



GWICH'IN LAND AND WATER BOARD
Box 2018 Inuvik NT X0E 0T0
Ph 867-777-7960
Fx 867-777-7970
www.glwb.com

Land Use Permit

Permit Number: G 07 F 001

Permit Class: Type A

Subject to the Mackenzie Valley Resource Management Act, the Mackenzie Valley Land Use Regulations and the Conditions Annexed To and Forming Part of this Land Use Permit, the Gwich'in Land and Water Board (hereinafter referred to as the Board) hereby grants authority to:

D and E Contracting
Box 149
Aklavik NT X0E 0A0

To proceed with the land use operation described in the application of:

Applicant: Dave McLeod / Eddie Greenland
Type of Land Use Operation: Winter Road / Quarrying
Location of Land Use Operation: Willow River – 68 23 59 N 133 18 31 W
68 degrees 13 minutes North latitude
135 degrees 25 minutes West longitude
Date Permit Issued: Wednesday, January 24th, 2007
Start Date: Wednesday, January 24th, 2007
Expiration Date: Sunday, April 15th, 2007

It is a condition of this Land Use Permit that the Permittee comply with the Conditions Annexed To and Forming Part of this Land Use Permit, and with any and all other applicable Acts, Regulations, Ordinances, By-Laws or Orders. Default thereof may result in the suspension or cancellation of this permit.

This permit may be Amended, Renewed, Suspended or Cancelled pursuant to the Mackenzie Valley Land Use Regulations.

Signed and Issued in Inuvik in the Northwest Territories this 24th day of January 2007.

Willard Hagen
Chair
Gwich'in Land and Water Board

CONDITIONS ANNEXED TO AND FORMING PART OF LAND USE PERMIT – G07F001

PART A: SCOPE OF LAND USE PERMIT

Permittee: D and E Contracting
Address: Box 149
Community / Province / Territory: Aklavik NT X0E 0A0
Type of Land Use Operation: Winter Road / Quarrying
Location of Land Use Operation: Willow River – 68 23 59 N 133 18 31 W
Date Permit Issued: Wednesday, January 24th, 2007
Start Date: Wednesday, January 24th, 2007
Expiration Date: Sunday, April 15th, 2007

PART B: DEFINITIONS

"Act" means the Mackenzie Valley Resource Management Act.

"Board" means the Gwich'in Land and Water Board established under Part 3 of the Mackenzie Valley Resource Management Act.

"Land Use Inspector" means an Inspector designated by the Minister under the Mackenzie Valley Resource Management Act.

"Watercourse" means a natural body of flowing or standing water or an area occupied by water during part of the year, and includes streams, springs, swamps and gulches, but does not include groundwater.

PART C: CONDITIONS OF LAND USE PERMIT

1.0 26 (1) (a) – LOCATION AND AREA

- | | | |
|-----|---|------------------------------|
| 1.1 | The Permittee shall not conduct this land use operation on any lands not designated in the accepted application unless authorized in writing by a Land Use Inspector. | PLANS |
| 1.2 | The Permittee shall not conduct a quarry operation within one hundred (100) metres of the ordinary high water mark of any watercourse, unless otherwise authorized in writing by a Land Use Inspector. | LOCATION OF QUARRY OPERATION |
| 1.3 | The Permittee shall only excavate and stockpile in areas designated in the accepted application, unless otherwise authorized in writing by a Land Use Inspector. | EXCAVATE STOCKPILE |
| 1.4 | The Permittee shall not construct parallel lines or roads, unless otherwise authorized in writing by a Land Use Inspector. | PARALLEL ROADS |
| 1.5 | The Permittee shall locate all lines, trails, rights-of-way constructed parallel to streams a minimum of thirty (30) meters from any stream, except at crossings, unless otherwise authorized in writing by a Land Use Inspector. | PARALLELING STREAMS |
| 1.6 | The Permittee shall scout proposed lines and routes to select the best location for crossing streams and avoiding terrain obstacles prior to the movement of any vehicle that exerts pressure on the ground in excess of 35 Kpa. | DETOURS AND CROSSINGS |

