

Number/Numero:

PR-22-000133

This permit is issued under the authority of section 78.3 of the *Mining Act* and the Exploration Plans and Exploration Permits Regulation (O. Reg. 308/12). It is subject to the provisions of the Act and regulation as well as the terms and conditions included in this permit.

Ce permis est émis conformément aux dispositions de section 78.3 de la *Loi sur les mines* et des règlements et est sujet aux restrictions et dispositions de ce lois et règlements ainsi qu'aux conditions ci-énoncées.

**Note: The issuance of this permit does not relieve the applicant from the responsibility of acquiring any other agency, board, government, etc. approval as may be required nor does it relieve the permittee from the requirements of any other legislation or guarantee access to the land.**

**Remarque : La délivrance de ce permis n'exempte pas le demandeur de l'obligation d'obtenir l'autorisation de tout autre organisme, commission, gouvernement, etc. qui pourrait être exigée, n'exempte pas le titulaire des dispositions de toute autre loi et ne garantit pas l'accès à la terre.**

## Project Details/ Détails sur le projet

Project Name/ Titre du projet

PAK Project

Qualified Supervisor/Superviseur qualifié

Garth Drever

## This Permit is issued to: Ce Permis est délivré a:

Name of Permittee:/Nom du détenteur:

Frontier Lithium Inc.

Mailing Address:/Adresse postale:

2736 Belisle Drive, Val Caron ON P3N1B3

To conduct early exploration activities from/ Pour effectuer des activités d'exploration du (yyyy/mm/dd):

2022/11/07

to: 2025/11/06

On claim/lease/licence of occupation number(s):/Sur le numéro(s) du claim/bail/permis d'occupation:

227011, 286285, 302659

As per the project map(s) and Activity Details Report, all of which are attached hereto and which form part of this permit/  
Selon la/les carte(s) du projet et le Rapport Détaillé des Activités, tous qui sont attachés ici et qui forment partie du permis

for the purpose of Permit activities:

- Mechanized Drilling (assembled weight >150kg)/ Forage mécanisé (poids assemblé >150 kg)
- Mechanized Stripping (>100m<sup>2</sup> in 200m radius)/ Décapage mécanisé (>100 m<sup>2</sup> dans un rayon de 200 m)
- Pitting and Trenching (>3m<sup>3</sup> in 200m radius)/ Creusement de fosses et de tranchées (>3 m<sup>3</sup> dans un rayon de 200 m)
- Line Cutting (>1.5m width)/ Découpage des quadrillages (>1,5 m de largeur)
- Other (Early exploration activities for which Director has required a permit)/Autre (Activités d'exploration préliminaires pour laquelle le Directeur a demandé un permis):

for the purpose of Plan activities:

- Ground geophysical survey requiring a generator (Les levés géophysiques au sol qui nécessitent l'utilisation d'une génératrice)
- Mechanized Drilling (assembled weight <150kg)/ Forage mécanisé (poids assemblé <150 kg)

- Mechanized Stripping (<100m<sup>2</sup> in 200m radius)/ Décapage mécanisé (<100 m<sup>2</sup> dans un rayon de 200 m)
- Pitting and Trenching (1-3m<sup>3</sup> in 200m radius)/ Creusement de fosses et de tranchées (1-3 m<sup>3</sup> dans un rayon de 200 m)
- Line Cutting (<1.5m width)/ Découpage des quadrillages (<1,5 m de largeur)

Subject to the following conditions:/Et sous les conditions suivantes:

1. The Permittee shall keep this permit or a true copy thereof on the permit area./Le détenteur conserver ace permis ou une copie conforme sur les lieux des travaux.
2. The person in charge of the operation conducted under this permit shall produce and show this permit or the true copy kept on the exploration permit area to any inspector whenever requested by the officer./Le responsable des travaux couverts par ce permis doit produire le permis ou sa copie conforme si un inspecteur lui demande.
3. The requirements outlined in Schedule 1 of Ontario Regulation 308/12 and applicable Provincial Standards for Early Exploration/ Les exigences générales identifier à l'annexe 1 du Règlement de l'Ontario 308/12 et les normes provinciale relatives a l'exploration préliminaire.
4. Other terms and conditions as listed on this permit./Autres termes et conditions énoncées sur ce permis.

