



SAHTU Land & Water Board Land Use Permit

Permit Class Type A Land Use Permit	Permit No. S21S-001
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Subject to the Mackenzie Valley Land Use Regulations and the terms and conditions in this permit, authority is hereby granted to:

Government of the Northwest Territories - Department of Infrastructure

Permittee

To proceed with the land use operation described in the application of: Edie Lake Quarry Geotechnical Investigation Project

Signature: Patricia Coyne	Date: March 8, 2021
Type of Land Use Operations: Geotechnical Investigation	
Location: Edie Lake Quarry, near Norman Wells, Tulita District, NWT	

This permit may be assigned, extended, discontinued, suspended or cancelled pursuant to the *Mackenzie Valley Land Use Regulations*.

Dated at: Fort Good Hope, NT This 8th Day of March Year: 2021

Witness _____

(Chair)
SAHTU Land & Water Board

Commencement Date: March 8, 2021 Expiry Date: March 7, 2026

NOTE

IT IS A CONDITION OF THIS PERMIT THAT THE PERMITTEE COMPLY WITH THE PROVISIONS OF THE *MACKENZIE VALLEY RESOURCE MANAGEMENT ACT AND REGULATIONS* AND THE TERMS AND CONDITIONS SET OUT HEREIN. A FAILURE TO COMPLY MAY RESULT IN SUSPENSION OR CANCELLATION OF THIS PERMIT BY THE BOARD.

THIS PERMIT SHALL BE POSTED OR BE AVAILABLE ON SITE.

If you have any questions please call the SAHTU Land & Water Board at
(867) 598-2413

Conditions Annexed to and Forming Part of Land Use Permit # S21S-001

Part A: Scope of Permit

1. This Permit entitles the Permittee to conduct the following land-use operation:
 - a) Geotechnical borehole drilling at Edie lake Quarry at specified locations
 - b) Use of equipment
 - c) Storage and transfer of fuel.
2. This Permit is issued subject to the conditions contained herein with respect to the use of land for the activities and area identified in Part A, item 1 of this Permit.
3. Compliance with the terms and conditions of this Permit does not excuse the Permittee from its obligation to comply with the requirements of any applicable Federal, Territorial, Tłıchǫ, or Municipal laws.

Part B: Definitions (defined terms are capitalized throughout the Permit)

Act - the *Mackenzie Valley Resource Management Act*.

Board - the Sahtu Land and Water Board established under Part 3 of the Act.

Borehole - a hole that is made in the surface of the ground by drilling or boring.

Drilling Fluid - any liquid mixture of water, sediment, drilling muds, chemical additives or other wastes that are pumped down hole while drilling and are specifically related to drilling activity.

Drilling Waste - all materials or chemicals, solid or liquid, associated with drilling, including drill cuttings and Drilling Fluids.

Engagement Plan - a document, developed in accordance with the Board's *Engagement and Consultation Policy* and the *Engagement Guidelines for Applicants and Holders of Water Licences and Land Use Permits*, that clearly describes how, when, and which engagement activities will occur with an affected party during the life of the project.

Flowing Artesian Well - a well in which water:

- a) Naturally rises above the ground surface or the top of any casing; and
- b) Flows naturally, either intermittently or continuously.

Fuel Storage Tank - a closed container for the storage of petroleum or allied petroleum products with a capacity of more than 230 litres.

Greywater - all liquid wastes from showers, baths, sinks, kitchens, and domestic washing facilities but not including toilet wastes.

Habitat - the area or type of site where a species or an individual of a species of wildlife naturally occurs or on which it depends, directly or indirectly, to carry out its life processes.

Inspector - an Inspector designated by the Minister under the Act.

Minister - the Minister of Indian Affairs and Northern Development Canada or the Minister of the Government of the Northwest Territories – Department of Lands, as the case may be.

Ordinary High-Water Mark - the usual or average level to which a body of water rises at its highest point and remains for sufficient time so as to change the characteristics of the land. In flowing waters (rivers, streams) this refers to the “active channel/bank-full level” which is often the 1:2 year flood flow return level. In inland lakes, wetlands, or marine environments, it refers to those parts of the Watercourse bed and banks that are frequently flooded by water so as to leave a mark on the land and where the natural vegetation changes from predominately aquatic vegetation to terrestrial vegetation (excepting water tolerant species). For reservoirs, this refers to normal high operating levels (full supply level).

Permittee - the holder of this permit.

Permafrost - ground (soil or rock) that remains at or below 0°C for at least two consecutive years.

Secondary Containment - containment that prevents liquids that leak from Fuel Storage Tanks or containers from reaching outside the containment area and includes double-walled Tanks, piping, liners, and impermeable barriers.

