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NTS: 42D04D

**GRASS ROOTS PROSPECTING REPORT
MONTARIO PROPERTY
BOSTON TOWNSHIP, ONTARIO**

For:

GOLDENFIRE MINERALS INC.

London, Ontario



**By: Robert Dillman
ARJADEE PROSPECTING
Mount Brydges, Ontario**

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Summary

This report discusses the results of prospecting on the Montario Property in Boston Township, Ontario. Work on the property was completed in 1 day on June 10, 2021.

The Montario Property consists of 2 contiguous nonpatent mining claims: 553006 and 553007, cells 32D04D311 and 32D04D312. The property covers an area of 67.7 ha.

At the time the field work was completed, the claims were owned by Jim Renaud and (author) Robert Dillman. At the time of this report, title for both claims had been transferred to Goldenfire Minerals Inc., a company owned by Jim Renaud and Robert Dillman.

Several old pits, trenches and a shaft were found on the property. These workings expose quartz veins, iron formation and a lamprophyre dike.

Seventeen (17) rock samples were collected on the property. All samples were assayed for gold. Five (5) samples were assayed for multiple elements. Assays for gold were low ranging <0.001 ppm to 0.062 ppm Au. An assay of magnetite-sulphide iron formation assayed 2,350 ppm Zn, 1,230 ppm Cu, 1.3 ppm Ag and 5.8 ppm Mo. Multielement assays completed on 4 samples of lamprophyre ranged: 1,480 ppm to 3,020 Ba, 0.40% to 0.45% P, 158 ppm to 272 ppm Rb, 176 ppm to 193 ppm V and anomalous Rare Earth Elements (REE'S) including Dy, Eu, Ga, Nd, Sr, Y.

Location and Access

The Montario Property is in the central section of Boston Township in the Larder Lake Mining Division of Ontario. The property is located approximately 15 kilometres southeast of the town of Kirkland Lake (Figure 1).

The property can be seasonally accessed by truck and ATV. From the town of Kirkland Lake, travel southwest on Highway 66 to Highway 112. Travel south on Highway 112 to Provincial Road 526 also known as the Boston Creek Road. Travel east on the Boston Creek Road to the hamlet of Boston Creek. A small gravel road on the east side the town provides access to a hydro powerline crossing through the property. The property is 1.6 km north of where the road crosses the powerline. An ATV can be driven to the property along the Hydro Access Road following the powerline and is also part of a series of recreational snowmobile trails in the region.

Claim Logistics and Location of Work

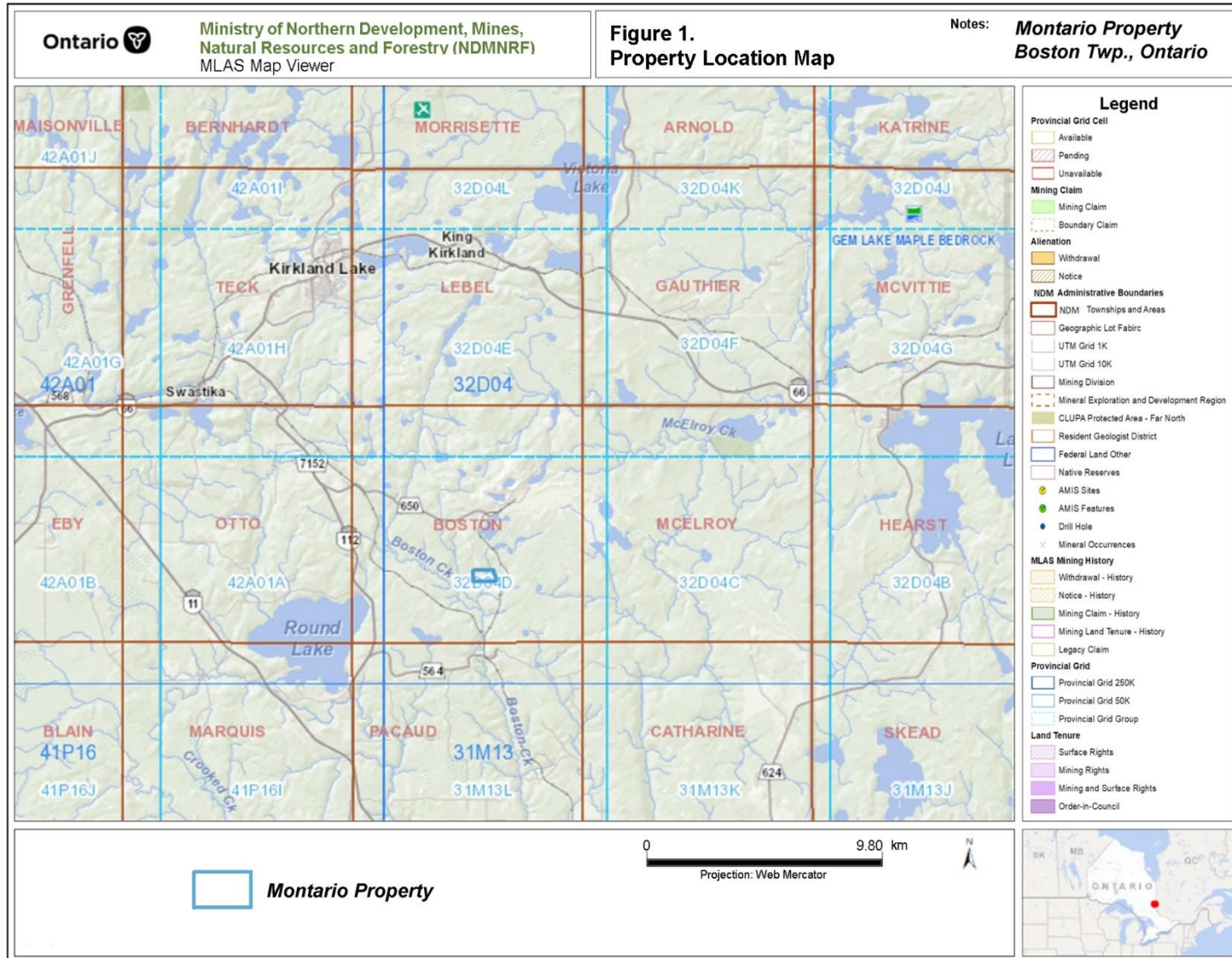
The Montario Property is comprised of 2 contiguous non-patent mining claims (Figure 2):

