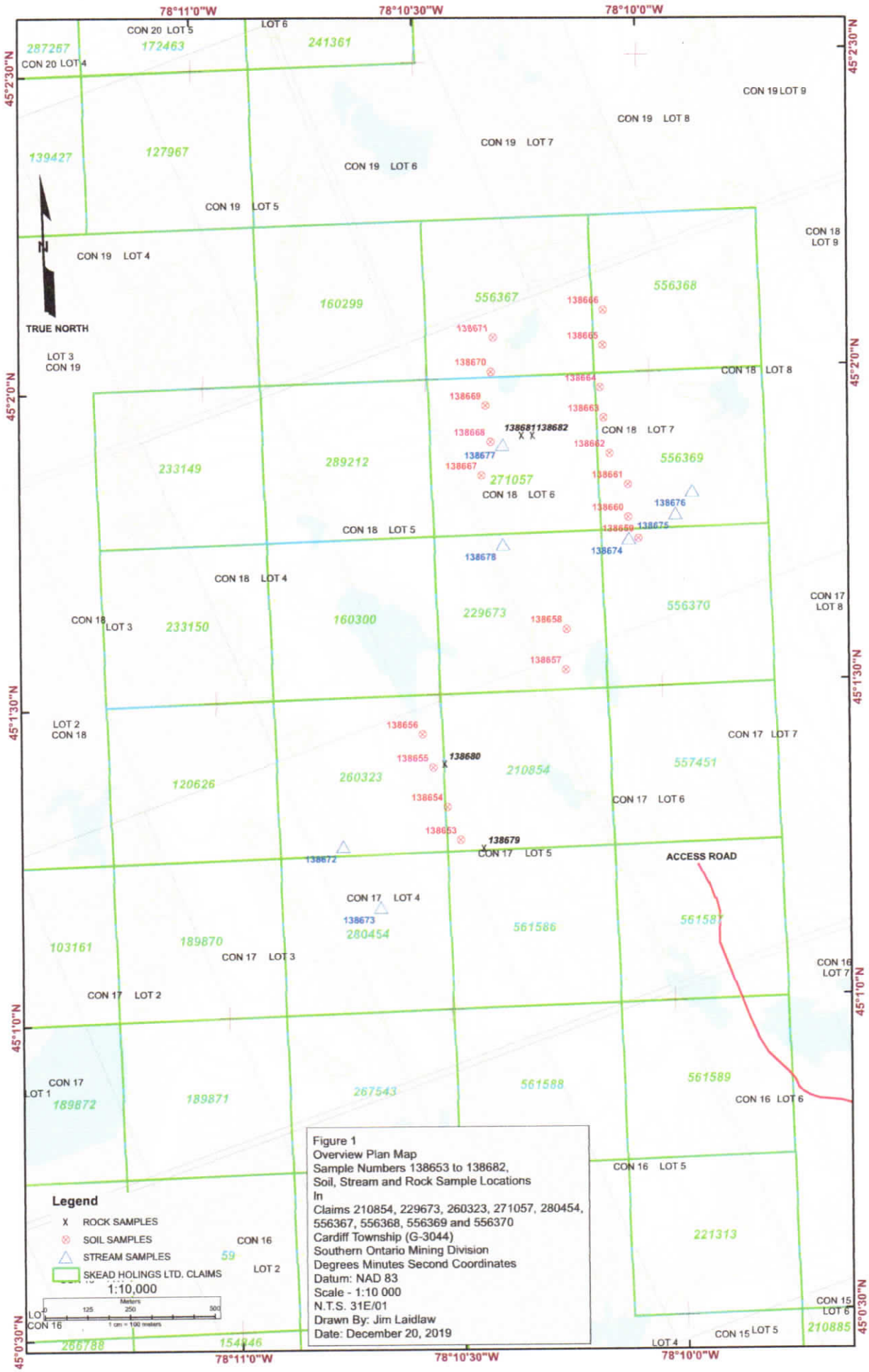
Date: October - November 2019

Table 3 - Rock samples 138679 to 138682; Claims 210854 and 271057, Skead Holdings Ltd. Cardiff Township (G-3044), N.T.S. 31E/01.

SAMPLE NUMBER	UTME	UTMN	CLAIM	STRIKE	DIP	MINERALS	MA	HCl	DESCRIPTION
138679	722680	4989158	210854	125°	75° E	tourmaline ?	None	None	Pink feldspar-quartz-pyroxene pegmatite, tourmaline (?), about 5 % disseminated as coarse-grained aggregates, outcrop.
138680	722567	4989406	210854	Not observed	Not observed	quartz and pyroxene	None	None	Pink feldspar-quartz-pyroxene pegmatite, 1-2 m wide, outcrop.
138681	722800	4990371	271057	Not observed	Not observed	biotite	None	None	Feldspar-quartz-biotite gneiss. Grab sample from orange rusty sub-crop.
138682	722832	4990371	271057	Not observed	Not observed	biotite and pyroxene	None	None	Pyroxenite gneiss, coarse grained, sample from blasted portion of historic trench.

