



Mackenzie Valley Land and Water Board
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YELLOWKNIFE, NT X1A 2P6
Phone (867) 669-0506 • FAX (867) 873-6610

June 30, 2003

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MACKENZIE VALLEY
ENVIRONMENTAL IMPACT
REVIEW BOARD

File: MV2003C0023

Mr. Robert T. Paterson
Snowfield Development Corporation
100-1009 Expo Boulevard
VANCOUVER, BC V6Z 2V9

Fax (604) 681-6937

Dear Mr. Paterson:

**Snowfield Development Corporation, MV2003C0023 Referred
Diamond Exploration, Drybones Bay Area**

This Mackenzie Valley Land and Water Board (MVLWB) met on June 26, 2003 to deal with the aforementioned application. The decision was made to refer the application to the Mackenzie Valley Environmental Impact Review Board (MVEIRB) for an environmental assessment pursuant to Subsection 125(1) of the *Mackenzie Valley Resource Management Act*. The reasons for decision and the preliminary screening report are attached for your information.

If you have any questions, contact Latisha Heilman, Regulatory Officer at (867) 669-0506 or email mvlwbpermit@mvlwb.com.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Melody J. McLeod".

Melody J. McLeod
Chair

Copies to: Vern Christensen, Mackenzie Valley Environmental Impact Review Board
Ed Hornby, South Mackenzie District, DIAND, Yellowknife
Latisha Heilman, MVLWB

Attachment

PRELIMINARY SCREENING REPORT FORM

PRELIMINARY SCREENER: MVLWB REFERENCE / FILE NUMBER: MV2003C0023 TITLE: Mineral exploration, Drybones Bay ORGANIZATION: Snowfield Development Corp MEETING DATE: June 26, 2003	EIRB REFERENCE NUMBER:
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- 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/Scope

Summary of Operation

- The scope of this Land Use Permit covers geochemical till sampling and ground geophysics, drill holes from 100 – 200m deep, and bulk sampling.
- The proposed camp will accommodate up to 20 people, or have the capacity to expand to this size, Fuel storage will include up to 205 L of diesel fuel, 205 L of jet fuel, 205 L of gasoline, and 100 lbs of propane

Principal Activities (related to scoping)

(CHECK ALL THAT APPLY)

- | | | |
|---|--|--|
| <input checked="" type="checkbox"/> Construction
<input type="checkbox"/> Installation
<input type="checkbox"/> Maintenance
<input type="checkbox"/> Expansion
<input checked="" type="checkbox"/> Operation
<input type="checkbox"/> Repair
<input type="checkbox"/> Research
<input checked="" type="checkbox"/> Water Intake
<input type="checkbox"/> Other: | <input checked="" type="checkbox"/> Exploration
<input type="checkbox"/> Industrial
<input type="checkbox"/> Recreation
<input type="checkbox"/> Municipal
<input type="checkbox"/> Quarry
<input type="checkbox"/> Linear / Corridor

<input checked="" type="checkbox"/> Sewage | <input type="checkbox"/> Decommissioning
<input type="checkbox"/> Abandonment
<input type="checkbox"/> Aerial
<input type="checkbox"/> Harvesting
<input checked="" type="checkbox"/> Camp
<input checked="" type="checkbox"/> Scientific/

<input checked="" type="checkbox"/> Solid Waste |
|---|--|--|

Principal Development Components (related to scoping)

- | | |
|---|---|
| <input checked="" type="checkbox"/> Access Road
<input checked="" type="checkbox"/> construction
<input checked="" type="checkbox"/> abandonment/removal
<input type="checkbox"/> modification e.g., widening, straightening
<input checked="" type="checkbox"/> Automobile, Aircraft or Vessel Movement
<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 checked="" 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 checked="" type="checkbox"/> storage | <input checked="" type="checkbox"/> Waste Management <ul style="list-style-type: none"> <input type="checkbox"/> disposal of hazardous waste <input checked="" type="checkbox"/> waste generation <input checked="" type="checkbox"/> Sewage <input checked="" type="checkbox"/> disposal of sewage <input checked="" type="checkbox"/> Geoscientific Sampling
<input type="checkbox"/> trenching
<input checked="" type="checkbox"/> diamond drill
<input checked="" type="checkbox"/> borehole core sampling
<input type="checkbox"/> bulk soil sampling
<input type="checkbox"/> Gravel
<input type="checkbox"/> Hydrological Testing
<input checked="" type="checkbox"/> Site Restoration <ul style="list-style-type: none"> <input checked="" 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 <input type="checkbox"/> 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
85-I-4

Latitude / Longitude and UTM System:

Minimum latitude: 62°03'N	Maximum latitude: 62°12'N
Minimum longitude: 113°30'W	Maximum longitude: 113°55'W

Nearest Community and Water Body:
Yellowknife, Great Slave Lake

Land Status (consultation information)

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

Transboundary Implications

- British Columbia Alberta Saskatchewan Yukon
 Nunavut Wood Buffalo National Park Inuvialuit Settlement Region

Type of Transboundary Implication: Impact / Effect Development

Public Concern
(DESCRIBE) _____

PHYSICAL - CHEMICAL EFFECTS

IMPACT

1. Ground Water

- water table alteration
 water quality changes
 infiltration changes
 other
 N/A

MITIGATION

IMPACT

2. Surface Water

- flow or level changes
 water quality changes
 water quantity changes
 Drainage pattern changes
 temperature
 wetland changes / loss
 other:
 N/A

MITIGATION

Fuel cache, drill, and camp waste have the potential to contaminate local surface waters. Standard operating conditions for fuel storage, sewage, and drill waste disposal will eliminate this potential.

