

Land and Water Boards of the Mackenzie Valley



LAND USE PERMIT APPLICATION FORM

Subsection 19(2) and Schedule 2 of the [Mackenzie Valley Land Use Regulations](#)

| | | | | |
|--|--|---|--------------------------------|--|
| Use an "X" to indicate which Board the Application is being made to: | Mackenzie Valley Land and Water Board: | X | Sahtu Land and Water Board: | |
| | Wek'èezhìi Land and Water Board: | | Gwich'in Land and Water Board: | |

To complete this Form, please refer to the LWB [Guide to the Land Use Permitting Process](#) (Guide) and fill in the grey fields; attach additional pages, as necessary. Indicate N/A in the grey fields for Items or parts of Items that are not applicable. An application package checklist is provided in the Guide. Review the following LWB guidance for formatting your Application Package:

- [Document Submission Standards](#)
- [Standard Outline for Management Plans](#)

| | |
|--|--|
| If applicable, provide the existing or current Land Use Permit file number: | |
| Use an "X" to indicate if this Application is accompanied by an Application for a Water Licence: | Water Licence – in a non-federal area: |
| | Water Licence – in a federal area: |

1. NAME AND CONTACT INFORMATION – APPLICANT

| | | | |
|-------------------|------------------------------------|------------|--|
| Project Name: | Halo-Yuri Project | | |
| Applicant's Name: | David Cornish | | |
| Position: | Exploration Manager | | |
| Company Name: | Trinex Lithium Ltd | | |
| Mailing Address: | Suite 2700-225 6 th Ave | | |
| Community: | Calgary | Telephone: | +61 403 880 873 |
| Prov/Terr: | Alberta | Email: | dcornish@trinexminerals.com.au |
| Postal Code: | T2P 1N2 | Other: | Nate.Schmidt@dahrouge.com |

2. NAME AND CONTACT INFORMATION – APPLICANT’S HEAD OFFICE

Include a Certificate of Corporate Registration from the Government of the Northwest Territories in your Application Package.

| | | | |
|--|------------------------------------|------------|--|
| Use an “X” to indicate this information is the same as Item 1 above: | | | |
| Name: | David Cornish | | |
| Position: | Exploration Manager | | |
| Company Name: | Trinex Lithium Ltd | | |
| Mailing Address: | Suite 2700-225 6 th Ave | | |
| Community: | Calgary | | |
| Prov/Terr: | Alberta | Telephone: | +61 403 880 873 |
| Postal Code: | T2P 1N2 | Email: | dcornish@trinexminerals.com.au |
| Field Supervisor: | Nathan Schmidt | Other: | Nate.Schmidt@dahrouge.com |

3. NAME AND CONTACT INFORMATION – CONTRACTORS AND SUB-CONTRACTORS

Include relevant names, responsibilities, and contact information. An additional table should be added for each contractor and sub-contractor.

| | | | |
|------------------|------------------------------------|------------|--|
| Name: | Nathan Schmidt | | |
| Position: | Senior Geologist and Site Manager | | |
| Company Name: | Dahrouge Geological Consulting | | |
| Mailing Address: | 103-10183 112 th Street | | |
| Community: | Edmonton | Telephone: | 780-434-9808 |
| Prov/Terr: | Alberta | Email: | Nate.Schmidt@dahrouge.com |
| Postal Code: | T5K 1M1 | Other: | |

| | |
|--|--|
| | Use an “X” to indicate that contractor and/or subcontractor information is not available at this time. |
|--|--|

4. LOCATION OF ACTIVITIES

Use the grey fields below to provide or reference the following information:

Traditional Place Name:

Maps and Geographic Information System (GIS) Data: Include a map in your Application Package identifying local geographic features, watercourses and water sources, project structures, and location(s) of any proposed waste deposits. Provide geographic coordinates (latitude and longitude) of project features, and the maximum and minimum project boundary in degrees, minutes, seconds, or decimal degrees. Include GIS data in your Application Package, if applicable. Refer to the LWB [Geospatial Data Submission Standards](#) for providing geographic information.

| | | | |
|---------------------------|-------------|---------------------------|-------------|
| Minimum latitude: | 63.52501° | Maximum latitude: | 63.97312° |
| Minimum longitude: | -110.25652° | Maximum longitude: | -109.41916° |

NTS Map Sheet No.: Provide the map sheet number:

075M09 075M16 075N11 075N12 075N13
075N14

GIS Data: Use an “X” to indicate if GIS data is attached.