UTM Coordinates, Zone 17 T, NAD 83

Date: October - November 2019


78°11'0"W
78°10'30"W
78°10'0"W
45°2'30"N
45°2'0"N
45°1'30"N
45°1'0"N
45°0'30"N
CON 20 LOT 5
LOT 6
287267
172463
241361
CON 20 LOT 4
CON 19 LOT 9
CON 19 LOT 8
CON 19 LOT 7
139427
127967
CON 19 LOT 6
CON 19 LOT 5
CON 19 LOT 4
CON 18 LOT 9
N
TRUE NORTH
160299
556367
556368
138666
138671
138665
LOT 3
CON 19
138670
CON 18 LOT 8
138664
138669
138663
138681 138682
138668
CON 18 LOT 7
138662
138677
233149
289212
138667
556369
271057
138661
CON 18 LOT 6
138676
138660
138659
138675
CON 18 LOT 5
138678
138674
CON 18 LOT 4
CON 17 LOT 8
CON 18
LOT 3
233150
160300
229673
138658
556370
138657
LOT 2
CON 18
138656
CON 17 LOT 7
138655
138680
557451
120626
260323
210854
138654
CON 17 LOT 6
138653
138679
138672
CON 17 LOT 5
ACCESS ROAD
CON 17 LOT 4
138673
280454
561586
561587
103161
189870
CON 17 LOT 3
CON 16 LOT 7
CON 17 LOT 2
CON 17
LOT 1
189872
189871
267543
561588
561589
CON 16 LOT 6
CON 16 LOT 5
Legend
X ROCK SAMPLES
SOIL SAMPLES
STREAM SAMPLES
SKEAD HOLINGS LTD. CLAIMS
1:10,000
Meters
0 125 250 500
1 cm = 100 meters
CON 16
59
LOT 2
221313
CON 15 LOT 6
LOT
CON 16
286788
154846
LOT 4
CON 15 LOT 5
210885
Figure 1
Overview Plan Map
Sample Numbers 138653 to 138682,
Soil, Stream and Rock Sample Locations
In
Claims 210854, 229673, 260323, 271057, 280454,
556367, 556368, 556369 and 556370
Cardiff Township (G-3044)
Southern Ontario Mining Division
Degrees Minutes Second Coordinates
Datum: NAD 83
Scale - 1:10 000
N.T.S. 31E/01
Drawn By: Jim Laidlaw
Date: December 20, 2019

