



**Mackenzie Valley Land and Water Board**

7th Floor - 4910 50th Avenue • P.O. Box 2130  
YELLOWKNIFE, NT X1A 2P6  
Phone (867) 669-0506 • FAX (867) 873-6610

December 5, 2008

File: MV2008C0020

Ms. Trish Merrithew-Mercredi  
Regional Director General  
Indian and Northern Affairs Canada  
PO Box 1500  
YELLOWKNIFE NT X1A 2R3

Fax: (867) 669-2703

Dear Ms. Merrithew-Mercredi:

**Aurora Resources Inc. – Wrigley Zinc Property – Mineral Exploration**

As per INAC's request dated November 6, 2008, the Mackenzie Valley Land and Water Board (the Board) met on December 4, 2008 to consider the preliminary screening associated with the above noted application. This preliminary screening and the draft Land Use Permit conditions are attached for your reference.

Since the determination of consultation on this file remains outstanding, the Board has determined that pursuant to Section 22.(2)(b) of the Mackenzie Valley Land Use Regulations, that further study still needs to be conducted for this Land Use Permit application. Specifically, the issue that requires further study is as follows:

- The MVLWB is seeking confirmation that the Government of Canada has undertaken appropriate consultation with the Pehdzeh Ki First Nation respecting the alleged infringements upon their Aboriginal and treaty rights.

When the Board receives confirmation from Indian and Northern Affairs Canada that Crown Consultation is adequate in relation to this proposed development, the Board will re-convene to re-consider the application. In the interim, the Board may still proceed with circulating draft Land Use Permit or Water License Terms and Conditions to reviewers for comment. This letter has been copied to Aurora Resources Inc. to notify them of the Board's decision.

Thank you for your attention to this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "F. Adlem".

Floyd Adlem  
A/Chair

Attachments

Copy: Tom Gerke, Aurora Resources Inc.  
Distribution List

**PRELIMINARY SCREENING REPORT FORM**

|  |                               |
|--|-------------------------------|
| <b>PRELIMINARY SCREENER:</b> MVLWB<br><b>REFERENCE / FILE NUMBER:</b> MV2008C0020<br><b>TITLE:</b> Mineral Exploration, Wrigley Zinc Property<br><b>ORGANIZATION:</b> Aurora Resources Inc.<br><b>MEETING DATE:</b> December 4, 2008 | <b>EIRB REFERENCE NUMBER:</b> |
|--|-------------------------------|

- Type of Development:**  
(CHECK ALL THAT APPLY)
- |                                     |   |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | New   |
| <input type="checkbox"/>            | Amend, EIRB Ref. #                                |
| <input checked="" type="checkbox"/> | Requires permit, license or authorization         |
| <input type="checkbox"/>            | Does not require permit, license or authorization |

**Project Summary**

Aurora Resources Inc. is proposing to conduct a mineral exploration program at their Wrigley Zinc property which is located 13 km west of Wrigley, NT. The coordinates of the project are: minimum latitude 63° 07'00" and maximum latitude: 63°10'00" by minimum longitude: 123°35'00"; maximum longitude: 123°40'00". Aurora Resources Inc. has applied for a Type A land use permit with a 5-year term. The program will include:

- the set up of a 24-man camp;
- domestic water intake from a nearby unnamed lake;
- the construction of an outhouse and graywater sump located outside the catchment area of the unnamed lake;
- the drilling of approximately 90 holes totalling approximately 20,000 meters of coring;
- the excavation of ~30 trenches 15-30 m in length, backfilling immediately after sampling;
- digging of temporary sumps for drilling water;
- the construction of 5 km of new access trails to the work sites;
- a total land use area of 9 hectares;
- re-contouring of the areas affected by machinery to approximate pre-existing topography;
- saving of any topsoil or organic horizon to spread on each site after re-contouring;
- on-site garbage incineration, and the removal of non-combustibles to the Fort Simpson landfill;
- bucking and scattering brush and tree waste, burning if necessary and by permit only; and
- re-seeding and fertilization areas where soil has been disturbed using mixes.

