

Preliminary Screening Report Form

Preliminary screener: MVLWB Reference / File number: MV2015X0006 TITLE: South Rae Area Geological Sampling Study ORGANIZATION: Geological Survey of Canada MEETING DATE: June 18, 2015	EIRB Reference number:
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- Type of Development:** (CHECK ALL THAT APPLY)
- New
 - Amend, EIRB Ref. #
 - Requires permit, licence, or authorization
 - Does not require permit, licence, or authorization

Project Summary

A collaborative research project to conduct bedrock geological and surficial mapping in the South Rae Area of the NWT. This research project consists of sampling surficial and glacial sediment deposits using hand sampling methods.

Scope

- a) The use of vehicles,
- b) The establishment of a camp, and
- c) The establishment of fuel caches.

Land Use Eligibility - Section 18 Mackenzie Valley Land Use Regulations

Type of Disposition Disposition Number(s)

- Mineral Claims
- Prospecting Permit (s)
- Mineral Leases
- Oil and Gas: EL/SDL/PL
- Quarry Permit
- Timber Permit
- Other:

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 checked="" type="checkbox"/> Aerial |
| <input type="checkbox"/> Expansion | <input type="checkbox"/> Municipal | <input type="checkbox"/> Harvesting |
| <input type="checkbox"/> Operation | <input type="checkbox"/> Quarry | <input checked="" type="checkbox"/> Camp |
| <input type="checkbox"/> Repair | <input type="checkbox"/> Linear / Corridor | <input checked="" type="checkbox"/> Scientific/ |
| <input checked="" type="checkbox"/> Research | <input checked="" type="checkbox"/> Sewage | <input checked="" type="checkbox"/> Solid Waste |
| <input type="checkbox"/> Water Intake | | |
| <input type="checkbox"/> Other: | | |

Principal Development Components (related to scoping)

- | | |
|---|---|
| <input type="checkbox"/> Access Road <ul style="list-style-type: none"> <input type="checkbox"/> construction <input type="checkbox"/> abandonment/removal <input type="checkbox"/> modification e.g., widening, straightening <input checked="" type="checkbox"/> Automobile, Aircraft or Vessel Movement <ul style="list-style-type: none"> <input type="checkbox"/> Blasting <input type="checkbox"/> Building <input type="checkbox"/> Burning <input type="checkbox"/> Burying <input type="checkbox"/> Channelling <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 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 <ul style="list-style-type: none"> <input type="checkbox"/> Trenching <input type="checkbox"/> Diamond drill <input type="checkbox"/> Borehole core sampling <input type="checkbox"/> Bulk soil sampling <ul style="list-style-type: none"> <input type="checkbox"/> gravel <input type="checkbox"/> hydrological Testing <input type="checkbox"/> Site Restoration <ul style="list-style-type: none"> <input type="checkbox"/> fertilization <input type="checkbox"/> grubbing <input type="checkbox"/> planting/seeding <input type="checkbox"/> reforestation <input type="checkbox"/> scarify <input type="checkbox"/> spraying <input type="checkbox"/> re-contouring |
|---|---|

- Excavation
- Explosive Storage
- Fuel Storage
- Topsoil, Overburden or Soil
 - fill
 - disposal
 - removal
 - storage

- Slashing and removal of vegetation
- Soil Testing
- Stream Crossing/Bridging
- Tunnelling/Underground
- Other:

NTS topographic map sheet numbers:

75A, B, G, H and 65E

Latitude / longitude and UTM system:

NW corner: Longitude 108°00'00" Latitude 62°00'00"
 NE corner: Longitude 102°00'00" Latitude 62°00'00"
 S centre edge 1: Longitude 102°00'00" Latitude 61°00'00"
 S centre edge 2: Longitude 105°00'00" Latitude 61°00'00"
 SE corner: Longitude 105°00'00" Latitude 60°00'00"
 SW corner: Longitude 108°00'00" Latitude 60°00'00"

Nearest community and water body:

Community of Lutsel K'e
 Wignes Lake
 Firedrake Lake
 Boyd Lake

Land Status (*consultation information*)

- Free Hold/Private
- Commissioner's/Territorial Lands
- Federal Crown Land
- Municipal Land

Transboundary/Transregional Implications

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

Type of transboundary implication: Impact / Effect Development

Public concern: _____
 (Describe.)

