

Frontier Lithium Strikes High-Grade Lithium at Ember Pegmatite 1km from the Spark Resource

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SUDBURY, Nov. 19, 2024 - [Frontier Lithium Inc.](#) (TSXV: FL) (FRA: HL2) (OTCQX: LITOF) ("Frontier" or "the Company") pleased to announce progress on fieldwork activities supporting Phase 1 of the definitive feasibility study on the PAK Lithium Project and provide an exploration update, including details on the maiden drillhole at the Ember LCT pegmatite, located west-northwest of the Spark deposit.

Highlights

- DDH PL-138-24 intersected 18.8 metres of pegmatite from 42.7 to 61.4 meters, averaging 1.43% Li₂O.
- The Ember pegmatite originally called Spark-Ext, was channeled in 2023 with two parallel channels averaging 2.46% Li₂O over a combined length of 18 m including 6m averaging 3.27% Li₂O (Press Release Sept 25, 2023).
- The Ember pegmatite survey completed
- "Results from PL-138-24 have extended the high-grade lithium zone at surface to a depth of 40 metres, further enhancing exploration potential of the pegmatite" states Garth Drever, VP Exploration "Structural measurements on the outcrop and oriented drill core suggest a West Southwest-East Northeast orientation of the Ember pegmatite which is consistent to the Spark deposit suggesting a possible en echelon structural relationship. Since they share similar textural and mineralogical features, the unexposed potential of Ember could prove to be significant."
- The area surrounding
- During the same period, three condemnation diamond drill holes were completed on proposed stockpile sites for definitive feasibility study and a small-scale regional exploration program was completed. Field mapping and prospecting on claim north of the mining leases identified target areas that will require further work, including detailed mapping and channel sampling. A lithogeochemical orientation survey was initiated by sampling host rock at the Spark and Bolt pegmatites and surrounding area including the Ember pegmatite. The objective is to assess the potential of identifying unexposed pegmatites by vectoring areas of higher fractionation.

Figure 1 is a compilation map shows the location of the two channels and drill hole PL-138-24 at Ember in both plan and cross view. The dashed lines on the lower right map outlines the potential extension of the Ember pegmatite which is also an unconsolidated glacial ground moraine with abundant glacial erratics (boulders) of varying size and composition. Further work is required to determine the thickness of the overlying glacial material away from the exposed portion of the pegmatite.

Table 1 details the mineralized intersection on the Ember pegmatite while Table 2 summarize all drill holes completed at the PAK Project in 2024.

Table 1: Summary of the Drill Hole Intersection at Ember

DDH PL-138-24 Drill hole PL-138-24 was designed to follow up on the results from channel samples CH-52 and CH-53 at the Ember LCT pegmatite outcrop at depth. The results confirm that the LCT pegmatite extends 40 meters below surface, with a slightly wider zone than expected but a lower grade compared to the surface channel samples.

Zone	From (m)	To (m)	Width (m)	Li ₂ O (%)	Cs ₂ O (%)	Ta ₂ O ₅ (ppm)	Nb ₂ O ₅ (ppm)	SnO ₂ (ppm)	Rb ₂ O (%)	U ₂ O ₅ (ppm)
Pegmatite Zone	42.7	61.4	18.8	1.43	0.010	75	66	130	0.16	1.0
including	48.9	56.7	7.8	2.54	0.010	74	69	121	0.20	1.0

Table 2: Summary of 2024 Phase XIV Drilling at the PAK Project

DDHNo		Date Drilled		UTM Zone 15N (NAD83)		Collar	Orient	Metre
		Start	End	Easting	Northing (mASL)			
Spark - Geotechnical Phase XIV	PL-GDH-24-24	2024-02-17	2024-02-25	472,759	5,829,448	351.7	128	-72 0
	PL-GDH-25-24A	2024-02-25	2024-02-27	472,695	5,829,440	352.0	228	-72 0
	PL-GDH-25-24	2024-02-27	2024-03-05	472,699	5,829,432	352.0	228	-72 0
	PL-GDH-26-24	2024-03-06	2024-03-11	472,692	5,829,527	355.0	323	-72 0
	PL-GDH-27-24	2024-03-11	2024-03-17	472,763	5,829,539	360.0	19	-70 0
	Total							
Condemnation - Phase XIV	PL-134-24	2024-03-19	2024-03-21	472,272	5,829,220	329.0	1	-46 0
	PL-135-24	2024-08-21	2024-08-25	473,800	5,830,040	337.9	11	-44 0
	PL-136-24	2024-08-26	2024-09-01	474,304	5,830,018	326.9	191	-46 0
	PL-137-24	2024-09-01	2024-09-06	474,301	5,830,018	326.9	9	45 0
	Total							
Exploration	PL-138-24	2024-09-08	2024-09-09	471,330	5,829,964	331.0	155	-45 0
	Total							