Attached:

X

Not Available:

Land Types: Use an “X” to indicate the type(s) of the land on which the activities are proposed:

| | | | | | | | |
|------------------------|--|---------------------------------------|----------|---------------|--|-----------------|--|
| Free Hold/ Private: | | Commissioner’s/ Territorial Lands: | X | Federal Land: | | Municipal Land: | |
|------------------------|--|---------------------------------------|----------|---------------|--|-----------------|--|

5. ELIGIBILITY

Refer to section 18 of the [Mackenzie Valley Land Use Regulations](#). Use an “X” to indicate which one applies:

| | | | | | | | |
|-----------|----------|------------|--|-------------|--|--------|--|
| 18(a)(i): | X | 18(a)(ii): | | 18(a)(iii): | | 18(b): | |
|-----------|----------|------------|--|-------------|--|--------|--|

6. RIGHTS AND/OR CONTRACTS TO SUPPORT ELIGIBILITY

Contact Indigenous, federal, and territorial governments, and other parties to ensure all appropriate rights, authorizations, permissions, dispositions, and contracts have been obtained or are in the process of being obtained (e.g., mineral exploration rights, quarry permits, licences of occupation, leases, access agreements and authorizations, etc.). List and provide confirmation of other authorizations that relate to the proposed activities; reference these in your Application Package (e.g., rights, permits, licences, etc.).

| |
|---|
| Eligibility documents submitted with this application: <ul style="list-style-type: none"> • Certificate of Incorporation – Northwest Lithium Ltd • Articles of Amendment – name change, Northwest Lithium Ltd to Trinex Lithium Ltd. • Transfer of Mineral Claim documents • Certificate of Extra-Territorial Registration – Trinex Lithium Ltd |
|---|

| Claim Name | Claim Number | Owner | Size (Ha) | Anniversary Date |
|------------|--------------|--------------------|-----------|------------------|
| CL1 | F96560 | Trinex Lithium Ltd | 1250 | 13/08/2024 |
| ML 01 | M11615 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 02 | M11616 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 03 | M11617 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 04 | M11618 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 05 | M11619 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 06 | M11620 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 07 | M11621 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 08 | M11622 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 09 | M11623 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 10 | M11624 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 11 | M11625 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 12 | M11626 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 13 | M11627 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 14 | M11628 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 15 | M11629 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 16 | M11630 | Trinex Lithium Ltd | 1200 | 13/10/2024 |
| ML 17 | M11631 | Trinex Lithium Ltd | 1200 | 13/10/2024 |
| ML 18 | M11632 | Trinex Lithium Ltd | 800 | 13/10/2024 |
| ML 19 | M11633 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 20 | M11634 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 21 | M11635 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 22 | M11636 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 23 | M11637 | Trinex Lithium Ltd | 1125 | 13/10/2024 |
| ML 24 | M11638 | Trinex Lithium Ltd | 750 | 13/10/2024 |

| | | | | |
|-------|--------|--------------------|---------|------------|
| ML 25 | M11639 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 26 | M11640 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 27 | M11641 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 28 | M11642 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 29 | M11643 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 30 | M11644 | Trinex Lithium Ltd | 1246.33 | 13/10/2024 |
| ML 31 | M11645 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 32 | M11646 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 33 | M11647 | Trinex Lithium Ltd | 1241.15 | 13/10/2024 |
| ML 34 | M11648 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 35 | M11649 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 36 | M11650 | Trinex Lithium Ltd | 1250 | 13/10/2024 |
| ML 37 | M12437 | Trinex Lithium Ltd | 674 | PENDING |
| ML 38 | M12436 | Trinex Lithium Ltd | 1250 | PENDING |

7. PERMIT TYPE AND CRITERIA

Refer to sections 4 and 5 of the [Mackenzie Valley Land Use Regulations](#). Use an “X” to indicate which permitting criteria apply:

| Type A | | | | Type B | | | | Type C | |
|------------|-------------------------------------|------------|-------------------------------------|------------|--------------------------|-----------|--------------------------|--|--|
| 4(a)(i): | <input type="checkbox"/> | 4(b)(i): | <input checked="" type="checkbox"/> | 5(a)(i): | <input type="checkbox"/> | 5(b)(i): | <input type="checkbox"/> | (SLWB and WLWB only): <input type="checkbox"/> | |
| 4(a)(ii): | <input checked="" type="checkbox"/> | 4(b)(ii): | <input checked="" type="checkbox"/> | 5(a)(ii): | <input type="checkbox"/> | 5(b)(ii): | <input type="checkbox"/> | | |
| 4(a)(iii): | <input checked="" type="checkbox"/> | 4(b)(iii): | <input checked="" type="checkbox"/> | 5(a)(iii): | <input type="checkbox"/> | | | | |
| 4(a)(iv): | <input type="checkbox"/> | 4(b)(iv): | <input type="checkbox"/> | 5(a)(iv): | <input type="checkbox"/> | | | | |
| 4(a)(v): | <input checked="" type="checkbox"/> | | | 5(a)(v): | <input type="checkbox"/> | | | | |
| | | | | 5(a)(vi): | <input type="checkbox"/> | | | | |