2.0 26 (1) (b) – TIME

- | | | |
|-----|---|------------------------|
| 2.1 | The Permittee's Field Supervisor shall contact or meet with a Land Use Inspector at the Department of Indian Affairs and Northern Development in Inuvik (867-777-3361) at least forty-eight (48) hours prior to the commencement of this land use operation. | CONTACT INSPECTOR |
| 2.2 | The Permittee shall provide to the Land Use Inspector and the Board, in writing, at least forty-eight (48) hours prior to the commencement of this land use operation, the following:

(a) the person, or persons, in charge of the field operation to whom notices, orders, and reports may be served;

(b) alternates; and

(c) all methods for contacting the above person(s). | IDENTIFY AGENT |
| 2.3 | The Permittee shall advise the Land Use Inspector and the Board at least ten (10) days prior to the completion of this land use operation of their plan for removal or storage of equipment and materials; and when the final clean-up and restoration of the land used will be completed. | REPORTS BEFORE REMOVAL |
| 2.4 | The Board and/or the Land Use Inspector reserves the right to impose closure of any area to the Permittee during periods when dangers to natural resources are severe. | CLOSURE |
| 2.5 | The Permittee shall not conduct any overland movement of equipment and vehicles after 0800 hours local time on April 15 th unless otherwise authorized in writing by a Land Use Inspector. | SHUT-DOWN DATE |
| 2.6 | The Board, for the purpose of this land use operation, designates April 15 th as spring break-up. | SPRING BREAK-UP |
| 2.7 | The Permittee shall remove all ice bridges prior to spring break-up or the completion of this land use operation, unless otherwise authorized in writing by a Land Use Inspector. | REMOVE ICE BRIDGE |
| 2.8 | The Permittee shall remove or v-notch all snow fills from stream crossings prior to spring break-up or the completion of this land use operation, unless otherwise authorized in writing by a Land Use Inspector. | REMOVE SNOW FILLS |

3.0 26 (1) (c) – TYPE AND SIZE OF EQUIPMENT

- | | | |
|-----|--|-------------------------|
| 3.1 | The Permittee shall only use equipment designated in the accepted application, unless otherwise authorized in writing by a Land Use Inspector. | ONLY APPROVED EQUIPMENT |
| 3.2 | The Permittee shall ensure a garbage container is on site. | GARBAGE |

3.3	The Permittee shall equip bulldozer blades used in this land use operation with "mushroom" type shoes or a similar type of device that extends fifteen (15) centimetres below the cutting edge of the blade.	BULLDOZER BLADES AND SHOES
3.4	(a) The Permittee shall offset vehicle travel in areas without a snow covered surface. (b) The Permittee shall confine the line to a maximum width of ten (10) metres, unless otherwise authorized in writing by a Land Use Inspector.	OFFSET VEHICLE TRAVEL
4.0	26 (1) (d) – METHODS AND TECHNIQUES	
4.1	The Permittee shall not conduct vehicle travel in areas without snow-covered surfaces.	VEHICLE TRAVEL
4.2	The Permittee shall construct and maintain winter roads with a minimum of ten (10) centimetres of packed snow at all times during this land use operation. If this cannot be done, the Permittee shall construct Ice Roads in a manner authorized by a Land Use Inspector.	SNOW ROADS ICE ROADS
5.0	26 (1) (e) –TYPE, LOCATION, CAPACITY AND OPERATION OF FACILITIES	
5.1	The Permittee shall ensure that the land use area is kept clean and tidy at all times.	CLEAN WORK AREA
5.2	The Permittee shall adhere to all mitigation measures in the accepted application.	MITIGATION MEASURES
6.0	26 (1) (f) – CONTROL OR PREVENT PONDING, FLOODING, EROSION, SLIDES AND SUBSIDENCE OF LAND	
6.1	The Permittee shall slope the sides of excavations and embankments, except in solid rock, to a horizontal/ vertical ratio of 2: 1, unless otherwise authorized in writing by a Land Use Inspector.	EXCAVATIONS AND EMBANKMENTS
6.2	The Permittee shall slope the sides of waste material piles to a horizontal/ vertical ratio of 2: 1, unless otherwise authorized in writing by a Land Use Inspector.	WASTE MATERIAL PILES
6.3	The Permittee shall remove any obstruction to any natural drainage caused by any part of this land use operation.	NATURAL DRAINAGE
6.4	The Permittee shall minimize approach grades on all winter lake and/or stream crossings.	MINIMIZE APPROACH
6.5	The Permittee shall not use any material other than water in the construction of ice bridges.	ICE BRIDGE MATERIAL
6.6	The Permittee shall not use any material other than clean snow in the construction of snow fills.	SNOW FILLS
6.7	The Permittee shall not allow any ice bridge to hinder the flow of water in any watercourse.	ICE BRIDGE

