



GWICH'IN LAND AND WATER BOARD

P.O. Box 2018, Inuvik, NT X0E 0T0

☎ 867-777-4954

☎ 867-777-2304

🌐 glwb.com

LAND USE PERMIT

| Permit Class | Permit No | Amendment No |
|--------------|-----------|--------------|
| A | G19S004 | - |

Subject to the Mackenzie Valley Resource Management Act, the Mackenzie Valley Land Use Regulations and the terms and conditions in this Permit, authority is hereby granted to:

GNWT Department of Infrastructure

(Permittee)

to proceed with the land use operation described in application of:

| | |
|---|---------------------------|
| Signature Merle Carpenter | Date February 15, 2019 |
| Type of Land Use Operation Geotechnical Drilling | |
| Location km 36.6, Dempster highway # 8, NT (67°13'23"N, 135°34'44"W) | |

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

Dated at Inuvik this 20th day of March, 2019

Witness – Leonard DeBastien

Chair – Elizabeth Wright

Commencement Date

March 20, 2019

Expiry Date

March 19, 2024

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.

Conditions Annexed to and Forming Part of Land Use Permit # G19S004

Part A: Scope of Permit

1. This Permit entitles the Permittee to conduct the following land-use operations:
 - a) Use of earth-drilling machinery for the purpose of geotechnical investigation at km 36.7 Dempster Highway #8
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 or Municipal laws.

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

Act - the *Mackenzie Valley Resource Management Act*.

Board – the Gwich'in 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 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.

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.

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.

Spill Contingency Plan - a document, developed in accordance with Aboriginal Affairs and Northern Development Canada's *Guidelines for Spill Contingency Planning* (April 2007), 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 - as defined in section 51 of the Act.

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)

26(1)(a) Location and Area

- | | | |
|----|--|-------------------------------|
| 1. | The Permittee shall not conduct this land-use operation on any lands not designated in the complete application. | LOCATION OF ACTIVITIES |
| 2. | The Permittee shall not conduct any part of the land-use operation within 300 metres of a cabin used for traditional activities, including trapping, hunting, or fishing, unless otherwise authorized in writing by the Board. | AVOID CABINS |
| 3. | Prior to the commencement of drilling, the Permittee shall submit the drill target 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

- | | | |
|----|---|-------------------------------|
| 4. | Prior to the commencement of the land-use operation, the Permittee shall accompany an Inspector during an inspection of the proposed land use area. | INSPECT LOCATIONS |
| 5. | At least 48 hours prior to the commencement of the land-use operation, the Permittee's Field Supervisor shall contact an Inspector at (867) 777-8900. | CONTACT INSPECTOR |
| 6. | 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 |
| 7. | 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; and (b) when final cleanup and reclamation of the land used will be completed | REPORTS BEFORE REMOVAL |
| 8. | The Permittee shall complete all clean up and restoration of the lands used prior to the expiration date of this Land Use Permit. | CLEAN-UP |

26(1)(c) Type and Size of Equipment

- | | | |
|----|--|--------------------------------|
| 9. | The Permittee shall not use any equipment except of a similar type, size, and number to that listed in the complete application. | ONLY APPROVED EQUIPMENT |
|----|--|--------------------------------|

26(1)(d) Methods and Techniques

- | | | |
|-----|--|---------------------------|
| 10. | Prior to the expiry date of this Permit, the Permittee shall replace all excavated material, unless otherwise authorized in writing by an Inspector. | EXCAVATED MATERIAL |
|-----|--|---------------------------|

26(1)(e) Type, Location, Capacity, and Operation of All Facilities

11. 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

12. The land-use operation shall not cause obstruction to any natural drainage. **NATURAL DRAINAGE**
13. The Permittee shall, where flowing water from a Borehole is encountered: **FLOWING ARTESIAN WELL**
- 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.
14. The Permittee shall prevent water from entering boreholes by covering them with fill upon completion of drilling. **COVER BOREHOLES**

26(1)(g) Use, Storage, Handling, and Ultimate Disposal of Any Chemical or Toxic Material