Grand Total

In addition to the diamond drilling at Ember, activities to advance the PAK Lithium Project are ongoing. These include work in support of the mine and mill definitive feasibility study, environmental baseline and monitoring to support permitting, and community engagement. During May and June, geotechnical drilling and test pits were conducted on potential infrastructure sites, including waste rock stockpiles, tailings management, and mine and mill facilities. From August to September, a Stage 2 archaeology field investigation was completed by a licensed archaeologist with participation from a local First Nation community. All environmental baseline studies focused on the mine and mill were concluded in November, with final reports set for release by the end of 2024. These efforts support ongoing permitting advancement and community engagement with First Nations focused on creating a stronger understanding of the project and mitigating any concerns brought forward.

Due Diligence

All scientific and technical information in this release has been reviewed and approved by Garth Drever, P.Geo., the qualified person ("QP") under the definitions established by National Instrument 43-101 - Standards of Disclosure for Mineral Projects. Under Frontier's QA/QC procedures, all drilling was completed by Chenier Drilling Ltd. of Val Caron, Ontario using thin walled BTW drill rods (4.2 cm core diameter) and a Reflex ACT III oriented core system. Using the Reflex system, the drill core was oriented and marked as it was retrieved at the drill. A Reflex EZ-Trac survey instrument was used every 50m downhole and again at the end of each hole when rods were pulled out. A Reflex North Finder APS unit was utilized to complete accurate positioning and orientation of the drill collar upon setup. The core was boxed and delivered to the Frontier core shack where it was examined, geologically logged, and marked for sampling. The core was photographed prior to sampling. Using a rock saw, the marked sample intervals were halved with one-half bagged for analysis. Sample blanks along with lithium certified reference material was routinely inserted into the sample stream in accordance with industry recommended practices. Field duplicate samples were also taken in accordance with industry recommended practices. The samples were placed in poly sample bags and transported to AGAT Laboratories Ltd. (AGAT) in Thunder Bay, Ontario for sample preparation and to Mississauga, Ontario for processing and quantitative multi-element analysis. AGAT is an ISO accredited laboratory. The core is stored on site at the Company's Knox exploration camp.

About Frontier Lithium

Frontier Lithium Inc. is a pre-production business with an objective to become a strategic and integrated domestic supplier of spodumene concentrates for industrial users as well as battery-grade lithium hydroxide and other chemicals to the growing electric vehicle and energy storage markets in North America. The Company's PAK Lithium Project maintains the largest land position and resource in a premium lithium mineral district located in Ontario's Great Lakes region.

About the PAK Lithium Project

The PAK Lithium Project contains North America's highest-grade lithium reserves and is the largest in Ontario by size. The project encompasses close to 27,000 hectares and remains largely unexplored; however, since 2013, the company has delineated two premium spodumene-bearing lithium deposits (PAK and Spark), located 2.3 kilometres apart. Exploration is continuing on the project through two other spodumene-bearing discoveries: the Bolt pegmatite (located between the PAK and Spark deposits), as well as the Pennock pegmatite (25 kilometres northwest of PAK deposit within the project claims). A 2023 Pre-Feasibility Study "National Instrument 43-101 Technical Report PFS PAK Lithium Project" by BBA E&C Inc., delivered a 24-year project life, delivering a post-tax NPV(8%) of US\$1.74 billion and IRR of 24.1% as per the press release disseminated on May 31, 2023, and was filed on SEDAR+ (www.sedarplus.ca)

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