

Preliminary Screening Report Form

Preliminary screener: MVLWB Reference / File number: MV2017X0030 & MV2017L8-0006 TITLE: Miscellaneous ORGANIZATION: Indigenous and Northern Affairs Canada MEETING DATE: September 28, 2017	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:

The proposed project is to repair the existing UBC Bridge, which was constructed in 2007 and was used to support care and maintenance activities at the Giant Mine site up until the fall of 2015. It is a single span timber deck bridge with steel girders (the superstructure), supported on concrete pile caps and steel pipe piles (the abutments or substructure). In October 2015, it was noted that the abutments under the bridge deck had moved inward and rotated. Indigenous and Northern Affairs Canada (INAC) ordered the bridge to be closed pending further assessment.

The proposed repairs will use the existing bridge decking and steel girders (the superstructure) and replace the piles and concrete caps (the abutments or substructure) with an improved pile and cap design. The new design will improve the stability of the bridge approach and reduce lateral movement of the fill by using the bridge’s structural components to act as retaining walls.

Baker Creek is anticipated to be frozen while repair work is completed. INAC is anticipating the commencement of the contract tendering’ process in the fall of 2017 and repairs to start in late 2017. The anticipated duration of the full bridge repair is to take 30 – 60 days and occur between October and March. No in-stream work is proposed as all work will be conducted on lands above the ordinary high-water mark. There is no water withdrawal required in support of repair operations. Best management practices for erosion control will be implemented and monitored, as is appropriate. Wastewater from drilling is anticipated to be minimal and will be deposited into the Hazardous Waste Area of the Northwest Tailings Pond at the Giant Mine site. Fuel; fuel storage locations; and refueling locations for the operation have been included in Permit MV2016S0016.

Equipment includes:

- Crane (1)
- Drill Rig (1-2)
- Excavator (1-2)
- Survey Equipment (1-2)
- Compaction Equipment (1-2)
- Work Trucks (1-3)

Scope:

Water Licence

This Licence entitles the Licensee to conduct Watercourse crossings, including the construction of a bridge, located at the Giant Mine Site, including the following:

- Removal of the existing bridge;
- Construction and installation of a new bridge;
- Installation and maintenance of erosion control measures; and
- Other related activities, including Reclamation.

Land Use Permit

This Permit entitles the Permittee to conduct the following land-use operation:

- Use of drills and equipment for removal of existing bridge and installation of new bridge.

Land Use Eligibility - Section 18 Mackenzie Valley Land Use Regulations:

18(b)

Type of Disposition

Disposition Number(s)

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

The project is on federal lands

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

- | | | |
|--|--|--|
| <input checked="" type="checkbox"/> Construction | <input type="checkbox"/> Exploration | <input type="checkbox"/> Decommissioning |
| <input checked="" type="checkbox"/> Installation | <input type="checkbox"/> Industrial | <input type="checkbox"/> Abandonment |
| <input checked="" 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 checked="" type="checkbox"/> Repair | <input type="checkbox"/> Linear / Corridor | <input type="checkbox"/> Scientific/ |
| <input type="checkbox"/> Research | <input type="checkbox"/> Sewage | <input type="checkbox"/> Solid Waste |
| <input type="checkbox"/> Water Intake | | |
| <input type="checkbox"/> Other: | | |

Principal Development Components (related to scoping) (CHECK ALL THAT APPLY)

- | | |
|--|--|
| <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"/> Waste Management <ul style="list-style-type: none"><input type="checkbox"/> disposal of hazardous waste<input checked="" type="checkbox"/> waste generation<input type="checkbox"/> sewage<input type="checkbox"/> disposal of sewage |
| <input type="checkbox"/> Automobile, Aircraft or Vessel Movement | <input type="checkbox"/> Geoscientific Sampling |
| <input type="checkbox"/> Blasting | <input type="checkbox"/> Trenching |
| <input type="checkbox"/> Building | <input type="checkbox"/> Diamond drill |
| <input type="checkbox"/> Burning | <input type="checkbox"/> Borehole core sampling |
| <input type="checkbox"/> Burying | <input type="checkbox"/> Bulk soil sampling |
| <input type="checkbox"/> Channelling | <input type="checkbox"/> gravel |
| <input type="checkbox"/> Cut and Fill | <input type="checkbox"/> hydrological Testing |
| <input type="checkbox"/> Cutting of Trees or Removal of Vegetation | <input checked="" type="checkbox"/> Site Restoration |
| <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"/> fertilization |
| <input type="checkbox"/> Ditch Construction | <input type="checkbox"/> grubbing |
| <input type="checkbox"/> Drainage Alteration | <input type="checkbox"/> planting/seeding |
| <input checked="" type="checkbox"/> Drilling other than Geoscientific | <input type="checkbox"/> reforestation |
| <input type="checkbox"/> Ecological Surveys | <input type="checkbox"/> scarify |
| <input checked="" type="checkbox"/> Excavation | <input type="checkbox"/> spraying |
| <input type="checkbox"/> Explosive Storage | <input checked="" type="checkbox"/> re-contouring |
| <input type="checkbox"/> Fuel Storage | <input type="checkbox"/> Slashing and removal of vegetation |
| <input type="checkbox"/> Topsoil, Overburden or Soil <ul style="list-style-type: none"><input type="checkbox"/> fill<input type="checkbox"/> disposal<input type="checkbox"/> removal<input type="checkbox"/> storage | <input type="checkbox"/> Soil Testing |
| | <input checked="" type="checkbox"/> Stream Crossing/Bridging |
| | <input type="checkbox"/> Tunnelling/Underground |
| | <input type="checkbox"/> Other: |