The following equipment will be used on site:

- 4 diamond drills (NQ/HQ, helicopter portable)
- 4 water supply pumps (low volume, high pressure, 1 inch hoses)
- 1 excavator
- 1 tracked bull-dozer or snow-cat
- 1-2 ATV's
- 1 or 2 pick-up trucks
- 1 helicopter (A-star)

The following fuel will be stored at the camp site:

- seventy 200-litre drums of diesel fuel (14,000 litres)
- five 200-litre drums of gasoline (1,000 litres)
- ten 200-litre drums of aviation fuel (2,000 litres)
- ten 100-lb tanks of propane (1,000 lbs)
- two 50lb welding tanks (100 lbs)

**Scope**

This permit entitles Aurora Resources Inc. to conduct the following activities:

- a) diamond drilling on the following Mineral Claims: T1, T2, T3;
- b) diamond drilling on the following Canada Mining Leases: 3168, 3169;
- c) the establishment of a camp able to support up to 24 people at 63°07'56"N, 123°37'23"W; and
- d) the storage of fuel to support land vehicles and aircraft.

All activities will take place within 63°07'00"N by 63°10'00"N and 123°35'00"W by 123°40'00"W.

Land Use Eligibility - Section 18(a)(i) of the Mackenzie Valley Land Use Regulations

| Type of Disposition                                      | Disposition Number(s) |
|--|-----------------------|
| <input checked="" type="checkbox"/> Mineral Claims       | T1, T2, T3            |
| <input type="checkbox"/> Prospecting Permit (s)          |                       |
| <input type="checkbox"/> Mineral Leases                  |                       |
| <input type="checkbox"/> Oil and Gas: EL/SDL/PL          |                       |
| <input type="checkbox"/> Quarry Permit                   |                       |
| <input type="checkbox"/> Timber Permit                   |                       |
| <input checked="" type="checkbox"/> Other: Mining Leases | 3168, 3169            |

**Principal Activities (related to scoping)**

(CHECK ALL THAT APPLY)

- Construction
  - Installation
  - Maintenance
  - Expansion
  - Operation
  - Repair
  - Research
  - Water Intake
  - Other:
- Exploration
  - Industrial
  - Recreation
  - Municipal
  - Quarry
  - Linear / Corridor
  - Sewage
- Decommissioning
  - Abandonment
  - Aerial
  - Harvesting
  - Camp
  - Scientific/
  - Solid Waste

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

- Access Road
  - construction
  - abandonment/removal
  - modification e.g., widening, straightening
- Automobile, Aircraft or Vessel Movement
- Blasting
- Building
- Burning
- Burying
- Channelling
- Cut and Fill
- Cutting of Trees or Removal of Vegetation
- Dams and Impoundments
  - construction
  - abandonment/removal
  - modification
- Ditch Construction
- Drainage Alteration
- Drilling other than Geoscientific
- Ecological Surveys
- Excavation
- Explosive Storage
- Fuel Storage
- Topsoil, Overburden or Soil
  - fill
  - disposal
  - removal
  - storage
- Waste Management
  - disposal of hazardous waste
  - waste generation
  - sewage
  - disposal of sewage
- Geoscientific Sampling
- Trenching
- Diamond drill
- Borehole core sampling
- Bulk soil sampling
  - gravel
  - hydrological Testing
- Site Restoration
  - fertilization
  - grubbing
  - planting/seeding
  - reforestation
  - scarify
  - spraying
  - recontouring
- Slashing and removal of vegetation
- Soil Testing
- Stream Crossing/Bridging
- Tunnelling/Underground
- Other:

**NTS Topographic Map Sheet Numbers**

95O/4

**Latitude / Longitude and UTM System:**

Minimum latitude 63°07'00" by Maximum latitude 63°10'00"  
Minimum longitude 123°35'00" by Maximum longitude 123°40'00"

**Nearest Community and Water Body:**

Wrigley, NT. (13km) and Wrigley River

**Land Status (consultation information)**

- Free Hold / Private
- Commissioners Land
- Federal Crown Land
- Municipal Land

**Transboundary/Transregional Implications**

- British Columbia
- Nunavut
- Wek'èezhii
- Alberta
- Wood Buffalo National Park
- Gwich'in
- Saskatchewan
- Inuvialuit Settlement Region
- Sahtu
- Yukon

**Type of Transboundary Implication:**  Impact / Effect  Development

Public Concern: \_\_\_\_\_  
(DESCRIBE)