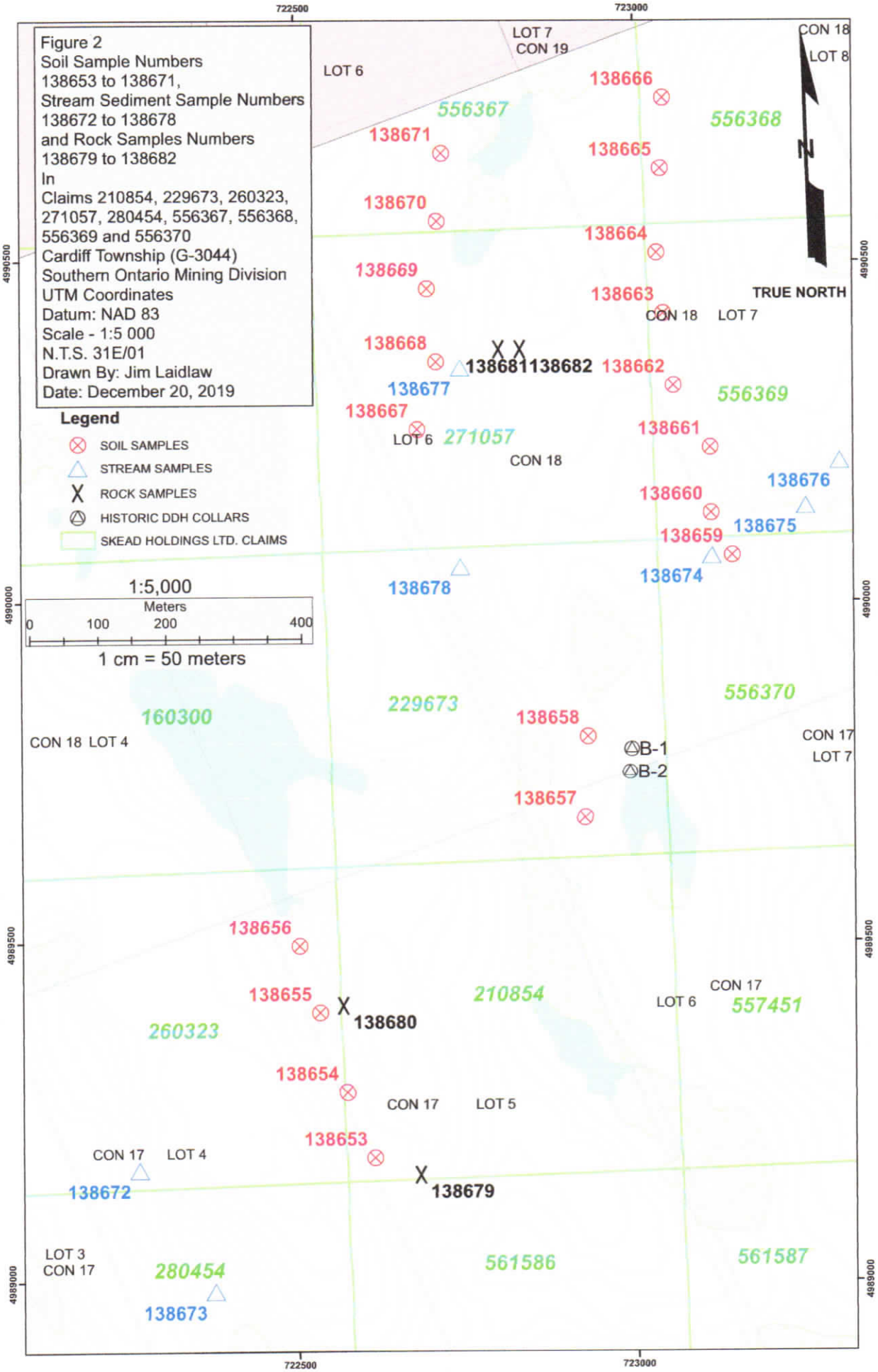


Figure 2
Soil Sample Numbers
138653 to 138671,
Stream Sediment Sample Numbers
138672 to 138678
and Rock Samples Numbers
138679 to 138682
In
Claims 210854, 229673, 260323,
271057, 280454, 556367, 556368,
556369 and 556370
Cardiff Township (G-3044)
Southern Ontario Mining Division
UTM Coordinates
Datum: NAD 83
Scale - 1:5 000
N.T.S. 31E/01
Drawn By: Jim Laidlaw
Date: December 20, 2019
Legend
SOIL SAMPLES
STREAM SAMPLES
ROCK SAMPLES
HISTORIC DDH COLLARS
SKEAD HOLDINGS LTD. CLAIMS
1:5,000
Meters
0 100 200 400
1 cm = 50 meters
722500
723000
4990500
4990000
4989500
4989000
LOT 6
LOT 7
CON 19
CON 18
LOT 8
TRUE NORTH
CON 18 LOT 7
LOT 6
CON 18
CON 18 LOT 4
CON 17
LOT 7
CON 17
LOT 6
CON 17 LOT 5
CON 17 LOT 4
LOT 3
CON 17
138666
138671
138665
138670
138664
138669
138663
138668
138681138682
138662
138677
138667
138661
138676
138660
138675
138659
138674
138678
138658
B-1
B-2
138657
138656
138655
138680
138654
138653
138679
138672
138673
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271057
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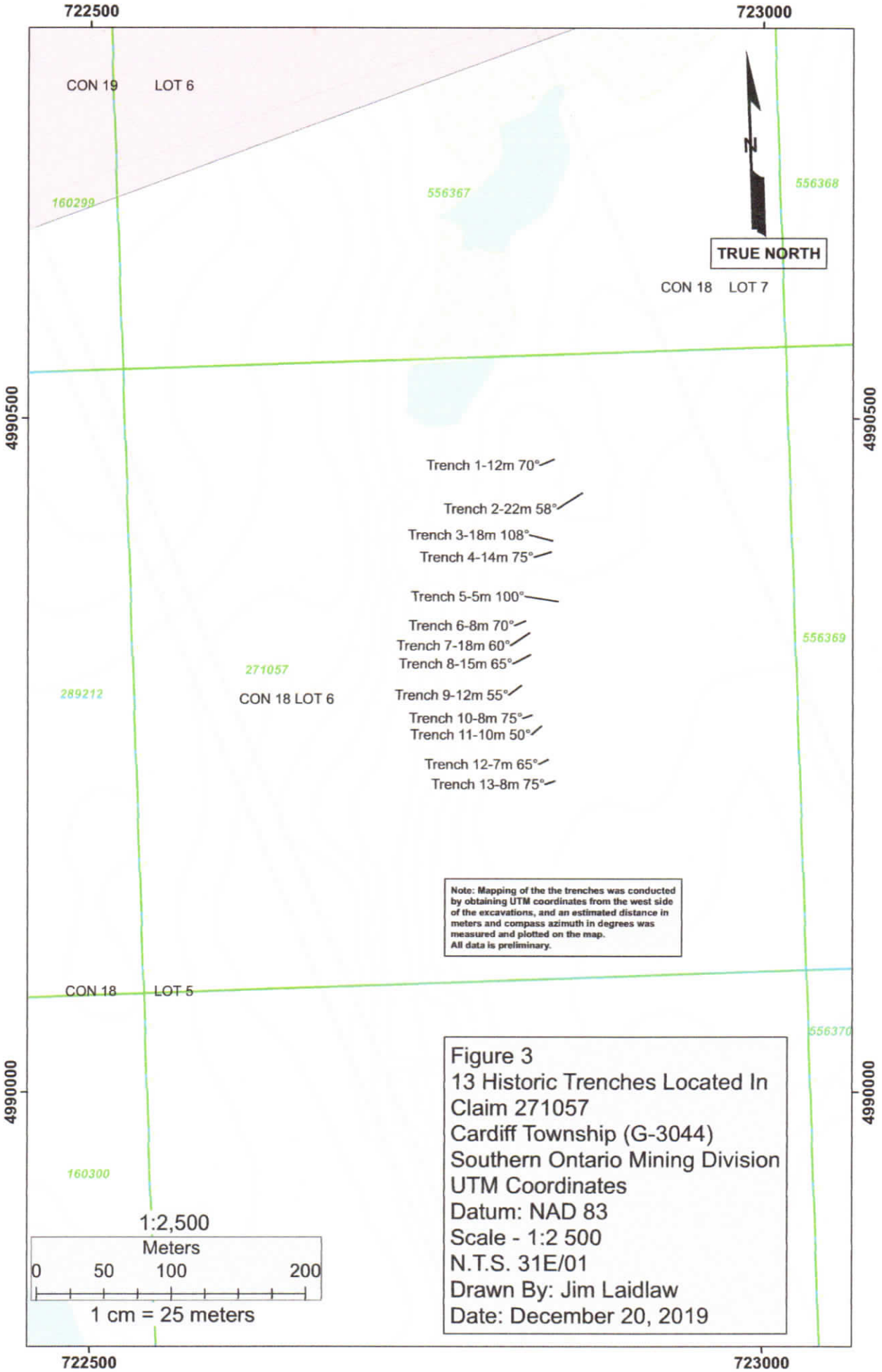
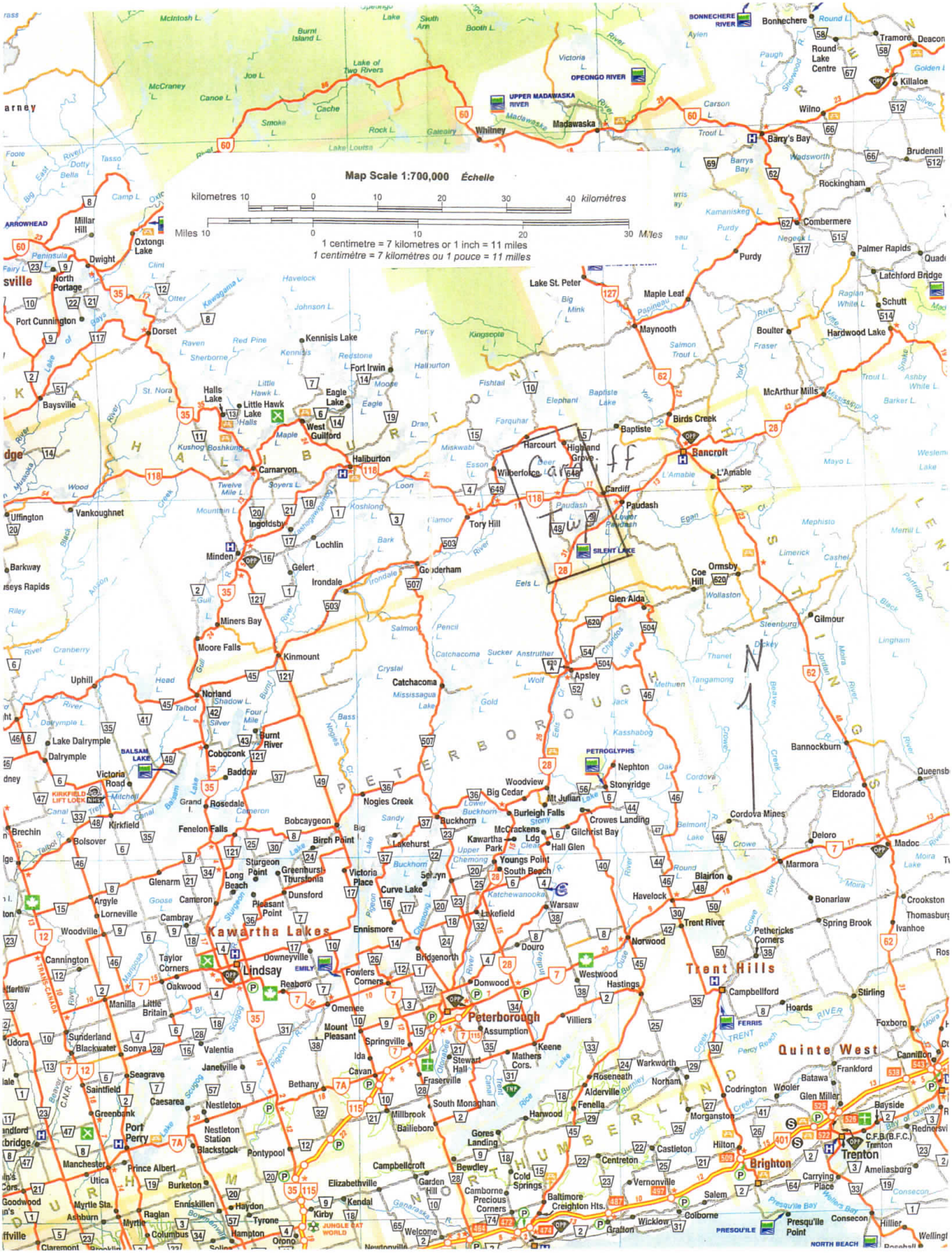
210854
557451
260323
561586
561587
280454


