

## News Release

# MURCHISON PROJECT UPDATE FOR BRABANT-McKENZIE

**September 18, 2017 (Toronto, Ontario): Murchison Minerals Ltd. (the “Company”) (CSE: MUR)** is pleased to provide a project update on its recent exploration at Brabant-McKenzie high grade zinc-copper project (the “Project”) located in North-Central Saskatchewan.

### ***Project Update Highlights***

1. Initial modeling and interpretation of the Anomaly C and D 2017 ground SQUID electromagnetic (“EM”) and magnetic (“Mag”) survey (see press release February 21, 2017) and the 2011 VTEM and Mag airborne survey (the “Data”) have:
  - Confirmed EM Anomaly C as a conductive body and drill target measuring 1.4 km strike by 1.3 km depth beginning 260 m from surface
  - Identified EM Anomaly D is as a strongly conductive body of size having a 1 km strike and in excess of 2 km depth, beginning 145 m from surface
  - Defined and upgraded two regional anomalies, the TOM2 and Priority 3, as significant geophysical targets (See Figure 1)
2. Recent geological prospecting programs have identified chalcopyrite and pyrrhotite sulphide mineralization proximal to:
  - The surface projection of the modeled EM Anomaly D conductor
  - The TOM2 and Priority 3 VTEM and Mag airborne anomalies (the “Anomalies”)
3. The combination of:
  - The modeled EM Anomaly D conductor dimensions and its proximity to mineralized outcrops presents the potential for the existence of a sulphide body of size
  - The proximity of TOM2 and Priority 3 to mineralization present the potential for additional massive sulphide bodies at both targets

Based on the identification of mineralization in relation to these geophysical anomalies, the Company has staked an additional 1,873 ha of land adjacent to its current claims package.

The Company plans to conduct additional ground EM and Mag surveys on Anomaly D and the Anomalies in October in order to better define their size and geometries. Results from these surveys will be used to effectively design diamond drill programs to test these targets.

President and CEO, Kent Pearson, stated: *“The discovery of sulphide mineralization all within the areas of the geophysical anomalies is significant in that it provides potential evidence of a mineralizing system associated with these conductors. In particular, we are excited with the discovery of sulphide exposures located at the approximate surface projection of EM Anomaly D conductor given the 1 km by 2-3 km size and significant conductivity of this anomaly. By comparison, the conductor’s depth dimension is currently 4 to 6 times larger in size than the Brabant-McKenzie Deposit. It is also up to 60% more conductive. As a rule, when sulphides are present, EM and Mag geophysics have generally proven an effective tool in defining mineralization as evidenced from our winter 2017 diamond drill program. The addition of all of these targets continues to expand the exploration potential of this Project. We are looking forward to getting to work on them.”*

### **Project Update Details**

The Company has completed a full review and interpretation of the results of the deep penetrating ground EM and Mag surveys completed earlier this year on Anomaly C and D. Anomalies C and D are located approximately 1.4 km southwest and 1 km south, respectively, of the Brabant-McKenzie Deposit (the "Deposit").

The surveys were designed to further define both anomalies, identified by an airborne Heli-SAM EM program completed in December 2016, as drill targets (see press release January 19, 2017).

### **Anomaly C**

Results from the EM and Mag data as modeled indicates that Anomaly C represents a discrete conductive body and a confirmed drill target with modeled EM plate dimensions measuring 1.4 km by 1.3 km. The conductive body occurs at approximately 260 m depth from surface within the same geological horizon as the Deposit.

### **Anomaly D**

EM and Mag results over Anomaly D identified a significantly large, very intense conductive body and is located on the southeastern edge of the EM survey grid. Modeled plate dimensions measure a 1 km strike length by 2-3 km depth extents with the top edge of the plate at about 145 m from surface. The conductivity of this body is measured at approximately 1,300 Siemens. By comparison, the Deposit has a conductive range of 800 to 1,000 Siemens and current dimensions of 1 km of strike length and 520 m of depth extent. The Deposit outcrops at surface.

A geological prospecting program in the area of the Anomaly D modeled EM plate surface projection was successful in identifying outcrop exposures of approximately 150 m in strike length and containing sulphide mineralization of chalcopyrite and pyrrhotite. The evidence of surface mineralization and its proximity to the conductive body combined with the size and conductivity of the EM body is significant and presents the potential for a sulphide body of size.

The Company plans to conduct additional EM and Mag surveys on Anomaly D in October which will cover the conductive body and mineralized outcrop exposures. The focus of this survey will be to fully define the dimensions of the conductive body and its relation to the mineralized outcrops. Results from this program will be used to assist in designing a diamond drill program to test this target.

### **TOM2 and Priority 3**

The Company has also completed a review of the 2011 regional airborne VTEM and Mag survey. The results of this review has identified and upgraded the TOM2 and Priority 3 as anomalies of high significance.

The Anomalies are located at the south end of Brabant Lake approximately 7.5 km south of the Deposit. A follow up geological prospecting survey in the area of the surface projection of the Anomalies successfully discovered sulphide mineralization in outcrops, including chalcopyrite and pyrrhotite. The combined geophysics and proximity to mineralized exposures are significant in that they present the potential for sulphide bodies at both anomalies.

The Company is currently planning ground EM and Mag programs to further define the Anomalies and the associated mineralization in order to design drill programs to test these targets. The program will be carried out later this year.

### **Additional Ground Staked**

The Company believes the location of the priority geophysics targets and the associated mineralized exposures identified add a significant dimension to the Project and consequently has staked an additional 1,873 ha of land adjacent to its current claims package. The Company's claims now cover a total of 5,632 ha over a strike length of 16 km.

