

**PRELIMINARY SCREENING REPORT FORM**

<b>PRELIMINARY SCREENER:</b> Gwich'in Land and Water Board <b>REFERENCE / FILE NUMBER:</b> GLWB - G02J007  <b>TITLE:</b> Camp, Fuel Storage – Dempster Highway, Km 141  <b>ORGANIZATION:</b> Arctic Tire (1980) Ltd. <b>Date:</b> June 3, 2002.	<b>EIRB REFERENCE NUMBER:</b>
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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<br><input type="checkbox"/> Installation<br><input type="checkbox"/> Maintenance<br><input type="checkbox"/> Expansion<br><input type="checkbox"/> Operation<br><input type="checkbox"/> Repair<br><input type="checkbox"/> Research<br><input type="checkbox"/> Water Intake<br><input type="checkbox"/> Other: _____ | <input type="checkbox"/> Exploration<br><input type="checkbox"/> Industrial<br><input type="checkbox"/> Recreation<br><input type="checkbox"/> Municipal<br><input type="checkbox"/> Quarry<br><input type="checkbox"/> Linear / Corridor<br><br><input checked="" type="checkbox"/> Sewage | <input type="checkbox"/> Decommissioning<br><input type="checkbox"/> Abandonment<br><input type="checkbox"/> Aerial<br><input type="checkbox"/> Harvesting<br><input checked="" type="checkbox"/> Camp<br><input type="checkbox"/> Scientific/<br><br><input type="checkbox"/> Solid Waste |
|--|---|--|

**Principal Development Components (related to scoping)**

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

**NTS Topographic Map Sheet Numbers**  
(LIST ALL THAT APPLY)  
Arctic Red River, 106N – 1:250, 000 Scale  
106 N/12 – 1:50, 000 Scale

**Latitude / Longitude and UTM System:**

Quarry Location: Dempster Highway-Km 141, Coord: 67° 26' 24" N 133° 46' 44" W

**Nearest Community and Water Body:**

Tsiigehtchic, NT.  
Mackenzie, Arctic Red Rivers

**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

- Minimal water usage (does not require a water licence).
- Must remove any obstructions to natural drainages.

**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**

- A partially abandoned shale pit will be used as the location for the camp and fuel sloop.

- Fuel will be stored in six 500 gallon tanks contained in a double walled fuel sloop containment bin.
- 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**

**MITIGATION**

1. **Vegetation**

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

**IMPACT**

**MITIGATION**

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

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

**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**

**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

**MITIGATION**

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

- Grey water and sewage will be contained in a holding tank and trucked away to a sewage disposal facility when required.  
- Complete clean up of garbage, debris must be completed prior to completion of operation.

- Currently the Department of Transportation has a land use permit to work the quarry. Land Use Inspectors will be required to designate areas in the quarry for the camp and for them to work safely.

- No Public or Community Concerns that the Board's Technician knows of, as the application may not have been circulated (as per the Board's legislated responsibilities) to the one affected community of Tsiigehchic.

**MITIGATION**

- 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

- All garbage and debris will be removed from the area of the land use operation.

affects to aboriginal lifestyle

other:

N/A

**NOTES:**

The land use permit application (Type A) and associated maps (created in house) were distributed to Federal, Territorial, Municipal, government departments/agencies electronically on Tuesday May 28, 2002. The Board requested that comments be received before Friday May 31, 2002, at 5:00 PM. Maps created at the office of the Board and distributed along with the application located the proposed camp at Km 251.2 of the Dempster Highway; the camp is actually located at Km 141. A few government agencies expressed concerns that they are not given enough time to review the applications, as in the past their concerns are not being addressed (see attachment). A Board meeting has been scheduled for Monday, June 3, 2002, for possible permit consideration.

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

	RA or DRA	ADVICE	PERMIT REQUIRED
<b><u>Federal</u></b>			
CANADIAN HERITAGE	<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 checked="" type="checkbox"/>	<input 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"/>
<b><u>Territorial</u></b>			
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"/>
<b><u>Public Boards</u></b>			
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"/>
<b><u>Aboriginal / First Nation</u></b>			
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 type="checkbox"/>	<input type="checkbox"/>
GWICH' YA GWICH'IN RRC/DGO COUNCILS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b><u>Local Government</u></b>			
CHARTER COMMUNITY OF TSIIGEHTCHIC	<input type="checkbox"/>	<input 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 have a significant adverse impact on the environment. The camp and fuel storage site will be situated in an area extensively used as a shale quarry since the creation of the Dempster Highway. Standard land use practices and methods will be utilized for camp facilities and storing fuel. Projected environmental impacts and resource impacts relating to the use of the partially abandoned pit will be localized in nature. Land Use Inspectors will be required to designate an area in the pit for Arctic Tire to place their camp, as other permit holders will need to access the current working face of pit.

<input type="checkbox"/>	<b>PRELIMINARY SCREENING DECISION</b>
<input checked="" type="checkbox"/>	<b>Outside Local Government Boundaries</b>
<input checked="" 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 type="checkbox"/>	<b>Wholly within Local Government Boundaries</b>
<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

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