722500
723000
CON 19
LOT 6
160299
556367
556368
N
TRUE NORTH
CON 18
LOT 7
4990500
4990500
Trench 1-12m 70°
Trench 2-22m 58°
Trench 3-18m 108°
Trench 4-14m 75°
Trench 5-5m 100°
Trench 6-8m 70°
Trench 7-18m 60°
Trench 8-15m 65°
Trench 9-12m 55°
Trench 10-8m 75°
Trench 11-10m 50°
Trench 12-7m 65°
Trench 13-8m 75°
556369
271057
289212
CON 18 LOT 6
Note: Mapping of the the trenches was conducted by obtaining UTM coordinates from the west side of the excavations, and an estimated distance in meters and compass azimuth in degrees was measured and plotted on the map.
All data is preliminary.
CON 18
LOT 5
556370
4990000
4990000
160300
1:2,500
Meters
0
50
100
200
1 cm = 25 meters
722500
723000
Figure 3
13 Historic Trenches Located In
Claim 271057
Cardiff Township (G-3044)
Southern Ontario Mining Division
UTM Coordinates
Datum: NAD 83
Scale - 1:2 500
N.T.S. 31E/01
Drawn By: Jim Laidlaw
Date: December 20, 2019


Map Scale 1:700,000 Échelle
kilometres 10 0 10 20 30 40 kilomètres
Miles 10 0 10 20 30 Miles
1 centimetre = 7 kilometres or 1 inch = 11 miles
1 centimètre = 7 kilomètres ou 1 pouce = 11 milles
Cardiff Twp
N
Whitney
Madawaska
Barry's Bay
Combermere
Maynooth
Bancroft
L'Amable
Cardiff
Paudash
Harcourt
Highland Grove
Wilberforce
Haliburton
Carnarvon
Minden
Gooderham
Tory Hill
Coe Hill
Apsley
Kinmount
Norland
Coboconk
Fenelon Falls
Bobcaygeon
Buckhorn
Burleigh Falls
Lakefield
Kawartha Lakes
Lindsay
Peterborough
Havelock
Norwood
Marmora
Madoc
Trent Hills
Campbellford
Quinte West
Trenton
Brighton
Port Perry
Cobourg
Dorset
Baysville
Dwight
Kennisis Lake
Fort Irwin
Eagle Lake
West Guilford
Maple Leaf
Lake St. Peter
Birds Creek
Baptiste
Hardwood Lake
McArthur Mills
Glen Alda
Gilmour
Bannockburn
Eldorado
Cordova Mines
Stirling
Warkworth
Colborne
HALIBURTON
PETERBOROUGH
HASTINGS
NORTHUMBERLAND

Prospecting - Cardiff Twp.

Appendix to Report

Sample Processing and Analysis

Sample Processing – Soil

Soil samples containing about 300 grams of soil in Kraft paper sample bags were air dried for several weeks. They were then opened and screened on a 20 and 80 mesh screen stack, with the +20 mesh material discarded. The remaining soil was screened on an 80 and 200 mesh screen stack. A 20 to 30 gram sample of -80 mesh soil was placed in a numbered coin envelope to be sent for analysis. The +80 mesh material was discarded. The -80 mesh and -200 mesh fractions were placed in 20 dram plastic vials and marked with sample number and mesh size. Excess soil was placed in marked plastic bags.

Sample Processing – Stream Sediment

Stream sediment samples containing about 3 – 4 kg of sediment in finely woven Tyvex oil well type sample bags, were first screened on a 6 mesh stainless steel screen to remove pebbles and coarse material which was discarded. The samples were then placed in large aluminum trays and left to air dry for several weeks. The samples were then screened on a 20, 80 and 200 mesh screen stack taking about 500 grams at a time. A portion of the -6 mesh and -20mesh fraction were placed in 40 dram vials and archived in wooden boxes. Excess sample was placed in marked plastic bags. A 20 to 30 gram sample of -80 mesh stream sediment was placed in a numbered coin envelope to be sent for analysis. A portion of the -80 mesh and -200 mesh fraction was placed in 20 dram vials and archived in wooden boxes. Excess sample was placed in marked plastic bags.

