

PRELIMINARY SCREENING REPORT FORM

PRELIMINARY SCREENER REFERENCE / FILE NUMBER: G04Q006 TITLE: L.J.'s Contracting Km 126 Dempster Highway ORGANIZATION: Gwich'in Land and Water Board	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 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 checked="" type="checkbox"/> Construction | <input type="checkbox"/> Exploration | <input type="checkbox"/> Decommissioning |
| <input checked="" type="checkbox"/> Installation | <input type="checkbox"/> Industrial | <input type="checkbox"/> Abandonment |
| <input checked="" type="checkbox"/> Maintenance | <input type="checkbox"/> Recreation | <input type="checkbox"/> Aerial |
| <input type="checkbox"/> Expansion | <input type="checkbox"/> Municipal | <input type="checkbox"/> Harvesting |
| <input checked="" type="checkbox"/> Operation | <input type="checkbox"/> Quarry | <input type="checkbox"/> Camp |
| <input type="checkbox"/> Repair | <input checked="" 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: _____ | | |

Principal Development Components (related to scoping)

- | | |
|--|---|
| <input checked="" type="checkbox"/> Access Road <ul style="list-style-type: none"> <input checked="" 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 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 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 type="checkbox"/> storage | <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 type="checkbox"/> Gravel <input type="checkbox"/> Hydrological Testing <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Site Restoration <ul style="list-style-type: none"> <input type="checkbox"/> fertilization <input type="checkbox"/> grubbing <input checked="" type="checkbox"/> planting/seeding <input type="checkbox"/> reforestation <input type="checkbox"/> scarify <input type="checkbox"/> spraying 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: 106 M/4

NTS Map Sheet #s: 1:50,000

Latitude / Longitude and UTM System:

Nearest Community and Water Body:

Fort McPherson, Deep Water Lake

Land Status (*consultation information*):

Free Hold / Private Commissioner's 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

N/A

IMPACT

MITIGATION

4. Land

geologic structure changes

soil contamination

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 (DESCRIBE)

- 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

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
Federal			
ATOMIC ENERGY CONTROL BOARD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CANADIAN HERITAGE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CANADIAN TRANSPORTATION AGENCY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
INDUSTRY CANADA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NATIONAL DEFENSE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NATIONAL ENERGY BOARD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NATURAL RESOURCES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PUBLIC WORKS & GOVERNMENT SERVICES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TRANSPORT CANADA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Territorial			
MUNICIPAL & COMMUNITY AFFAIRS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PUBLIC WORKS & GOVERNMENT SERVICES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RESOURCES, WILDLIFE & ECONOMIC DEVELOPMENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TRANSPORTATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

HEALTH BOARD

Boards

GWICH'IN LAND & WATER BOARD
 SAHTU LAND & WATER BOARD
 MACKENZIE VALLEY LAND & WATER BOARD
 RENEWABLE RESOURCE BOARDS
 LOCAL HEALTH BOARD

Aboriginal / First Nation

Nitath Inuvik
 Fort McPherson
 Aklavik
 Tsiigehtchic
 ADJOINING LAND CLAIM

Communities

Inuvik
 Fort McPherson
 Aklavik
 Tsiigehtchic

REASONS FOR DECISION

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

- No concerns were received by affected First Nations
- Impacts to the environment will be minor and can be mitigated
- No concerns were received by responsible Ministers
- Operations will take place within the restrictions of the *MVLUR*

+	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"/> <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> <i>Proceed with regulatory process and/or implementation.</i>
<input type="checkbox"/> <input type="checkbox"/>	The development proposal might have public concern, <i>refer it to the EIRB.</i> <i>Proceed with regulatory process and/or implementation.</i>

Preliminary Screening Organization

Signatures

Gwich'in Land and Water Board _____

Staff Report on G04Q006

1. Introduction

The Land and Water Board's staff received a land use application July 29, 2004, proposing to conduct a quarry operation at km 126.0, Dempster Highway. This report is intended to be used as a decision making document when board members are considering issuing a land use permit for the operation.

2. Summary of Potential Impacts and Mitigation Measures

The first column "Potential Impacts" lists all impacts which may happen with this type of operation. Included in the column are the names of the review groups who were concerned about certain aspects of the operation. The next column lists mitigation measures which will eliminate or lessen the potential impacts. The third column lists the headings of the term or condition that will be used to draft the land use permit.

Quarry Operation, km 126.0, Dempster Hwy

Potential Impacts	Mitigation	Clause
Permafrost <ul style="list-style-type: none"> ➤ Possible disturbance to permafrost from burying waste material. ➤ Possible damage to the permafrost in the summer. 	<ul style="list-style-type: none"> ➤ Remove all waste material. ➤ Prevent Permittee from operating when rutting occurs. 	<ul style="list-style-type: none"> ➤ Remove Waste Material ➤ Prevention of Rutting
Lakes and Streams <ul style="list-style-type: none"> ➤ Potential blockage of natural drainage from parts of the operation. ➤ Potential disturbance to the water table. ➤ Potential contamination to waters from submerged trees and brush. 	<ul style="list-style-type: none"> ➤ Locate operation to prevent blockage. ➤ Do not quarry below the depth of the water table. ➤ Instruct Permittee to burn brush. 	<ul style="list-style-type: none"> ➤ Natural Drainage ➤ Quarry Depth ➤ Burn Brush
Soil and Vegetation <ul style="list-style-type: none"> ➤ Organic soil may be disposed of during clearing (used in restoration). ➤ Potential for erosion when vegetation is removed. 	<ul style="list-style-type: none"> ➤ Save organic soil stripped from areas in the pit. ➤ Permittee must install erosion control structures. 	<ul style="list-style-type: none"> ➤ Save Organic Soil ➤ Erosion Control

<p>Wildlife and Fish</p> <ul style="list-style-type: none"> ➤ Potential hazards to wildlife. ➤ Unnecessary damage to wildlife habitat. 	<ul style="list-style-type: none"> ➤ Remove all garbage and debris from the area of the land use operation. ➤ Instruct the Permittee to be careful when using machinery. 	<ul style="list-style-type: none"> ➤ Remove Garbage ➤ Habitat Damage
<p>Archaeological Sites and Monuments</p> <ul style="list-style-type: none"> ➤ No impacts expected 		
<p>Heritage Sites/Traditional Use Areas</p> <ul style="list-style-type: none"> ➤ No impacts expected 		
<p>Recreational/Aesthetic Areas</p> <ul style="list-style-type: none"> ➤ Potential unsightliness or erosion from not sloping side hill cuts or waste material in areas of public use. 	<ul style="list-style-type: none"> ➤ Instruct the Permittee to slope waste material excavations and embankments after use. 	<ul style="list-style-type: none"> ➤ Excavations and embankments ➤ Waste Material Piles. ➤ Clean work area
<p>Community Comments</p> <ul style="list-style-type: none"> ➤ No comments from communities. 		<p>Standard Clauses</p> <ul style="list-style-type: none"> ➤ Plans ➤ Contact GLWB Staff/Inspectors ➤ Expiry Date ➤ Reports Before Removal ➤ Clean Up ➤ Closure ➤ Only Approved Equipment ➤ Stripping of Overburden ➤ Restrictions ➤ Copy of Permit ➤ Identify Agent