Sewage - all toilet wastes and Greywater.

Spill Contingency Plan - a document, developed in accordance with Aboriginal Affairs and Northern Development Canada’s *Guidelines for Spill Contingency Planning* that describes the set of procedures to be implemented to minimize the effects of a spill.

Toxic Material - any substance that enters or may enter the environment in a quantity or concentration or under conditions such that it:

- a) Has or may have an immediate or long-term harmful effect on the environment or its biological diversity;
- b) Constitutes or may constitute a danger to the environment on which life depends; or
- c) Constitutes or may constitute a danger in Canada to human life or health.

Waste - any garbage, debris, chemical, or Toxic Material to be used, stored, disposed of, or handled on land, and also as defined in section 51 of the Act.

Waste Management Plan - a document, developed in accordance with the Board's Guidelines for Developing a Waste Management Plan, that describes the methods of Waste management from Waste generation to final disposal.

Watercourse - a natural body of flowing or standing water or an area occupied by water during part of the year, and includes streams, springs, swamps and gulches but does not include groundwater.

Part C: Conditions Applying to All Activities (headings correspond to subsection 26(1) of the Mackenzie Valley Land Use Regulations)

	Condition	Category
	26(1)(a) Location and Area	
1.	The Permittee shall only conduct this land-use operation on lands designated in the application.	LOCATION OF ACTIVITIES
2.	Prior to the commencement of drilling, the Permittee shall submit the target areas and final drill hole locations on a 1:50,000-scale map with coordinates and map datum to the Board and an Inspector.	DRILL LOCATIONS
	26(1)(b) Time	
3.	At least 48 hours prior to the initial commencement of the land-use operation, the Permittee's Field Supervisor shall notify the Board and contact an Inspector at (867) 587-7206 or 587-7205	INITIAL NOTIFICATION – CONTACT INSPECTOR
4.	At least 48 hours prior to commencement of the land-use operation, the Permittee shall provide the following information, in writing, to the Board and an Inspector: a) the name(s) of the person(s) in charge of the field operation; b) alternates; and c) all methods for contacting the above person(s).	IDENTIFY AGENT
5.	At least ten days prior to the completion of the land-use operation, the Permittee shall advise an Inspector of: a) the plan for removal or storage of equipment and materials; b) when final cleanup and reclamation of the land used will be completed; and c) when the Final Plan will be submitted.	REPORTS BEFORE FINAL REMOVAL
	26(1)(c) Type and Size of Equipment	
6.	The Permittee shall only use equipment of a similar type, size, and number to that listed in the complete application.	USE APPROVED EQUIPMENT
7.	The Permittee shall maintain fire-fighting equipment at the site.	FIRE-FIGHTING EQUIPMENT
	26(1)(d) Methods and Techniques	

8.	The Permittee shall not erect camps or store material, other than that required for immediate use, on the ice surface of a Watercourse.	STORAGE ON ICE
	26(1)(e) Type, Location, Capacity, and Operation of All Facilities	
9.	The Permittee shall ensure that the land use area is kept clean at all times.	CLEAN WORK AREA
	26(1)(f) Control or Prevention of Ponding of Water, Flooding, Erosion, Slides, and Subsidence of Land	
10.	The Permittee shall insulate the ground surface beneath all structures associated with this land-use operation to prevent: <ul style="list-style-type: none"> a) any vegetation present from being removed; b) the melting of Permafrost; and c) the ground settling and/or eroding. 	PERMAFROST PROTECTION
11.	The land-use operation shall not cause obstruction to any natural drainage.	NATURAL DRAINAGE
12.	The Permittee shall install and maintain suitable erosion control structures as the land-use operation progresses.	PROGRESSIVE EROSION CONTROL
13.	The Permittee shall apply appropriate mitigation at the first sign of erosion.	REPAIR EROSION
14.	The Permittee shall, where flowing water from a Borehole is encountered: <ul style="list-style-type: none"> a) plug the Borehole in such a manner as to permanently prevent any further outflow of water; and b) immediately report the occurrence to the Board and an Inspector. 	FLOWING ARTESIAN WELL
15.	The Permittee shall only conduct off-road vehicle travel on snow-covered surfaces.	OFF-ROAD VEHICLE TRAVEL
16.	The Permittee shall prepare the site in such a manner as to prevent rutting or gouging of the ground surface.	PREVENTION OF RUTTING