**PHYSICAL - CHEMICAL EFFECTS**

**IMPACT**

**1) Ground Water**

**MITIGATION**

**LOCATION OF  
CONDITION**

- water table alteration
- water quality changes

The groundwater in the area may be impacted through drilling activities, and/or fuel contamination from the construction of the access road and camp. The containment of non-toxic drill wastes into sumps, the removal of any drill waste containing poisonous or persistent chemical additives to an approved disposal facility should mitigate impacts associated with the drilling activities. The following of fuel storage, handling, and spill protocols should mitigate the environmental risk associated with fuel/oil leaks or spills.

s.26(1)(a),(b),(d),  
(e),(f),(g),(i),(m),(o).

- infiltration changes
- other:
- N/A

**IMPACT**

**2) Surface Water**

**MITIGATION**

**LOCATION OF  
CONDITION**

- flow or level changes
- water quality changes

Environment Canada requested that water intake for camp and drilling activities should be withdrawn "from non-fish bearing waters, or from larger streams or lakes. Withdrawals from fish bearing waters should not result in any noticeable change in water level, or downstream flows". The proponent has agreed to this request.

The surface water in the area may be impacted through drilling activities, and/or fuel contamination from the construction of the access road and camp. The containment of non-toxic drill wastes into sumps, the removal of any drill waste containing poisonous or persistent chemical additives to an approved disposal facility should mitigate impacts associated with the drilling activities. The following of fuel storage, handling, and spill protocols should mitigate the environmental risk associated with fuel/oil leaks or spills.

s.26(1)(a),(b),(d),  
(e),(f),(g),(i),(m),(o).

- water quantity changes
- Drainage pattern changes
- temperature
- wetland changes / loss
- other:
- N/A

**IMPACT**

**3) Noise**

**MITIGATION**

**LOCATION OF  
CONDITION**

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

Increases in noise are associated with the construction of the access road and the drilling activities. This impact is reversible.

**IMPACT**

**4) Land**

**MITIGATION**

**LOCATION OF  
CONDITION**

- geologic structure changes
- soil contamination

The soils in the area may be contaminated through drilling activities, and/or fuel contamination from the construction of the access road and camp. The containment of non-toxic drill wastes into sumps, the removal of any drill waste containing poisonous or persistent chemical additives to an approved disposal facility should mitigate impacts associated with the drilling activities. The following of fuel storage, handling, and spill protocols should mitigate the environmental risk associated with fuel/oil leaks or spills.

s.26(1)(a),(b),(d),(e),(f),  
(g),(i),(m),(o).

- buffer zone loss

- |  |  |             |
|--|--|-------------|
| <input checked="" type="checkbox"/> soil compaction & settling | Access trail construction may create rutting conditions. The suspension of overland travel at the first signs of rutting mitigates this impact.  | s. 26(1)(f) |
| <input checked="" type="checkbox"/> destabilization / erosion  | Access trail construction may create potential erosion situations. Mitigation measures include the progressive erosion control conditions and the prohibition of fording of wet streams. | s. 26(1)(f) |
| <input type="checkbox"/> permafrost regime alteration          |  |             |
| <input type="checkbox"/> explosives/scarring                   |  |             |
| <input type="checkbox"/> other:                                |  |             |
| <input type="checkbox"/> N/A                                   |  |             |

|   |                   |                              |
|---|-------------------|------------------------------|
| <b>IMPACT</b>                             | <b>MITIGATION</b> | <b>LOCATION OF CONDITION</b> |
| <b>5) Non Renewable Natural Resources</b> |                   |                              |

- resource depletion
- other:
- N/A

|                                   |                   |                              |
|-----------------------------------|-------------------|------------------------------|
| <b>IMPACT</b>                     | <b>MITIGATION</b> | <b>LOCATION OF CONDITION</b> |
| <b>6) Air/Climate/ Atmosphere</b> |                   |                              |

- other:
 

There will be localized emissions from the equipment usage associated with the operation of light and heavy equipment. This impact is expected to be short term and reversible. No mitigation.
- N/A

**BIOLOGICAL ENVIRONMENT**

|                      |                   |                              |
|----------------------|-------------------|------------------------------|
| <b>IMPACT</b>        | <b>MITIGATION</b> | <b>LOCATION OF CONDITION</b> |
| <b>1) Vegetation</b> |                   |                              |