15. The Permittee shall not, in any circumstances, deposit or allow the deposit of any deleterious substances (including but not limited to fuels, lubricants, hydraulics, and coolants) of any type into any waters, or in any place under any conditions where the deleterious substances may enter any waters. **DEPOSITING DELETERIOUS SUBSTANCES**
16. The Permittee shall remove all Drilling Waste containing Toxic Material to an approved disposal facility. **DRILLING WASTE DISPOSAL**
17. The Permittee shall maintain a record of all spills. For all reportable spills, in accordance with the GNWT *Spill Contingency Planning and Reporting Regulations*, the Permittee shall: **REPORT SPILLS**
- a) immediately report each spill to the 24-hour Spill Report Line (867) 920-8130;
 - b) report each spill to an Inspector within 24 hours; and
 - c) submit, to the Board and an Inspector, a detailed report on each spill within 30 days.

26(1)(h) Wildlife and Fish Habitat

18. 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

19. The Permittee shall keep all garbage and debris in a secure container until disposal. **GARBAGE CONTAINER**

26(1)(j) Protection of Historical, Archaeological, and Burial Sites

20. The Permittee shall not operate any vehicle or equipment within 150 metres of a known or suspected historical or archaeological site or burial ground. **ARCHAEOLOGICAL BUFFER**
21. The Permittee shall not knowingly remove, disturb, or displace any archaeological specimen or site. **SITE DISTURBANCE**
22. The Permittee shall, where a suspected archaeological or historical site, or burial ground is discovered: **SITE DISCOVERY AND NOTIFICATION**
- a) immediately suspend operations on the site; and
 - b) notify the Board at (867) 777-4954 or an Inspector at (867) 777- 8900 and the Prince of Wales Northern Heritage Centre at 767-9347 ext. 71250 or ext. 71251.

26(1)(k) Objects and Places of Recreational, Scenic, and Ecological Value

23. The Permittee shall take all reasonable precautions to avoid impacts to traditional harvest activities. **TRADITIONAL USE**

26(1)(l) Security Deposit

24. All costs to remediate the area under this Permit are the responsibility of the Permittee. **RESPONSIBILITY FOR REMEDIATION COSTS**

26(1)(m) Fuel Storage

25. The Permittee shall: **CHECK FOR LEAKS**
- a) examine all Fuel Storage Containers and Tank for leaks a minimum daily; and
 - b) repair all leaks immediately.
26. The Permittee shall not allow petroleum products to spread to surrounding lands or Watercourses. **FUEL CONTAINMENT**
27. The Permittee shall not place any Fuel Storage Containers or Tanks within 100 metres of the Ordinary High Water Mark of any Watercourse, unless otherwise authorized in writing by an Inspector. **FUEL NEAR WATER**
28. The Permittee shall set up all refueling points with Secondary Containment. **SECONDARY**

| | | |
|--|--|---|
| | | CONTAINMENT – REFUELING DRIP TRAYS |
| 29. | All equipment that may be parked for two hours or more, shall have a drip tray under it or be sufficiently diapered. Leaky equipment shall be repaired immediately. | |
| 30. | The Permittee shall adhere to 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 fuels, or as directed by the Board. Revisions to the plan shall be submitted to the Board for approval. | SPILL CONTINGENCY PLAN |
| 31. | 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 |
| 32. | The Permittee shall clean up all leaks, spills, and contaminated material. | CLEAN UP SPILLS |
| 26(1)(n) Methods and Techniques for Debris and Brush Disposal | | |
| 33. | The Permittee shall not clear areas larger than identified in the accepted application. | MINIMIZE AREA CLEARED |
| 26(1)(o) Restoration of the Lands | | |
| 34. | The Permittee shall carry out progressive reclamation of disturbed areas as soon as it is practical to do so. | PROGRESSIVE RECLAMATION |
| 35. | Prior to the expiry date of this Permit, 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 | | |
| 36. | 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 | | |
| 37. | The Permittee shall not move any equipment or commence any drilling when one or more caribou are within five hundred (500) metres. | CARIBOU DISTURBANCE |
| 38. | If migratory birds or their nesting areas, or any species at risk are encountered during the course of operations, the Permittee shall minimize all activity so as to not disturb these animals. | MIGRATORY BIRD DISTURBANCE |