

PRELIMINARY SCREENING REPORT FORM

<p>PRELIMINARY SCREENER: Gwich'in Land and Water Board REFERENCE / FILE NUMBER: GLWB - G02Q005 TITLE: Quarry Operation – Dempster Highway, km 251.2 ORGANIZATION: Arctic Tire (1980) Ltd. Date: Tuesday 23, 2002.</p>	<p>EIRB REFERENCE NUMBER:</p>
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- Type of Development:**
 (CHECK ALL THAT APPLY)
- | | |
|-------------------------------------|---|
| <input 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 checked="" 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/ |
| <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 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 |
| <input type="checkbox"/> Cutting of Trees or Removal of Vegetation | <input type="checkbox"/> Hydrological Testing |
| <input type="checkbox"/> Dams and Impoundments | <input checked="" type="checkbox"/> Site Restoration |
| <input type="checkbox"/> construction | <input type="checkbox"/> fertilization |
| <input type="checkbox"/> abandonment/removal | <input type="checkbox"/> grubbing |
| <input type="checkbox"/> modification | <input type="checkbox"/> planting/seeding |
| <input type="checkbox"/> Ditch Construction | <input type="checkbox"/> reforestation |
| <input type="checkbox"/> Drainage Alteration | <input type="checkbox"/> scarify |
| <input type="checkbox"/> Drilling other than Geoscientific | <input type="checkbox"/> spraying |
| <input type="checkbox"/> Ecological Surveys | <input checked="" type="checkbox"/> recontouring |
| <input checked="" type="checkbox"/> Excavation | <input type="checkbox"/> Slashing and removal of vegetation |
| <input type="checkbox"/> Explosive Storage | <input type="checkbox"/> Soil Testing |
| <input type="checkbox"/> Fuel Storage | <input type="checkbox"/> Stream Crossing/Bridging |
| <input checked="" type="checkbox"/> Topsoil, Overburden or Soil | <input type="checkbox"/> Tunneling/Underground |
| <input type="checkbox"/> fill | <input type="checkbox"/> Other (describe): |
| <input type="checkbox"/> disposal | |
| <input checked="" type="checkbox"/> removal | |
| <input checked="" type="checkbox"/> storage | |

NTS Topographic Map Sheet Numbers

(LIST ALL THAT APPLY)
 Aklavik, 107B – 1:250, 000 Scale
 107 B/7 – 1:50, 000 Scale

Latitude / Longitude and UTM System:

Quarry Location: Dempster Highway-Km 251.2, Coord: 68° 18' 09.7" N 133° 19' 31" W

Nearest Community and Water Body:

Inuvik, NT.
Campbell Lake

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

- Permittee will be instructed not to quarry below the depth of the water table, as their will be no actual quarrying going on.

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

- Will remove any obstructions to natural drainages.

- No water will be used in this operation.

IMPACT

3. Noise

noise in/near water

other: noise increase

N/A
IMPACT

4. Land

geologic structure changes

soil contamination

buffer zone loss

soil compaction & settling

Destabilization / erosion

permafrost regime alteration

other:

N/A

IMPACT

5. Non Renewable Natural Resources

resource depletion

other:

N/A

IMPACT

6. Air/Climate/ Atmosphere

Ice fog and emissions from generator

Burning of slash from clearing

MITIGATION

- Equipment outfitted with appropriate mufflers and standard emissions equipment.

MITIGATION

- Pit walls re-contoured after operation, should they require to blast rock out.

- Fuel will be hauled from Inuvik as needed.

- Any fuel contamination on the land will be reported to the 24 hour Spill Report line in Yellowknife.

- Absorbing pads will be on hand when fueling equipment.

- Permittee must install erosion control structures as needed.

MITIGATION

- Ongoing restoration of pit as granular resources becomes depleted (optional).

MITIGATION

**BIOLOGICAL ENVIRONMENT
IMPACT**

1. Vegetation

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

IMPACT

1. 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**

1. Habitat and Communities

MITIGATION

MITIGATION

- Peregrine falcons and other raptors nest in the Campbell hills area, as in the past, operators are required to shut down their blasting activities between May 15 and July 15 as per condition 2.4 "Shut Down Period" in the land use permit.

- Operations to be completed expeditiously to minimize impacts to resident wildlife.

- All spills to be reported to NWT 24-hour spill line.

MITIGATION

- 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

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

- affects to historic property
- increased economic pressure
on historic properties

MITIGATION

- The operator must take reasonable safe guards against damage to private property from the operation.

- Complete clean up of garbage, debris must be completed prior to completion of operation.

- Currently one other Contractor and the Department of Transportation have land use permits to work the quarry. Land Use Inspectors are required to designate areas in the quarry for them to work safely. Any new contractors in possession of a valid land use permit to work the quarry, will be instructed on where they could work, in the case of Arctic Tire their stockpile should have been a designated stockpile.

- No Public or Community Concerns.

MITIGATION

- 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:

- All garbage and debris will be removed from the area of the land use operation.
- Permittee will be instructed to slope all waste material piles and side hill cuts (embankments) after use.

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

	RA or DRA	ADVICE	PERMIT REQUIRED
<u>Federal</u>			
CANADIAN HERITAGE	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
NATIONAL ENERGY BOARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NATURAL RESOURCES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PUBLIC WORKS & GOVERNMENT SERVICES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COAST GUARD BASE (HAY RIVER)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NORTHERN OIL & GAS DIRECTORET	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Territorial</u>			
RESOURCES, WILDLIFE AND ECONOMIC DEVELOPMENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DEPARTMENT OF TRANSPORTATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MUNICIPAL AND COMMUNITY AFFIARS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
INUVIK REGIONAL HEALTH BOARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CANADIAN WILDLIFE SERVICE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PRINCE of WALES NORTHERN HERITAGE MUSEUM	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Public Boards</u>			
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"/>
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"/>
INUVALUIT ENVIRONMENTAL IMPACT SCREENING COMMITTEE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Aboriginal / First Nation</u>			
GWICH'IN LAND ADMINISTRATION (TRIBAL COUNCIL)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
GWICH'IN SOCIAL CULTURAL INSTITUTE (Tsiigeh)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Local Government</u>			
TOWN OF INUVIK	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Arctic Tires' application for a land use permit will not adversely harm the environment nor does it cause significant public concern. This development will take place in an area extensively used as a rock quarry since the creation of the Dempster Highway. Standard land use practices and methods will be utilized for operating in a pit. Projected environmental impacts and resource impacts relating to the quarry operation (hauling existing blast rock out of the quarry) will be localized in nature. Expansion of the quarry from its' current boundaries will in the future effect Gwich'in Private Lands. Land Use Inspectors will be required to designate areas in the quarry for each Permittee to work and stockpile their material.

<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