Place of Issue/Emis a:

Thunder Bay

Issued by/Emis par:

Scott Burgess, Director of Exploration

Date of Issue/Date émis (yyyy/mm/dd, aaaa/mm/jj):

2022/11/07

Signature of Director/Signature du directeur:



Additional Terms and Conditions:

Autre termes et conditions:

Collection of personal information, if any, on this form is authorized by sections 7, 78.2, 78.3, and subsection 178.2(1) of the *Mining Act* for the purpose of creating a public record as described in section 37 of the *Freedom of Information and Protection of Privacy Act*. This information may also be posted in a modified form on the Ministry of Northern Development and Mines website and on the Environmental Registry for public comment. Questions about this collection should be directed to the Mineral Exploration and Development Section, Ministry of Northern Development and Mines, 933 Ramsey Lake Road, Sudbury ON P3E 6B5. Telephone 705-670-5815.

Preferred language of  
correspondence

English

French

Fields marked with an asterisk (\*) are mandatory.

## 1. Project Details

Project Name \*

PAK Lithium Project

Name of Early Exploration Proponent \*

Frontier Lithium Inc.

Is the proposed early exploration area within the project area for an existing filed closure plan? \*

Yes  No

Are there any mine hazards identified in the [Abandoned Mines Information System \(AMIS sites\)](#) in your project area? \*

Yes  No

Enter the Universal Transverse Mercator Coordinates (UTM) in North American Datum 83 (NAD 83) Grid for the centre of your project area

Zone (N) \*

Zone 15N

Easting (m) \*

473150

Northing (m) \*

5829150

## 2. Exploration Logistics and Detailed Information

Will explosives be used for any activity/activities? If yes describe in detail which activities require the explosives, where they will be stored, and any other relevant information.

No

What commodity or commodities are being sought in the work program?

Lithium

How will you be transporting personnel to the exploration site for all activities? Describe in detail.

A helicopter will be used to support the drill and drill personnel during summer months from a temporary camp at Pakeagama Lake 2 km away. In Winter, personnel will be transported to site by off-road vehicles from the temporary camp. In addition, during Summer personnel can also either walk or use a tracked ATV to access the area.

How will you be mobilizing/demobilizing equipment to and from the exploration site for all activities? Describe in detail.

A dozer (Caterpillar D4) and an excavator (Linkbelt 210) will be used to construct access trails and move the drill and fuel to the site. The heavy equipment (dozer/excavator) as well as a diamond drill are currently on site 500 m away on the Spark pegmatite. When the work program is completed the equipment will be demobilized along the existing trail during winter months.

What type of equipment will you be using for all of the early exploration activities?

A Hydracore drill mounted inside a sea container capable of drilling 800m will be used for diamond drilling on the project. Portable rock saws will be used to complete channeling. The excavator and dozer along with a Wajax pump will be used for stripping.

What type of drilling will take place? (e.g. core drilling, reverse circulation)  
Core drilling with the drill capable of depths up to 800m will be used.

Do you anticipate the removal of the drill casing?

Yes  No

If yes, when will you be removing it?

Immediately  3 to 6 months  6 to 12 months  1 to 2 years

For the exploration activities you have selected in your early exploration submission please fill in the associated details (required for all activities proposed). \*

Geophysical surveys requiring a generator	▶ Type of Survey	_____
Line cutting	▶ Estimated total line length	_____ metres
Mechanized Stripping	▶ Planned Number of stripped locations	<u>3</u>
	Estimated total area of stripping	<u>300</u> square metres
Pitting and Trenching of Bedrock	▶ Planned Number of Pits/Trenches	<u>5</u>
Mechanized Drilling	▶ Planned drill hole diameter	<u>4.2</u> centimetres
	<input type="checkbox"/> 1 - 5 pads	
	<input checked="" type="checkbox"/> 6 - 10 pads	
	<input type="checkbox"/> 11 - 15 pads	
	<input type="checkbox"/> 16 - 20 pads	
	<input type="checkbox"/> > 20 pads	

Please identify any non-prescribed activity/activities you will be undertaking to support the prescribed early exploration activity/activities

Creating trails for the purposes of early exploration  
 Creating roads for the purposes of early exploration  
 Creating/setting up camp(s) to house personnel to perform your prescribed early exploration activities  
Number of people in camp 10 Number of camps 1  
 Ground geophysical surveys without a generator  
 Airborne geophysical surveys

Are you planning to store fuel or other hazardous materials on the property? \*

Yes  No

Please provide any other information relevant to this project.