- species composition
- species introduction
- toxin / heavy accumulation
- other: Removal
 

There may be some removal of trees during this project to allow for access trail construction, helicopter landing areas, camp construction, and drill site preparation. No mitigation.
- N/A

|                               |                   |                              |
|-------------------------------|-------------------|------------------------------|
| <b>IMPACT</b>                 | <b>MITIGATION</b> | <b>LOCATION OF CONDITION</b> |
| <b>2) Wildlife &amp; Fish</b> |                   |                              |

- effects on rare, threatened or endangered species
 

There is a potential for disturbance and attraction of Species at risk through this land use permit operation. Species at Risk are: Woodland Caribou (Boreal population); Peregrine Falcon (*anatum-tundrius* complex2); Olive-sided Flycatcher; Common Nighthawk; Wolverine (Western Population); Grizzly Bear; Rusty Blackbird; Short-eared Owl. Mitigation includes handling of waste/garbage.
- fish population changes
- waterfowl population changes
- breeding disturbance
- population reduction
- species diversity change
- health changes
- behavioural changes
 

Woodland Caribou and/or other wildlife may avoid or be attracted to the area due to construction and drilling activity. Mitigation includes handling of waste/garbage.

habitat changes / effects

Environment Canada requested that water intake for camp and drilling activities should be withdrawn "from non-fish bearing waters, or from larger streams or lakes. Withdrawals from fish bearing waters should not result in any noticeable change in water level, or downstream flows". The proponent has agreed to this request.

game species effects

toxins / heavy metals

forestry changes

There may be some removal of trees during this project to allow for access trail construction, helicopter landing areas, camp construction, and drill site preparation. No mitigation.

agricultural changes

other:

N/A

**INTERACTING ENVIRONMENT**

**IMPACT**

**1) Habitat and Communities**

**MITIGATION**

**LOCATION OF  
CONDITION**

predator-prey

Environment Canada states that "Camp waste can attract predators of migratory birds (e.g., foxes and ravens) to an area if not disposed of properly. Mitigated through land use permit conditions.

s.26(1)(c),(i)

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**

**MITIGATION**

**LOCATION OF  
CONDITION**

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:

PKFN has voiced concern regarding the absence of an Impacts and Benefits Agreement between the proponents and themselves. This impact

cannot be mitigated within the jurisdiction of the Mackenzie Valley Land and Water Board.

N/A

**IMPACT**

3) **Cultural and Heritage**

**MITIGATION**

**LOCATION OF  
CONDITION**

- effects 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
- effects to aboriginal lifestyle
- other:
- N/A

The Prince of Wales Northern Heritage Center states that there is a potential for the activities associated with this land use permit to impact unrecorded archaeological resources. The integrity and protection of any potential archaeological deposits are mitigated through LUP conditions.

s. 26(1)(j)

**NOTES:**

**Consultation**

- Pursuant to Section 27 Subsections (a) and (b) of the **Deh Cho First Nations (DCFN)** Interim Measures Agreement, the MVLWB determined that written notice was given to the DCFN and that a reasonable period of time was allowed for DCFN to make representations with respect to the application.
- Pursuant to Schedule 4.1 of the **Northwest Territory Métis Nation (NWTMN)** Interim Measures Agreement, the MVLWB determined that written notice was given to the NWTMN and that a reasonable period of time was allowed for NWTMN to make representations with respect to the application.

**PRELIMINARY SCREENER / REFERRING BODY INFORMATION**

**Original DISTRIBUTION LIST by Fax**

**DEHCHO REGION**

**FIRST NATIONS**

|                                   |   |    |                          |
|-----------------------------------|---|----|--------------------------|
| Chief                             | TthedzehK'edeli First Nation (JMR)      |    | 867-809-2002 or 809-2071 |
| Chief Darcy E. Moses              | Pehdzeh Ki First Nation (Wrigley)       | 23 | 867-581-3229             |
| Chief Keyna Norwegian             | Liidlil Kue First Nation (Ft Simpson)   | 25 | 867-695-2665             |
| Interim Grand Chief Jerry Antoine | Deh Cho First Nations                   | 35 | 867-695-2038             |
| Chief Fred Tesou                  | Nahanni Butte First Nation              | 36 | 867-602-2910             |
| Chief Steven Kotchea              | Acho Dene Koe First Nation (Fort Liard) | 37 | 867-770-4144             |
| Chief Dolphus Jumbo               | Sambaa K'e Dene Band (Trout Lake)       | 38 | 867-206-2828             |
| President Vern Jones              | Northwest Territory Métis Nation        | 45 | 867-872-2772             |

