

Global Battery Metals Completes Initial Knockeen Trench Sampling Program at Leinster Lithium Project, Ireland

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Company submits near surface trenched spodumene pegmatite samples to lab for expedited assay testing

Vancouver, Dec. 7, 2023 - [Global Battery Metals Ltd.](#) (TSXV: GBML) (OTCQB: REZZF) (FSE: REZ) (the "Company" or "GBML" or "Global Battery Metals"), an international critical mineral exploration company focused on growth-oriented lithium and battery metal projects, is pleased to announce it has completed the recent shallow trench sampling program at its Knockeen lithium pegmatite project located on GBML's Leinster Lithium Project in Ireland.

Highlights:

- A cross-cut trench of approximately 25m in total length was successfully opened up at 1-2m depth to confirm a historically reported 1.8m wide spodumene bearing pegmatite dike.
- Samples collected at 1m intervals along the exposed strike length of the dike were submitted for expedited lab testing with results delivery anticipated mid-December.
- Rock and soil assay results will be used for 2024 exploration planning of the prospect and at several other target areas on the licence property.

Michael Murphy, CEO of Global Battery Metals, said: "We're moving fast to see these assays. The team is pleased to confirm the historic dike target location and complete initial surface trench sampling before year end. At only two metres deep, these trenching sample assays are important as they'll give us a clear view into the near surface lithium mineralization opportunity that we believe exists. We are preparing now for our next exploration steps at Knockeen and surrounding areas, and believe that we'll see an active and busy lithium discovery district take shape early in 2024."

Image 1: Knockeen Lithium Pegmatite Shallow Trench

GBML successfully intersects its target. Pictured is a cross cut intersection (facing north) of the spodumene bearing pegmatite dike in bedrock being prepped for sampling at 1m intervals.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/7080/190163_aa676f63843698d0_001full.jpg

Image 2: Knockeen Lithium Pegmatite Shallow Trench

One of the spodumene pegmatite boulders unearthed from the shallow trench at Knockeen.

To view an enhanced version of this graphic, please visit:

https://images.newsfilecorp.com/files/7080/190163_aa676f63843698d0_002full.jpg

The intersected pegmatite in the trench contained spodumene crystals along its full exposed length and five chip samples were collected at 1m intervals along its exposed length (see Image 1). These samples, along with several grab samples from large blocks of pegmatite in the trench (see Image 2), are also being analyzed by ALS Laboratories in Ireland.

Trench Details

The current trench was fully permitted through the Geoscience Regulation Office (GSRO) of the Department of Environment, Climate and Communications. The trench was designed to confirm a historically reported trenched spodumene pegmatite dike occurrence which was intersected over 1.8m width but with no assay data reported from this time. The current trench lies 25m along trend to the east of the old trench and forms a "T" shape by first cross cutting the dike with a 25m N-S trench and then exposing the dike along its length to the west towards the historical trench occurrence. Work on this small footprint of field area was undertaken in close association with the landowner and the Company will rehabilitate the trenched area back to the original field condition on completion (see Image 3).

The trenching will also assist in the interpretation of the spodumene bearing pegmatite dikes encountered in the 2023 summer drilling program. The dike dips northwestwards at approximately 40 degrees. This trench pegmatite is interpreted to be the same pegmatite intersected at 30m depth in drill hole 23-1597-02 and at 60m depth in drill hole 23-1597-03. This gives a total down dip extension of at least 100m from surface. This dike is just one of the spodumene bearing dikes intersected in the drilling which form a broadly NE-SW trending dike swarm of up to seven dikes in 24 separate intercepts in nine diamond cored drill holes.

Detailed soil profile sampling was also conducted along the length of the main N-S trench to determine the best soil sample medium, A-B-C horizon to locate bedrock pegmatites below surface. This information will be used to help plan further broader reaching shallow soil geochemistry surveys.

Image 3: Knockeen Lithium Pegmatite Shallow Trench (Detail)
Location of historical trench and recent drilling.

To view an enhanced version of this graphic, please visit:
https://images.newsfilecorp.com/files/7080/190163_aa676f63843698d0_003full.jpg

Geology & Structure

The property lies along part of a 135km long regional structural trend of known lithium-bearing pegmatite bedrock occurrences, situated along the south-eastern margin of the Leinster Granite Massif and centred on the Aclare and Moylisha occurrences which were discovered during 1960s and 1970s and are currently being explored by Blackstairs Lithium (under the Ganfeng - International Lithium joint venture).

This trend is focused along and within a broad regional NE-SW trending structural zone termed the East Carlow Deformation Zone ("ECDZ") which runs for over 135km along the SE flank of the Leinster Granite Massif between Dublin in the NE and north of New Ross to the SW. A recent detailed regional structural review and interpretation by the Company using remote sensing data and regional geophysical data sets confirmed that PLA 1597 lies within the key ECDZ structural zone.