17.	The Permittee shall suspend overland travel of equipment or vehicles at the first sign of rutting or gouging.	SUSPEND OVERLAND TRAVEL
18.	The Permittee shall not move any equipment or vehicles unless the ground surface is in a state capable of fully supporting the equipment or vehicles without rutting or gouging.	VEHICLE MOVEMENT FREEZE-UP
19.	The Permittee shall minimize approach grades on all Watercourse crossings.	MINIMIZE APPROACH
20.	The Permittee shall not remove vegetation or operate heavy equipment within 100 metres of the Ordinary High Water Mark of any Watercourse.	EQUIPMENT: WATERCOURSE BUFFER
21.	The Permittee shall not excavate land within 100 metres of the Ordinary High Water Mark of any Watercourse, unless otherwise authorized in writing by an Inspector.	EXCAVATION SETBACK
	26(1)(g) Use, Storage, Handling, and Ultimate Disposal of Any Chemical or Toxic Material	
22.	At least seven days prior to the use of any chemicals that were not identified in the complete application, the Safety Data Sheets must be provided to the Board and an Inspector.	CHEMICALS
23.	When drilling within 100 metres of the Ordinary High Water Mark of any Watercourse, and when drilling on ice, the Permittee shall contain all drill water and Drilling Waste in a closed circuit system for reuse, off-site disposal, or deposit into a land-based Sump or natural depression.	DRILLING NEAR WATER OR ON ICE
24.	The Permittee may deposit Drilling Waste that does not contain Toxic Material in a Sump. Any Sumps or natural depressions used to deposit Drilling Waste must be located at least 100 metres from the Ordinary High Water Mark of any Watercourse, unless otherwise authorized in writing by an Inspector.	DRILLING WASTE
25.	The Permittee shall remove all Drilling Waste containing Toxic Material to an approved disposal facility.	DRILLING WASTE DISPOSAL
26.	The Permittee shall not allow any Drilling Waste to spread to the surrounding lands or Watercourses.	DRILLING WASTE CONTAINMENT
27.	Prior to the expiry date of this Permit or the end of the land-use operation whichever comes first, the Permittee shall backfill and restore all Sumps, unless otherwise authorized in writing by an Inspector.	RECLAIM NON-OIL AND GAS SUMPS

28.	The Permittee shall dispose of all Toxic Material as described in the approved Waste Management Plan.	WASTE CHEMICAL DISPOSAL
29.	<u>Option 1:</u> The Permittee shall dispose of all combustible Waste petroleum products by removal to an approved disposal facility.	WASTE PETROLEUM DISPOSAL
30.	The Permittee shall provide written notification to the Board and Inspector a minimum of 10 days prior to the initial deposit of Waste, demonstrating that the licenced disposal facility has agreed to accept the Waste and has the capacity to receive the volumes of Waste requested.	NOTIFICATION OF SOLID WASTE DISPOSAL
	26(1)(h) Wildlife and Fish Habitat	
31.	The Permittee shall take all reasonable measures to prevent damage to wildlife and fish Habitat during this land-use operation.	HABITAT DAMAGE
	26(1)(i) Storage, Handling, and Disposal of Refuse or Sewage	
32.	The Permittee shall dispose of all Waste as described in the Waste Management Plan , once approved, and shall annually review the plan and make any necessary revisions to reflect changes in operations, technology, chemicals, or fuels, or as directed by the Board. Revisions to the plan shall be submitted to the Board for approval.	WASTE MANAGEMENT
33.	At least 60 days prior to the commencement of the land-use operation, the Permittee shall submit a revised Waste Management Plan in accordance with MVLWB's "Guidelines for Developing a Waste Management Plan" to the Board for approval.	REVISE WASTE MANAGEMENT PLAN
34.	The Permittee shall keep all garbage and debris in a secure container until disposal.	GARBAGE CONTAINER
35.	The Permittee shall dispose of all Sewage and Greywater as described in the approved Waste Management Plan.	SEWAGE DISPOSAL - PLAN
	26(1)(j) Protection of Historical, Archaeological, and Burial Sites	
36.	The Permittee shall not operate any vehicle or equipment within 150 metres of a known or suspected historical or archaeological site or burial ground.	ARCHAEOLOGIC AL BUFFER
37.	The Permittee shall not knowingly remove, disturb, or displace any archaeological specimen or site.	SITE DISTURBANCE

