

# Murchison Minerals Provides Update on Its Exploration Program at Brabant Lake, Saskatchewan

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TORONTO, September 18, 2019 - Murchison Minerals Ltd. ("Murchison" or the "Company") (TSXV:MUR) is pleased to provide an update on its exploration program at Brabant Lake, Saskatchewan. The goal of the program was to identify the possible extension of the Brabant-McKenzie VMS deposit and to confirm the potential for discovering additional economic VMS-type mineralization elsewhere on the property. The prospecting program focused on 28 distinct targets chosen amongst the EM conductors identified in the January 2019 VTEM-MAX airborne survey, which covered approximately 50 percent of the 324 km<sup>2</sup> property holdings.

The geological compilation and interpretation of the exploration data is ongoing, with preliminary results suggesting that multiple targets warrant an active exploration drill program.

The work completed by Murchison through the course of the 2019 summer program (May 27<sup>th</sup> to August 29<sup>th</sup>) consisted of prospecting by two teams of two to three geologists or geological assistants. The teams utilized GDD Instrumentation Inc.'s "Beep Mat" technology.

Beep Mat is a small piece of geophysical equipment (Figure 2) that is pulled along the forest floor and creates audible beeps over electrically conductive and/or magnetic minerals such as sulphides. Once the source of the conductivity is located and exposed, the rock is then sampled.

A small gasoline-powered diamond saw (Figure 3) and a backpack-sized diamond drill (Figure 4) are used to collect suitable amounts of rock to sample. Some 294 rock samples were collected and sent for assays.

Multiple conductive zones identified in the January 2019 VTEM-Max airborne survey were located by ground prospecting. These zones typically required hand trenching through the soil and glacial till to reach bedrock. Trenches were generally 60 centimetres wide and ranged in length from one to ten metres. The location of the trenches is listed in Table 1 and a representative photo of a trench is displayed in Figure 5. After sampling, each of the trenches was reclaimed. The coordinates for each back-pack drill hole are listed in Table 2.

## Geophysical modelling

To date, 3D geophysical modelling has been completed on 15 major EM conductors.

Strong EM conductors often concordant with linear swamps/bogs

As part of the summer program, the teams looked at the 2006-08 stored drill core and observed that some of the sphalerite (zinc) mineralization from the drill core was showing signs of severe weathering after some 10 years of exposure to the atmosphere. This reinforces the theory that all EM conductors spatially linked to overlying linear bogs/swamps as identified in this prospecting program require drill testing, as they may overlie zinc rich bodies where weathering may have caused surface depressions.

Copper-bearing mineralization (chalcopyrite) appears much more resistant to weathering and may explain the lack of zinc mineralization observed during this prospecting program where only copper was identified on the surface overlying EM conductors.

A winter soil drill sampling program of the bog mud is planned, as this would quickly indicate the presence of potential zinc-related mineralization.

Hole BR-07-36 217.1-221.3 m

Hole BR-06-04 222.2 - 226.6 m

Figure 1 - Location map of EM conductors prospected

Figure 2 - Photo of "Beep mat"

Figure 3 - Photo of cut channel cut

Table 1 - Trench Locations

Trench #	Easting	Northing
1	569978	6205402
2	570360	6205569
3	570456	6205705
4	571705	6206216
5	577741	6208567
6	577500	6206344
7	579269	6211925
8	579315	6212124
9	579611	6215335
10	579619	6215292
11	578099	6214691
12	577992	6214663
13	574170	6212171
14	574338	6212371
15	574375	6212452
16	574174	6212356
17	574339	6212522
18	574319	6212573
19	578122	6216601

20            580574            6220382  
 21            589018            6223909

Table 2 - Backpack Drill Locations

Drill Collar	Easting	Northing	Azimuth	Dip	Depth (m)
DDH19-001	574867	6212204	262	-43	0.89
DDH MW19-001	574167	6212176	0	-90	1.60
DDH MW19-003	574177	6212355	0	-90	1.70
DDH MW19-004	574320	6212574	0	-90	0.70
DDH MW19-005	574323	6212573	144	-68	2.10
DDH MC19-001	579153	6211748	8	-80	1.30
DDH MC19-002	579139	6211728	114	-67	0.55
DDH BM19-001	580234	6219998	0	-90	0.40
DDH BM19-002	580570	6220379	0	-90	3.75
DDH BM19-003	580546	6220337	0	-90	1.00
DDH MK-003	571849	6206277	270	-60	0.65
DDH MK-004	571593	6206145	204	-80	0.97
DDH MK-001	569968	6205408	160	-80	1.75
DDH MK-002	570454	6205705	0	-90	1.75
DDH PP19-001	579620	6215294	72	-62	2.30

Figure 4 Photo of backpack drill in use

Figure 5 Example of before and after photos of reclamation work filling back in channels

### Summary

The geological compilation and interpretation of the exploration data is ongoing, with preliminary results suggesting that multiple targets warrant an active exploration drill program. Additional information will be released in the coming weeks.

### Qualifying Statement

The foregoing scientific and technical disclosures have been reviewed by Ehsan Salmabadi, P. Geo., qualified person as defined by National Instrument 43-101. Mr. Salmabadi is an independent consultant to Murchison and the Brabant-McKenzie project.

### About the Brabant-McKenzie Project

The Brabant?McKenzie project is located 175 kilometres northeast of La Ronge, Saskatchewan and approximately three kilometres from the community of Brabant Lake. The area is accessed year?round via provincial Highway 102 and is serviced by grid power. The project consists of one mining lease, which hosts the Brabant?McKenzie VMS deposit, and additional mineral claims totalling 324 square kilometres, which cover approximately 38 kilometres of strike length over favourable geological horizons, multiple known mineralized showings, and identified geophysical conductors.

Brabant?McKenzie VMS Deposit:

Indicated: 2.1 Mt @ 9.98% Zn Eq.

Inferred: 7.6 Mt @ 6.29% Zn Eq.

About Murchison Minerals Ltd. (TSXV: MUR)

Murchison is a Canadian?based exploration company focused on the exploration and development of the 100%-owned Brabant?McKenzie zinc?copper?silver project in north?central Saskatchewan. The Company also has a 100% interest in the HPM nickel?copper?cobalt project in Quebec. Murchison has 48.4 million shares issued and outstanding.

Additional information about Murchison and its exploration projects can be found on the Company's website at [www.murchisonminerals.com](http://www.murchisonminerals.com). For further information, please contact:

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