

PRELIMINARY SCREENING REPORT FORM

PRELIMINARY SCREENER: Gwich'in Land and Water Board REFERENCE/FILE NUMBER: G12Q002 TITLE: Quarrying, KM 126 Dempster Hwy - Frog Creek PROPONENT: Charter Community of Tsiigehtchic	EIRB REFERENCE NUMBER:
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Type of Development:
(CHECK ALL THAT APPLY)

- | | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | New Development |
| <input type="checkbox"/> | Amend, EIRB Ref. # |
| <input type="checkbox"/> | Renew, EIRB Ref.# |
| <input checked="" type="checkbox"/> | Requires permit, license or authorization |
| <input type="checkbox"/> | Does not require permit, license or authorization |

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 checked="" type="checkbox"/> Quarry | <input type="checkbox"/> Camp |
| <input type="checkbox"/> Repair | <input type="checkbox"/> Linear / Corridor | <input type="checkbox"/> Scientific/Research |
| <input type="checkbox"/> Research | <input type="checkbox"/> Sewage | <input type="checkbox"/> Solid Waste |
| <input type="checkbox"/> Water Intake | | |
| <input type="checkbox"/> Other: | | |

Principal Development Components (related to scoping)

- | | |
|--|---|
| <input checked="" 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 checked="" type="checkbox"/> Automobile, Aircraft or Vessel Movement <ul style="list-style-type: none"> <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 checked="" type="checkbox"/> Drainage Alteration <input type="checkbox"/> Drilling other than Geoscientific <input type="checkbox"/> Ecological Surveys <input checked="" type="checkbox"/> Excavation <input type="checkbox"/> Explosive Storage <input type="checkbox"/> Fuel Storage <input checked="" type="checkbox"/> Topsoil, Overburden or Soil <ul style="list-style-type: none"> <input type="checkbox"/> fill <input checked="" type="checkbox"/> removal <input type="checkbox"/> disposal <input checked="" type="checkbox"/> storage | <input checked="" type="checkbox"/> Waste Management <ul style="list-style-type: none"> <input type="checkbox"/> disposal of hazardous waste <input checked="" 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 type="checkbox"/> Gravel <input type="checkbox"/> Hydrological Testing <input checked="" 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 checked="" 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
106M8

Latitude / Longitude and UTM System:
67.3594/-134.0589 to 67.3631/-134.0917

Nearest Community and Water Body:

Tsiigehtchic, Frog Creek

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

don't quarry below existing pit floor

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

upon completion of quarrying, contour work area, and leave with ditching to prevent pooling of water

IMPACT

MITIGATION

3. Noise

- noise in/near water
- noise increase
- other:
- N/A

temporary & localized to the Frog Creek quarry

IMPACT

MITIGATION

4. Land

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

quarry managed as per the Frog Creek pit management plan

upon completion of quarrying, contour work area

IMPACT

MITIGATION

5. Non Renewable Natural Resources

- resource depletion
- other:
- N/A

quarry managed as per the Frog Creek pit management plan

IMPACT

MITIGATION

6. Air/Climate/ Atmosphere

- other:
- N/A

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 (identify)
- behavioural changes (identify)
- habitat changes / effects
- game species effects
- toxins / heavy metals
- forestry changes
- agricultural changes
- other:
- N/A

INTERACTING ENVIRONMENT

MITIGATION

IMPACT

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

effects to historic property

increased economic pressure on historic properties

change to or loss of historic resources

immediately cease activity if historic specimen is encountered and contact GSCI and PWNHC

change to or loss of archaeological resources

immediately cease activity if archeological specimen is encountered and contact GSCI and PWNHC

increased pressure on archaeological sites

change to or loss of aesthetically important site

effects to aboriginal lifestyle

other:

N/A

NOTES:

Frog Creek is managed under a pit management plan. The permittee has obtained a Quarry Authorization from the Gwich'in Tribal Council (GTC) Lands and Resources department. Adherence to conditions, attached to this Authorization, is monitored by GTC Lands and Resources.

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

	RA or DRA	ADVICE	PERMIT REQUIRED
ENVIRONMENT CANADA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FISHERIES & OCEANS CANADA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ABORIGINAL AFFAIRS AND NORTHERN DEV. CANADA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NATIONAL ENERGY BOARD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NATURAL RESOURCES CANADA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PARKS CANADA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TRANSPORT CANADA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MACKENZIE VALLEY LAND AND WATER BOARD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MACKENZIE VALLEY ENVIRONMENTAL IMPACT REVIEW BOARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SAHTU LAND AND WATER BOARD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GNWT - ENVIRONMENT & NATURAL RESOURCES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
GNWT - HEALTH & SOCIAL SERVICES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GNWT - INDUSTRY, TOURISM & INVESTMENT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GNWT - MUNICIPAL AND COMMUNITY AFFAIRS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PRINCE OF WALES NORTHERN HERITAGE CENTRE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
EHDIIAT GWICH'IN COUNCIL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EHDIIAT RENEWABLE RESOURCE COUNCIL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GWICH'IN LAND AND WATER BOARD	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GWICH'IN LAND USE PLANNING BOARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
GWICH'IN RENEWABLE RESOURCE 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"/>
GWICH'IN TRIBAL COUNCIL / GLA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
GWICHYA GWICH'IN COUNCIL	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
GWICHYA GWICH'IN RENEWABLE RESOURCE COUNCIL	<input type="checkbox"/>	<input checked="" 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"/>
CHARTER COMMUNITY OF TSIIGEHTCHIC	<input type="checkbox"/>	<input checked="" 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"/>
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)

- The applicant has been authorized by GTC Lands and Resources to quarry 5000 m3 of pit run in a designated area of the Frog Creek pit .
- There is an existing pit management plan for Frog Creek.
- There has been no indication that there is public concern over this land use activity .
- There has been no indication by review organizations that significant adverse impacts are expected as a result of this land use operation.
- Conditions are attached to the land use permit to mitigate potential impacts.

<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 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>
<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

Paul Sullivan, Chair / April 16, 2012

Gwich'in Land and Water Board