Analysis

Samples were shipped to Bureau Veritas Labs in Vancouver for analysis by ICP-MS after four acid dissolution. This method provides analysis for 45 elements which includes most metals of economic interest except the precious metals

R. A MacGregor P.Eng.

Soil Sample Analysis

Sample Number	Analysis Number
138653	IMA 3491
138654	IMA 3489
138655	IMA 3488
138656	IMA 3487
138657	IMA 3486
138658	IMA 3485
138659	IMA 3484
138660	IMA 3490
138661	IMA 3492
138662	IMA 3493
138663	IMA 3483
138664	IMA 3482
138665	IMA 3481
138666	IMA 3479
138667	IMA 3477
138668	IMA 3480
138669	IMA 3478
138670	IMA 3475
138671	IMA 3476

Stream Sediment Sample Analysis

Sample Number	Analysis Number
138672	IMA 3497
138673	IMA 3498
138674	IMA 3499
138675	IMA 3496
138676	IMA 3495
138677	IMA 3501
138678	IMA 3494

Sample Processing and Analysis
Daily Log

Date	Work done	Time
Dec 20/19	Pick up sample buckets (7) from Purolator, North Industrial area	1 hr. 10 km.
Dec 21/19	Unpack 7 buckets of samples Lay out 19 soil sample bags to dry Screen 7 stream sediment samples on 6 mesh stainless steel screen, discard +6 mesh fraction. Place remaining stream sediment in large aluminium pans to dry	4 hrs.
Jan 17 & 18/20	Screen soil samples on 20 and 80 mesh screens. Discard +20 mesh fraction. Screen on 80 and 200 mesh screens discard +80 mesh fraction take a ~ 20-30 gram sample of -80 mesh soil and place in a numbered coin envelope to be sent for analysis Fill 20 dram plastic vials with -80 mesh and -200 mesh soil. Mark vials with sample number and mesh size. Any excess soil placed in marked plastic bags. ~~Vials out each~~ Repeat for 19 samples. Vials are archived in wooden boxes	8 hrs

Sample Processing & Analysis
Daily Log page 2

Date	Work done	Time
Feb 04/20	Screen stream sediment sample on 10 mesh, 80 mesh and 200 mesh screen stack taking ~ 500 grams at a time fill 40 dram vials with -6 mesh and -20 mesh stream sediment Excess placed in marked plastic bags Take a 20-30 gram sample of -80 mesh stream sediment and place in a numbered coin envelope to be sent for analysis. Fill 20 dram plastic vials with -80 mesh and -200 mesh stream sediment excess placed in marked plastic bags Mark vials with sample number and mesh size. Vials are archived in wooden boxes. Repeat for 7 samples Package all samples and take to post office for shipment.	5 hrs

BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Submitted By:	R.A. MacGregor
Receiving Lab:	Canada-Vancouver
Received:	February 10, 2020
Analysis Start:	February 12, 2020
Report Date:	February 14, 2020
Page:	1 of 3

CERTIFICATE OF ANALYSIS VAN20000263.1

CLIENT JOB INFORMATION

Project:	None Given
Shipment ID:	
P.O. Number	
Number of Samples:	33

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	33	Sorting, labeling and boxing samples received as pulps			VAN
MA200	33	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

SAMPLE DISPOSAL

IMM-PLP Return immediately after analysis

ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: MacGregor, R.A.
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4
Canada

CC:

GEORGE ARCALA
Instrumentation Shift Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given