**COMMUNITIES**

|                     |                         |    |              |
|---------------------|-------------------------|----|--------------|
| Mayor Duncan Canvin | Village of Fort Simpson | 17 | 867-695-2005 |
| Mayor Morris McLeod | Hamlet of Fort Liard    | 39 | 867-770-4004 |

**ABORIGINAL ORGANIZATIONS**

|                          |  |    |              |
|--------------------------|--|----|--------------|
| President Marie Lafferty | Fort Simpson Métis Local #52           |    | 867-695-2040 |
| Camilla Zoe-Chocolate    | Dene Nation                            | 40 | 920-2254     |
| Michael Nadli            | Deh Cho Land Use Planning Committee    | 41 | 867-699-3166 |
| President Ernie McLeod   | Fort Liard Métis Local #67             | 42 | 867-770-3266 |
| Frank Kotchea            | Nahendeh Land & Environmental Services | 43 | 867-770-4573 |

**GOVERNMENT**

|                  |   |    |  |
|------------------|---|----|--|
| Lorraine Seale   | Environment and Conservation - INAC       |    | 669-2701                               |
| Darnell McCurdy  | South Mackenzie District Office           | 57 | 669-2720                               |
| Angela Norris    | Mineral & Petroleum Resources Directorate | 59 | 669-2705                               |
| Julie Jackson    | Policy & Planning Directorate – INAC      |    | 669-2736                               |
| Janice Murphy    | Intergovernmental Affairs – INAC          |    | MurphyJ@inac-ainc.gc.ca                |
| Tom Andrews      | GNWT - PWNHC                              | 60 | 873-0205                               |
| Glen Mackay      | GNWT – PWNHC                              | 60 | 873-0205                               |
| Dave Jones       | GNWT - MACA                               | 62 | 920-6156                               |
| Gavin More       | GNWT - ENR                                |    | Gavin_more@gov.nt.ca<br>873-4021       |
| Rhonda Batchelor | GNWT - DOT                                |    | Rhonda_Batchleor@gov.nt.ca<br>920-2565 |
| Duane Fleming    | GNWT - Health                             | 65 | 669-7517                               |
| Kris Johnson     | GNWT – ITI                                |    | 873-0645                               |
| Josephine Simms  | WCB                                       | 67 | 873-4596                               |
| Mike Fournier    | Environment Canada                        | 66 | 873-8185                               |
|                  | DFO                                       | 68 | 669-4940                               |

**OTHERS**

|   |                                      |    |                                       |
|---|--------------------------------------|----|---------------------------------------|
| <i>Mandell Pinder, Barrister &amp; Solicitors</i> | <i>(Ka'a'gee Tu First Nation)</i>    |    | 604-681-0959                          |
| Alan Harris                                       | Beaver Enterprises Ltd. Partnership  | 43 | 867-770-4573                          |
| Rick Phanuef                                      | Dev. Corp Mgr Sambaa K'e(Trout Lake) | 44 | 867-874-4505                          |
| Peter Redvers                                     | Research Cons. Sambaa K'e            |    | 867-920-4540<br>predvers@ssimicro.com |
|   | Nahanni National Park Reserve        | 46 | 867-695-2446                          |
| Katherine Cumming                                 | Parks Canada                         | 47 | 204-983-0031                          |
| Administration                                    | CPAWS                                |    | nwtadmin@cpaws.org                    |
| Vern Christensen                                  | MVEIRB                               | 50 | 766-7074                              |



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

**DECISION:**

The Mackenzie Valley Land and Water Board (The Board) is satisfied that the preliminary screening of application MV2008C0020, Aurora Resources Inc., Mineral Exploration has been completed in accordance with Section 125 of the *Mackenzie Valley Resource Management Act*.