8. PROJECT DESCRIPTION

Include a project description in your Application Package, or for small-scale projects, describe the proposed activities in the grey field provided below. For each and all proposed water uses, include the name and type (e.g., lake, river) of water source(s), and the purpose and quantity of water to be used (rates, volumes (m³/day)).

Details in attached Project Description document.

Indicate the total number of hectares to be used in each phase of the project, as well as through the life of the project.

Details in attached Project Description document.

9. CAMP

Describe the proposed camp size and layout. Indicate the number of person-days; explain, with rationale, any variations in the number of people that may be on site over the life of the project.

Camp location and details are yet to be determined. The camp will be situated in a location amenable to both summer and winter use and ease of aircraft access (see Figure 2 in Project Description document). Camp use will be seasonal, so the number of people at the camp will vary from 0 to 20. Camp will be constructed using non-permanent structures, including a combination of insulated tents, tent frames and plywood constructed cabins. Camp water use is estimated at 1 cubic per day, withdrawn twice per week. Sewage will either be composted or deposited in a sump/pit (at least 100m from the high-water mark), or returned to Yellowknife for disposal (to be determined by the camp contractor). Camp grey water will be deposited in a sump at least 100m from the highwater mark. Aircraft support will be by helicopter and float plane. Access to the camp site will be required from the Gahcho Kué spur road, during the winter months. If exploration is undertaken during the warmer months or when winter roads are not viable, some overland access and therefore minimal clearing, may be required. Details will be finalised once initial drill planning has been completed and a Camp Contractor/Manager has been secured.

10. ROADS AND ACCESSES

Provide detailed information about construction, location, and decommissioning of any roads and accesses.

| | | | | | |
|---|-----|----------|--|-----|----------|
| Use an "X" to indicate if this is to be a pioneered road or access: | Yes | X | Use an "X" to indicate if the route has been laid out or ground-truthed: | Yes | |
| | No | | | No | X |

Initial drilling will take place during winter months when the ice and snow will support the weight of equipment, vehicles and machines. Overland portages will have sufficient snowpack to prevent rutting and gouging of the ground surface ensuring that movement between drill sites will result in no damage to the ground surface.

If summer drilling is required during the life of the project helicopter assisted programs would most likely be necessary. If additional access trails and overland movement of drill rigs and vehicles between drill sites was necessary clearing would be kept to a minimum and trails would not be permanent.

An access road to the camp site will be required from the Tibbitt-Contwoyto Winter Road and Gahcho Kué spur road, during the winter months. If roads are not built, or impassable during any particular winter season the project will proceed as per exploration undertaken in warmer months with equipment, supplies and personnel transported to site via helicopter and/or float plane.

If exploration is undertaken during the warmer months or when winter roads are not viable, some overland access and therefore minimal clearing, may be required.

Length and further details of the access road have not been finalised and will depend on camp location. Several locations for a camp have been selected (see Figure 2 in Project Description document) and will be finalised once initial drill planning has been completed and a Camp Contractor/Manager has been secured. Construction would likely occur subsequent to/in conjunction with construction of the Tibbitt-Contwoyto and Gahcho Kué winter roads, which usually begins in December of each year, ready for the operational season in February-March.

11. PROPOSED WASTE MANAGEMENT METHODS

Use the grey fields below to provide or reference the following information:

Waste Management Plan: Include a Waste Management Plan in your Application Package, if applicable, or for small-scale projects, describe the proposed waste management activities in the grey fields provided below. A template can be found in the LWB [Guidelines for Developing a Waste Management Plan](#).

A Waste Management Plan has been appended to this application and is summarised below.

| Waste Type | Management Method(s) |
|--|--|
| Garbage | Includes non-recyclable domestic waste, recyclable domestic waste, wood, metals and hazardous waste. Any non-recyclable domestic waste, non-hazardous and hazardous waste will be transported to Yellowknife as required and has been accepted for disposal by KBL Environmental. Recyclable items will be disposed of at the appropriate facilities in Yellowknife. |
| Sewage (Sanitary and greywater) | Sewage will be either composted, deposited in a pit, or returned to Yellowknife for disposal (to be determined by the camp contractor when appointed). |
| Brush and trees | Very limited due to type of vegetation in the area and the likelihood of mainly winter drilling. |
| Overburden (Organic soils, waste material, etc.) | Limited. Respread over site on completion of program or disposed of as appropriate (if contaminated). |
| Other (describe) | Further details in attached Waste Management Plan. |

Off-site Disposal: If waste is proposed to be disposed of off-site within the NWT, written confirmation (e.g., an email, letter, etc.) from the facility/facilities indicating they will accept the waste is required. Include it/these in your Application Package. Please note this information will be required by the Board prior to commencement of activities.