IMPACT

3. Noise

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

MITIGATION

Noise, sound, and emissions may temporarily disturb wildlife. However, these are all low impact, localized, and over a short duration. No significant effects should occur.

IMPACT

4. Land

- geologic structure changes
 soil contamination
 buffer zone loss

MITIGATION

Fuel cache, drill, and camp waste have the potential to contaminate soil. Standard operating conditions for fuel storage, sewage, and drill waste disposal should eliminate this potential

- soil compaction & settling
- Destabilization / erosion
- permafrost regime alteration
- other: explosives/scarring
- N/A

IMPACT
5. Non Renewable Natural Resources

MITIGATION

- resource depletion
- other:
- N/A

IMPACT
6. Air/Climate/ Atmosphere

MITIGATION

- Other
- N/A

Use of small generators, vehicles, helicopters, and drilling equipment, with appropriate emissions equipment ensure federal air quality standards.

BIOLOGICAL ENVIRONMENT

IMPACT
1. Vegetation

MITIGATION

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

Drill waste disposal and potential for fuel/oil spills. Land Use Condition included for deposit of drill waste, and absorbent material for clean up of fuel/oil spills should mitigate this impact.

IMPACT
2. Wildlife & Fish

MITIGATION

- 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)

Incineration will prevent animals from becoming attracted and habituated to human foods. The camp area may impact range for some animals, however a small-localized effect.

habitat changes / effects

May cause some habitat changes, however should be mitigated through proper clean up and closure procedures.

game species effects

toxins / heavy metals

forestry changes

agricultural changes

other:

N/A

INTERACTING ENVIRONMENT

IMPACT

1. Habitat and Communities

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

MITIGATION

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

First Nations

- Yellowknives Dene First Nation stated that the Drybones Bay area is of very significant importance to the Dene of the Akaitcho Territory and are concerned about potential impacts to traditional land use and wildlife within the Drybones Bay Area.

other:

N/A

IMPACT

3. Cultural and Heritage

MITIGATION

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

YKDFN stated that the Drybones Bay area is of very significant historical and archaeological importance to the Dene of the Akaitcho Territory and are concerned about potential impacts to archaeological and historical resources.

NOTES:

Consultation

- Pursuant to Section 1 (a) (b) (c) and Section 2(a) of the **Dogrib Treaty 11** Claim Interim Provisions Agreement, the MVLWB determined that the Permittee has participated in consultations and due process with respect to the issuance of a land use permit within the subject land use area.

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

	RA or DRA	ADVICE	PERMIT REQUIRED
<u>Federal</u>			
CANADIAN HERITAGE (PARKS CANADA)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CANADIAN NUCLEAR SAFETY COMMISSION	<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 type="checkbox"/>	<input checked="" 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 CANADA	<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"/>
NOGD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Territorial</u>			
RESOURCES, WILDLIFE AND ECONOMIC DEVELOPMENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MUNICIPAL AND COMMUNITY AFFAIRS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TRANSPORTATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
HEALTH BOARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PRINCE OF WALES HERITAGE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Aboriginal / First Nation</u>			
LUTSELK'E DENE FIRST NATION	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
YELLOWKNIFE METIS NATIONAL LOCAL #66	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RAE-EDZO METIS NATIONAL LOCAL #64	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RAE EDZO FIRST NATION (DOGRIB RAE BAND)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
YELLOWKNIFES DENE FIRST NATION (NDILO)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
YELLOWKNIFES DENE FIRST NATION (DETTAH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
GAMETI FIRST NATION (RAE LAKES)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DECHI LAOT'L FIRST NATIONS (WEKWETI)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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 MV2003C0023, Snowfield Development Corp. 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 MV2003C0023.

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 MV2003C0023 be issued subject to the terms and conditions contained therein.

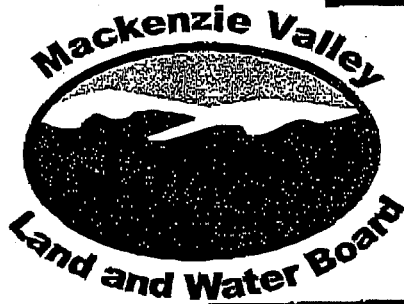
PRELIMINARY SCREENING DECISION	
<input checked="" type="checkbox"/>	Outside Local Government Boundaries
<input type="checkbox"/>	The development proposal might have a significant adverse impact on the environment, <i>refer it to the EIRB.</i>
<input checked="" type="checkbox"/>	<i>Proceed with regulatory process and/or implementation.</i>
<input checked="" 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"/>	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

Mackenzie Valley Land and Water Board

June 18, 2003

Signatures



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

EA-03-
006

FILE NUMBER: MN2003C0023

DATE:

July 11/03

TO:

Vern Christensen, MUEIRB
Ed Hounby, DIAND
Robert T. Paterson, Snowfield

FAX NUMBER:

FROM:

Latisha Heilman

Number of pages including cover

2

Snowfield Development Corporation
 Correction to page 7, Preliminary
 Screening

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

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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:

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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 MV2003C0023 be referred to the EIRB.

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Preliminary Screening Organization

Mackenzie Valley Land and Water Board

June 18, 2003

Signatures