The existing temporary exploration camp on Pakeagama Lake will be used as a base of operation. All fuel is stored in certified containers.

Minimal access trail beyond the existing access trails is required.

### 3. Signature

Name (Last Name, First Name)

Garth Drever

Email Address

gdrever@frontierlithium.com

Signature

Date (yyyy/mm/dd)

2022/04/22

472800 000000

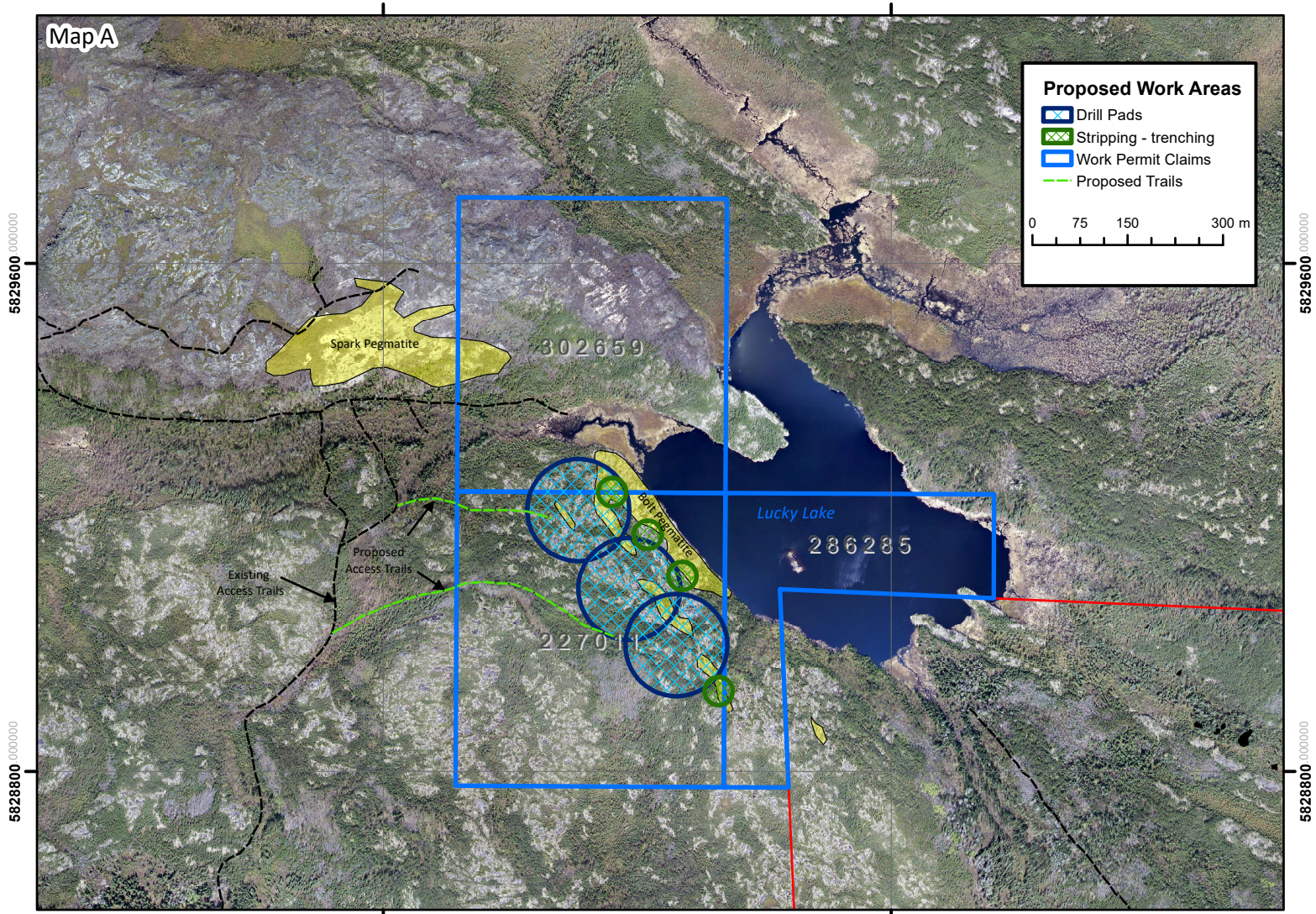
473600 000000

Map A

**Proposed Work Areas**

- Drill Pads
- Stripping - trenching
- Work Permit Claims
- Proposed Trails

0 75 150 300 m



472800 000000

473600 000000

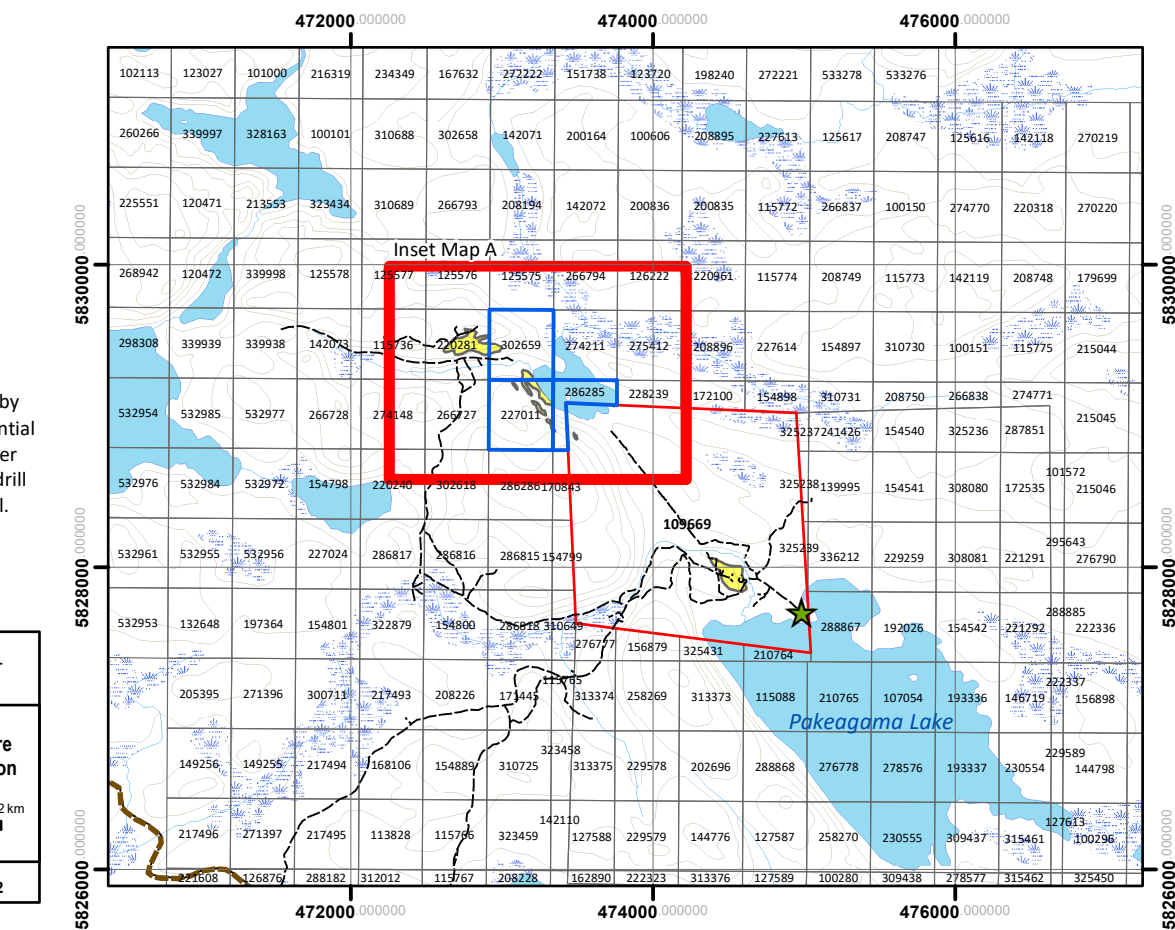
**LEGEND**

- Mining Lease
- Frontier Claims
- Work Permit Claims
- Exploration Camp
- Winter Road
- Existing Trails
- Pegmatite

472000 000000

474000 000000

476000 000000



472000 000000

474000 000000

476000 000000

Note: Proposed work areas are designated by 50m diameter circles (blue) indicating potential stripping and/or trenching areas, while larger 150m diameter circles indicate location of drill pads dependent on accessibility for the drill.

**FRONTIER LITHIUM** PAK Lithium Project

Location Map Showing Land Tenure and Area for Work Permit Application

Scale: 1:50,000

WGS84 UTM zone 15N  
Compiled by: G Drever, 2022-02-14

Figure: 2