The Board is satisfied that a reasonable period of notice was given to Communities and First Nations affected by the application as required by Subsection 63(2) of the *MVRMA* so that they could provide comments to the Board.

Having reviewed all relevant evidence on the Public Registry, including the submissions of the Applicant, the written comments received by the Board and any staff reports prepared for the Board, the Board has decided that in its opinion that:

- there is no likelihood that the proposed development might have a significant adverse impact on the environment; and
- there is no likelihood that the proposed development might be a cause of public concern.

The Board is also of the opinion that the application can proceed through the regulatory process and that any impacts of the development on the environment can be mitigated through the imposition of the terms and conditions in the attached Land Use Permit.

As a result, the Board, having due regard to the facts and circumstances, the merits of the submissions made to it, and to the purpose, scope and intent of the *Mackenzie Valley Resource Management Act* and the Mackenzie Valley Land Use Regulations has decided that this Land Use Permit be issued subject to the terms and conditions contained therein.

| PRELIMINARY SCREENING DECISION      |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <b>Outside Local Government Boundaries</b>   |
| <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"/>            | <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**

Mackenzie Valley Land and Water Board

December 4, 2008

**Signatures**





**CONDITIONS ANNEXED TO AND FORMING PART  
OF LAND USE PERMIT NUMBER MV2008C0020**

**Part A: Scope of Permit**

1. This permit entitles Aurora Resources Inc. to conduct the following activities:
  - a. diamond drilling on following Mineral Claims: T1, T2, T3;
  - b. diamond drilling on the following Canada Mining Leases: 3168, 3169;
  - c. the establishment of a camp able to support up to 24 people at 63°07'56"N, 123°37'23"W; and
  - d. the storage of fuel to support land vehicles and aircraft.

All activities will take place within 63°07'00"N by 63°10'00"N and 123°35'00"W by 123°40'00"W.

2. The Permit is issued subject to the conditions contained herein with respect to the use of land for the activities and area identified in Part A, Item 1 of this Permit.
3. Compliance with the terms and conditions of this permit does not absolve the Permittee from responsibility for compliance with the requirements of all applicable Federal, Territorial and Municipal legislation.

**Part B: Definitions**

**“Act”** means the *Mackenzie Valley Resource Management Act*;

**“Artesian Aquifer”** means a water-bearing stratum, which when encountered during drilling operations, produces a pressurized flow of groundwater that reaches an elevation above the ground surface;

**“Board”** means the Mackenzie Valley Land and Water Board established under Part 4 of the *Mackenzie Valley Resource Management Act*;

**“Dogleg”** means clearing a line, trail or right-of-way that is curved sufficiently so that no part of the clearing beyond the curve is visible when approached from either direction;

**“Drill Waste”** means all materials or chemicals, solid or liquid, associated with the drilling of boreholes and includes borehole cuttings;

**“Inspector”** means an Inspector designated by the Minister under the *Mackenzie Valley Resource Management Act*;

**“Oil Based Drilling Muds”** means drilling fluids, which use naturally occurring solutions or refined hydrocarbons as a carrier fluid;

**“Permeability”** means the capacity to transmit water through a medium;

“Sewage” means all toilet wastes and grey water;

“Sewage Disposal Facilities” means sump(s) and/or sewage collection tank(s) designed to hold sewage;

“Sump” means a man-made pit, trench hollow or cavity in the earth's surface used for the purpose of depositing waste material therein;

**Part C: Conditions Applying to All Activities (the headings correspond to Subsection 26 of the Mackenzie Valley Land Use Regulations)**

**26(1)(a) LOCATION AND AREA**

- |    |  |                                  |
|----|--|----------------------------------|
| 1. | The Permittee shall not conduct this land use operation on any lands not designated in the accepted application.   | PLANS                            |
| 2. | The Permittee shall not conduct any part of the land use operation within three hundred (300) metres of any privately owned or leased land or structure.   | PRIVATE PROPERTY                 |
| 3. | The Permittee shall not construct an adit or drill site within one hundred (100) metres of the ordinary high water mark of a water body, unless approval in writing is obtained from the Board.  | LOCATION OF ADITS AND DRILLSITES |
| 4. | The Permittee shall locate all camps on gravel, sand or other durable land.  | CAMP LOCATION                    |
| 5. | When the Permittee is drilling within one hundred (100) metres of the ordinary high water mark of a water body, they must employ a recirculating drill and ensure that cuttings do not enter any water body.                                   | LOCATION OF DRILLSITES           |
| 6. | The Permittee shall locate all lines, trails and rights-of-way to be constructed parallel to water bodies a minimum of one hundred (100) metres from the ordinary high water mark except at crossings, unless otherwise approved by the Board. | PARALLELING STREAMS              |
| 7. | Prior to the commencement of diamond drilling the Permittee shall submit to the Inspector and the Board, proposed drill targets on a 1:50,000-scale map.   | DRILL LOCATIONS                  |

