

# Foremost Lithium to Complete LiDAR Survey on its Peg North Property in Snow Lake, Manitoba

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VANCOUVER, Oct. 03, 2023 - [Foremost Lithium Resource & Technology Ltd.](#) (NASDAQ: FMST) (CSE: FAT) ("Foremost Lithium", "Foremost" or the "Company"), a North American hard-rock lithium exploration company, today announced that EarthEx Geophysical Solutions Inc. will commence LiDAR surveying at the Company's Peg North property the week of October 9, 2023. The upcoming LiDAR survey on the Peg North claim block will complete the collection of LiDAR and high-resolution magnetics over the entirety of Foremost's "Lithium Lane" properties in the Snow Lake area, including its Jean Lake, Grass River, Zoro and Peg North properties.

Foremost has flown a total of 7,472.7-line km of drone-borne magnetics, using the exMAG system over its entire 43,000+ acres/17,500 ha land package. The drone magnetometer surveys were flown with a flightline azimuth of 070° and flight-line spacing of 25m. Tie lines were established at 250m spacing.

Figure 1. Drone Carrying a Magnetometer

*"Completing the LiDAR surveying over the entirety of our Lithium Lane properties is an important development for our exploration program," said Jason Barnard, President and Chief Executive Officer of Foremost Lithium. "Utilizing aerial drone surveys to better understand the structural details both above and below surface enables us to prioritize the best targets for future drilling. This approach is effective on our large, 43,000-acre district-scale Lithium Lane properties. We look forward to sharing the results from the final LiDAR survey on Peg North once it is completed."*

## Unmanned Aerial Vehicles ("UAV") and The exMAG System

UAV magnetic data lends itself very well to finding new prospective drill targets. The UAV system's resolution has provided excellent litho-structural detail over all Foremost's Lithium Lane properties and has generated detailed 3D models of the magnetic sources on the properties. Magnetic surveys can provide valuable exploration information such as depth to source, dip of the body as well as the overall shape and morphology of the lithological unit. The exMAG system is a geophysical system which generates industry-leading magnetic maps and 3D models by employing advanced drone navigation technology to fly lower and more precise missions than other drone-borne systems, and advanced processing methodology to generate high quality deliverables. Its purpose is to provide Foremost with the best possible suite of tools for characterizing the magnetic characteristics subsurface in their study-area, with a focus on detail and precision.

The resolution of the mag survey and the exMAG system allows targeting of bedrock structures which may host lithium pegmatite deposits, which when coupled with 3D products from inversion of magnetic survey data provides an excellent source of information for Foremost Lithium to define drill-targets on its property based on its magnetic signatures including both magnetic and non-magnetic targets. The combination of previously flown magnetics, and LiDAR collected by EarthEx have revealed numerous important features across the various properties, including structures in the exMAG drone-borne magnetic data which line up with known pegmatite occurrences, other structures in the vicinity of known pegmatites which suggest a pegmatite dyke swarm may be present; topographic expressions which may indicate bodies resistive to weathering, such as pegmatites, are present.

Daniel Card, President, and Chief Geophysicist of EarthEx, commented: *"The upcoming of the Peg North LiDAR will complete blanket coverage of multiple high-resolution datasets which will serve as an excellent foundation for exploring the impressive Lithium Lane land package. Exploration meetings examining the*

*previously acquired magnetic and LiDAR datasets over the rest of the property have shown excellent correlation between the data and known pegmatites on the property. This allows Foremost to use these areas as a benchmark for data signatures, which will serve as a powerful tool for generating high quality drilling targets."*

## Peg North Property

EarthEx flew a drone-assisted magnetic survey over the entire property in Q3 of 2022 and completed a UAV assisted high-resolution airborne magnetic survey. The survey was conducted between June 15<sup>th</sup>, 2022, and October 6<sup>th</sup>, 2022, comprised 2990.5-line km, and identified specific areas of interest. The exMAG detailed magnetic data collected by EarthEx at Peg North revealed a 3km long discontinuity in the northeast of the project. This major structure may provide pathways suitable for mineralization. An MMI (Mobile Metal Ion) survey by Dahrouge Geological Consulting has been completed in the area this past summer with assays pending. The upcoming LiDAR survey will commence in this area, before proceeding to cover the remainder of the Peg North property.

## Figure 2. Peg North Property's Magnetic Fabric and Focus of its 3KM Structure

A review of the magnetic survey data on each of the four Lithium Lane properties has defined numerous discontinuities in the magnetic fabric as documented by the UAV-assisted survey. These discontinuities are interpreted to reflect geological structures with the potential to provide pathways for lithium-bearing pegmatite and other mineralization. The orientations of the discontinuities are consistent with those of the B1 pegmatite on the Company's Jean Lake property and the Thompson Brothers deposit hosting 11.1 million metric tonnes of indicated and inferred resources at 1% Li<sub>2</sub>O (lithium oxide).<sup>1</sup>

Similarly, high resolution LiDAR models of ground elevation or relief on the Lithium Lane properties have also defined many areas with comparable orientations as known spodumene-bearing pegmatite. Both magnetic discontinuities and LiDAR images with appropriate orientations, coupled with mapping and geochemical surveys compliments the magnetic survey to provide a base to follow-up exploration and drill targeting.

## About Foremost Lithium

Foremost Lithium (NASDAQ: FMST) (CSE: FAT) is a hard-rock lithium exploration company focused on empowering the North American clean energy economy. Foremost's strategically located lithium properties extend over 43,000 acres in Snow Lake, Manitoba, and hosts a property in a known active lithium camp situated on over 11,400 acres in Quebec called Lac Simard South.

Foremost's four flagship Lithium Lane Projects as well as its Lac Simard South project are located at the tip of the NAFTA superhighway to capitalize on the world's growing EV appetite, strongly positioning the Company to become a premier supplier of North America's lithium feedstock. As the world transitions towards decarbonization, the Company's objective is the extraction of lithium oxide (Li<sub>2</sub>O), and to subsequently play a role in the production of high-quality lithium hydroxide (LiOH), to help power lithium-based batteries, critical in developing a clean-energy economy. Foremost Lithium also has the Winston Gold/Silver Property in New Mexico, USA. Learn More at [www.foremostlithium.com](http://www.foremostlithium.com).

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## Company

Jason Barnard, President and CEO

+1 (604) 330-8067

[info@foremostlithium.com](mailto:info@foremostlithium.com)

Investor Relations  
Michael Kim or Brooks Hamilton  
MZ North America  
+1 (737) 289-0835  
FMST@mzgroup.us

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<sup>1</sup> <https://www.abnnewswire.net/companies/en/37973/Snow-Lake-Resources-Ltd.html>

Photos accompanying this announcement are available at:

<https://www.globenewswire.com/NewsRoom/AttachmentNg/5a2eb999-8b50-4852-abb7-78f265f4c056>

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