



GWICH'IN LAND AND WATER BOARD

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

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glwb.com

PRELIMINARY SCREENING REPORT FORM

<p>PRELIMINARY SCREENER: GLWB (AlecSandra Macdonald) REFERENCE / FILE NUMBER: G18X002 TITLE: Drilling at Inuvik ORGANIZATION: GNWT ENR MEETING DATE: July 24, 2018</p>	<p>EIRB REFERENCE NUMBER:</p>
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NOTE: Amendment items on this preliminary screening form are shown in italics.

Type of Development:
(CHECK ALL THAT APPLY)

- New
- Amend, EIRB Ref. #
- Requires permit, license or authorization
- Does not require permit, license or authorization

Project Summary

- Miscellaneous - Drilling

Scope

- A) Conduct a drilling operation for the purpose of groundwater monitoring well installation at two locations in the Town of Inuvik

Principal Activities (related to scoping)
(CHECK ALL THAT APPLY)

- | | | |
|-------------------------------------------------|--------------------------------------------|----------------------------------------------|
| <input type="checkbox"/> Construction | <input type="checkbox"/> Exploration | <input type="checkbox"/> Decommissioning |
| <input type="checkbox"/> Installation | <input type="checkbox"/> Industrial | <input type="checkbox"/> Abandonment |
| <input type="checkbox"/> Maintenance | <input type="checkbox"/> Recreation | <input type="checkbox"/> Aerial |
| <input type="checkbox"/> Expansion | <input type="checkbox"/> Municipal | <input type="checkbox"/> Harvesting |
| <input type="checkbox"/> Operation | <input type="checkbox"/> Quarry | <input type="checkbox"/> Camp |
| <input type="checkbox"/> Repair | <input type="checkbox"/> Linear / Corridor | <input type="checkbox"/> Scientific/Research |
| <input type="checkbox"/> Water Intake | <input type="checkbox"/> Sewage | <input type="checkbox"/> Solid Waste |
| <input type="checkbox"/> Other: DRILLING | | |

Principal Development Components (related to scoping)

- | | |
|---------------------------------------------------------------------|------------------------------------------------------|
| <input type="checkbox"/> Access Road | <input type="checkbox"/> Waste Management |
| <input type="checkbox"/> construction | <input type="checkbox"/> Disposal of hazardous waste |
| <input type="checkbox"/> abandonment/removal | <input type="checkbox"/> Waste generation |
| <input type="checkbox"/> modification e.g., widening, straightening | <input type="checkbox"/> Sewage |
| <input type="checkbox"/> Automobile, Aircraft or Vessel Movement | <input type="checkbox"/> Disposal of sewage |
| <input type="checkbox"/> Blasting | <input type="checkbox"/> Geoscientific Sampling |
| <input type="checkbox"/> Building | <input type="checkbox"/> trenching |
| <input type="checkbox"/> Burning | <input type="checkbox"/> diamond drill |
| <input type="checkbox"/> Burying | <input type="checkbox"/> borehole core sampling |
| <input type="checkbox"/> Channeling | <input type="checkbox"/> bulk soil sampling |
| <input type="checkbox"/> Cut and Fill | <input type="checkbox"/> Gravel |

- Cutting of Trees or Removal of Vegetation
- Dams and Impoundments
 - construction
 - abandonment/removal
 - modification
- Ditch Construction
- Drainage Alteration
- Drilling other than Geoscientific
- Ecological Surveys
- Excavation
- Explosive Storage
- Fuel Storage
- Topsoil, Overburden or Soil
 - fill
 - disposal
 - removal
 - storage

- Hydrological Testing
- Site Restoration
- fertilization
- grubbing
- planting/seeding
- reforestation
- scarify
- spraying
- recontouring
- Slashing and removal of vegetation
- Soil Testing
- Stream Crossing/Bridging
- Tunneling/Underground
- Other (describe):

NTS Topographic Map Sheet Numbers

(LIST ALL THAT APPLY)

107 B7

Latitude / Longitude and UTM System:

Minimum Latitude: N68°22'
Maximum Latitude: N68°23'

Min Longitude : W133°45'
Max Longitude : W133°46'

Nearest Community and Water Body:

- Inuvik

- Mackenzie River

Land Status (*consultation information*)

Private (GSA)

Commissioners Land

Territorial Land

Municipal Land

Transboundary Implications

British Columbia

Alberta

Saskatchewan

Yukon

Nunavut

Wood Buffalo National Park

Inuvialuit Settlement Region

Type of Transboundary Implication:

Impact / Effect

Development

Public Concern _____

(DESCRIBE)

PHYSICAL - CHEMICAL EFFECTS

IMPACT

1. Ground Water

- water table alteration
- water quality changes

- infiltration changes
- other
- N/A

MITIGATION

Small risk of encountering artesian well. Applicant indicates bentonite will be available to plug any flowing groundwater.

IMPACT

2. Surface Water

- flow or level changes
- water quality changes

- water quantity changes
- Drainage pattern changes
- temperature
- wetland changes / loss
- other:
- N/A

MITIGATION

Possibility of contamination from fuel during transport or refueling. No fuel will be stored on site. The applicant has submitted a Spill Contingency Plan, outlining preventive measures and spill clean-up. Conditions address fuel containment and spill kits.

IMPACT

3. Noise

- noise in/near water

- other: noise increase
- N/A

MITIGATION

Noise may temporarily disturb local wildlife. However, the impact is expected to be minimal, localized, and over a short duration.

IMPACT

4. Land

- geologic structure changes
- soil contamination

- buffer zone loss
- soil compaction & settling
- Destabilization / erosion
- permafrost regime alteration
- other:
- N/A

MITIGATION

Possibility of contamination from fuel during transport or refueling. No fuel will be stored on site. The applicant has submitted a Spill Contingency Plan outlining preventive measures and spill clean-up. Conditions address fuel containment and spill kits.