**26(1)(b) TIME**

- |    |   |                          |
|----|---|--------------------------|
| 8. | The Permittee's Field Supervisor shall contact an Inspector at (867) 695-2626 at least forty-eight (48) hours prior to the commencement of this land use operation. | CONTACT INSPECTOR/ BOARD |
|----|---|--------------------------|

- |  |   |                               |
|--|---|-------------------------------|
| 9.   | The Permittee shall advise an Inspector at least ten (10) days prior to the completion of the land use operation of (a) the plan for removal or storage of equipment and materials, and (b) when final clean-up and restoration of the land used will be completed.   | REPORTS<br>BEFORE<br>REMOVAL  |
| 10.  | The Permittee shall provide in writing to the Board and Inspector, at least forty-eight (48) hours prior to commencement of this land use operation, the following information:<br>(a) person, or persons, in charge of the field operation to whom notices, orders, and reports may be served;<br>(b) alternates; and<br>(c) all methods for contacting the above person(s). | IDENTIFY<br>AGENT             |
| 11.  | The Permittee shall notify an Inspector at least ten (10) days prior to backfilling any sump.   | BACKFILLING<br>NOTIFICATION   |
| 12.  | The Board, for the purpose of this operation, designates March 31 as spring break-up, or as otherwise approved by an Inspector.   | SPRING<br>BREAK-UP            |
| 13.  | The Permittee shall remove all ice bridges prior to spring break-up or completion of the land use operation.  | REMOVE ICE<br>BRIDGE          |
| 14.  | The Permittee shall remove all snow fills from stream crossings prior to spring break-up or completion of the land use operation unless otherwise approved in writing by an Inspector.  | REMOVE SNOW<br>FILLS          |
| 15.  | The Board and/or Inspector reserve the right to impose closure of any area to the Permittee in periods when dangers to natural resources are severe.  | CLOSURE                       |
| <b>26(1)(c) TYPE AND SIZE OF EQUIPMENT</b> |   |                               |
| 16.  | The Permittee shall not use any equipment except of the type, size, and number that is listed in the accepted application.  | ONLY<br>APPROVED<br>EQUIPMENT |
| 17.  | The Permittee shall ensure a garbage container is on site.  | GARBAGE                       |
| <b>26(1)(d) METHODS AND TECHNIQUES</b>     |   |                               |
| 18.  | The Permittee shall construct and maintain winter roads with a minimum of ten (10) centimetres packed snow at all times during this land use operation. If this cannot be done, then the Permittee shall construct <u>Ice Roads</u> in a manner authorized by an Inspector.   | SNOW ROADS/<br>ICE ROADS      |
| 19.  | The Permittee shall dogleg lines, trails and rights-of-way that approach lakes, streams or public roads.  | DOGLEG<br>APPROACHES          |
| 20.  | The Permittee shall plug all boreholes as the land use operation progresses.  | PLUG HOLES                    |