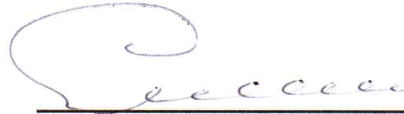
38.	The Permittee shall, where a suspected archaeological or historical site, or burial ground is discovered: a) immediately suspend operations on the site; and b) notify the Board at (867) 598-2413 or an Inspector at (867) 587-7206 or 587-7205, and the Prince of Wales Northern Heritage Centre at 767-9347 ext. 71251 or ext. 71255.	SITE DISCOVERY AND NOTIFICATION
	26(1)(k) Objects and Places of Recreational, Scenic, and Ecological Value <i>Intentionally left blank</i>	
	26(1)(l) Security Deposit <i>Intentionally left blank</i>	
	26(1)(m) Fuel Storage	
39.	The Permittee shall: a) examine all Fuel Storage Containers and Tank for leaks; and b) repair all leaks immediately.	REPAIR LEAKS
40.	The Permittee shall place Fuel Storage Containers and or Tanks a minimum of 100 metres from the Ordinary High Water Mark of any Watercourse, unless otherwise authorized in writing by an Inspector.	FUEL STORAGE SETBACK
41.	The Permittee shall ensure that all fuel caches have adequate Secondary Containment.	FUEL CACHE SECONDARY CONTAINMENT
42.	The Permittee shall set up all refueling points with Secondary Containment.	SECONDARY CONTAINMENT - REFUELING
43.	The Permittee shall not allow petroleum products to spread to surrounding lands or Watercourses.	FUEL CONTAINMENT
44.	The Permittee shall mark all Fuel Storage Containers and Tanks with the Permittee's name.	MARK CONTAINERS AND TANKS
45.	Within ten days of the establishment of any fuel cache, the Permittee shall report the location and quantity of the cache in writing to the Board and an Inspector.	REPORT FUEL LOCATION
46.	The Permittee shall seal all outlets of Fuel Storage Containers and store the containers on their sides with the outlets located at 3 and 9 o'clock, except for containers currently in use.	SEAL OUTLET
47.	The Permittee shall comply with the Spill Contingency Plan , once approved, and shall annually review the plan and make any necessary revisions to reflect changes in operations, technology, chemicals, or	SPILL CONTINGENCY PLAN

	fuels, or as directed by the Board. Revisions to the plan shall be submitted to the Board for approval.	
48.	At least 60 days prior to the commencement of the land-use operation, the Permittee shall submit a revised Spill Contingency Plan in accordance with <i>Aboriginal Affairs and Northern Development Canada's "Guidelines for Spill Contingency Planning"</i> to the Board for approval.	REVISE SPILL CONTINGENCY PLAN
49.	Prior to commencement of the land-use operation the Permittee shall ensure that spill-response equipment is in place to respond to any potential spills.	SPILL RESPONSE
50.	All equipment that may be parked for two hours or more, shall have a haz-mat/drip tray under it or be sufficiently diapered. Leaky equipment shall be repaired immediately.	DRIP TRAYS
51.	The Permittee shall clean up all leaks, spills, and contaminated material immediately	CLEAN UP SPILLS
52.	During the period of this Permit, if a spill occurs or is foreseeable, the Permittee shall: <ul style="list-style-type: none"> a) implement the approved Spill Contingency Plan; b) report it-immediately using the NU-NT Spill Report Form by one of the following methods: <ul style="list-style-type: none"> • Telephone: (867) 920-8130 • Fax: (867) 873-6924 • E-mail: spills@gov.nt.ca • <u>Online: Spill Reporting and Tracking Database</u> c) within 24 hours, notify the Board and an Inspector; and d) within 30 days of initially reporting the incident, submit a detailed report to the Board and an Inspector, including descriptions of causes, response actions, and any changes to procedures to prevent similar occurrences in the future. Any updates to this report shall be provided to the Board and an Inspector in writing as changes occur. 	REPORT SPILLS
	26(1)(n) Methods and Techniques for Debris and Brush Disposal	
53.	The Permittee shall not clear areas larger than identified in the complete application.	MINIMIZE AREA CLEARED
	26(1)(o) Restoration of the Lands	
54.	Prior to the end of the land-use operation, the Permittee shall complete all cleanup and restoration of the lands used.	FINAL CLEANUP AND RESTORATION
	26(1)(p) Display of Permits and Permit Numbers	

55.	The Permittee shall display a copy of this Permit in each campsite established to carry out this land-use operation.	DISPLAY PERMIT
56.	The Permittee shall keep a copy of this Permit on hand at all times during this land-use operation.	COPY OF PERMIT
	26(1)(q) Biological and Physical Protection of the Land	
57.	The Permittee shall not move any equipment or commence any drilling when one or more caribou are within 500 metres.	CARIBOU DISTURBANCE
58.	If nesting areas are encountered during the course of operations, the Permittee shall minimize all activity so as to not disturb them.	MIGRATORY BIRD NEST DISTURBANCE
59.	The Permittee shall comply with the Engagement Plan , once approved, and shall annually review the plan and make any necessary revisions to reflect changes in operations or as directed by the Board. Revisions to the plan shall be submitted to the Board for approval.	ENGAGEMENT PLAN
60.	All revised plans submitted to the Board shall include a brief summary of the changes made to the plan.	SUMMARY OF CHANGES



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