12. EQUIPMENT

Identify the types of equipment proposed to be used. Not all equipment use is confirmed but is being included in the permit application to ensure appropriate approvals if required. Listed equipment includes heavy machinery which may be used in building any winter access roads. Equipment will be transported to site either via truck using the winter road access (Tibbitt to Contwoyto, Gahcho Kué and additional site access road) with relevant approvals, or via helicopter and/or float plane during the warmer months, or if winter roads are impassable.

| Number | Type/Description | Size (max weight) | Proposed use |
|--------|-------------------------------|-------------------|--|
| 1-2 | Diamond Drill Rig | 10 tonnes | Core drilling. Maximum of 2 rigs on site at any time i.e., may be two diamond rigs or one diamond rig and one RC rig (see below). |
| 1-2 | Reverse Circulation Drill Rig | 15 tonnes | Drilling of short holes. Drill rig may be multipurpose and be able to drill RC and diamond core. Maximum of 2 rigs on site at any one time i.e., could be one diamond rig and one RC rig or two RC rigs. |
| 1 | Helicopter | Varied | Transport of personnel, supplies and equipment. Emergency response as required. |
| 1 | Float plane | Varied | Transport of personnel, supplies and equipment. Emergency response as required. |
| 1 | Boat – 16’with 15hp motor | 0.5 tonnes | |

| | | | |
|---|-----------------|-------------|--|
| 2 | Snowcat | 8 tonnes | Camp support and maintenance. Snow and ice compaction. |
| 1 | Snowplow | 2 tonnes | Winter airstrip and access support |
| 1 | Water truck | 10 tonnes | Camp and drill support if required. |
| 1 | Grader | 20 tonnes | Trail maintenance and construction as required. |
| 4 | Snowmobile | 0.3 tonnes | Access to/from and around site, camp/exploration support. |
| 2 | Generator, 10kW | 0.4 | Power requirements at camp. |
| 2 | Generator, 5kW | 0.2 | Power at drillsite. |
| 4 | Water Pump | 0.05 tonnes | Camp and drill support. |

13. FUEL

Identify all fuel types proposed to be used. Also see Spill Contingency Plan. Amounts indicated are the *maximum* that *may* be required and, on most occasions, there will not be these amounts on site. Type of container will be determined by the contractor.

| Type of Fuel | Number of containers | Capacity of containers (e.g. litres, pounds) | Type of container (e.g., barrel, tank, tidy-tank) | Proposed storage or staging location(s) |
|-----------------------|----------------------|--|---|--|
| Diesel | 200 | 205 L | Barrels (or tidy tanks or approved envirotanks if required) | Drill site and fuel cache within impermeable berms |
| Gasoline | 15 | 205 L | Barrel (or tidy tanks or approved envirotanks if required) | Drill site and fuel cache within impermeable berms |
| Aviation Fuel (Jet-A) | 200 | 205 L | Barrels (or tidy tanks or approved envirotanks if required) | Fuel cache within impermeable berms |
| Propane | 20 | 45 kg (100lb) | Cylinder/tank | Drill site |

14. METHODS OF FUEL TRANSFER

Describe the proposed methods to transfer fuel.

Fueling procedure documented in Spill Contingency Plan.
Fuel will be transported to site either via truck using the winter road access (Tibbitt to Contwoyto, Gahcho Kué and additional site access road) with relevant approvals, or via helicopter and/or float plane during the warmer months, or if winter roads are impassable.

15. SPILL CONTINGENCY PLAN

Include a Spill Contingency Plan in your Application Package, if applicable, or for small-scale projects, provide relevant details in the grey field provided below. An example of this Plan can be found in the INAC [Guidelines for Spill Contingency Planning](#).

Details in attached Spill Contingency Plan.