Report Date: February 14, 2020

CERTIFICATE OF ANALYSIS VAN20000263.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1
IMA 3470	Soil Pulp	2.3	35.8	16.9	174	0.3	23.7	18.7	4453	5.18	4	1.4	6.7	270	0.8	1.0	0.1	114	2.63	0.113	38.1
IMA 3471	Soil Pulp	2.1	10.1	12.3	179	<0.1	16.8	17.6	1189	5.83	24	1.2	3.7	266	0.2	0.9	<0.1	112	4.09	0.193	16.2
IMA 3472	Soil Pulp	1.3	16.8	11.6	186	0.2	11.8	9.8	3560	2.86	18	1.1	2.4	221	1.3	0.7	<0.1	67	14.59	0.099	12.6
IMA 3473	Soil Pulp	1.3	15.0	10.9	154	0.2	16.7	15.0	2458	5.14	16	1.5	4.5	244	0.4	0.8	<0.1	114	5.63	0.178	24.9
IMA 3474	Soil Pulp	1.1	20.9	20.0	443	0.3	13.4	17.7	777	5.35	19	1.3	3.2	242	0.4	1.4	0.1	134	2.78	0.141	15.2
IMA 3475	Soil Pulp	5.0	8.6	19.0	75	<0.1	12.6	8.3	534	5.31	1	1.5	6.3	302	0.1	0.1	<0.1	85	1.55	0.045	18.8
IMA 3476	Soil Pulp	2.6	7.5	14.0	55	<0.1	12.0	7.4	578	4.02	<1	1.3	5.0	299	0.2	0.1	<0.1	67	1.63	0.075	16.7
IMA 3477	Soil Pulp	2.3	7.0	14.4	66	<0.1	12.2	7.8	606	3.84	<1	2.1	4.7	327	<0.1	<0.1	<0.1	74	1.84	0.041	13.9
IMA 3478	Soil Pulp	2.7	5.7	15.6	65	<0.1	8.8	6.1	762	4.71	1	2.4	6.0	250	<0.1	<0.1	<0.1	65	1.42	0.074	17.7
IMA 3479	Soil Pulp	4.2	14.7	14.5	55	<0.1	17.1	11.1	532	3.03	<1	11.4	6.5	351	<0.1	<0.1	<0.1	66	1.84	0.110	28.7
IMA 3480	Soil Pulp	2.5	7.4	13.5	77	<0.1	10.5	6.4	485	3.89	<1	1.3	6.1	245	<0.1	<0.1	<0.1	59	1.38	0.078	17.3
IMA 3481	Soil Pulp	2.8	14.0	14.5	72	<0.1	14.7	9.0	498	4.14	2	14.4	6.7	275	<0.1	<0.1	<0.1	74	1.57	0.065	26.2
IMA 3482	Soil Pulp	1.3	5.2	15.3	52	<0.1	10.7	7.8	491	3.96	2	1.6	3.9	247	<0.1	0.1	<0.1	69	1.46	0.072	13.9
IMA 3483	Soil Pulp	9.1	22.3	17.3	108	<0.1	30.0	14.3	871	5.20	<1	12.1	8.1	277	0.2	0.2	0.1	119	2.28	0.089	25.7
IMA 3484	Soil Pulp	1.3	16.6	13.7	74	<0.1	12.2	7.0	516	4.46	2	10.5	8.8	231	<0.1	<0.1	<0.1	64	1.40	0.089	37.9
IMA 3485	Soil Pulp	3.0	31.2	9.6	65	<0.1	42.4	18.3	1170	5.80	3	2.4	5.0	203	0.2	0.4	0.2	169	6.46	0.165	34.1
IMA 3486	Soil Pulp	1.8	51.0	17.9	67	<0.1	47.0	26.7	834	6.16	2	2.6	4.8	182	<0.1	0.3	0.2	158	3.69	0.105	27.7
IMA 3487	Soil Pulp	3.9	6.0	13.9	68	<0.1	19.4	12.2	551	4.55	2	1.2	3.2	231	<0.1	0.4	0.2	80	3.07	0.047	20.3
IMA 3488	Soil Pulp	5.6	30.9	20.1	71	<0.1	35.3	17.5	829	4.42	<1	2.9	4.8	315	<0.1	0.2	0.1	94	4.45	0.085	38.3
IMA 3489	Soil Pulp	2.6	16.4	16.0	66	<0.1	19.0	13.2	748	3.98	<1	1.7	7.2	379	<0.1	0.1	<0.1	82	2.56	0.132	24.9
IMA 3490	Soil Pulp	1.3	9.0	14.1	90	<0.1	13.2	7.9	515	3.54	3	2.2	6.1	294	<0.1	<0.1	<0.1	67	1.45	0.047	17.1
IMA 3491	Soil Pulp	4.2	14.8	19.3	78	<0.1	14.9	10.6	751	4.26	2	3.2	6.4	312	0.2	0.1	<0.1	78	2.00	0.131	35.1
IMA 3492	Soil Pulp	1.4	20.9	14.9	42	<0.1	9.5	6.6	446	3.95	2	3.1	7.5	264	<0.1	<0.1	<0.1	67	1.37	0.052	19.3
IMA 3493	Soil Pulp	4.7	8.7	16.8	68	<0.1	17.7	15.0	607	8.52	3	5.3	6.8	219	<0.1	0.5	0.2	184	2.01	0.086	23.9
IMA 3494	Soil Pulp	6.2	11.5	16.7	290	<0.1	19.9	21.2	4043	10.40	5	8.2	18.3	212	0.4	0.3	0.2	127	4.99	0.211	55.0
IMA 3495	Soil Pulp	1.4	9.2	22.0	75	<0.1	13.4	16.7	1076	3.38	<1	6.5	12.9	345	0.2	0.1	<0.1	63	2.06	0.138	30.8
IMA 3496	Soil Pulp	8.8	12.0	15.8	141	<0.1	21.5	40.1	1089	5.63	2	6.7	8.2	243	0.3	0.3	<0.1	117	2.05	0.196	28.7
IMA 3497	Soil Pulp	2.5	8.3	15.3	108	<0.1	18.4	16.5	3097	5.21	2	4.1	9.2	334	0.2	0.3	0.2	104	5.99	0.205	37.5
IMA 3498	Soil Pulp	3.1	10.2	15.7	105	<0.1	16.7	16.4	2608	4.78	4	4.7	7.2	298	0.3	0.3	0.2	95	4.96	0.201	42.4
IMA 3499	Soil Pulp	4.2	10.9	15.1	89	<0.1	14.4	20.4	1530	4.40	3	10.4	12.3	270	0.2	0.2	<0.1	85	1.63	0.225	38.5

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Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: February 14, 2020