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| 21.   | The Permittee shall replace all excavated material from the test pits prior to the expiry of this Permit.   | TEST PITS                                  |
| 22.   | The Permittee shall not store material other than that required for immediate use on the ice surface of water bodies.   | STORAGE ON<br>ICE                          |
| 23.   | The Permittee shall remove or cut off and seal all drill casings at ground level immediately upon completion of drilling.   | REMOVAL AND<br>SEALING OF<br>DRILL CASINGS |
| <b>26(1)(e) TYPE, LOCATION, CAPACITY AND OPERATION OF ALL FACILITIES</b>                                    |   |  |
| 24.   | The Permittee shall not locate any sump within one hundred (100) metres of the ordinary high water mark of any water body, unless otherwise authorized in writing by an Inspector.  | SUMPS FROM<br>WATER                        |
| 25.   | The Permittee shall ensure that the land use area is kept clean at all times.   | CLEAN WORK<br>AREA                         |
| <b>26(1)(f) CONTROL OR PREVENTION OF PONDING OF WATER, FLOODING, EROSION, SLIDES AND SUBSIDENCE OF LAND</b> |   |  |
| 26.   | <ul style="list-style-type: none"> <li>(a) The Permittee shall, where flowing water from bore holes is encountered, plug the bore hole in such a manner as to permanently prevent any further outflow of water; and</li> <li>(b) the artesian occurrence shall be reported to the Inspector immediately.</li> </ul> | PLUG ARTESIAN<br>WELLS                     |
| 27.   | The Permittee shall slope the sides of excavations and embankments except in solid rock to a horizontal/vertical ratio of two (2) horizontal to one (1) vertical.   | EXCAVATIONS<br>AND<br>EMBANKMENTS          |
| 28.   | The Permittee shall minimize approach grades on all winter lake and/or stream crossings.  | MINIMIZE<br>APPROACH                       |
| 29.   | The land use operation shall not cause obstruction to any natural drainage.   | NATURAL<br>DRAINAGE                        |
| 30.   | The Permittee shall not cut any stream bank.  | STREAM BANKS                               |
| 31.   | The Permittee shall not use any material other than water in the construction of ice bridges.   | ICE BRIDGE<br>MATERIALS                    |
| 32.   | The Permittee shall not use any material other than snow in the construction of snow fills.   | SNOW FILLS                                 |
| 33.   | The Permittee shall not allow any ice bridge to hinder the flow of water.   | ICE BRIDGE                                 |

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| 34. | The Permittee shall not ford wet streams.   | NO FORDING OF<br>STREAMS          |
| 35. | The Permittee shall install erosion control structures as the land use operation progresses.  | PROGRESSIVE<br>EROSION<br>CONTROL |
| 36. | The Permittee shall suspend overland travel of equipment or vehicles at the first sign of rutting.  | SUSPEND<br>OVERLAND<br>TRAVEL     |
| 37. | The Permittee shall slope the sides of waste material piles to a horizontal/vertical ratio of two (2) horizontal to one (1) vertical unless otherwise authorized in writing by and Inspector. | WASTE<br>MATERIAL PILES           |

**26(1)(g) USE, STORAGE, HANDLING AND ULTIMATE DISPOSAL OF ANY CHEMICAL OR TOXIC MATERIAL**

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|-----|--|---|
| 38. | The Permittee shall not use chemicals in connection with the land use operation that were not identified in the accepted application.  | APPROVAL OF<br>CHEMICALS                      |
| 39. | The Permittee shall remove all drill waste containing poisonous or persistent chemical additives to an approved disposal facility.   | DRILL WASTE<br>DISPOSAL                       |
| 40. | The Permittee shall deposit all non-toxic drill waste into a sump.   | DRILL WASTE                                   |
| 41. | The Permittee shall report all spills immediately to the 24 hour Spill Report Line (867) 920-8130, which is in accordance with instructions contained in "Spill Report" form N.W.T. 1752/0593. | REPORT<br>CHEMICAL AND<br>PETROLEUM<br>SPILLS |

**26(1)(h) WILDLIFE AND FISHERIES HABITAT**

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|-----|---|------------------------|
| 42. | The Permittee shall construct and maintain the water intake using the DFO recommended 2.54 mm fine mesh size to prevent entrainment of fish. Other dimensions must follow DFO's <i>Freshwater Intake End-of-Pipe Fish Screen Guidelines</i> . | PREVENT<br>ENTRAINMENT |
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**26(1)(i) STORAGE, HANDLING AND DISPOSAL OF REFUSE OR SEWAGE**

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|-----|---|--------------------|
| 43. | The Permittee shall dispose of all sewage and grey water as proposed in the accepted application.   | SEWAGE<br>DISPOSAL |
| 44. | The Permittee shall remove all non-combustible garbage and debris, including plastics from the land use area to a disposal site as specified in the accepted application. | REMOVE<br>GARBAGE  |
| 45. | The Permittee shall incinerate all combustible garbage and debris, except plastics.   | INCINERATION       |