16. PROPOSED PROJECT SCHEDULE AND TERM

Indicate the proposed project start and completion dates and the time of year the project activities are planned to occur. Describe any anticipated temporary closure(s) or seasonal shutdowns. Indicate the term requested.

| | | | |
|---|----------------|------------------|------------------|
| Start Date: | 1 January 2025 | Completion Date: | 31 December 2029 |
| Drilling will occur across several seasonal programs over several field seasons (generally February to April – Winter season and July to October – summer season), requiring the assessment of results between each phase. Shutdowns are planned to occur between each phase though exploration could extend throughout the year if successful. Further details in attached Project Description document. | | | |
| Term of Permit Requested: | Five years | | |

17. POTENTIAL ENVIRONMENTAL IMPACTS OF THE PROJECT AND PROPOSED MITIGATIONS

If the proposed project, or parts of the proposed project, may be exempt from preliminary screening, describe the rationale for the exemption in the grey field below. Include the date of the most recent screening, and/or the environmental assessment or impact review number.

Unlikely that the project is exempt from preliminary screening.

Unless the project could be exempt from preliminary screening, using the Impact-Mitigation Table below, or the more detailed Table in Appendix D of the [Guide](#), identify all potential impacts and possible mitigations that are relevant to the proposed project, and indicate whether any of the mitigation measures have been developed as a result of input from affected parties. Possible potential impacts are listed below; however, these lists are not exhaustive and may not apply to all projects. All information provided should reflect the size, scale, and nature of the proposed project. Cumulative impacts and climate change must be considered. Attach additional pages if needed. Use landscape orientation if preferred.

| Potential Impacts <i>Use an "X" to indicate which apply</i> | X | Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i> |
|--|---|---|
| ABIOTIC COMPONENTS | | |
| Land | | |
| Soil contamination | X | Impact: Potential for soil or snow contaminated with either diesel, oil, or other spill materials. Mitigation: Spill Contingency Management Plan will be implemented in the event of any unplanned release. Every effort will be made to avoid contamination of soil. Fuel supplies will be stored in an impermeable berm. |
| Soil compaction | X | Impact: Compacting of soil by drill rig. Mitigation: Disturbed sites will be scarified as required and monitored for revegetation. All disturbed land be returned as close to the original condition as possible. If topsoil is removed it will be retained to spread over the site post disturbance. Vehicle movements will be kept to a minimum over undisturbed ground. |
| Destabilization/erosion | X | Impact: Destabilization and erosion from creation of drill pads and access tracks - changes of natural surface. Mitigation: Ground disturbance will be kept to a |

| Potential Impacts <i>Use an "X" to indicate which apply</i> | X | Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i> |
|---|----------|---|
| | | minimum and if required recontouring of surfaces will take place in order for the land to be returned to its natural state. Any areas of likely erosion will be monitored and remediated as required. Each drill casing will be cut off and sealed to ensure level ground. Sumps will be backfilled and the natural land surface restored to limit potential for localized erosion. |
| Change in soil structure | | Impact: No significant change in soil structure is expected. |
| Inability to support vegetation | | Impact: There will be no impact on the ability of the disturbed land to support vegetation growth. |
| Other | | NA |
| Water | | |
| Groundwater | | |
| Water table alteration | | Impact: Drillholes are not expected to impact on the water table but if flowing water is encountered at a borehole, the borehole will be plugged to permanently prevent any further outflow of water, as required by the Land Use Permit. |
| Infiltration changes | | Impact: No changes to water infiltration is expected. |
| Changes in water quality | X | Impact: Potential impact from drilling activity or spills. Mitigation: Avoid drill sites, including sumps within 100m of a natural water course. Attend to spills immediately as per the Spill Contingency Plan. |
| Temperature changes | | NA |
| Other | | NA |
| Permafrost | | |
| Loss or change in extent | X | As project activities will be limited to the camp and drill sites, limited impacts to permafrost are anticipated. To reduce impacts, excavation of the insulating vegetation layer will be limited to only that as required for temporary camp foundations. |
| Changes in seasonal fluctuations | X | |
| Change in persistence | X | |
| Other | | |
| Surface Water | | |
| Water flow or level changes (permanent, temporary, seasonal) | X | Impact: Changes in water flow due to drill sites impeding the natural flow of water. Level changes by overuse of water. Mitigation: Avoid drill sites (including sumps) within 100m of a natural water course. Provide drainage channels if required during a drilling program. Remediate to pre-disturbance conditions. Water use less than 99m ² per day. Record usage. |
| Drainage pattern changes | X | As above |
| Temperature changes | | NA |
| Changes in water quality | X | Impact: Potential impact from drilling activity or spills. Mitigation: Avoid drill sites (including sumps) within 100m of a natural water course. Store fuel in appropriate containers. Fuel supplies will be stored in an |