### **Qualifying Statement**

The foregoing scientific and technical disclosure have been reviewed by Kent Pearson P. Geo., Finley Bakker, P. Geo. and Martin St-Pierre, P. Geo., qualified persons as defined by National Instrument 43-101. Mr. Bakker and Mr. St-Pierre are independent consultants to Murchison Minerals Ltd. and the Brabant-McKenzie Project. Mr. Pearson is President and Chief Executive Officer of Murchison Minerals Ltd.

### **About Murchison**

Murchison Minerals Ltd. is a Canadian based exploration company with a diversified portfolio of properties, including the Brabant-McKenzie zinc-copper project in North-Central Saskatchewan and the HPM Nickel/Copper/Cobalt project in Quebec. Murchison also holds gold claims in the Pickle Lake area of northwestern Ontario.

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

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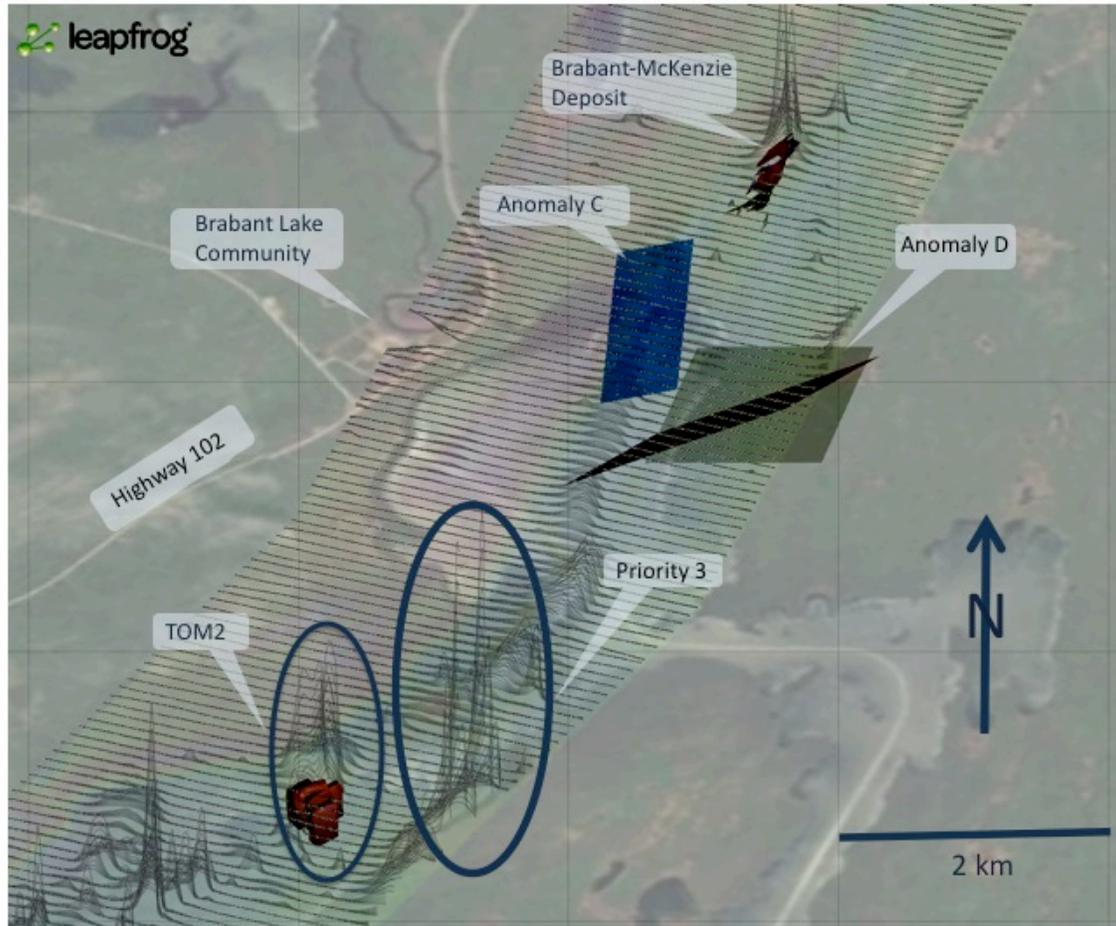
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### **Forward-Looking Information**

*Certain information set forth in this news release may contain forward-looking information that involves substantial known and unknown risks and uncertainties. This forward-looking information is subject to numerous risks and uncertainties, certain of which are beyond the control of the Company, including, but not limited to, the impact of general economic conditions, industry conditions, and dependence upon regulatory approvals. Readers are cautioned that the assumptions used in the preparation of such information, although considered reasonable at the time of preparation, may prove to be imprecise and, as such, undue reliance should not be placed on forward-looking information. The parties undertake no obligation to update forward-looking information except as otherwise may be required by applicable securities law.*

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**Figure 1.** Location of Anomaly C, D, Tom2 and Priority 3 relative to the Brabant-McKenzie Deposit



**SQUID EM Anomaly C and D, Regional VTEM and Priority 3 Image Source:**

*Brabant McKenzie HeliSAM and Squid EM Review for Murchison Minerals Ltd. June 2017, Mira Geosciences  
St-Pierre Geoconsultant Inc.*

**Resource Domain Image Source:**

*Second Technical Report on the Brabant Lake Property, Saskatchewan, Canada for Manicouagan Minerals Inc. (Murchison Minerals Ltd.) – September 12, 2008*