IMPACT
5. Non Renewable Natural Resources

MITIGATION

- resource depletion
- other:
- N/A

IMPACT
6. Air/Climate/ Atmosphere

MITIGATION

- Other
- N/A

BIOLOGICAL

ENVIRONMENT IMPACT
1. Vegetation

MITIGATION

- species composition
- species introduction
- toxin / heavy accumulation

- other:
- N/A

IMPACT
2. Wildlife & Fish

MITIGATION

- effects on rare, threatened or endangered species
- fish population changes
- waterfowl population changes

- breeding disturbance
- population reduction
- species diversity change
- health changes
(Identify)

behavioural changes

Some species may avoid the area during operation, however, the impact is expected to be minimal, localized, and over a short duration

(Identify)

habitat changes / effects

game species effects

toxins / heavy metals

forestry changes

agricultural changes

other:

N/A

INTERACTING ENVIRONMENT

IMPACT

MITIGATION

1. Habitat and Communities

predator-prey

wildlife habitat / ecosystem
Composition changes

reduction / removal of keystone
or endangered
species

removal of wildlife corridor or
buffer zone

other:

N/A

IMPACT

MITIGATION

2. Social and Economic

planning / zoning changes or
conflicts

increase in urban facilities or
services use

rental house

airport operations / capacity
changes

human health hazard

impair the recreational use of water or aesthetic quality

affect water use for other purposes

affect other land use operations

quality of life changes

public concern

other:

N/A

IMPACT

3. Cultural and Heritage

MITIGATION

effects to historic property

increased economic pressure on historic properties

change to or loss of historic resources

change to or loss of archaeological resources

increased pressure on archaeological sites

change to or loss of aesthetically important site

effects to aboriginal lifestyle

other:

N/A

If any new cultural or heritage resource site is discovered during the project, work must cease and the Prince of Wales Northern Heritage Centre shall be contacted immediately. LUP Conditions 22-23 pertain to archaeological and heritage resources.

PRELIMINARY SCREENER / REFERRING BODY INFORMATION

(CHECK ALL THAT APPL)

	RA or DRA	ADVICE	PERMIT REQUIRED
Environment Canada	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fisheries and Oceans	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Indian and Northern Affairs Canada	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Canadian Heritage (Parks Canada)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Natural Resources Canada	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Public Works and Gov't Services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transport Canada	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Northern Oil and Gas Directorate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Canadian Nuclear Safety	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Industry Canada	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Canadian Transportation Agency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
National Defence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GNWT – ENR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GNWT - MACA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GNWT - Transportation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GNWT - Health	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GNWT – Department of Lands	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prince of Wales Heritage Center	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Worker’s Compensation Board	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MVEIRB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MVLWB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gwich'in Land and Water Board	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Gwich'in Land Use Planning Board	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gwich'in Renewable Resource Board	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gwich'in Social Cultural Institute	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gwich'in Tribal Council	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gwichya Gwich'in Council	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gwichya Gwich'in Renewable Resources Council	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nihtat Gwich'in Council	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nihtat Gwich'in Renewable Resource Council	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Teetl'it Gwich'in Council	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Teetl'it Gwich'in Renewable Resource Council	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ehdiitat Gwich'in Council	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ehdiitat Renewable Resource Council	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hamlet of Aklavik	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hamlet of Fort Mcpherson	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Charter Community Of Tsiigehtchic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Town of Inuvik	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REASONS FOR DECISION
(LIST ALL REASONS AND SUPPORTING RATIONALES FOR PRELIMINARY SCREENING DECISION)

DECISION:

The Gwich'in Land and Water Board (The Board) is satisfied that the preliminary screening of application G18X002 by the Government of the Northwest Territories for the purpose of drilling to support groundwater monitoring well installation at Inuvik has been completed in accordance with Section 125 of the Mackenzie Valley Resource Management Act.

The Board is satisfied that a reasonable period of notice was given to Communities and First Nations affected by the application as required by Subsection 63(2) of the MVRMA so that they could provide comments to the Board.

Having reviewed all relevant evidence on the Public Registry, including the submissions of the Applicant, the written comments received by the Board and any staff reports prepared for the Board, the Board has decided that in its opinion that:

- there is no likelihood that the proposed development might have a significant adverse impact on the environment; and
- there is no likelihood that the proposed development might be a cause of public concern.

The Board is also of the opinion that the application can proceed through the regulatory process and that any impacts of the development on the environment can be mitigated through the imposition of the terms and conditions in the attached Land Use Permit.

As a result, the Board, having due regard to the facts and circumstances, the merits of the submissions made to it, and to the purpose, scope and intent of the Mackenzie Valley Resource Management Act and the Mackenzie Valley Land Use Regulations has decided that this Land Use Permit be issued subject to the terms and conditions contained therein.

PRELIMINARY SCREENING DECISION	
<input type="checkbox"/>	Outside Local Government Boundaries
<input type="checkbox"/>	The development proposal might have a significant adverse impact on the environment, <i>refer it to the EIRB.</i>
<input type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>
<input type="checkbox"/>	The development proposal might have public concern, <i>refer it to the EIRB.</i>
<input type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>
<input checked="" type="checkbox"/>	Wholly within Local Government Boundaries
<input type="checkbox"/>	The development proposal is likely to have a significant adverse impact on air, water or renewable resources, <i>refer it to the EIRB.</i>
<input checked="" type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>
<input type="checkbox"/>	The development proposal might have public concern, <i>refer it to the EIRB.</i>
<input checked="" type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>



 Chair, Gwich'in Land and Water Board