6.8	The Permittee shall suspend overland travel of equipment or vehicles at the first sign of rutting.	SUSPEND TRAVEL
7.0 26 (1) (g) – USE, STORAGE, HANDLING AND ULTIMATE DISPOSAL OF CHEMICAL OR TOXIC MATERIAL		
7.1	The Permittee shall immediately report all spills to the 24 Hour Spill Report Line (867-920-8130) in accordance with instructions contained in the NWT SPILL REPORT form NWT1752/0202 (copy attached).	CHEMICAL AND PETROLEUM SPILLS
8.0 26 (1) (h) – PROTECTION OF WILDLIFE AND FISHERIES HABITAT		
8.1	The Permittee shall not unnecessarily damage wildlife habitat during the course of this land use operation.	HABITAT DAMAGE
8.2	The Permittee shall not feed or harass wildlife.	WILDLIFE
8.3	This land use operation is in an area where bears may be encountered. Proper food handling and garbage disposal procedures will lessen the likelihood of bears being attracted to your operation. Information about the latest bear detection and deterrent techniques can be obtained from Environment and Natural Resources in Inuvik at 867-777-7308.	BEAR/MAN CONFLICT
8.4	The Permittee shall not remove any vegetation or soil, or operate heavy equipment within one hundred (100) meters of any watercourse, unless otherwise authorized in writing by a Land Use Inspector.	HABITAT DAMAGE
8.5	The Permittee shall construct and maintain all structures placed in streams frequented by fish, in such a manner that will not obstruct passage of fish.	FREE FISH MOVEMENT
8.6	The Permittee shall not obstruct the movement of fish while conducting this land use operation.	FREE FISH MOVEMENT
8.7	The Permittee shall not destroy or damage beaver dams or beaver or muskrat lodges.	BEAVER MUSKRAT
8.8	The Permittee shall construct and maintain all water intakes in fish bearing waters using the Department of Fisheries and Ocean's recommended 2.54 mm fine mesh to prevent entrainment of fish. Other dimensions must follow DFO's Freshwater Intake End-of-Pipe Fish Screen Guidelines.	PREVENT ENTRAINMENT
8.9	The Permittee shall cease operations when caribou are in the immediate vicinity of any area where this land use operation is being conducted.	CARIBOU HARASSMENT
8.10	The Permittee shall not, during the migration of caribou, locate any operation so as to block or cause substantial diversion of the migration, and shall cease any activity that may interfere with the migration, such as airborne surveys or movement of equipment, until the migrating caribou have passed.	CARIBOU MIGRATION PROTECTION

9.0 26 (1) (i) – STORAGE. HANDLING AND DISPOSAL OF REFUSE OR SEWAGE

- | | | |
|-----|---|--|
| 9.1 | The Permittee shall keep all garbage and debris in a covered metal container on site until disposed of. | GARBAGE
CONTAINER |
| 9.2 | The Permittee shall remove from all lands used in this land use operation, all scrap metal, discarded machinery and parts, barrels and kegs, buildings and building material and deposit as specified in the accepted application, or as authorized in writing by a Land Use Inspector. | REMOVE
DEPOSIT
WASTE
MATERIAL |