CERTIFICATE OF ANALYSIS VAN20000263.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
Unit		ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1
IMA 3470	Soil Pulp	55	1.95	919	0.613	6.64	1.796	2.24	0.8	104.1	59	1.9	37.6	9.0	0.5	2	16	25.2	<0.1	52.7	2.9
IMA 3471	Soil Pulp	49	2.42	483	0.618	6.36	1.946	1.35	0.8	65.4	36	1.2	24.2	6.8	0.4	<1	15	16.1	<0.1	42.8	1.9
IMA 3472	Soil Pulp	24	1.34	692	0.459	4.01	0.845	2.51	0.6	65.7	22	1.1	19.4	4.5	0.3	<1	8	10.9	<0.1	32.3	1.9
IMA 3473	Soil Pulp	49	2.69	507	0.687	5.53	1.766	1.26	0.8	81.7	48	1.1	29.9	7.0	0.4	1	15	14.8	<0.1	36.3	2.5
IMA 3474	Soil Pulp	27	2.08	545	0.744	6.74	1.135	4.06	0.6	60.1	32	1.1	24.7	5.4	0.4	<1	14	32.5	<0.1	46.1	1.7
IMA 3475	Soil Pulp	39	0.64	764	0.517	5.93	1.659	1.85	0.4	143.6	65	1.7	20.6	12.5	0.7	1	8	12.9	<0.1	44.8	4.0
IMA 3476	Soil Pulp	36	0.71	714	0.402	6.24	1.808	1.79	0.4	165.1	65	1.1	21.9	9.2	0.5	2	9	9.6	<0.1	35.7	4.5
IMA 3477	Soil Pulp	41	0.76	810	0.452	6.26	1.874	2.20	0.3	173.9	54	1.2	26.1	13.5	0.7	2	10	12.9	<0.1	47.9	5.2
IMA 3478	Soil Pulp	33	0.57	806	0.555	5.77	1.831	2.26	0.4	356.0	48	2.8	20.2	16.4	0.9	1	7	9.5	<0.1	49.3	8.8
IMA 3479	Soil Pulp	46	0.83	936	0.409	6.66	2.003	2.44	0.3	138.1	54	1.1	30.1	9.2	0.5	3	11	20.1	<0.1	50.9	3.8
IMA 3480	Soil Pulp	38	0.67	638	0.363	6.51	1.601	1.63	0.3	129.0	56	1.0	20.9	8.4	0.4	1	10	12.4	<0.1	34.4	3.7
IMA 3481	Soil Pulp	44	0.80	809	0.418	6.46	1.703	2.30	0.3	149.9	63	1.4	27.8	9.3	0.5	1	11	22.3	<0.1	48.4	4.3
IMA 3482	Soil Pulp	39	0.69	718	0.383	5.91	1.678	1.92	0.3	137.7	38	1.2	17.1	8.2	0.4	1	9	10.7	<0.1	42.5	3.9
IMA 3483	Soil Pulp	85	1.35	689	0.670	6.03	1.712	1.85	0.6	204.8	59	2.2	29.0	12.5	0.6	2	14	33.7	<0.1	42.0	5.3
IMA 3484	Soil Pulp	43	0.74	707	0.408	6.17	1.587	2.09	0.3	161.4	100	1.4	43.6	9.5	0.5	3	11	16.2	<0.1	42.8	4.9
IMA 3485	Soil Pulp	99	3.12	1374	1.085	5.84	2.218	0.87	0.6	45.6	63	2.4	35.2	13.4	0.8	1	12	50.5	<0.1	31.8	1.8
IMA 3486	Soil Pulp	122	2.44	360	0.864	6.84	1.934	1.05	0.4	101.2	60	1.3	27.3	7.6	0.4	2	17	36.3	<0.1	27.9	3.0
IMA 3487	Soil Pulp	38	1.74	548	0.484	6.34	1.421	1.53	0.8	103.7	50	1.5	18.7	8.2	0.5	<1	10	57.9	<0.1	33.7	3.0
IMA 3488	Soil Pulp	54	1.35	508	0.533	6.84	1.651	1.57	1.9	149.6	84	1.8	29.2	10.2	0.5	4	11	48.6	<0.1	24.5	3.9
IMA 3489	Soil Pulp	40	1.14	842	0.452	6.81	2.030	2.25	0.5	135.7	97	1.4	31.1	11.0	0.5	2	11	17.8	<0.1	42.3	3.8
IMA 3490	Soil Pulp	39	0.70	788	0.392	6.53	1.741	2.04	0.3	179.8	53	1.4	20.9	9.4	0.5	2	10	18.2	<0.1	42.9	4.8
IMA 3491	Soil Pulp	43	0.84	895	0.509	6.37	1.835	2.29	0.7	207.3	120	2.1	46.9	13.2	0.7	2	10	15.0	<0.1	95.8	5.8
IMA 3492	Soil Pulp	38	0.65	722	0.387	6.95	1.733	1.95	0.3	138.1	53	1.3	24.9	9.6	0.5	2	11	13.6	<0.1	38.9	3.8
IMA 3493	Soil Pulp	38	1.05	543	1.131	6.46	1.477	1.50	1.2	118.0	50	2.5	35.3	12.4	0.7	1	13	20.7	<0.1	36.9	3.5
IMA 3494	Soil Pulp	96	2.54	430	0.945	6.29	1.817	1.67	2.2	293.5	129	8.7	118.5	34.2	1.8	8	20	27.5	<0.1	58.9	7.0
IMA 3495	Soil Pulp	39	0.90	843	0.561	6.01	2.009	1.96	0.3	262.5	68	2.1	34.4	12.4	0.7	5	12	12.7	<0.1	40.4	7.6
IMA 3496	Soil Pulp	49	1.52	683	0.498	6.58	1.924	2.04	0.4	239.5	65	3.7	40.1	13.0	0.7	3	14	42.2	<0.1	49.7	7.3
IMA 3497	Soil Pulp	43	2.34	502	0.665	6.00	1.846	1.44	1.1	195.1	79	2.1	49.0	12.3	0.7	2	15	25.5	<0.1	34.2	6.0
IMA 3498	Soil Pulp	40	2.22	529	0.589	5.60	1.821	1.41	3.7	152.5	85	2.0	53.6	12.0	0.7	2	14	20.7	<0.1	31.9	4.8
IMA 3499	Soil Pulp	45	0.77	698	0.446	6.23	1.705	1.76	0.4	159.0	81	2.2	37.8	10.5	0.5	3	10	19.6	<0.1	37.7	4.8

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Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: February 14, 2020

CERTIFICATE OF ANALYSIS VAN20000263.1

Method		MA200	MA200	MA200	MA200	MA200
Analyte		In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm
MDL		0.05	0.005	1	0.5	0.5
IMA 3470	Soil Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA 3471	Soil Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 3472	Soil Pulp	<0.05	0.005	2	0.6	0.7
IMA 3473	Soil Pulp	<0.05	0.005	<1	1.0	0.6
IMA 3474	Soil Pulp	0.06	<0.005	<1	<0.5	1.2
IMA 3475	Soil Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 3476	Soil Pulp	0.05	<0.005	<1	<0.5	<0.5
IMA 3477	Soil Pulp	0.08	<0.005	<1	<0.5	<0.5
IMA 3478	Soil Pulp	0.08	<0.005	<1	<0.5	<0.5
IMA 3479	Soil Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 3480	Soil Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 3481	Soil Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 3482	Soil Pulp	0.06	<0.005	<1	<0.5	<0.5
IMA 3483	Soil Pulp	0.09	<0.005	<1	<0.5	<0.5
IMA 3484	Soil Pulp	0.08	<0.005	1	<0.5	<0.5
IMA 3485	Soil Pulp	0.05	<0.005	<1	0.9	<0.5
IMA 3486	Soil Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 3487	Soil Pulp	0.06	<0.005	<1	<0.5	<0.5
IMA 3488	Soil Pulp	0.07	<0.005	1	<0.5	<0.5
IMA 3489	Soil Pulp	0.05	<0.005	<1	<0.5	<0.5
IMA 3490	Soil Pulp	0.05	<0.005	<1	<0.5	<0.5
IMA 3491	Soil Pulp	0.08	<0.005	<1	<0.5	<0.5
IMA 3492	Soil Pulp	0.10	<0.005	<1	<0.5	<0.5
IMA 3493	Soil Pulp	0.07	<0.005	1	<0.5	<0.5
IMA 3494	Soil Pulp	0.19	<0.005	2	<0.5	1.2
IMA 3495	Soil Pulp	0.09	<0.005	<1	<0.5	<0.5
IMA 3496	Soil Pulp	0.15	<0.005	1	<0.5	0.6
IMA 3497	Soil Pulp	0.06	<0.005	<1	<0.5	<0.5
IMA 3498	Soil Pulp	0.08	<0.005	1	<0.5	<0.5
IMA 3499	Soil Pulp	0.09	<0.005	1	<0.5	<0.5