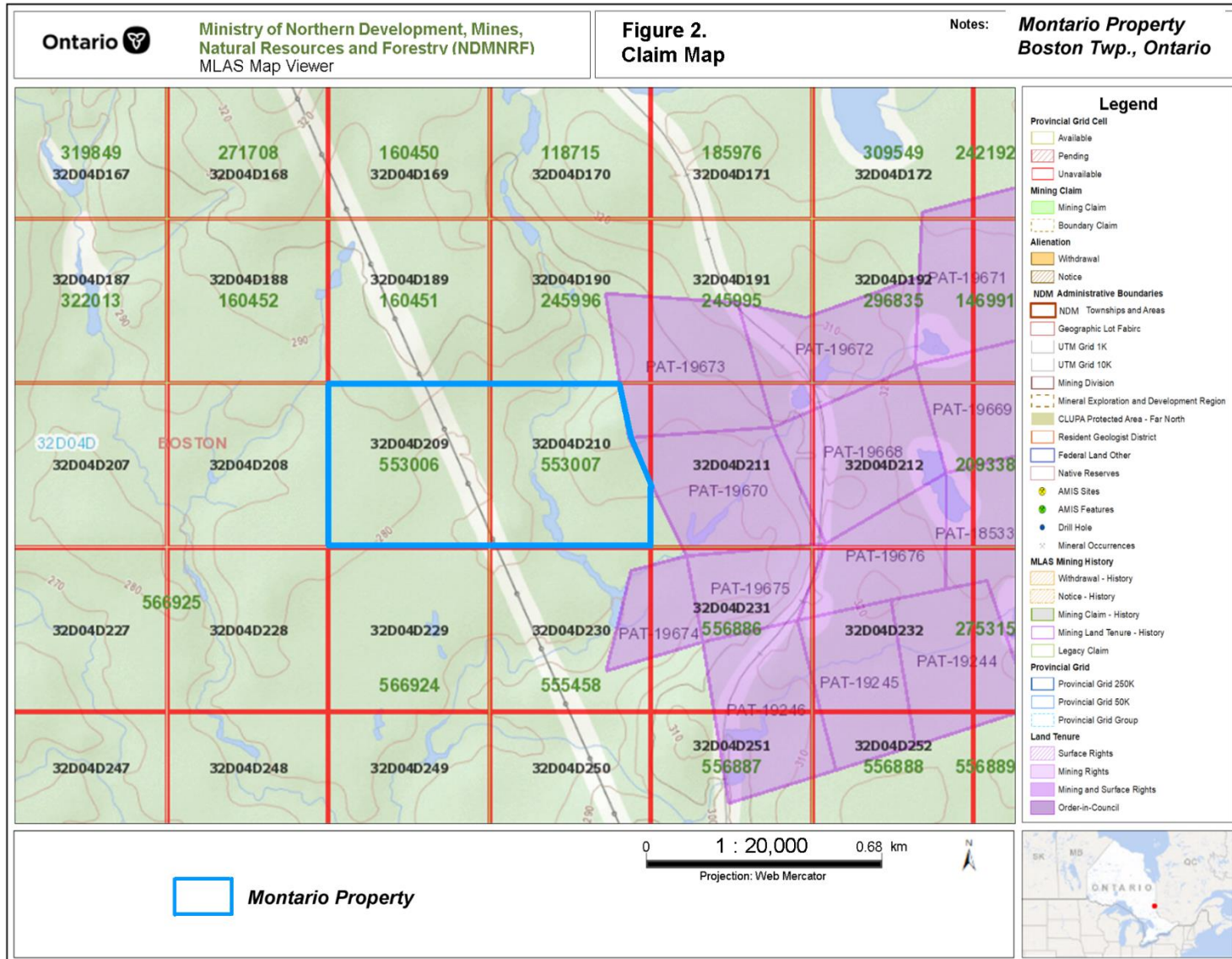
553006	32D04D311	July 2, 2022	\$400
553007	32D04D312	July 2, 2022	\$400

The property covers an approximate area of 26.95 ha. The east side of the property is contiguous to mining patents.

Work was performed on sections of both claims.

At the time of the survey, all claims were registered to author, Robert Dillman of Mount Brydges, Ontario and Dr. Jim Renaud of London, Ontario. In April of 2022, title of the Kenzie Property was transferred to Goldenfire Minerals Inc. which is owned by Jim Renaud and Robert Dillman.





Land Status and Topography

The Montario Property is situated entirely on Crown Land. The property is uninhabited. There are no buildings or habitats. A rough gravel road runs through the property providing access to a electrical powerline crossing through the midsection of the property.

The property is at an elevation ranging 270 to 295 metres above sea level. Relief is considered moderately gentle. Higher ground exists in the north and east sections of the property. A small creek crosses the east side of the property. The creek is part of the Boston Creek drainage system.

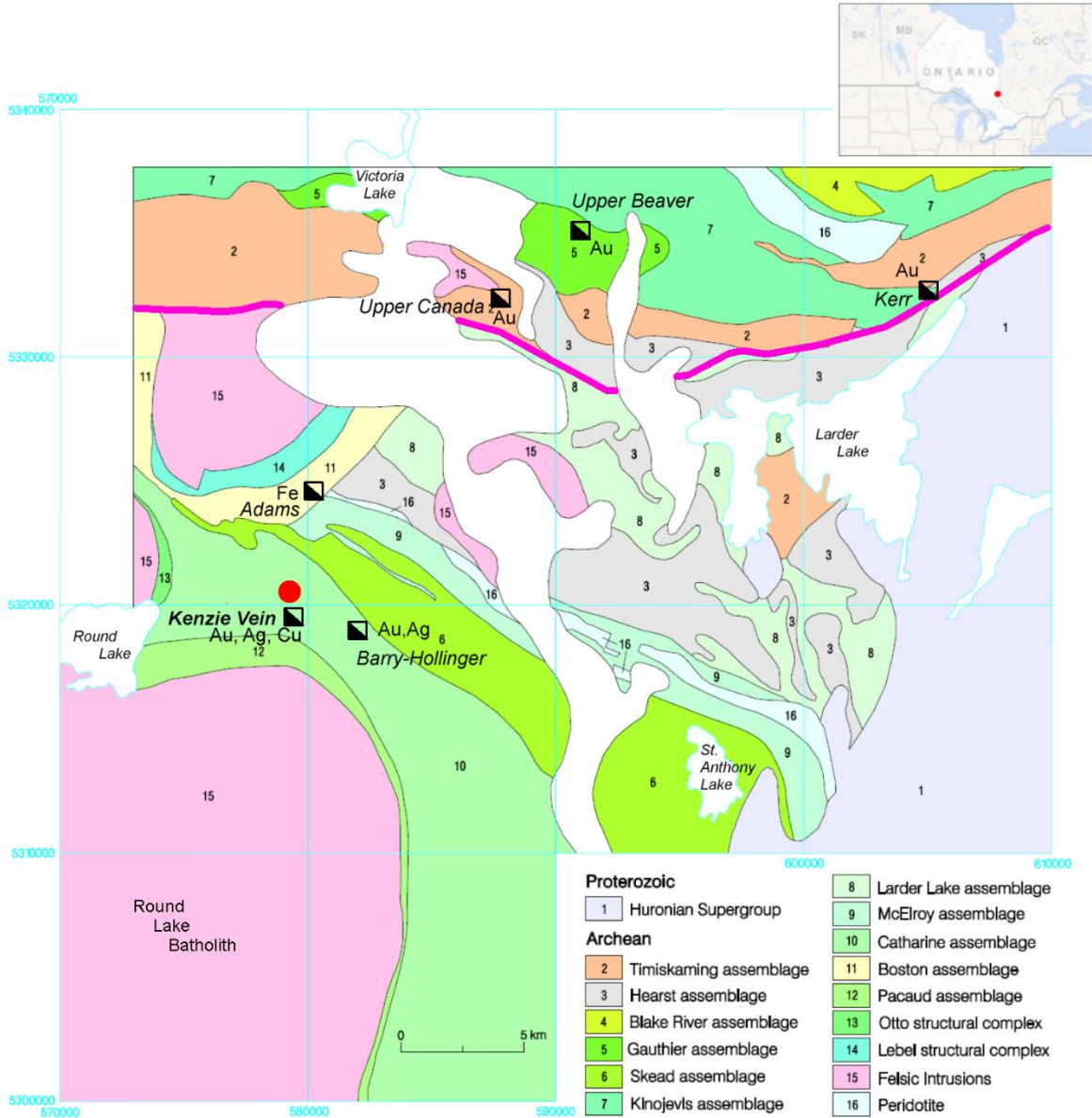
The property is well-forested with large trees of spruce, balsam, poplar, and birch.

There is good outcrop exposure in some sections of the property. Overburden covers some of the central areas where lower elevations exist. Overburden appears to be thin in low areas where outcrops are sparse. Overburden consists of till deposited by a glacier moving from north to south,

Regional and Local Geology

The Montario Property is in the Boston Creek section of the Abitibi Greenstone Belt. The Abitibi Greenstone Belt is part of the Superior Province and extends east-west approximately 600 km from Timmins, Ontario to Chibougamau, Quebec. Numerous precious and base metal deposits have been discovered in the Abitibi Greenstone Belt including Timmins, Kirkland Lake, Harker-Holloway, Rouyn Noranda, Val d'Or and Chibougamau mining camps.