10.0 26 (1) (j) – PROTECTION OF HISTORICAL AND ARCHAEOLOGICAL SITES AND BURIAL GROUNDS

- | | | |
|------|--|---|
| 10.1 | The Permittee shall not knowingly operate any vehicle within thirty (30) metres of a known or suspected historical or archaeological site or burial ground. | OPERATE
VEHICLE |
| 10.2 | The Permittee shall not knowingly remove, disturb or displace any known or suspected historical or archaeological site or specimen or burial ground. | REMOVE
DISTURB OR
DISPLACE |
| 10.3 | The Permittee shall immediately cease any activity that disturbs or displaces an historical or archaeological site or specimen or burial ground during the course of this land use operation and shall contact the Gwich'in Land and Water Board at 867-777-7960, or the Prince of Wales Northern Heritage Centre at 867-873-7688 or 867-920-6182 and shall not continue without authorization from the Board. | CEASE
ACTIVITY
AND
CONTACT
GLWB OR
PWNHC |

11.0 26 (1) (k) –PROTECTION OF OBJECTS AND PLACES OF RECREATIONAL, SCENIC OR ECOLOGICAL VALUE

This section intentionally left blank.

12.0 26 (1) (l) – POSTING OF SECURITY

This section intentionally left blank.

13.0 26 (1) (m) – FUEL STORAGE FACILITIES

- | | | |
|------|---|---------------------|
| 13.1 | The Permittee shall not allow petroleum products to spread to surrounding lands or into water bodies. | FUEL
CONTAINMENT |
| 13.2 | The Permittee shall ensure that spill kits are in place prior to commencement of operations. | SPILL
RESPONSE |

14.0 26 (1) (n) – METHODS AND TECHNIQUES FOR DEBRIS AND BRUSH DISPOSAL

- | | | |
|------|---|-------------------------|
| 14.1 | The Permittee shall complete total disposal of all debris and brush cleared prior to the expiration date of this Land Use Permit. | BRUSH
DISPOSAL |
| 14.2 | The Permittee shall progressively complete disposal of all debris and brush. | PROGRESSIVE
DISPOSAL |

15.0 26 (1) (o) – RESTORATION OF LANDS

- | | | |
|------|---|--------------------------------------|
| 15.1 | The Permittee shall save the organic soil stripped from the excavation area and place the organic soil over disturbed area prior to the completion of this land use operation or the expiration date of this Land Use Permit. | SAVE AND
PLACE
ORGANIC
SOIL |
| 15.2 | The Permittee shall, when clearing land, save all vegetation removed from the land use area; and place the vegetation over the land use area prior to the completion of this land use operation or the expiration date of this Land Use Permit. | SAVE
VEGETATION |
| 15.3 | The Permittee shall complete all clean-up and restoration of lands used in this land use operation prior to the expiration date of this Land Use Permit. | CLEAN-UP |
| 15.4 | Stripping of overburden must be authorized in writing by a Land Use Inspector prior to commencement of the quarrying operation. | STRIPPING OF
OVERBURDEN |
| 15.5 | The Permittee shall dispose of all overburden as instructed in writing by a Land Use Inspector. | DISPOSAL OF
OVERBURDEN |

16.0 26 (1) (p) – DISPLAY OF PERMITS AND PERMIT NUMBERS

- | | | |
|------|--|-------------------|
| 16.1 | The Permittee shall keep on hand, at all times during the course of this land use operation, a copy of this Land Use Permit. | COPY OF
PERMIT |
|------|--|-------------------|

17.0 26 (1) (q) – MATTERS NOT INCONSISTENT WITH THE REGULATIONS

This section intentionally left blank.