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Project: None Given
Report Date: February 14, 2020

CERTIFICATE OF ANALYSIS VAN20000263.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1
IMA 3500	Soil Pulp	11.3	103.7	24.4	304	0.4	25.5	14.6	525	2.77	3	4.1	5.2	229	0.3	0.1	1.2	53	1.13	0.048	16.8
IMA 3501	Soil Pulp	2.9	17.4	20.6	179	<0.1	16.8	13.4	1954	6.32	5	5.7	8.7	362	<0.1	0.2	<0.1	110	3.85	0.197	45.5
IMA 3502	Soil Pulp	1.9	28.7	14.4	52	<0.1	16.7	15.2	632	5.05	1	1.8	6.8	324	<0.1	0.2	<0.1	116	2.16	0.079	23.5

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Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: February 14, 2020

CERTIFICATE OF ANALYSIS VAN20000263.1

Method		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte		Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
Unit		ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1
IMA 3500	Soil Pulp	67	0.54	526	0.317	5.62	1.673	1.91	5.3	140.6	44	1.9	11.8	9.6	0.6	4	7	21.9	<0.1	73.1	3.9
IMA 3501	Soil Pulp	79	1.85	605	0.770	6.37	2.003	1.93	1.2	278.6	99	4.4	77.3	24.5	1.4	3	18	23.5	<0.1	46.8	7.6
IMA 3502	Soil Pulp	47	1.09	745	0.630	6.68	2.270	1.92	0.6	187.9	95	2.0	31.1	10.7	0.6	2	14	19.6	<0.1	39.8	5.7

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CERTIFICATE OF ANALYSIS VAN20000263.1

Method		MA200	MA200	MA200	MA200	MA200
Analyte		In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm
MDL		0.05	0.005	1	0.5	0.5
IMA 3500	Soil Pulp	0.05	<0.005	<1	<0.5	0.6
IMA 3501	Soil Pulp	0.08	<0.005	2	<0.5	0.7
IMA 3502	Soil Pulp	0.07	<0.005	1	<0.5	<0.5

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Project: None Given
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QUALITY CONTROL REPORT VAN20000263.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1
Pulp Duplicates																					
IMA 3493	Soil Pulp	4.7	8.7	16.8	68	<0.1	17.7	15.0	607	8.52	3	5.3	6.8	219	<0.1	0.5	0.2	184	2.01	0.086	23.9
REP IMA 3493	QC	5.0	8.8	16.9	66	<0.1	17.3	15.7	598	8.56	3	5.4	6.3	215	<0.1	0.6	0.2	179	2.02	0.095	24.2
Reference Materials																					
STD OREAS25A-4A	Standard	2.2	28.0	21.8	39	<0.1	42.7	6.7	480	6.41	9	2.4	14.0	44	<0.1	0.5	0.3	155	0.27	0.046	18.8
STD OREAS45E	Standard	2.3	795.2	17.6	46	0.3	458.4	59.9	555	25.42	16	2.4	13.7	17	<0.1	1.0	0.3	317	0.06	0.034	10.8
STD OREAS25A-4A Expected		2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301	0.048	21.8
STD OREAS45E Expected		2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065	0.034	11
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.001	<0.1

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Project: None Given
Report Date: February 14, 2020

QUALITY CONTROL REPORT VAN20000263.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
	Unit	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1
Pulp Duplicates																					
IMA 3493	Soil Pulp	38	1.05	543	1.131	6.46	1.477	1.50	1.2	118.0	50	2.5	35.3	12.4	0.7	1	13	20.7	<0.1	36.9	3.5
REP IMA 3493	QC	38	1.03	550	1.092	6.44	1.437	1.52	1.1	116.6	50	2.6	35.3	12.4	0.7	2	13	19.1	<0.1	36.2	3.6
Reference Materials																					
STD OREAS25A-4A	Standard	113	0.30	136	0.874	8.79	0.110	0.48	1.6	144.7	40	3.3	8.5	18.6	1.2	1	12	32.4	<0.1	52.1	3.4
STD OREAS45E	Standard	1110	0.15	261	0.544	7.07	0.048	0.36	1.1	92.0	23	1.1	7.7	6.0	0.5	<1	94	7.2	<0.1	20.9	2.7
STD OREAS25A-4A Expected		115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047	61	4.14
STD OREAS45E Expected		979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046	21.2	3.11
BLK	Blank	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	0.2	<0.1	<0.1	<0.1

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QUALITY CONTROL REPORT

VAN20000263.1

	Method	MA200	MA200	MA200	MA200	MA200
	Analyte	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm
	MDL	0.05	0.005	1	0.5	0.5
Pulp Duplicates						
IMA 3493	Soil Pulp	0.07	<0.005	1	<0.5	<0.5
REP IMA 3493	QC	0.05	<0.005	2	<0.5	<0.5
Reference Materials						
STD OREAS25A-4A	Standard	0.08	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	0.11	<0.005	<1	<0.5	<0.5
STD OREAS25A-4A Expected		0.09		2.4		0.35
STD OREAS45E Expected		0.099		2.97	0.1	0.15
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5

Costs

Jim Laidlaw		2726.20
Chris Fouts		1939.76
Purolater sample shipping		381.22
Sample Processing	17 hrs @ 50/hr	850.00
Analysis	26 samples @ 23.25/sample	604.50
Sample shipping	postage	19.36
Appendix Report		100.00
Mileage	10 km @ .50	5.00
	Total	**6626.04**

Location of Samples by Cell Number

Cell Number	Sample Type	Number of Samples
556367	Soil	2
556368	Soil	2
556369	Soil	5
	Stream Sediment	2
556370	Soil	1
	Stream Sediment	1
210854	Soil	2
229673	Soil	2
	Stream Sediment	1
260323	Soil	2
	Stream Sediment	1
271057	Soil	3
	Stream Sediment	1
280454	Stream Sediment	1