

Number/Numero:

PR-21-000212

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:

LEA-109669

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 (>100m² in 200m radius)/ Décapage mécanisé (>100 m² dans un rayon de 200 m)
- Pitting and Trenching (>3m³ in 200m radius)/ Creusement de fosses et de tranchées (>3 m³ 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 (<100m² in 200m radius)/ Décapage mécanisé (<100 m² dans un rayon de 200 m)
- Pitting and Trenching (1-3m³ in 200m radius)/ Creusement de fosses et de tranchées (1-3 m³ 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 ce 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 provinciales relatives à 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) *

15N

Easting (m) *

474127

Northing (m) *

5828368

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.

Explosives may be used for pitting and trenching. All explosives will be handled by certified personnel and brought in as required. No explosives will be stored on site.

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.

In summer months personnel will be transported by fixed-wing aircraft on floats or by helicopter. In Winter there is vehicle access from Red Lake using the winter road to Sandy Lake and an access trail from the winter road to Pakeagama Lake

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

All heavy duty equipment such as the drill, excavator, dozers, trucks will be mobilized/demobilized during winter months using existing roads and trails. Smaller equipment can be mobilized by use of fixed wing aircraft that can land on Pakeagama Lake

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

A diamond drill rig (Hydra-core 2000) and a Link-Belt 210 excavator is currently on site. The excavator will be used to create access trails and mobilize the drill rig.

What type of drilling will take place? (e.g. core drilling, reverse circulation)
All drilling will be core drilling.

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	4
		Estimated total area of stripping	1000 square metres
Pitting and Trenching of Bedrock	▶	Planned Number of Pits/Trenches	5
Mechanized Drilling	▶	Planned drill hole diameter	4.2 centimetres
		<input type="checkbox"/> 1 - 5 pads	
		<input type="checkbox"/> 6 - 10 pads	
		<input checked="" 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 _____ Number of camps _____
- 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.

Frontier has a temporary exploration camp on Pakeagama Lake which will be used to house all personnel during the early exploration activities

3. Signature

Name (Last Name, First Name)

Drever, Garth

Email Address

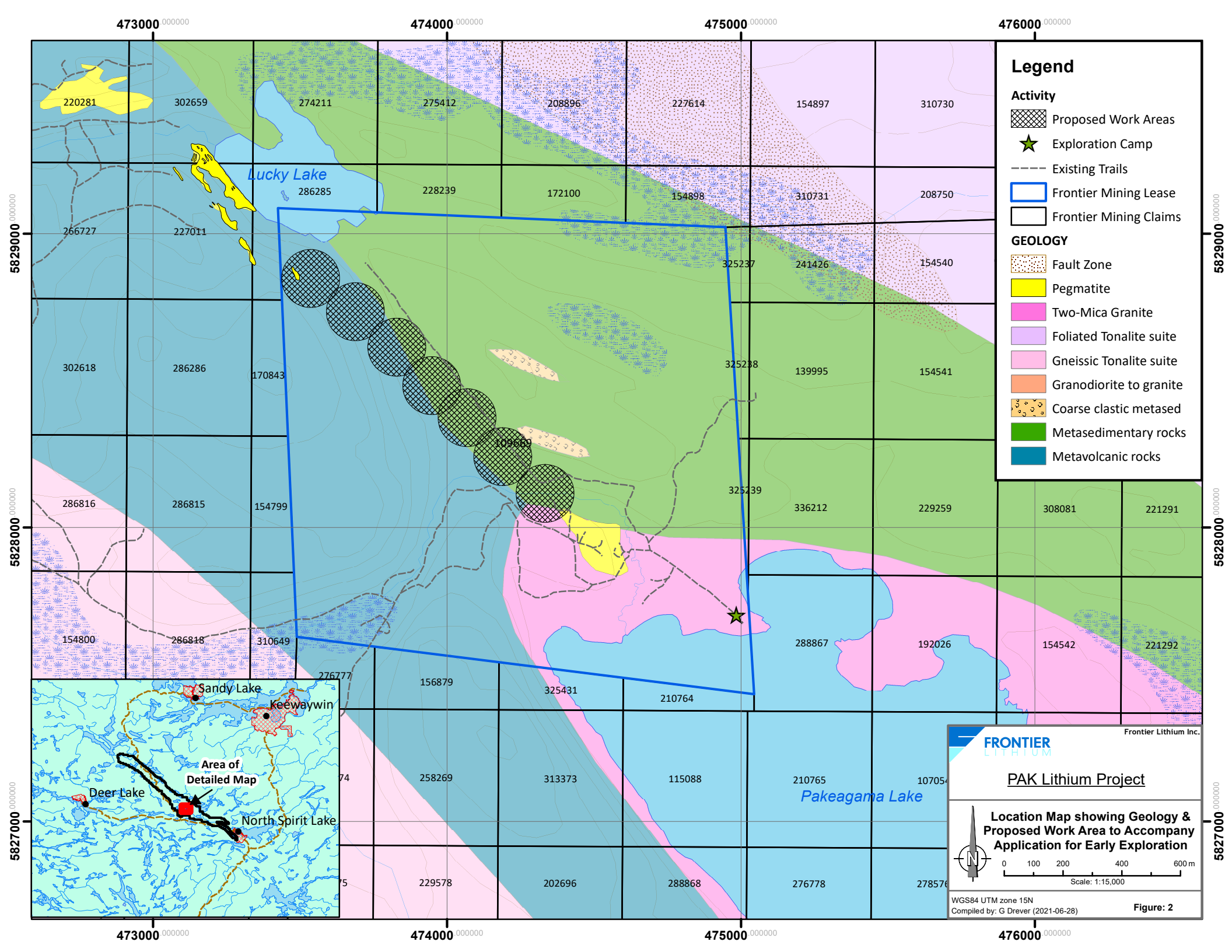
gdrever@frontierlithium.com

Signature








Date (yyyy/mm/dd)

2021/07/06












Legend

Activity

-  Proposed Work Areas
-  Exploration Camp
-  Existing Trails
-  Frontier Mining Lease
-  Frontier Mining Claims


GEOLOGY

-  Fault Zone
-  Pegmatite
-  Two-Mica Granite
-  Foliated Tonalite suite
-  Gneissic Tonalite suite
-  Granodiorite to granite
-  Coarse clastic metased
-  Metasedimentary rocks
-  Metavolcanic rocks

FRONTIER LITHIUM

PAK Lithium Project

Location Map showing Geology & Proposed Work Area to Accompany Application for Early Exploration

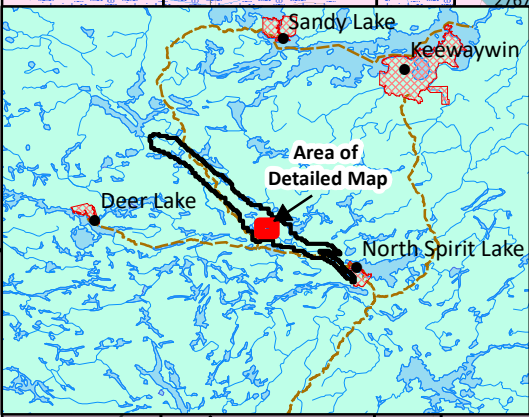


0 100 200 400 600 m

Scale: 1:15,000

WGS84 UTM zone 15N
Compiled by: G Drever (2021-06-28)

Figure: 2



Frontier Lithium Inc.