Physical - Chemical Effects

Impact	Mitigation	Location of condition
1) Ground Water		
<input type="checkbox"/> water table alteration		
<input checked="" type="checkbox"/> water quality changes	Spill contingency plan will address any potential spills. Fuel caches and refuelling areas must have adequate secondary containment.	26(1)(m) 26(1)(m)
<input type="checkbox"/> infiltration changes		
<input type="checkbox"/> other:		
<input type="checkbox"/> N/A		
2) Surface Water		
<input checked="" type="checkbox"/> flow or level changes	No mitigation for the use of water for camp activities. Domestic water will be sourced from a nearby lake at a rate of approximately 300-600 liters per day.	n/a
<input checked="" type="checkbox"/> water quality changes	The Permittee shall not place fuel within 100 metres of the Ordinary High Water Mark of any Watercourse. Spill contingency plan will address any potential spills. Fuel caches and refuelling areas must have adequate secondary containment.	26(1)(m) 26(1)(m) 26(1)(m)
<input type="checkbox"/> water quantity changes		
<input checked="" type="checkbox"/> drainage pattern changes	The Permittee shall replace all excavated material.	26(1)(d)
<input type="checkbox"/> temperature		
<input type="checkbox"/> wetland changes/loss		
<input type="checkbox"/> other:		
<input type="checkbox"/> N/A		
3) Noise		
<input checked="" type="checkbox"/> noise in/near water	No mitigation, noise disturbance is temporary in nature.	n/a
<input checked="" type="checkbox"/> noise increase	No mitigation, noise disturbance is temporary in nature.	n/a
<input type="checkbox"/> other:		
<input type="checkbox"/> N/A		
4) Land		
<input type="checkbox"/> geologic structure changes		
<input checked="" type="checkbox"/> soil contamination	Any toxic material is to be disposed of as per the Waste Management Plan. Spill contingency plan will address any potential spills. Fuel caches and refuelling areas must have adequate secondary containment.	26(1)(g) 26(1)(m) 26(1)(m)
<input type="checkbox"/> buffer zone loss		
<input type="checkbox"/> soil compaction and settling		
<input type="checkbox"/> destabilization/erosion		
<input type="checkbox"/> permafrost regime alteration		
<input type="checkbox"/> explosives/scarring		
<input type="checkbox"/> other:		
<input type="checkbox"/> N/A		

Impact	Mitigation	Location of condition
5) Non-renewable natural resources		
<input type="checkbox"/> resource depletion		
<input type="checkbox"/> other:		
<input checked="" type="checkbox"/> N/A		
6) Air/climate/atmosphere		
<input checked="" type="checkbox"/> other:	Air quality will be temporarily affected by aircraft and equipment use – no mitigation.	n/a
<input type="checkbox"/> N/A		
BIOLOGICAL ENVIRONMENT		
1) Vegetation		
<input type="checkbox"/> species composition		
<input type="checkbox"/> species introduction		
<input type="checkbox"/> toxin/heavy accumulation		
<input checked="" type="checkbox"/> other: Habitat fragmentation	The Permittee shall take all reasonable measures to prevent damage to wildlife and fish Habitat during this land-use operation.	26(1)(h)
<input type="checkbox"/> N/A		
2) Wildlife and Fish		
<input type="checkbox"/> effects on rare, threatened or endangered species		
<input checked="" type="checkbox"/> fish population changes	Spill contingency plan will address any potential spills. Fuel caches and refuelling areas must have adequate secondary containment.	26(1)(m) 26(1)(m)
<input type="checkbox"/> waterfowl population changes		
<input type="checkbox"/> breeding disturbance		
<input type="checkbox"/> population reduction		
<input type="checkbox"/> species diversity change		
<input type="checkbox"/> health changes		
<input checked="" type="checkbox"/> behavioural changes	The Permittee shall not move any equipment or commence any drilling when one or more caribou are within five hundred (500) metres.	26(1)(q)
<input checked="" type="checkbox"/> habitat changes / effects	The Permittee shall take all reasonable measures to prevent damage to wildlife and fish Habitat during this land-use operation.	26(1)(h)
<input checked="" type="checkbox"/> game species effects	The Permittee shall not move any equipment or commence any drilling when one or more caribou are within five hundred (500) metres.	26(1)(q)
<input checked="" type="checkbox"/> toxins/ heavy metals	Any toxic material is to be disposed of as per the Waste Management Plan. Spill contingency plan will address any potential spills. Fuel caches and refuelling areas must have adequate secondary containment.	26(1)(g) 26(1)(m) 26(1)(m)
<input type="checkbox"/> forestry changes		
<input type="checkbox"/> agricultural changes		
<input type="checkbox"/> other:		

N/A

Interacting Environment

Impact
1) Habitat and Communities

Mitigation

**Location of
condition**

- | | | |
|---|--|----------|
| <input checked="" type="checkbox"/> predator-prey | All garbage and debris shall be kept in a secure container until disposal. | 26(1)(i) |
| <input checked="" type="checkbox"/> wildlife habitat/ecosystem composition changes | The Permittee shall take all reasonable measures to prevent damage to wildlife and fish Habitat during this land-use operation. | 26(1)(h) |
| <input checked="" type="checkbox"/> reduction/removal of keystone or endangered species | The Permittee shall not move any equipment or commence any drilling when one or more caribou are within five hundred (500) metres. | 26(1)(q) |
| <input type="checkbox"/> removal of wildlife corridor or buffer zone | | |
| <input type="checkbox"/> other: | | |
| <input type="checkbox"/> N/A | | |