Boston Township is underlain by a series of Archean greenstone assembles and peridotite sills ranging ~2675 to 2750 Ma. Rock units generally trend northwest-southeast, dip steeply northeast to southwest and arc around large Archean felsic intrusions consisting of granite. The area has been intruded by northwest to northeast trending Proterozoic diabase dikes, younger lamprophyre dikes of variable orientations and kimberlite pipes.



modified from: OGS Map 2628

- Larder Lake - Cadillac Shear Zone
- Montario Property**

Figure 3.
Regional Geology &
Supracrustal Assemblages
Kirkland Lake - Larder Lake -
Boston Creek Area, Ontario

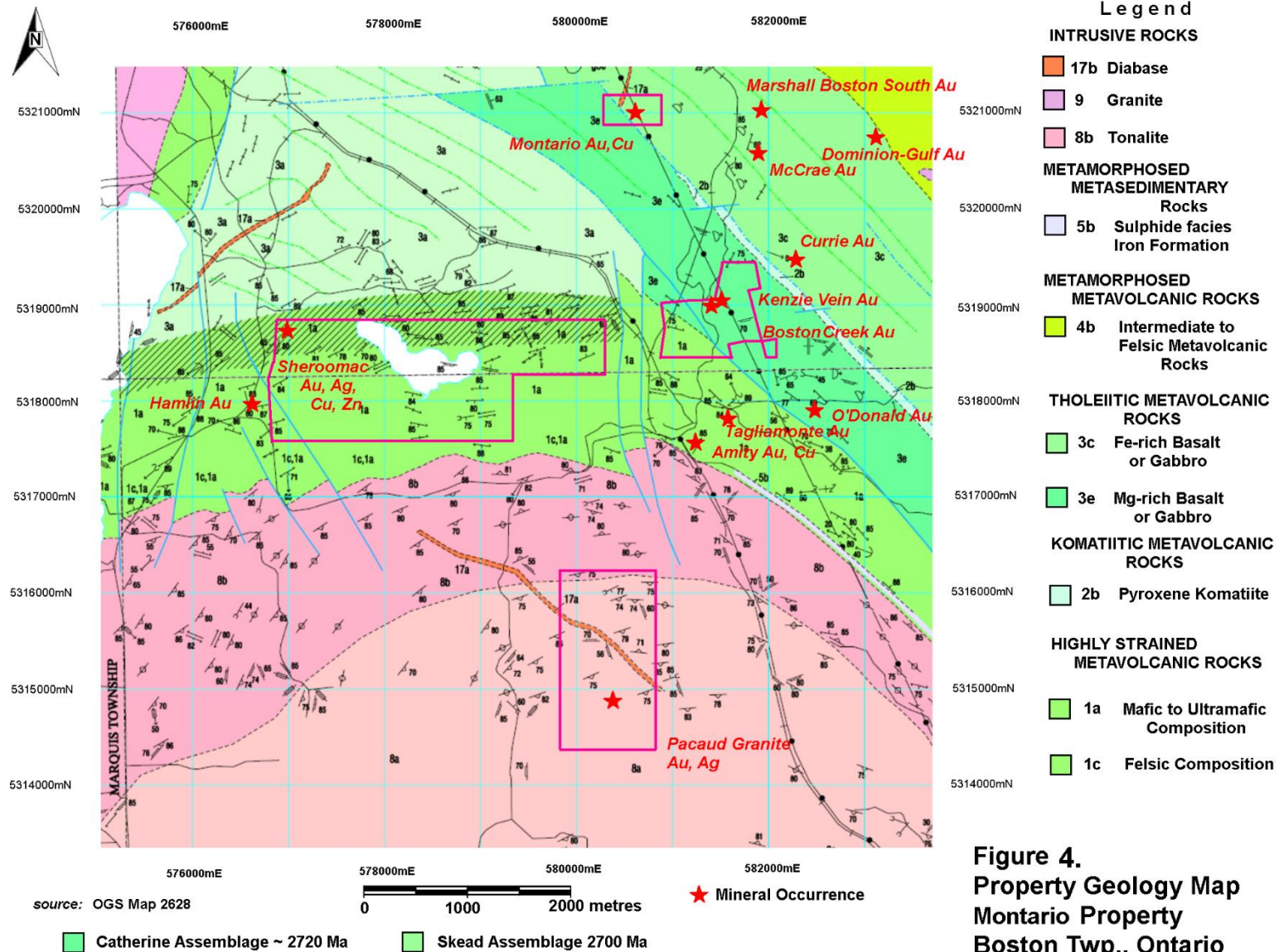


Figure 4.
Property Geology Map
Montario Property
Boston Twp., Ontario

The Montario Property is approximately 16 km south of the Kirkland Lake section of the Larder Lake – Cadillac Shear Zone. Faults and shear zones found in Boston Township strike northwest-southeast paralleling the general trend of the greenstone assemblages. Conjugate faults also occur in a northeast-southwest direction, cross-cutting the general trend of rock units.

The west side of the Montario Property is underlain by Archean metavolcanic and argillaceous rock units including iron formation of the Catharine Assemblage dated ~2720 Ma and on the east side by younger, felsic to metasedimentary units of the Skead Assemblage dated 2700 Ma. The apparent base of the Skead Assemblage is in faulted depositional contact with the Catharine Assemblage. Rock units have been intruded by Proterozoic aged northeast trending diabase dikes and lamprophyre.

History of Exploration

There are numerous mineral occurrences in Boston Township with historic production of gold, copper and iron.

In 1953, Montario Exploration Ltd. began pitting, trenching and excavation of a 250 foot shaft on the property (Figure 5). Basalt and andesite pillow lava are reportedly cut by feldspar porphyry dikes containing quartz-carbonate stringers. Gold is reportedly associated with chalcopyrite and pyrite mineralization.

In 1970, assessment reports refer to VLF surveys and drilling in the vicinity of the Montario Occurrence by Shepherd Explorations with no economic mineralization encountered.

In 1983, Shiningtree Gold Resources Inc. explored a large area of Boston and Pacaud Township's including the area of the Montario Occurrence which was covered by the "F"-Grid. The work included ground magnetometer and VLF-EM surveys.

In 1984, a large area of central Boston Township including the area of the Montario Occurrence was explored by the Canadian Nickel Company Limited using airborne magnetometer and VLF-EM surveys, geological and geochemical surveys and diamond drilling. A rock sample taken on the "F" Grid from a 3 foot wide pyrite chert horizon exposed for 200 feet along the east side of the powerline is reported to have assayed 110 ppb Au. The program was managed by Mr. Carl Forbes.

Survey Dates and Personal

The Montario Property was prospected in 1 day on June 10, 2021.

The work was preformed by Dr. Jim Renaud of London, Ontario and by the author, Robert Dillman of Mount Brydges, Ontario.

Survey Logistics

Prospecting traverses are plotted at a scale of 1 : 5,000 on the accompanying Traverse and Waypoint Location Map. Geology recorded during the traverses and rock sample locations with assays are plotted at a scale of 1 : 5,000 on the accompanying Geology and Rock Sample Location Map.

Approximately 2.6 km was traversed on the Kenzie Property.

A compass and a Garmin RHINO 750 were used for navigation and recording rock sample sites. The GPS unit was set to NAD83, Zone 17. A CAT Handheld device equipped with MapInfo Discover was used to record geological notes and photos. Waypoints (WP) for the traverse were periodically recorded and are listed in Table 1.

