

PRELIMINARY SCREENING REPORT FORM

<p>PRELIMINARY SCREENER: Gwich'in Land and Water Board</p> <p>REFERENCE / FILE NUMBER: G10Q009</p> <p>TITLE: Quarry/Stockpiling Permit, km 34 Dempster Highway</p> <p>ORGANIZATION: Department of Transportation, GNWT</p>	<p>EIRB REFERENCE NUMBER:</p>
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Type of Development:
(CHECK ALL THAT APPLY)

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

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

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> <input type="checkbox"/> Construction <input type="checkbox"/> Installation <input type="checkbox"/> Maintenance <input type="checkbox"/> Expansion <input checked="" type="checkbox"/> Operation <input type="checkbox"/> Repair <input type="checkbox"/> Research <input type="checkbox"/> Water Intake <input checked="" type="checkbox"/> Other: _____ | <ul style="list-style-type: none"> <input type="checkbox"/> Exploration <input type="checkbox"/> Industrial <input type="checkbox"/> Recreation <input type="checkbox"/> Municipal <input checked="" type="checkbox"/> Quarry <input type="checkbox"/> Linear / Corridor <input type="checkbox"/> Sewage | <ul style="list-style-type: none"> <input type="checkbox"/> Decommissioning <input type="checkbox"/> Abandonment <input type="checkbox"/> Aerial <input type="checkbox"/> Harvesting <input type="checkbox"/> Camp <input type="checkbox"/> Scientific/Research <input type="checkbox"/> Solid Waste |
|--|---|---|

Principal Development Components (related to scoping)

- | | |
|---|--|
| <ul style="list-style-type: none"> <input type="checkbox"/> Access Road <ul style="list-style-type: none"> <input type="checkbox"/> construction <input type="checkbox"/> abandonment/removal <input type="checkbox"/> modification e.g., widening, straightening <input type="checkbox"/> Automobile, Aircraft or Vessel Movement <input type="checkbox"/> Blasting <input type="checkbox"/> Building <input type="checkbox"/> Burning <input type="checkbox"/> Burying <input type="checkbox"/> Channeling <input type="checkbox"/> Cut and Fill <input type="checkbox"/> Cutting of Trees or Removal of Vegetation <input type="checkbox"/> Dams and Impoundments <ul style="list-style-type: none"> <input type="checkbox"/> construction <input type="checkbox"/> abandonment/removal <input type="checkbox"/> modification <input type="checkbox"/> Ditch Construction <input type="checkbox"/> Drainage Alteration <input type="checkbox"/> Drilling other than Geoscientific <input type="checkbox"/> Ecological Surveys <input type="checkbox"/> Excavation <input type="checkbox"/> Explosive Storage <input type="checkbox"/> Fuel Storage <input type="checkbox"/> Topsoil, Overburden or Soil <ul style="list-style-type: none"> <input type="checkbox"/> fill <input type="checkbox"/> disposal <input type="checkbox"/> removal <input checked="" type="checkbox"/> storage | <ul style="list-style-type: none"> <input type="checkbox"/> Waste Management <ul style="list-style-type: none"> <input type="checkbox"/> disposal of hazardous waste <input type="checkbox"/> waste generation <input type="checkbox"/> Sewage <ul style="list-style-type: none"> <input type="checkbox"/> disposal of sewage <input type="checkbox"/> Geoscientific Sampling <ul style="list-style-type: none"> <input type="checkbox"/> trenching <input type="checkbox"/> diamond drill <input type="checkbox"/> borehole core sampling <input type="checkbox"/> bulk soil sampling <input checked="" type="checkbox"/> Gravel <input type="checkbox"/> Hydrological Testing <input type="checkbox"/> Site Restoration <ul style="list-style-type: none"> <input type="checkbox"/> fertilization <input type="checkbox"/> grubbing <input type="checkbox"/> planting/seeding <input type="checkbox"/> reforestation <input type="checkbox"/> scarify <input type="checkbox"/> spraying <input type="checkbox"/> recontouring <input type="checkbox"/> Slashing and removal of vegetation <input type="checkbox"/> Soil Testing <input type="checkbox"/> Stream Crossing/Bridging <input type="checkbox"/> Tunneling/Underground <input type="checkbox"/> Other (describe): _____ |
|---|--|