Impact
2) Social and Economic

Mitigation

**Location of
condition**

- | | | |
|--|--|--|
| <input type="checkbox"/> planning/zoning changes or conflicts | | |
| <input type="checkbox"/> increase in urban facilities or services use | | |
| <input type="checkbox"/> rental house | | |
| <input type="checkbox"/> airport operations/capacity changes | | |
| <input type="checkbox"/> human health hazard | | |
| <input type="checkbox"/> impair the recreational use of water or aesthetic quality | | |
| <input type="checkbox"/> affect water use for other purposes | | |
| <input type="checkbox"/> affect other land use operations | | |
| <input type="checkbox"/> quality of life changes | | |
| <input type="checkbox"/> public concern | | |
| <input type="checkbox"/> other: | | |
| <input checked="" type="checkbox"/> N/A | | |

Impact
3) Cultural and Heritage

Mitigation

**Location of
condition**

- | | | |
|---|--|----------|
| <input checked="" type="checkbox"/> effects to historic property | The Permittee shall not knowingly remove, disturb, or displace any archaeological specimen or site. | 26(1)(j) |
| <input type="checkbox"/> increased economic pressure on historic properties | | |
| <input type="checkbox"/> change to or loss of historic resources | | |
| <input checked="" type="checkbox"/> change to or loss of archaeological resources | The Permittee shall not operate any vehicle or equipment within 150 metres of a known or suspected historical or archaeological site or burial ground. Prior to new land disturbance, an Archaeological Overview shall be conducted. | 26(1)(j) |
| <input type="checkbox"/> increased pressure on archaeological sites | | |

change to or loss of
aesthetically important sites

effects to aboriginal lifestyle

other:

N/A

- 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.
- Pursuant to subsection 1.6, paragraphs (a) and (b) of the **Akaiicho Territory Dene First Nations** (ATDFN) Interim Measures Agreement, the MVLWB determined that written notice was given to the ATDFN and that a reasonable period of time was allowed for ATDFN to make representations with respect to the Application.

Preliminary Screener / Referring Body Information

AANDC - Consultation and Accommodation Unit
AANDC - Aboriginal/Territorial Relations
AANDC - Intergovernmental
AANDC - Mineral Development Division
AANDC - Eric Allain
AANDC - Petroleum Resources Directorate
AANDC - CARD
Akaitcho IMA Implementation Office
Athabasca Denesuline Council c/o Prince Albert Council
Bathurst Inlet Development Ltd.
Bathurst Inlet Lodge
Boxxer Gold Corp.
Canadian Northern Economic Development Agency
CanNor NWT Region
City of Yellowknife
Dene Nation
Deninu K'ue First Nation
Ecology North
Environment Canada
Fisheries and Oceans Canada
Fort Resolution Metis Council
Fort Smith Metis Council
GNWT - Department of Transportation
GNWT - Environment and Natural Resources
GNWT - Health
GNWT - ITI
GNWT - Lands
GNWT - MACA
GNWT - Prince of Wales Northern Heritage Centre
Golder Associates
Gov of Canada
Hamlet of Enterprise
Hamlet of Fort Resolution
Hay River Metis Council
Katlodeeche First Nation
Kivalliq Inuit Association
Lutsel K'e Dene First Nation
Mackenzie Valley Environmental Impact Review Board
Manitoba Denesuline
MVLWB
National Energy Board
North Slave Metis Alliance
Northwest Territory Metis Nation
Salt River First Nations
Smith Landing First Nation
Snap Lake Environmental Monitoring Agency
Town of Fort Smith
Town of Hay River
West Point First Nation
Workers' Safety and
Compensation Commission
Yellowknives Dene First Nation

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 MV2015X0006 – Geological Survey of Canada – South Rae Area Geological Sampling Study has been completed in accordance with section 125 of the *Mackenzie Valley Resource Management Act* (MVRMA).

The Board is satisfied that communities and First Nations affected by the Application have been notified and provided adequate time to provide comment on the Application as required by land claim and self government agreements, the MVRMA, policy directions relating to Interim Measures Agreements, and any other applicable legislation and agreements.

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 Report prepared for the Board, the Board has decided that in its opinion:

- The proposed development will not have a significant adverse impact on the environment; and
- The proposed development is not 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 MVRMA 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"/>	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 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

Mackenzie Valley Land and Water Board

Signatures



June 18, 2015