A total of 17 rock samples were collected on the Montario Property. Rock sample locations, descriptions and assay results are presented in Table 1 and plotted with the geology map included with this report.

All the rock samples were delivered to AGAT Laboratory for analysis. The lab is in Mississauga, Ontario. All the rock samples were Fire Assayed for gold using a 50 gram charge and finished by Inductively Coupled Plasma – Optical Emission Spectroscopy (ICP-OES) to measure the gold concentration. Two (2) samples were assayed for an additional 45 elements by Aqua Regia Digest - ICP-OES finish. Upon receiving assay results, 3 additional (45) multi-element assays were completed. Assay certificates from the lab are appended to this report.

Survey Results

Several pits, trenches and small areas of overburden stripping were found along the powerline and in the forest just to the west. The historic workings expose areas of minor pyrite mineralization and quartz veins in basalt and minor argillaceous units. Rock samples were collected from most of the workings. Assays for gold were low ranging <0.001 ppm to 0.062 ppm Au.

Several trenches found west of the powerline at #mE, #mN follow a thin unit of cherty magnetite-sulphide iron formation for approximately 25 m. A sample from one of the trenches assayed 2,350 ppm Zn, 1,230 ppm Cu, 1.3 ppm Ag and 5.8 ppm Mo.

A deep pit or shaft measuring roughly 3 m x 3 m and at least 4.5 m deep was discovered at 578810mE, 5321036mN. The workings have partially collapsed and a pipe for dewatering emerges from the debris suggesting the workings are much deeper than they appear. The shaft appears to have been excavated on a 2 m wide lamprophyre dike exposed on the east and west sides of the workings. Multielement assays completed on 3 samples of lamprophyre ranged: 1,480 ppm to 3,020 Ba, 0.40% to 0.45% P, 158 ppm to 272 ppm Rb, 176 ppm to 193 ppm V and anomalous Rare Earth Elements (REE'S) including:

Dy	4.26 to 4.91 ppm	La	111 to 123 ppm
Eu	4.37 to 4.71 ppm		
Ga	27.1 to 29.8 ppm		
Nd	117 to 125 ppm		
Sr	173 to 1,000 ppm		
Y	13.0 to 20.2 ppm		

Table 1. Waypoint & Rock Sample Locations**Montario Property, Boston Township, Ontario NAD 83 Zone 17**

Waypoint	Date	Easting	Northing	Claim Cell	Rock Sample Number	Au ppm	Ag ppm	Cu ppm	Ni ppm	Zn ppm	Notes
Shaft	June 10, 2021 10:13 am	578804	5321034	553007, 32D04D210	Mont-1	0.001	<0.2	4.1	102	86.4	Muck pile around collapsed shaft with pipe sticking out. 3 x 3 x 4.5 m deep, 2 m lamprophyre dike exposed in east and west wall. Lamprophyre in muck pile. Ba 1480 ppm, Ce 172 ppm, Ga 29.8 ppm, La 88 ppm, Nd 117 ppm, P 4710 ppm, Sr 173 ppm, V 115 ppm, Y 13 ppm
Mont-2	June 10, 2021 10:33 am	578807	5321035	553007, 32D04D210	Mont-2	0.001					Weakly silicified basalt beside lamprophyre
Pit	June 10, 2021 11:04 am	578754	5320982	32D04D230							Rusty basalt. Off property
Pit	June 10, 2021 11:05 am	578755	5321003	32D04D230							Rusty metasediment. Off property
Mont-3	June 10, 2021 11:30 am	578799	5321043	553007, 32D04D210	Mont-3	<0.001					Weakly silicified basalt with disseminated pyrite, best grab. Close to shaft.
Pit	June 10, 2021 11:32 am	578766	5321014	553007, 32D04D210							Rusty metasediment
Float py Cpy qtz	June 10, 2021 11:34 am	578752	5320999	32D04D230							Loose piece of rusty sucrosic quartz with traces of cpy and pyrite Off property

Table 1. Waypoint & Rock Sample Locations**Montario Property, Boston Township, Ontario NAD 83 Zone 17**

Waypoint	Date	Easting	Northing	Claim Cell	Rock Sample Number	Au ppm	Ag ppm	Cu ppm	Ni ppm	Zn ppm	Notes
Quartz float Pit	June 10, 2021 11:17 am	578718	5321022	553006, 32D04D209	Mont 4	0.003					Loose piece of rusty sucrosic quartz with traces of cpy and pyrite
Pit	June 10, 2021 11:21 am	578697	5321055	553006, 32D04D209							
Mont 5 – 7	June 10, 2021 12:25 pm	578699	5321060	553006, 32D04D209	Mont-5	0.032	1.3	1230	21.2	2350	Banded magnetite-sulphide iron formation, 0.75 m wide, strike 165, dip vertical, 5% pyrrhotite, trace cpy
Mont 5 – 7	June 10, 2021 12:25 pm	578699	5321060	553006, 32D04D209	Mont-6	0.062					Silicified argillite east of magnetite-sulphide iron formation, trace py, some quartz stringers
Mont 5 - 7	June 10, 2021 12:25 pm	578699	5321060	553006, 32D04D209	Mont-7	0.056					Same, west of magnetite-sulphide iron formation
Trail	June 10, 2021 12:38 pm	578691	5321091	553006, 32D04D209							Good trail cut off northwest from powerline
Pit	June 10, 2021 12:42 pm	578729	5321088	553006, 32D04D209							Loose quartz around 15 m long trench in basalt
Mont-8	June 10, 2021 12:47 pm	578734	5321090	553007, 32D04D210	Mont-8	0.014					Silicified basalt with grey-white quartz around trench, ochre hematite on cleavages.

Table 1. Waypoint & Rock Sample Locations**Montario Property, Boston Township, Ontario NAD 83 Zone 17**

Waypoint	Date	Easting	Northing	Claim Cell	Rock Sample Number	Au ppm	Ag ppm	Cu ppm	Ni ppm	Zn ppm	Notes
Mont-9	June 10, 2021 12:50 pm	578733	5321083	553007, 32D04D210	Mont-9	0.056					Loose quartz around 25 m long trench in basalt, sucrosic, trace pyrite
Pit	June 10, 2021 12:52 pm	578766	5321100	553007, 32D04D210							Weakly carbonated and silicified mafic metavolcanic
CL ob	June 10, 2021 1:15 pm	578534	5321473	553006, 32D04D209							North boundary of property, overburden.
Oc 1a	June 10, 2021 1:19 pm	578533	5321449	553006, 32D04D209							Basalt
Pole Mont 10-11	June 10, 2021 1:40 pm	578637	5321256	553006, 32D04D209	Mont-10	0.001					Large loose pieces piled at base of hydro pole, white quartz with black tourmaline in mafic metavolcanic with traces of pyrite
Pole Mont 10 -11	June 10, 2021 1:45 pm	578637	5321256	553006, 32D04D209	Mont-11	0.007					Large loose pieces piled at base of hydro pole, mafic metavolcanic with traces of pyrite and rusty sucrosic quartz stringers 2 nd sample
Mont-12	June 10, 2021 2:05 pm	578729	5321088	553006, 32D04D209	Mont-12	0.001					Pit, long trench, loose quartz
Mont-13	June 10, 2021 2:11 pm	578725	5321086	553006, 32D04D209	Mont-13	0.035					Pit, long trench, loose quartz
Mont-14	June 10, 2021 2:16 pm	578729	5321091	553006, 32D04D209	Mont-14	0.002					Pit, long trench, loose quartz
Mont-15		578804	5321034	553007, 32D04D210	Mont-15		<0.1	6	158	154	Lamprophyre in muck pile around shaft, office sample Ba 2900 ppm, Ce 262 ppm, Dy 4.91 ppm, Eu 4.71 ppm, Ga 28.0 ppm, La 123 ppm, Nd 125 ppm, P 0.45%, Sr 843 ppm, V 193 ppm, Y 20.2 ppm
Mont-16		578804	5321034	553007, 32D04D210	Mont-16		<0.1	6	174	157	Lamprophyre in muck pile around shaft, office sample Ba 3000 ppm, Ce 246 ppm, Dy 4.45 ppm, Eu 4.42 ppm, Ga 27.1 ppm, La 111 ppm, Nd 118 ppm, P 0.44%, Sr 808 ppm, V 186 ppm, Y 18.3 ppm
Mont-17		578804	5321034	553007, 32D04D210	Mont-17		<0.1	7	135	147	Lamprophyre in muck pile around shaft, office sample Ba 3020 ppm, Ce 247 ppm, Dy 4.26 ppm, Eu 4.37 ppm, Ga 29.8 ppm, La 118 ppm, Nd 117 ppm, P 0.40%, Sr 1,000 ppm, V 176 ppm, Y 18.4 ppm