NTS Topographic Map Sheet Numbers
106M4

Latitude / Longitude and UTM System:
km 34 Dempster Highway - 67 12 14 N 135 37 59 W

Nearest Community and Water Body:
Fort McPherson/Small Lakes

Land Status (*consultation information*)

Free Hold / Private Commissioners Land Federal Crown Land Municipal Land

Transboundary Implications

British Columbia Alberta Saskatchewan Manitoba Yukon
 Nunavut Wood Buffalo National Park Inuvialuit Settlement Region

Type of Transboundary Implication: Impact / Effect Development

Public Concern _____
(DESCRIBE)

PHYSICAL - CHEMICAL EFFECTS

IMPACT

MITIGATION

1. Ground Water

water table alteration

water quality changes

infiltration changes

other

N/A

IMPACT

MITIGATION

2. Surface Water

flow or level changes

Water quality changes

Water quantity changes

Drainage pattern changes

temperature

wetland changes / loss

other:

N/A

IMPACT

MITIGATION

3. Noise

noise in/near water

other: noise increase

Increased noise level during land use operation - temporary in nature

N/A

IMPACT

MITIGATION

4. Land

geologic structure changes

soil contamination

Spill Contingency Plan will be in place to address potential spills with the requirement of contacting the NWT 24-Hour Spill Line at (867) 920-8130. (Land Use Permit Conditions 13, 28, 29 and 35.)

buffer zone loss

soil compaction & settling

Destabilization / erosion

permafrost regime alteration

other:

N/A

IMPACT

MITIGATION

5. Non Renewable Natural Resources

resource depletion

other:

N/A

IMPACT

MITIGATION

6. Air/Climate/ Atmosphere

Ice fog and emissions from generator

Burning of slash from clearing

**BIOLOGICAL ENVIRONMENT
IMPACT**

MITIGATION

1. Vegetation

- species composition
- species introduction
- toxin / heavy accumulation
- other:
- N/A

IMPACT

MITIGATION

2. Wildlife & Fish

- effects on rare, threatened or endangered species
- fish population changes
- waterfowl population changes
- breeding disturbance
- population reduction
- species diversity change
- health changes
(waste may be harmful to wildlife)
- behavioural changes
(avoidance behaviour and blockage of migration or movement corridors)
- 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

MITIGATION

3. Cultural and Heritage

- affects 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

affects to aboriginal lifestyle

other:

N/A

NOTES:

PRELIMINARY SCREENER / REFERRING BODY INFORMATION
(CHECK ALL THAT APPLY)

	RA or DRA	ADVICE	PERMIT REQUIRED
<u>Federal</u>			
ENVIRONMENT CANADA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FISHERIES & OCEANS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
INDIAN AFFAIRS & NORTHERN DEVELOPMENT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MACKENZIE VALLEY LAND AND WATER BOARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MACKENZIE VALLEY ENVIRONMENTAL IMPACT REVIEW BOARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Territorial</u>			
PRINCE OF WALES NORTHERN HERITAGE CENTRE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ENVIRONMENT & NATURAL RESOURCES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Aboriginal / First Nation</u>			
GWICH'IN LAND & RESOURCES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
GWICH'IN LAND USE PLANNING BOARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
GWICH'IN RENEWABLE RESOURCES BOARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
GWICH'IN SOCIAL & CULTURAL INSTITUTE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TETLIT GWICHIN COUNCIL	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TETLIT RENEWABLE RESOURCE GWICHIN COUNCIL	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

No significant environmental impacts are anticipated.

<input type="checkbox"/>	PRELIMINARY SCREENING DECISION
<input checked="" 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 checked="" type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>
<input 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 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>

Preliminary Screening Organization

Signatures

Gwich'in Land and Water Board _____