| Potential Impacts <i>Use an "X" to indicate which apply</i> | X | Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i> |
|---|----------|--|
| | | impermeable berm. Attend to spills immediately as per the Spill Contingency Plan. |
| Wetland impairment | X | Impact: Possible disturbance from drilling. Mitigation: Ensure proper buffer distances from wetlands to drill site. Store fuel >100 m away in appropriate containment. No machinery over wetland areas in spring/summer months. |
| Changes to aquatic habitat | | See Biotic – Aquatic Habitat section below |
| Other | | NA |
| Air | | |
| Changes in air quality | X | Impact: Emissions from vehicles, drill rigs and helicopter. Mitigation: Conduct routine maintenance on equipment and use low emissions vehicles when possible. |
| Harm to living things | | Impact: Limited impact anticipated. |
| Increased greenhouse gases | X | Impact: Emissions from vehicles, drills and helicopter Mitigation: Routine maintenance on vehicles, generators and engines. |
| Other | | NA |
| BIOTIC COMPONENTS | | |
| Vegetation | | |
| Direct loss of vegetation | X | Impact: Clearing of vegetation for drill sites and access. Mitigation: Limit clearing, and moves sites if required. Very limited clearing is expected as the project is located on the barren lands. Vegetation clearing will be limited to temporary camp foundations (if required at all). Remediate sites to allow for vegetation regrowth as required. |
| Loss of Species at Risk or may-be-at-risk plants | | NA |
| Change in species composition | | NA |
| Introduction of non-native (invasive) species | X | Impact: Noxious weeds from equipment. Mitigation: Ensure all machinery is cleaned prior to mobilization to site. |
| Effects on plant health (dust, metals, toxins) | X | Impact: Potential Impact from drilling process (water, dust, cuttings) Mitigation: Ensure drill rigs have appropriate measures in place to reduce dust release while drilling. Limit extent of drill water discharge, use of sumps as required. |
| Increased risk of fire | X | Impact: Machinery/combustible materials have the potential to start a fire. Mitigation: Keep drill sites clean and tidy by following Waste Management Plan. Ensure machinery is checked daily to identify any faults and that these re rectified prior to commencing operations. Ensure adequate fire suppression supplies at drill sites and camp facilities. Temporarily suspend operation if conditions are too dry. |

| Potential Impacts <i>Use an "X" to indicate which apply</i> | X | Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i> |
|---|----------|--|
| Compaction of vegetation | X | Impact: Ground disturbance from drill rigs and additional equipment. Mitigation: Ensure machinery and equipment remains on cleared or naturally clear areas and durable surfaces to avoid additional affects on natural vegetation. Drills will operate from a snow pad or on cribs to limit ground disturbance. |
| Other | | NA |
| Terrestrial Wildlife Habitat (also see Wildlife Management Plan) | | |
| Direct loss or removal of habitat, dens, or nests | X | Impact: Inadvertently disturb animals with drilling or as a result of clearing. Mitigation: Direct and indirect effects to wildlife habitat will be avoided by minimizing vegetation and soil disturbance and operating seasonally. Sites will be visually assessed prior to clearing in order to minimize destruction of habitat, dens or nests. Special attention will be paid to minimize the disturbance of and impact on species at risk in the area including Barren-ground Caribou, Grizzly Bear, Wolverine, Harris's Sparrow, Lesser Yellowlegs, Red-necked Phalarope, Rusty Blackbird and Short-eared Owl. |
| Loss or removal of keystone species and/or Species at Risk habitat | X | As above |
| Fragmentation of wildlife corridor | | Impact: Limited impact (if any) is anticipated. |
| Direct injury or mortality | X | Impact: Potential for injury/mortality during drilling process or at campsite. Mitigation: Limit/avoid interaction with wildlife. Suspend program if required. Give animals right of way when spotted. |
| Disturbances to key lifecycle stages: breeding, feeding, nesting, staging | | NA |
| Effects on population abundance | | NA |
| Change in species diversity | | NA |
| Effects on wildlife health (toxins, metals, etc.) | X | Impact: Drilling fluids, dust, waste. Mitigation: Maintain a clean and tidy site during and after the program. Ensure all potentially harmful substances are not able to be compromised and that food and all waste is inaccessible – ie Implement Waste Management Plan and ensure attractants are sealed in animal-proof containers. Ensure that dust and water discharge during the drilling process is limited. Ensure sumps have a point of egress. On completion of the program leave the site clean and tidy e.g. remove empty fuel containers, domestic refuse etc. |
| Changes to migratory movement patterns | | Impact: Disturbance to caribou migration. Mitigation: Drilling will not occur during the spring migration period (May) for Bathurst caribou. |