Table 2: Field Notes

SampleNo	UTM_X	UTM_Y	Elevation	GPS_X	GPS_Y	Date	Weather	SampleType	Colour	Lithology	AlterationType	AltInt	AltProcess	Mineralization	Photo	Description
Mont2	578807	5321035	289.6	-79.9428	48.03774	June 10 2021	Clouds	OutcropGrab	Green	Basalt	Silicification	Weak			YES	shaft wall
Mont3	578799.4	5321043	289.4	-79.9429	48.03781	June 10 2021	Clouds	OutcropGrab	Green	Basalt	Silicification	Moderate			YES	
Mont4	578718.5	5321022	286.4	-79.9435	48.03741	June 10 2021	Clouds	FloatGrab	Dark Grey	Metasediment(s)	Silicification			Chalcopyrite	YES	sugary quartz w cpy
Mont5	578695.3	5321062	285.7	-79.9443	48.03799	June 10 2021	Clouds	TrenchHighGrade	Dark Grey	BIF	Silicification	Strong	Banded	Pyrite	YES	possible iron formation with banded sulphides
Mont6	578688.6	5321064	291.7	-79.9443	48.03801	June 10 2021	Clouds		White	Metasediment(s)	Silicification				YES	
Mont7	578695.9	5321060	291.1	-79.9443	48.03797	June 10 2021	Clouds	TrenchHighGrade		Metasediment(s)	Silicification				YES	mixed sample of metaseds and silicified
Mont8	578734.1	5321090	287.1	-79.9437	48.03824	June 10 2021	Clouds	TrenchHighGrade	Green	Basalt	Silicification	Strong	Massive	Carbonate	YES	
Mont9	578733	5321083	287.2	-79.9437	48.03818	June 10 2021	Clouds	TrenchHighGrade	White	Quartz Vein	Potassic				YES	qtz vein with feldspar and possible green carbonate alteration

Table 3: Cultural Observations (see appendix for pictures)

KEY_ID	Culture	Sampler	Comment	Photo	GPSX	GPSY	GPSZ	Date	UTM_EAST	UTM_NORTH
2	Shaft		15 feet deep x 10 wide	yes	-79.9427	48.03775167	299.1	June 10 2021	578810.3	5321036.938
3	Trench	Jim	striking north south pit...basalt	yes	-79.9433	48.03754667	281.6	June 10 2021	578767.5	5321013.563
4	Trench	Jim	slit trench trending 70 degrees. silicified metasediment	yes	-79.9436	48.037385	283.9	June 10 2021	578745.1	5320995.247
5	Trench	Jim	pit with lamprophyre and red feldspar	yes	-79.9437	48.03740167	282	June 10 2021	578740.9	5320997.076
6	Trench	Jim	trench trending 65 degrees. Carbonate altered Boulder of metaperidotite	yes	-79.944	48.03761333	281	June 10 2021	578713.8	5321020.162
7	Trench	Jim	trench trending 140 degrees	yes	-79.9442	48.03787833	286.8	June 10 2021	578703.2	5321049.476
8	Trench	Jim	semi massive sulphide	yes	-79.9442	48.03796667	286	June 10 2021	578699.1	5321059.314
9	RoadDirt	Jim	good atv trail	yes	-79.9443	48.03829	290.1	June 10 2021	578692.5	5321095.127
10	Trench	Jim	north south trending with qtz carb	yes	-79.9438	48.03824333	288.3	June 10 2021	578727.4	5321090.387



Mont-1 Lamprophyre



Mont-3 <0.001 ppm Au



Mont-4 0.003 ppm Au



Mont-5 0.032 ppm Au, 1.3 ppm Ag, 1,230 ppm Cu, 2,350 Zn



Mont-6 0.062 ppm Au



Mont-7 0.056 ppm Au



Mont-8 0.014 ppm Au



Mont-9 0.055 ppm



Mont-10 0.001 ppm Au



Mont-11 0.007 ppm Au



Mont-12 0.001 ppm Au



Mont-13 0.035 ppm Au



Mont-14 0.002 ppm Au

Discussion of Results

Exploration on the Montario Property is in the preliminary stage and has only focused in the area along the powerline where many historic workings can be found. It is in this area that two shafts are reported however only one was found so it must be assumed another exists on the property. Further exploration is required.

Historic records do not mention lamprophyre on the property although there are many occurrences of lamprophyre within Boston and Pacaud Township. Diamonds have been recovered from some of the lamprophyre dikes in the area (Grabowski and Wilson, 2005). The dike found on the Montario Property is of good size and should be tested for diamond in addition to further evaluating the barium-phosphate-rubidium-vanadium + REE potential of the dike since many of the elements fall within the list of Critical Minerals.

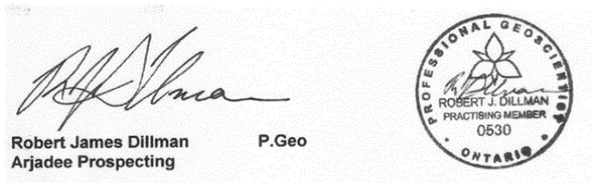
Although assays for gold were low for samples taken in the various historic workings, the mineralization and rock types exposed are favorable for gold to be present. Gold has been reported on the property and additional exploration is warranted.

Zinc and copper bearing iron formation occurs on the property and is a base metal target for further evaluation.

Conclusions and Recommendations

The Montario Property is situated in an area where high-grade gold, base metals and diamonds occur. Based on the results of the work to date, additional exploration work is warranted to evaluate the potential of the property. It is recommended additional prospecting, geological mapping and petrology be undertaken to evaluate the mineral potential of the property. The cost of the proposed work is \$35,000 and outlined as follows:

Prospecting	\$10,000
Geological Mapping	10,000
Petrology	10,000
Assays	<u>5,000</u>
	\$35,000



Robert Dillman P.Geo.
B.Sc. June 24, 2022

References

Forbes, C. P., 1983. Report Of Magnetic Surveys - And - VLF Electromagnetic Surveys From December, 1982 to April, 1983. Completed On "The West Group" Boston And Pacaud Townships, Ontario

Gordon, J.B., Lovell, H.L., de Grijs, Jan, and Davie, R.F., 1979. Gold Deposits of Ontario, Part 2: Part of District of Cochrane, Districts of Muskoka, Nipissing, Parry Sound, Sudbury, Timiskaming, and Counties of Southern Ontario; Ontario Geological Survey, Mineral Deposits Circular 18, 193p.

Jackson, S. L., 1995. Precambrian geology, Larder Lake area; Ontario Geological Survey, Map 2628, scale 1:50,000.

Lawton, K. D., 1957. Geology of Boston Township and Part of Pacaud Township, Ontario Department of Mines, Map No. 1957-4, scale 1:12,000.