NTS topographic map sheet numbers:

85 J

Latitude / longitude and UTM system:

62°28'54" N - 114°19'12" W

62°32'38" N - 114°22'34" W

Nearest community and water body:

City of Yellowknife

Great Salve Lake

Land Status (consultation information)

Free Hold/Private

Commissioner's/Territorial Lands

Federal Crown Land

Municipal Land

Transboundary/Transregional Implications

British Columbia

Alberta

Saskatchewan

Yukon

Nunavut

National Park

Inuvialuit Settlement Region

Wek'èezhii

Gwich'in

Sahtu

Type of transboundary implication:

Impact / Effect

Development

Public concern: _____

(Describe.)

Physical - Chemical Effects

Impact

Mitigation

1) Ground Water

water table alteration

water quality changes

infiltration changes

other:

N/A

Impact

Mitigation

2) Surface Water

flow or level changes

water quality changes

The work will be completed during the winter which would lessen the chance of potential sedimentation/contamination of Baker Creek.

INAC will be implementing erosion controls and best management practices to lessen the erosion into Baker Creek.

water quantity changes

drainage pattern changes

temperature

wetland changes/loss

other:

N/A

Impact

Mitigation

3) Noise

noise in/near water

noise increase

Noise from the bridge repair will be limited to noise from drilling and use of machinery during the repair. Drilling and equipment noise will be short-term and localized to the activities.

other:

N/A

Impact

Mitigation

4) Land

geologic structure changes

soil contamination

Refueling will take place in a designated area.

buffer zone loss

soil compaction and settling

destabilization/erosion

permafrost regime alteration

explosives/scarring

other:

N/A

Impact

Mitigation

5) Non-renewable natural resources

resource depletion

other:

N/A

Impact

Mitigation

6) Air/climate/atmosphere

other:

Drilling and excavation equipment will be selected to minimize dust impacts to air quality and its deposition on land during installation of the bridge piles.

N/A

BIOLOGICAL ENVIRONMENT

Impact

Mitigation

1) Vegetation

species composition

species introduction

toxin/heavy accumulation

other: Linear Migration routes, habitat fragmentation

N/A

Impact

2) Wildlife and Fish

Mitigation

effects on rare, threatened
or
endangered species

fish population changes

Work will not be done in Baker Creek. All works are anticipated to be completed in frozen conditions.

waterfowl population
changes

breeding disturbance

population reduction

species diversity change

health changes

behavioural changes

habitat changes / effects

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
- other:
- N/A

Impact

Mitigation

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
- 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

Akaiicho IMA Implementation Office
Athabasca Denesuline Council CO Prince Albert Cou
Bathurst Inlet Development Ltd.
Bathurst Inlet Lodge
BNT Gold Resources Ltd.
Canadian Northern Economic Development Agency
CanNor NWT Region
Chamber of Mines NWT & Nunavut
City of Yellowknife
Dene Nation
Deninu K'ue First Nation
Environment and Climate Change Canada
Fisheries and Oceans Canada
Fort Resolution Metis Council
Fort Smith Metis Council
General Public
Giant Mine Oversight Board
GNWT - ECE
GNWT - ENR
GNWT - Health
GNWT - INF
GNWT - ITI
GNWT - Lands
GNWT - MACA
GNWT- OROGO
Golder Associates
Gov of Canada

Hamlet of Fort Resolution
Hay River Metis Council
INAC - Contaminants and Remediation Directorate
INAC - NWT Inspectors
Katloodeeche First Nation
Lutsel K'e Dene First Nation - Chief or Wildlife, Lands and Environment
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 - SLEMA
Strategic Oil & Gas Ltd.
Tlicho Government
Tlicho Lands Protection Department
Town of Fort Smith
Wek' eezhii Renewable Resources Board
West Point First Nation
WLWB
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 Applications for Land Use Permit MV2017X0030 and Water Licence MV2017L8-0006, as submitted by Indigenous and Northern Affairs Canada (INAC) for activities at the Giant Mine Site 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 Reports 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 and Water Licence.

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 and the *Waters Act* and Waters Regulations has decided that this Land Use Permit and Water Licence be issued subject to the terms and conditions contained therein.

Preliminary Screening Decision	
<input 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 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>
<input checked="" 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 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>

Preliminary Screening Organization

Signature

Mackenzie Valley Land and Water Board

September 28, 2017

Mavis Cli-Michaud, Chair