| Potential Impacts <i>Use an "X" to indicate which apply</i> | X | Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i> |
|---|----------|--|
| Changes to predator-prey relationships | | NA |
| Human-wildlife conflicts | X | Impact: Potential harm to people and/or wildlife. Mitigation: Implement Waste Management plan to keep work area free of garbage so as not to attract animals to the site. Ensure attractants are sealed in animal-proof containers. Employees will be provided with wildlife awareness training and are prohibited from interaction with wildlife. To help limit human-wildlife conflicts drill rigs or any other machinery will be shut down and programs suspended, when there is known wildlife within 500m, including Caribou and all large ungulates including Moose, Bison and/or Muskoxen. Wildlife sightings at camp will be reported for follow-up. Further details are provided in the as Wildlife Management and Monitoring Plan. |
| Other | | NA |
| Aquatic Habitat | | |
| Breeding disturbances | | NA |
| Change in species diversity | | NA |
| Effects on health (toxins, metals, sediment, etc.) | X | Impact: Drilling fluids, dust, waste. Mitigation: Maintain a clean and tidy site during and after the program. Ensure all potentially harmful substances are not able to be compromised and that food and all waste is inaccessible – ie Implement Waste Management Plan and ensure attractants are sealed in animal-proof containers. Ensure that dust and water discharge during the drilling process is limited. On completion of the program leave the site clean and tidy e.g. remove empty fuel containers, domestic refuse etc. Fuel storage and transfer will be set back from water. Should a spill in water occur, impacted water will be removed and disposed of in accordance with the Spill Contingency and Waste Management Plan. |
| Changes to migratory movement patterns | | NA |
| Changes to predator-prey relationships | | NA |
| Effects on population abundance | | NA |
| Change in species diversity | | NA |
| Other | X | Impact: Water withdrawal sites. Mitigation: Water withdrawal for drilling and camp use will be limited to below 99 m ³ /day. Intake hoses will be fitted with mesh screens to reduce potential impacts to fish. |
| CULTURAL COMPONENTS | | |
| Wildlife Harvesting | | |
| Loss or reduction in game species | | As described in the Wildlife Management and Monitoring Plan and Terrestrial Wildlife Habitat |

| Potential Impacts <i>Use an "X" to indicate which apply</i> | X | Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i> |
|--|----------|---|
| populations | | section of this table, drilling will be avoided in the spring migration period (May) for Bathurst caribou and camp staff will be prohibited from harvesting. |
| Effects on traditional land use, subsistence, and harvesting rights | X | The proposed mineral exploration work will not add significantly to the previous historical and existing disturbances or impinge on existing harvesting rights. |
| Other | | NA |
| Cultural Integrity and Heritage Resources | | |
| Change to or loss of cultural integrity | | NA |
| Change to or loss of traditional lifestyle | X | Impact: Interruption to traditional lifestyle. Mitigation: The proposed activities are additional to what has occurred previously and what is continuing to occur in the area and is a well-known, understood activity. Engagement with stakeholders has been and will continue to take place. Implement Engagement Plan as required. |
| Change to or loss of heritage resource | X | Impact: Disturbance to an Archaeological site. Mitigation: Train workers to identify archaeological sites and then follow the "Chance Archaeological Find Procedure". An Archaeological Overview Assessment has been completed and a number of Archaeological Sites and Archaeological Potential Target Areas have been identified. These sites will be avoided in all exploration programs. |
| Other | | NA |
| Social and Economic Well-being | | |
| Increased human health hazard and risk | | Project activities will occur in a remote area with limited access to emergency services. A medic will be stationed at camp. |
| Economic opportunities or losses (employment, training) | X | Impact: Increased employment opportunities. Trinex will endeavour to provide a broad range of employment opportunities, including business contract opportunities to the local workforce and companies throughout the duration of the Land Use Permit. |
| Change in ecological, cultural, social, or economic values identified for protection in approved Land Use Plans | | No significant change is anticipated over the life of the permit. |
| Impairment of the recreational or traditional uses of the land or water | | No significant change is anticipated over the life of the permit. |
| Impairment of the aesthetic quality of the land or water | | No significant change is anticipated over the life of the permit. |
| Changes to the use of the area by other non-Indigenous people (e.g., trappers, outfitters, residents, hunters, forest harvesters, other authorized projects) | | No significant change is anticipated over the life of the permit. |
| Other | | Impact: Potential Noise levels from machinery, helicopter and drilling. |

| Potential Impacts <i>Use an "X" to indicate which apply</i> | Potential Project Impacts and Proposed Mitigations <i>Describe the potential impact(s) and the proposed measure(s) to reduce each of these impacts.</i> |
|---|---|
| | Mitigation: Baseline noise readings will be taken prior to drilling, during drilling, and after drilling is completed. Mitigation proposed for the noise generated includes using only up to two drills at any one time. Noise will be closely monitored to ensure limited disturbance to wildlife and surroundings. High level helicopter flying policy will be implemented, with no-fly zone below 1,000 feet except in designated landing zones near machinery being operated. Flights will be kept to a minimum. |