Manson, W. O., 1984. Geological, Geochemical and Diamond Drilling Report On Canico-Shiningtree Resources Joint Venture Boston And Pacaud Townships, Ontario Larder Lake Mining Division. Unpublished assessment report 32D04SW0307

Robert J. Dillman P.Geo, B.Sc.
ARJADEE PROSPECTING
8901 Reily Drive, Mount Brydges, Ontario, Canada, N0L1W0
Phone/ fax (519) 264-9278

CERIFICATE of AUTHOR

I, Robert J. Dillman, Professional Geologist, do certify that:

1. I am the President and the holder of a Certificate of Authorization for:


ARJADEE PROSPECTING
8901 Reily Drive, Mount Brydges, Ontario, Canada N0L1W0
2. I graduated in 1991 with a Bachelor of Science Degree in Geology from the University of Western Ontario.
3. I am an active member of:


Professional Geoscientists of Ontario, PGO
Prospectors and Developers Association of Canada, PDAC
4. I have been a licensed Prospector in Ontario since 1984.
5. I have worked continuously as a Professional Geologist for 31 years.
6. Unless stated otherwise, I am responsible for the preparation of all sections of the Assessment Report titled:

GRASS ROOTS PROSPECTING REPORT: KENZIE PROPERTY
BOSTON TOWNSHIP, ONTARIO

dated, May 7, 2022
7. I am not aware of any material fact or material change with respect to the subject matter of the Assessment Report that is not contained in the Assessment Report and its omission to disclose makes the Assessment Report misleading.

Dated this 25th day of May, 2022


Robert James Dillman P.Geo
Arjadee Prospecting





Sample MONT2



Sample MONT3



Sample MONT4



Sample MONT5



Sample MONT6



Sample MONT7



Sample MONT8



Sample MONT9



Cultural Observation #2



Cultural Observation #3



Cultural Observation #4



Cultural Observation #5



Cultural Observation #6



Cultural Observation #7



Cultural Observation #8



Cultural Observation #9



Cultural Observation #10



CLIENT NAME: ROBERT DILLMAN
8901 REILY DRIVE
MOUNT BRYDGES, ON N0L 1W0
519-264-9278

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

PROJECT:

AGAT WORK ORDER: 21T767076

SOLID ANALYSIS REVIEWED BY: Jing Xiao, Data Reviewer

DATE REPORTED: Aug 04, 2021

PAGES (INCLUDING COVER): 11

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: 21T767076

PROJECT:

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

CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

(200-) Sample Login Weight

DATE SAMPLED: Jun 27, 2021

DATE RECEIVED: Jun 28, 2021

DATE REPORTED: Aug 04, 2021

SAMPLE TYPE: Rock

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.005
MONT-1 (2667293)		1.80
MONT-2 (2667294)		2.20
MONT-3 (2667295)		1.16
MONT-4 (2667296)		1.81
MONT-5 (2667297)		3.73
MONT-6 (2667298)		1.94
MONT-7 (2667299)		2.19
MONT-8 (2667300)		2.73
MONT-9 (2667301)		3.20
MONT-10 (2667302)		3.44
MONT-11 (2667303)		1.92
MONT-12 (2667304)		2.80
MONT-13 (2667305)		3.34
MONT-14 (2667306)		2.89

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 21T767076

PROJECT:

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

CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

(201-073) Aqua Regia Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Jun 27, 2021		DATE RECEIVED: Jun 28, 2021					DATE REPORTED: Aug 04, 2021					SAMPLE TYPE: Rock				
Sample ID (AGAT ID)	Analyte:	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	
	Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	
	RDL:	0.2	0.01	1	5	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	
MONT-1 (2667293)		<0.2	2.20	<1	<5	1480	1.4	<1	1.25	<0.5	172	24.4	242	4.1	3.69	
MONT-5 (2667297)		1.3	0.55	3	<5	21	<0.5	<1	0.20	7.7	12	36.9	59.5	1230	12.3	
Sample ID (AGAT ID)	Analyte:	Ga	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	
	Unit:	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	
	RDL:	5	1	1	0.01	1	1	0.01	1	0.5	0.01	0.5	10	0.5	10	
MONT-1 (2667293)		12	<1	<1	1.94	88	67	2.94	603	<0.5	0.03	102	4170	15.8	272	
MONT-5 (2667297)		12	<1	<1	0.17	7	4	0.32	278	5.8	<0.01	21.2	371	27.1	22	
Sample ID (AGAT ID)	Analyte:	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	
	Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
	RDL:	0.01	1	0.5	10	5	0.5	10	10	5	0.01	5	5	0.5	1	
MONT-1 (2667293)		0.02	<1	2.4	<10	<5	173	<10	<10	<5	0.29	<5	<5	115	<1	
MONT-5 (2667297)		8.75	5	<0.5	<10	<5	3.8	<10	25	<5	0.02	<5	<5	13.2	4	
Sample ID (AGAT ID)	Analyte:	Y	Zn	Zr												
	Unit:	ppm	ppm	ppm												
	RDL:	1	0.5	5												
MONT-1 (2667293)		13	86.4	81												
MONT-5 (2667297)		3	2350	5												

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 21T767076

PROJECT:

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

CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Jun 27, 2021	DATE RECEIVED: Jun 28, 2021	DATE REPORTED: Aug 04, 2021	SAMPLE TYPE: Rock
Analyte: Au	Unit: ppm	RDL: 0.001	
Sample ID (AGAT ID)			
MONT-1 (2667293)		0.001	
MONT-2 (2667294)		0.001	
MONT-3 (2667295)		<0.001	
MONT-4 (2667296)		0.003	
MONT-5 (2667297)		0.032	
MONT-6 (2667298)		0.062	
MONT-7 (2667299)		0.056	
MONT-8 (2667300)		0.014	
MONT-9 (2667301)		0.055	
MONT-10 (2667302)		0.001	
MONT-11 (2667303)		0.007	
MONT-12 (2667304)		0.001	
MONT-13 (2667305)		0.035	
MONT-14 (2667306)		0.002	

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 21T767076

PROJECT:

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

CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

Sieving - % Passing (Crushing)

DATE SAMPLED: Jun 27, 2021

DATE RECEIVED: Jun 28, 2021

DATE REPORTED: Aug 04, 2021

SAMPLE TYPE: Rock

Analyte: Crush-Pass
%

Unit: %

Sample ID (AGAT ID) RDL: 0.01

MONT-1 (2667293) 78.63

MONT-11 (2667303) 79.65

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 21T767076

PROJECT:

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

CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

Sieving - % Passing (Pulverizing)

DATE SAMPLED: Jun 27, 2021

DATE RECEIVED: Jun 28, 2021

DATE REPORTED: Aug 04, 2021

SAMPLE TYPE: Rock

Analyte: Pul-Pass %

Unit: %

Sample ID (AGAT ID) RDL: 0.01

MONT-1 (2667293) 86.67

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by *)

Certified By:



CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

(201-073) Aqua Regia Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				RPD															
	Sample ID	Original	Replicate	RPD																
Ag	2667293	< 0.2	< 0.2	0.0%																
Al	2667293	2.20	2.38	7.9%																
As	2667293	< 1	< 1	0.0%																
B	2667293	< 5	< 5	0.0%																
Ba	2667293	1480	1600	7.8%																
Be	2667293	1.42	1.55	8.8%																
Bi	2667293	< 1	< 1	0.0%																
Ca	2667293	1.25	1.34	6.9%																
Cd	2667293	< 0.5	< 0.5	0.0%																
Ce	2667293	172	174	1.2%																
Co	2667293	24.4	25.9	6.0%																
Cr	2667293	242	247	2.0%																
Cu	2667293	4.12	4.27	3.6%																
Fe	2667293	3.69	3.94	6.6%																
Ga	2667293	12	11	8.7%																
Hg	2667293	< 1	< 1	0.0%																
In	2667293	< 1	< 1	0.0%																
K	2667293	1.94	2.14	9.8%																
La	2667293	88	87	1.1%																
Li	2667293	67	73	8.6%																
Mg	2667293	2.94	3.15	6.9%																
Mn	2667293	603	635	5.2%																
Mo	2667293	< 0.5	< 0.5	0.0%																
Na	2667293	0.03	0.03	0.0%																
Ni	2667293	102	106	3.8%																
P	2667293	4170	4340	4.0%																
Pb	2667293	15.8	12.0	27.3%																
Rb	2667293	272	297	8.8%																
S	2667293	0.02	0.02	0.0%																
Sb	2667293	< 1	< 1	0.0%																
Sc	2667293	2.40	2.48	3.3%																



CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

Se	2667293	< 10	< 10	0.0%													
Sn	2667293	< 5	< 5	0.0%													
Sr	2667293	173	183	5.6%													
Ta	2667293	< 10	< 10	0.0%													
Te	2667293	< 10	< 10	0.0%													
Th	2667293	< 5	< 5	0.0%													
Ti	2667293	0.288	0.307	6.4%													
Tl	2667293	< 5	< 5	0.0%													
U	2667293	< 5	< 5	0.0%													
V	2667293	115	118	2.6%													
W	2667293	< 1	< 1	0.0%													
Y	2667293	13	14	7.4%													
Zn	2667293	86.4	88.4	2.3%													
Zr	2667293	81	79	2.5%													
(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)																	
REPLICATE #1																	
Parameter	Sample ID	Original	Replicate	RPD													
Au	2667293	0.001	< 0.001														



CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

(201-073) Aqua Regia Digest - Metals Package, ICP-OES finish

CRM #1 (ref.ME-1303)													
Parameter	Expect	Actual	Recovery	Limits									
Ag	152	149	98%	80% - 120%									
Cu	3440	3566	104%	80% - 120%									
Pb	12200	11590	95%	80% - 120%									
Zn	9310	8854	95%	80% - 120%									

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

CRM #1 (ref.GS1P5T)													
Parameter	Expect	Actual	Recovery	Limits									
Au	1.75	1.8	103%	90% - 110%									



Method Summary

CLIENT NAME: ROBERT DILLMAN
 PROJECT:
 SAMPLING SITE:

AGAT WORK ORDER: 21T767076
 ATTENTION TO: ROBERT DILLMAN, JIM RENAUD
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Al	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
As	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
B	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Ba	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Be	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Bi	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Ca	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Cd	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Ce	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Co	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Cr	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Cu	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Fe	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Ga	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Hg	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
In	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
K	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
La	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Li	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Mg	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Mn	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Mo	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Na	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Ni	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
P	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Pb	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES



Method Summary

CLIENT NAME: ROBERT DILLMAN

AGAT WORK ORDER: 21T767076

PROJECT:

ATTENTION TO: ROBERT DILLMAN, JIM RENAUD

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Rb	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
S	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Sb	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Sc	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Se	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Sn	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Sr	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Ta	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Te	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Th	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Ti	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Tl	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
U	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
V	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
W	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Y	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Zn	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Zr	MIN-200-12020	Fletcher, WK: Handbook of Exploration Geochem	ICP/OES
Au	MIN-12006, MIN-12004		ICP/OES
Crush-Pass %			BALANCE
Pul-Pass %			BALANCE



CLIENT NAME: ROBERT DILLMAN
8901 REILY DRIVE
MOUNT BRYDGES, ON N0L 1W0
519-264-9278

ATTENTION TO: ROBERT DILLMAN

PROJECT:

AGAT WORK ORDER: 21T810761

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Nov 29, 2021

PAGES (INCLUDING COVER): 13

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

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 90 days following analysis, unless expressly agreed otherwise in writing. Please contact your Client Project Manager if you require additional sample storage time.
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Certificate of Analysis

AGAT WORK ORDER: 21T810761

PROJECT:

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

CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN

(200-) Sample Login Weight

DATE SAMPLED: Oct 03, 2021 DATE RECEIVED: Sep 30, 2021 DATE REPORTED: Nov 29, 2021 SAMPLE TYPE: Rock

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
MONT-15 (3049918)		3.46
MONT-16 (3049919)		2.47
MONT-17 (3049920)		3.84

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by *)

Insufficient Sample : IS

Sample Not Received : SNR

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 21T810761

PROJECT:

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

CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN

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

DATE SAMPLED: Oct 03, 2021

DATE RECEIVED: Sep 30, 2021

DATE REPORTED: Nov 29, 2021

SAMPLE TYPE: Rock

Sample ID (AGAT ID)	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
MONT-15 (3049918)		<1	6.50	<5	<20	2900	5	0.4	4.09	<0.2	262	43.2	0.045	6.8	6
MONT-16 (3049919)		<1	6.72	<5	<20	3000	<5	0.2	3.97	<0.2	246	44.3	0.049	7.2	6
MONT-17 (3049920)		<1	7.23	<5	<20	3020	<5	0.1	3.73	<0.2	247	36.5	0.037	6.9	7
Sample ID (AGAT ID)	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
MONT-15 (3049918)		4.91	1.91	4.71	6.60	28.0	12.7	3	4	0.76	<0.2	2.91	123	74	0.21
MONT-16 (3049919)		4.45	1.66	4.42	6.57	27.1	12.2	3	3	0.67	<0.2	2.98	111	84	0.19
MONT-17 (3049920)		4.26	1.62	4.37	6.03	29.8	10.8	3	4	0.70	<0.2	3.24	118	66	0.19
Sample ID (AGAT ID)	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
MONT-15 (3049918)		6.38	1310	<2	6	125	158	0.45	47	31.7	166	0.11	0.1	23	25.9
MONT-16 (3049919)		6.63	1310	<2	5	118	174	0.44	40	29.3	165	0.11	<0.1	23	26.2
MONT-17 (3049920)		5.49	1180	<2	5	117	135	0.40	49	29.3	158	0.10	0.3	21	27.8
Sample ID (AGAT ID)	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
MONT-15 (3049918)		20.3	2	843	<0.5	1.27	11.8	0.46	1.1	0.23	1.59	193	<1	20.2	1.5
MONT-16 (3049919)		18.5	2	808	<0.5	1.25	8.9	0.47	1.1	0.23	1.09	186	<1	18.3	1.4
MONT-17 (3049920)		17.9	1	1000	<0.5	1.09	11.7	0.42	1.0	0.19	1.61	176	<1	18.4	1.3
Sample ID (AGAT ID)	Analyte:	Zn	Zr												
	Unit:	ppm	ppm												
	RDL:	5	0.5												
MONT-15 (3049918)		154	157												
MONT-16 (3049919)		157	110												
MONT-17 (3049920)		147	177												

Certified By:



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 21T810761

PROJECT:

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

CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN

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

DATE SAMPLED: Oct 03, 2021

DATE RECEIVED: Sep 30, 2021

DATE REPORTED: Nov 29, 2021

SAMPLE TYPE: Rock

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by *)

Insufficient Sample : IS

Sample Not Received : SNR

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 21T810761

PROJECT:

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

CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN

Sieving - % Passing (Crushing)

DATE SAMPLED: Oct 03, 2021

DATE RECEIVED: Sep 30, 2021

DATE REPORTED: Nov 29, 2021

SAMPLE TYPE: Rock

Analyte: Crush-Pass
%

Unit: %

Sample ID (AGAT ID)	RDL:	0.01
MONT-15 (3049918)		76.69

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by *)

Insufficient Sample : IS

Sample Not Received : SNR

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 21T810761

PROJECT:

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

CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN

Sieving - % Passing (Pulverizing)

DATE SAMPLED: Oct 03, 2021	DATE RECEIVED: Sep 30, 2021	DATE REPORTED: Nov 29, 2021	SAMPLE TYPE: Rock
----------------------------	-----------------------------	-----------------------------	-------------------

Analyte: Pul-Pass %	Unit: %
Sample ID (AGAT ID)	RDL: 0.01
MONT-15 (3049918)	88.75

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT 5623 McAdam Rd., Mississauga, ON (unless marked by *)

Insufficient Sample : IS

Sample Not Received : SNR

Certified By:



CLIENT NAME: ROBERT DILLMAN

ATTENTION TO: ROBERT DILLMAN

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

Parameter	REPLICATE #1				RPD													
	Sample ID	Original	Replicate	RPD														
Ag	3049918	< 1	< 1	0.0%														
Al	3049918	6.50	6.66	2.4%														
As	3049918	< 5	< 5	0.0%														
B	3049918	< 20	<20	0.0%														
Ba	3049918	2900	2880	0.7%														
Be	3049918	5	5	0.0%														
Bi	3049918	0.4	0.33	19.2%														
Ca	3049918	4.09	4.08	0.2%														
Cd	3049918	< 0.2	< 0.2	0.0%														
Ce	3049918	262	253	3.5%														
Co	3049918	43.2	40.6	6.2%														
Cr	3049918	0.045	0.044	2.2%														
Cs	3049918	6.8	7.02	3.2%														
Cu	3049918	6	6	0.0%														
Dy	3049918	4.91	4.84	1.4%														
Er	3049918	1.91	1.87	2.1%														
Eu	3049918	4.71	4.63	1.7%														
Fe	3049918	6.60	6.60	0.0%														
Ga	3049918	28.0	29.5	5.2%														
Gd	3049918	12.7	12.2	4.0%														
Ge	3049918	3	4	28.6%														
Hf	3049918	4	4	0.0%														
Ho	3049918	0.76	0.732	3.8%														
In	3049918	< 0.2	< 0.2	0.0%														
K	3049918	2.91	2.96	1.7%														
La	3049918	123	119	3.3%														
Li	3049918	74	74	0.0%														
Lu	3049918	0.21	0.21	0.0%														
Mg	3049918	6.38	6.14	3.8%														
Mn	3049918	1310	1300	0.8%														
Mo	3049918	< 2	< 2	0.0%														



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Nb	3049918	6	5	18.2%															
Nd	3049918	125	122	2.4%															
Ni	3049918	158	153	3.2%															
P	3049918	0.45	0.42	6.9%															
Pb	3049918	47	47	0.0%															
Pr	3049918	31.7	30.3	4.5%															
Rb	3049918	166	156	6.2%															
S	3049918	0.11	0.10	9.5%															
Sb	3049918	0.1	0.2	66.7%															
Sc	3049918	23	22	4.4%															
Si	3049918	25.9	26.3	1.5%															
Sm	3049918	20.3	18.9	7.1%															
Sn	3049918	2	2	0.0%															
Sr	3049918	843	886	5.0%															
Ta	3049918	< 0.5	< 0.5	0.0%															
Tb	3049918	1.27	1.19	6.5%															
Th	3049918	11.8	10.7	9.8%															
Ti	3049918	0.46	0.46	0.4%															
Tl	3049918	1.1	1.1	0.0%															
Tm	3049918	0.23	0.221	2.2%															
U	3049918	1.59	1.25	23.9%															
V	3049918	193	186	4.1%															
W	3049918	< 1	< 1	0.0%															
Y	3049918	20.2	19.3	4.6%															
Yb	3049918	1.5	1.35	12.5%															
Zn	3049918	154	154	0.4%															
Zr	3049918	157	137	13.6%															



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

Parameter	CRM #1 (ref. Till-2)																	
	Expect	Actual	Recovery	Limits														
Al	8.47	8.81	104%	80% - 120%														
As	26	28	109%	80% - 120%														
Ba	540.0	559	103%	80% - 120%														
Be	4.0	4.9	122%	80% - 120%														
Ca	0.907	0.980	108%	80% - 120%														
Ce	98	106	108%	80% - 120%														
Co	15	14	95%	80% - 120%														
Cr	74.0	77.2	104%	80% - 120%														
Cu	150.0	165	110%	80% - 120%														
Er	3.7	4.1	110%	80% - 120%														
Fe	3.77	4.09	108%	80% - 120%														
Hf	11	10	89%	80% - 120%														
K	2.55	2.63	103%	80% - 120%														
La	44	47	106%	80% - 120%														
Li	47.0	49.9	106%	80% - 120%														
Lu	0.6	0.6	99%	80% - 120%														
Mg	1.1	1.13	103%	80% - 120%														
Mn	780.0	870	111%	80% - 120%														
Mo	14	14	98%	80% - 120%														
Nb	20	19	96%	80% - 120%														
Ni	32.0	37.3	117%	80% - 120%														
Pb	31	31	100%	80% - 120%														
Rb	144	148	103%	80% - 120%														
Sb	0.8	0.8	105%	80% - 120%														
Sc	12.0	13.0	108%	80% - 120%														
Sm	7.4	8	109%	80% - 120%														
Sr	144.0	172	119%	80% - 120%														
Ta	1.9	2	104%	80% - 120%														
Tb	1.2	1.2	98%	80% - 120%														
Th	18.4	17.9	97%	80% - 120%														
Ti	0.527	0.548	104%	80% - 120%														



AGAT Laboratories

Quality Assurance - Certified Reference materials
AGAT WORK ORDER: 21T810761
PROJECT:

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CLIENT NAME: ROBERT DILLMAN

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U	5.7	5.2	91%	80% - 120%													
V	77.0	85.8	111%	80% - 120%													
W	5	5	102%	80% - 120%													
Y	40	37	92%	80% - 120%													
Zn	130.0	136	105%	80% - 120%													
Zr	390	369	94%	80% - 120%													

Method Summary

CLIENT NAME: ROBERT DILLMAN

AGAT WORK ORDER: 21T810761

PROJECT:

ATTENTION TO: ROBERT DILLMAN

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	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Al	MIN-200-12001/MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES
As	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
B	MIN-200-12001/MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES
Ba	MIN-200-12001/MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES
Be	MIN-200-12001/MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES
Bi	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Ca	MIN-200-12001/MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES
Cd	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Ce	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Co	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Cr	MIN-200-12001/MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES
Cs	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Cu	MIN-200-12001/MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES
Dy	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Er	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Eu	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Fe	MIN-200-12001/MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES
Ga	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Gd	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Ge	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Hf	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Ho	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
In	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
K	MIN-200-12001/MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES
La	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Li	MIN-200-12001/MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES

Method Summary

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SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Lu	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Mg	MIN-200-12001/MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES
Mn	MIN-200-12001/MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES
Mo	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Nb	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Nd	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Ni	MIN-200-12001/MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES
P	MIN-200-12001/MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES
Pb	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Pr	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Rb	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
S	MIN-200-12001/MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES
Sb	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Sc	MIN-200-12001/MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES
Si	MIN-200-12001/MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES
Sm	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Sn	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Sr	MIN-200-12001/MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES
Ta	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Tb	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Th	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Ti	MIN-200-12001/MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES
Tl	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Tm	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
U	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
V	MIN-200-12001/MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES
W	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Y	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS



Method Summary

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SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Yb	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Zn	MIN-200-12001/MIN-200- 12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-OES
Zr	MIN-200-12049	Bozic, J et al. Analyst. 114: 1401-1403; 1989	ICP-MS
Crush-Pass %			BALANCE
Pul-Pass %			BALANCE