The Knockeen target area lies directly within this zone as it passes through the northern margin of the Blackstairs Granite Pluton whilst the southern part of the license is cross cut by a splay of the ECDZ which passes south westwards along the southern margin of the Blackstairs Granite Pluton. This southerly splay has been termed the North Wexford Deformation Zone ("NWDZ") and provides a second highly prospective trend for the focus for ground exploration activities. Several target areas have already been identified for detailed prospecting and mapping which will commence over the coming months.

About the Leinster Lithium Project

Located south of Dublin in the counties of Wicklow and South Carlow, the Leinster Lithium Project consists of 16 prospecting license areas covering approximately 525km² situated along strike to nearby Blackstairs Lithium's Avalonia Project (297km² joint venture between Ganfeng Lithium Co. Ltd. and [International Lithium Corp.](#)). All of GBML's license holdings are located within or along the important East Carlow Deformation Zone, which is interpreted to control the emplacement of an existing LCT pegmatite field at the Blackstairs Mountains.

With first phase drilling concluded at Knockeen, GBML has succeeded in identifying a new and structurally

controlled LCT pegmatite system of significance, importantly recording 24 intervals of lithium bearing spodumene pegmatites intersected across nine holes drilled. The spodumene pegmatites range in width between 0.10m up to 0.63m (true width) with the highest values grading up to 2.57% Li₂O. No drilling has ever been carried out at the Knockeen Prospect previously and intersecting lithium bearing pegmatites in all of the holes drilled so far is considered a major technical success for the Company. Prior surface exploration activities identified and confirmed expansive surface boulder trains of lithium pegmatite lithologies in a number of areas across the Company's property, with recent assay results of 66 rock samples analyzed by ALS Laboratories earlier this year returning Li₂O% lithium contents ranging up to 3.75% Li₂O / 17,410 ppm li.

Responsibility to the Environment

All mineral exploration activities in Ireland take place under the auspices of the GSRO, a division within the Government Department of the Environment, Communications & Climate Change. Exploration is governed under the framework of both Irish and EU legislation that has been implemented to ensure that the environment is protected during exploratory work. Prospecting license holders must comply with all of the relevant legislation. The Company is pleased to confirm that it adheres to the highest standards of good practice in relation to its ongoing exploration activities having completed a detailed GSRO "Appropriate Assessment" process prior to commencement which was reviewed, approved and signed off by the appropriate oversight authorities. GBML's Directors understand that social license is key to unlocking positive exploration outcomes by following low impact / low sound / low disturbance exploration program best practice for environmental sensitivity.

Competent Person

All scientific and technical information in this announcement has been prepared under the supervision of and reviewed and approved by EurGeol Vaughan Williams, M.Sc., P.Geo., (Principal of Aurum Exploration Services currently providing exploration services to GBML and to LRH Resources Limited), a "qualified person" within the meaning of National Instrument 43-101.

Quality Assurance/Quality Control

Quality Assurance/Quality Control ("QA/QC") of drill core samples and associated assay results are monitored by GBML through a QA/QC protocol which includes the insertion of blind standard reference materials, blanks, and duplicates at regular intervals. Core is drilled in HQ core diameter and each 3 metres of core recovered is orientated by the drilling contractor on completion of each run drilled. Drill core is laid out in strong core boxes and transported by Company geologists from the drill rig to GBML's secure logging facility. Drill core is then logged using an established logging procedure capturing detailed lithological data as well as measuring all structural elements using a Reflex IQ Logger for accurate orientation of all contacts and structures. The core is marked up for sampling and sawn on site using a diamond core saw. Half core samples are then bagged and secured using plastic cable ties and the samples are then securely transported to ALS Laboratory ("ALS") facilities in County Galway, Republic of Ireland. Samples are analyzed for lithium as well as multi- elemental trace elements using the specific LCT pegmatite analytical suite ME-MS89L offered by ALS. ALS also performs its own internal QA/QC procedures to assure the accuracy and integrity of results. GBML is unaware of any drilling, sampling, recovery, or other factors that could materially affect the accuracy or reliability of the data referred to herein.

About Global Battery Metals Ltd.

GBML is an international mineral exploration and development company with a focus on lithium and other metals that comprise and support the rapid evolution to battery power. GBML currently maintains economic interests in three battery metal projects: (1) an option to acquire up to a 90% interest in the Leinster Lithium Property and drill program currently underway in Ireland; (2) a 100% interest in the drill-ready Lithium King Property in Utah; and (3) a 55% stake in Peru-based Lara Copper Property, which has over 10,000 metres of drilling. As previously disclosed, Minsur S.A., a Peruvian mining company, entered into an option agreement with GBML and Lara Exploration Ltd. to acquire the Lara copper property for staged payments of USD\$5.75 million. GBML will retain a 0.75% net smelter royalty. GBML's common shares are listed on the TSX Venture Exchange (TSXV: GBML); Frankfurt Stock Exchange (FSE: REZ); and are quoted on the OTC Markets (OTCQB: REZZF).

[Global Battery Metals Ltd.](#)

Michael Murphy BA, MBA, MSc., ICD
President & CEO
T: 604-649-2350
E: MM@gbml.ca
W: www.gbml.ca

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