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PRELIMINARY SCREENING REPORT FORM

PRELIMINARY SCREENER: WLWB REFERENCE / FILE NUMBER: W2011C0004 TITLE: Mineral Exploration – Lac de Gras, NT ORGANIZATION: New Nadina Explorations Ltd. MEETING DATE: September 5, 2012	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

Mineral exploration including trenching and large diameter RC drilling.

Scope

This permit entitles New Nadina Explorations Limited to conduct the following activities: Mineral exploration including use of a camp, diamond drilling including large diameter RC drilling, winter road construction and maintenance, fuel storage and the use of equipment for trenching in the Lac de Gras area, NT.

This screening refers only to the additional impacts that may be caused by the trenching and large diameter RC drilling activities that were not previously screened. Impacts and mitigation measures related to other activities (listed under the Scope, above) are addressed in the Preliminary Screening conducted for Land Use Permit MV2004C0036 by the MVLWB in September 2004.

Principal Activities (related to scoping)
 (CHECK ALL THAT APPLY)

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

Principal Development Components (related to scoping)

- | | |
|--|--|
| <input type="checkbox"/> Access Road
<input type="checkbox"/> construction
<input type="checkbox"/> abandonment/removal
<input type="checkbox"/> modification e.g., widening, straightening
<input type="checkbox"/> Automobile, Aircraft or Vessel Movement
<input checked="" type="checkbox"/> Blasting
<input type="checkbox"/> Building
<input type="checkbox"/> Burning
<input type="checkbox"/> Burying
diameter
<input type="checkbox"/> Channeling | <input type="checkbox"/> Waste Management
<input type="checkbox"/> disposal of hazardous waste
<input type="checkbox"/> waste generation
<input type="checkbox"/> Sewage
<input type="checkbox"/> disposal of sewage
<input type="checkbox"/> Geoscientific Sampling
<input checked="" type="checkbox"/> trenching
<input type="checkbox"/> diamond drill
<input checked="" type="checkbox"/> borehole core sampling (large reverse circulation drilling)
<input type="checkbox"/> bulk soil sampling |
|--|--|

- 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

- Gravel
- Hydrological Testing
- Site Restoration
 - fertilization
 - grubbing
 - planting/seeding
 - reforestation
 - scarify
 - spraying
 - recontouring
- Slashing and removal of vegetation
- Soil Testing
- Stream Crossing/Bridging
- Tunneling/Underground
- Other (describe):

NTS Topographic Map Sheet Numbers

(LIST ALL THAT APPLY)

76 D/07

Latitude / Longitude and UTM System:

64° 27' N to 64° 31' N

110° 50' W to 111° 02' W.

Nearest Community and Water Body:

Community of Wekweètì, Lac De Gras

Land Status (consultation information)

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

Large diameter drilling may increase the rate of artesian flow if encountered when drilling. LUP Conditions require that drill holes where flowing water is encountered must be permanently plugged to prevent further outflow.

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

Large diameter drilling will result in increased quantities of drilling waste. LUP Conditions state that "The Permittee shall deposit all non-toxic drill waste into a sump or natural depression at least one hundred metres above the ordinary high water mark of any watercourse, or as authorized in writing by an Inspector."

The operation will not have a water licence; therefore, total water use must be less than 100 m³/day, regardless of the type and number of drills being used.

Drainage patterns may be altered by trenching. LUP conditions state: "The land use operation shall not cause obstruction to any natural drainage."

IMPACT**3. Noise**

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

MITIGATION**IMPACT****4. Land**

- geologic structure changes
- soil contamination
- buffer zone loss
- soil compaction & settling
- Destabilization / erosion
- permafrost regime alteration
- other: explosives/scarring
- N/A

MITIGATION

The approximately 4000 kg excavator (with rubber tracks) used for trenching and the 29,000 kg large diameter drill may result in increased soil compaction. LUP conditions require the prevention of rutting and gouging, vehicle travel to be conducted only on snow-covered surfaces, and winter roads to be constructed with a minimum of 10 centimetres of packed snow or ice.

The Permittee will use less than 30 kg of explosives in any 30-day period; therefore, a land use permit is not required for explosive use. LUP conditions require the permittee to save and replace organic soil from excavations and to dispose of overburden as instructed by an Inspector.

IMPACT**5. Non Renewable Natural Resources**

- resource depletion
- other:
- N/A

MITIGATION

IMPACT**6. Air/Climate/
Atmosphere****MITIGATION** Other N/A**BIOLOGICAL ENVIRONMENT****IMPACT****1. Vegetation****MITIGATION** species composition species introduction toxin / heavy accumulation other: Local Disturbance

The approximately 4000 kg excavator (with rubber tracks) used for trenching and the 29,000 kg large diameter drill may result in increased disturbance of vegetation. LUP conditions require vehicle travel to be conducted only on snow-covered surfaces and winter roads to be constructed with a minimum of 10 centimetres of packed snow or ice.

 N/A**IMPACT****2. Wildlife & Fish****MITIGATION** effects on rare, threatened or endangered species fish population changes

Large diameter drilling will result in increased water use. The Proponent has been advised to use the *DFO Protocol for Winter Water Withdrawals in the Northwest Territories*.

 waterfowl population changes breeding disturbance population reduction species diversity change health changes
(Identify) behavioural changes
(Identify) habitat changes / effects game species effects toxins / heavy metals forestry changes agricultural changes other: N/A**INTERACTING ENVIRONMENT**

IMPACT**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

MITIGATION**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

MITIGATION**IMPACT****3. Cultural and Heritage**

- 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

MITIGATION

Trenching and large diameter drilling will increase the area of land disturbed and thus the increase the likelihood of impacts on archaeological resources. There is the potential for unidentified archaeological sites to be discovered in the area. However, in accordance with the LUP conditions, the proponent must not disturb the site(s), must cease operations, and contact the PWNHC.

change to or loss of
aesthetically important site

effects to aboriginal lifestyle

other:

N/A

NOTES:

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

	RA or DRA	ADVICE	PERMIT REQUIRED
<u>Federal/Territorial</u>			
Environment Canada	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fisheries and Oceans	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Indian and Northern Affairs Canada	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Canadian Heritage (Parks Canada)	<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 and Gov't Services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transport Canada	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Northern Oil and Gas Directorate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Canadian Nuclear Safety	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Industry Canada	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Canadian Transportation Agency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
National Defence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GNWT – H&SS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
GNWT - ENR	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
GNWT - MACA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
GNWT - Transportation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
GNWT – ITI	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Prince of Wales Northern Heritage Centre	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
WCB	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Tlicho Government</u>			
Tlicho Lands Protection Department	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Community Government of Behchoko	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Community Government of Gameti	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Community Government of Wekweèti	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Community Government of Whati	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>First Nations/Aboriginal and Co-Management Organizations</u>			
Behchoko Metis Local #64	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
North Slave Métis Alliance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Akaiicho IMA Implementation Office	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Deninu Kué First Nation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Yellowknives Dene First Nation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lutsel K'e Dene First Nation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Kitikmeot Inuit Association	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wek'eezhii Renewable Resources Board	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mackenzie Valley Land and Water Board	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MVEIRB	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Other</u>			
Adventure Northwest	<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 Wek'eezhii Land and Water Board (The Board) is satisfied that the preliminary screening of Land Use Permit Application W2011C0004 submitted by New Nadina Explorations Ltd. for mineral exploration on the Ren Property in the Lac de Gras area 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.

The Board is satisfied that the Tlicho Government has also been consulted in accordance with Section 63 of the *MVRMA*.

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.

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



Chair, Wek'eezhii Land and Water Board