18. CLOSURE AND RECLAMATION

Use the grey field below to provide or reference the following information:

Closure and Reclamation Plan: Include a Closure and Reclamation Plan in the Application Package, if applicable, or for small-scale projects, describe the proposed closure and reclamation activities in the grey field provided below. Describe any temporary closure(s) and seasonal shutdowns. Please also refer to the LWB/AANDC [Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories](#).

Closure Cost Estimate: Prepare a Closure Cost Estimate and include it in your Application Package. Applicants are encouraged to contact Board staff, prior to applying, to determine which closure-cost-estimate template is most suited to the activities being applied for. Guidance is provided in section 2.2 of the LWB/GNWT/CIRNAC [Guidelines for Closure and Reclamation Cost Estimates for Mines](#). If the Application is submitted concurrently with a Water Licence Application, the estimate should include a breakdown of water- and land-related activities and liabilities.

Direction will be taken from the Inspector at all times.

All Project disturbances will be kept to the minimum required for the safe operation of the Project.

Upon completion of each phase of exploration work associated with the Type A Land Use Permit Application, all equipment & camp structures will be removed from site and it will be left clean and tidy. Any contaminated soils will be removed and disposed of as per the Spill Contingency Plan. Any disturbed land will be remediated to as close to its original state as possible to promote natural regeneration and reforestation. Natural revegetation in disturbed areas will be promoted by flattening and bucking any brush that is removed and returning disturbed soil to its original location. Each drill site will be visually inspected for any remaining debris or waste and if found will be removed to a Yellowknife Waste Facility. Sites will be monitored and additional remediation undertaken in required (ie if there has been erosion or revegetation is not taking place).

A final cleanup and inspection will be completed on expiry of the Land Use Permit. This will be done during summer when any surface debris and disturbance is visible.

All exploration areas will be remediated to the satisfaction of the Inspector.

19. ADDITIONAL SUPPORTING INFORMATION

Use the grey field below to provide or reference the following information:

Engagement: Conduct engagement, prepare an Engagement Record and Engagement Plan in accordance with the LWB [Engagement Guidelines for Applicants and Holders of Water Licences and Land Use Permits](#),

and include them in your Application Package. Templates are provided in the Guidelines. Please also refer to [Information for Proponents on MVLWB’s Engagement Requirements](#).

Land Use Plans: Contact the applicable Land Use Planning Board or the Tłı̨chǫ Government for assistance in interpreting the requirements of the relevant land use plan(s). Include a Land Use Plan Conformity Table, or if applicable, written confirmation of conformity from the Tłı̨chǫ Government, in your Application Package, demonstrating how the project meets the requirements of the Land Use Plan, if applicable.

Traditional Knowledge (TK): Provision of TK is mandatory for applications to the SLWB. Other applicants are strongly encouraged to include TK.

Studies Undertaken to Date: List any relevant studies that support the proposed activities and include them in your Application Package.

- Engagement Plan and Record included.
- Halo-Yuri Archaeological Overview Assessment ECE Review Letter included in Project Description document.
- Wildlife Management Plan (and Appendices) and Screening Questionnaire documents attached.
- Further information on exploration to date is included in the Project Description document.

20. FEES

Refer to the Guide for assistance in determining relevant fees.


| Type of Fee | Amount (\$) |
|---|--------------|
| Application fee (if applicable): | \$150 |
| Land-use fees (for federal areas only): | \$ |
| Total Fees: | \$150 |

If fees are submitted separately, indicate how and when they will be delivered to the Board’s office.

Cheque will be hand delivered to the MVLWB office.

21. SIGNATURE

| | |
|--|----------------------------|
| David Cornish (Trinex Lithium Limited) | Exploration Manager |
| Applicant’s Name (print) or Company Name | Position (print) |

| | |
|---|-----------------|
|  | 30 January 2025 |
|---|-----------------|

| | |
|-----------|------|
| Signature | Date |
|-----------|------|

Review the application package checklist provided in the Guide, and submit completed applications to the Regulatory Manager or Executive Director identified on the “Contact Us” pages of the respective Land and Water Board (www.mvlwb.com, www.wlwb.ca, www.slwb.com, www.glwb.com).