

Preliminary Screening Report Form

Preliminary screener: MVLWB Reference / File number: MV2016Q031 TITLE: Quarry Operation ORGANIZATION: Rowe's Construction Ltd. MEETING DATE: January 12, 2017	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, licence, or authorization |
| <input type="checkbox"/> | Does not require permit, licence, or authorization |

Project Summary

The location of the quarry is approximately 50 km northwest of Fort Simpson, NT, and it is a multi-user pit. The quarry operation is summarized as follows:

- Up to 15 people on site;
- Establishment of a temporary camp;
- Use and storage of fuel;
- Overburden will be stripped and stockpiled for reclamation;
- Waste will be disposed at the Fort Simpson Facility;
- An existing road will be used to access the site;
- Quarry Permit from GNWT- Lands has been issued to Rowe's;
- Equipment for the operations are as follows, or similar:
 - Backhoe
 - Loader
 - Dozer
 - Crusher
 - Pick-up trucks
 - Dump trucks

Refueling will be done from tidy tanks however there will be the establishment of an Envirotank on site.

Scope

- a quarry operation at km 518 of NWT Highway #1;
- use of equipment;
- use and storage of fuel; and
- establishment of a camp.

Land Use Eligibility - Section 18 Mackenzie Valley Land Use Regulations

Type of Disposition Disposition Number(s)

- | | |
|---------------------------------------------------|------------|
| <input type="checkbox"/> Mineral Claims | |
| <input type="checkbox"/> Prospecting Permit (s) | |
| <input type="checkbox"/> Mineral Leases | |
| <input type="checkbox"/> Oil and Gas: EL/SDL/PL | |
| <input checked="" type="checkbox"/> Quarry Permit | 2016QP0032 |
| <input type="checkbox"/> Timber Permit | |
| <input type="checkbox"/> 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 type="checkbox"/> Aerial |
| <input type="checkbox"/> Expansion | <input type="checkbox"/> Municipal | <input type="checkbox"/> Harvesting |
| <input checked="" type="checkbox"/> Operation | <input checked="" type="checkbox"/> Quarry | <input checked="" type="checkbox"/> Camp |
| <input 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)

- | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <input checked="" 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 <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 checked="" 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 type="checkbox"/> disposal <input checked="" type="checkbox"/> removal <input checked="" type="checkbox"/> storage | <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Waste Management <ul style="list-style-type: none"> <input checked="" type="checkbox"/> disposal of hazardous waste <input checked="" type="checkbox"/> waste generation <input type="checkbox"/> sewage <input checked="" type="checkbox"/> disposal of sewage <input type="checkbox"/> Geoscientific Sampling <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 checked="" 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 checked="" type="checkbox"/> re-contouring <input checked="" type="checkbox"/> Slashing and removal of vegetation <input type="checkbox"/> Soil Testing <input type="checkbox"/> Stream Crossing/Bridging <input type="checkbox"/> Tunnelling/Underground <input type="checkbox"/> Other: |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NTS topographic map sheet numbers:
95J

Latitude / longitude and UTM system:
62°02'27" – 62°02'38"
122°01'05" – 122°02'00"

Nearest community and water body:
Fort Simpson, NT
Mackenzie River

Land Status (consultation information)

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

Transboundary/Transregional Implications

- | | | | |
|-------------------------------------------|----------------------------------------|-------------------------------------------------------|--------------------------------|
| <input type="checkbox"/> British Columbia | <input type="checkbox"/> Alberta | <input type="checkbox"/> Saskatchewan | <input type="checkbox"/> Yukon |
| <input type="checkbox"/> Nunavut | <input type="checkbox"/> National Park | <input type="checkbox"/> Inuvialuit Settlement Region | |
| <input type="checkbox"/> Wek'èezhìì | <input type="checkbox"/> Gwich'in | <input type="checkbox"/> Sahtu | |

Type of transboundary implication: Impact / Effect Development

Public concern: _____
(Describe.)

Physical - Chemical Effects

Impact

1) Ground Water

- water table alteration
- water quality changes

Mitigation

The implementation of a Spill Contingency Plan will address potential spills; Solid waste will be transported off-site; Greywater will be transported off-site; and Fuel storage will have secondary containment.

The implementation of conditions found under paragraph 26(1)(g) Use, Storage, Handling, and Ultimate Disposal of Any Chemical or Toxic Material and 26(1)(m) Fuel Storage of the Mackenzie Valley Land Use Regulations will assist in mitigating the impacts.

infiltration changes

other:

N/A

Impact

2) Surface Water

Mitigation

flow or level changes

water quality changes

The implementation of a Spill Contingency Plan will address potential spills; Solid waste will be transported off-site; Greywater will be transported off-site; and Fuel storage will have secondary containment.

The implementation of conditions found under paragraph 26(1)(g) Use, Storage, Handling, and Ultimate Disposal of Any Chemical or Toxic Material and 26(1)(m) Fuel Storage of the Mackenzie Valley Land Use Regulations will assist in mitigating the impacts.

water quantity changes

drainage pattern changes

Implementation of conditions found under paragraph 26(1)(f) Control or Prevention of Ponding of Water, Flooding, Erosion, Slides, and Subsidence of Land of the Mackenzie Valley Land Use Regulations will assist in mitigating the impacts.

temperature

wetland changes/loss

other:

N/A

Impact

3) Noise

Mitigation

noise in/near water

noise increase

No mitigation, noise disturbance is temporary in nature.

other:

N/A

Impact

4) Land

Mitigation

geologic structure changes

Quarry development will result in changes to geologic structure directly affected by these activities.

Implementation of conditions found under paragraph 26(1)(o) Restoration of Lands of the Mackenzie Valley Land Use Regulations will assist in restoring the area once the operation has been complete.

soil contamination

The implementation of a Spill Contingency Plan will address potential spills; Solid waste will be transported off-site; Greywater will be transported off-site; and Fuel storage will have secondary containment.

The implementation of conditions found under paragraph 26(1)(g) Use, Storage, Handling, and Ultimate Disposal of Any Chemical or Toxic Material and 26(1)(m) Fuel Storage of the Mackenzie Valley Land Use Regulations will assist in mitigating the impacts.

buffer zone loss

soil compaction and settling

Implementation of conditions found under paragraph 26(1)(f) Control or Prevention of Ponding of Water, Flooding, Erosion, Slides, and Subsidence of Land of the Mackenzie Valley Land Use Regulations will assist in mitigating the impacts.

destabilization/erosion

Implementation of conditions found under paragraph 26(1)(f) Control or Prevention of Ponding of Water, Flooding, Erosion, Slides, and Subsidence of Land of the Mackenzie Valley Land Use Regulations will assist in mitigating the impacts.

permafrost regime alteration

- explosives/scarring
- other:
- N/A

Impact
5) Non-renewable natural resources

Mitigation

- resource depletion
- other:
- N/A

No mitigation.
 Rowe's Construction Ltd. has obtained a Quarry Permit from GNWT-Lands for the extraction of the material.

Impact
6) Air/climate/atmosphere

Mitigation

- other: carbon dioxide/GHG
- N/A

No mitigation
 Air quality will be temporarily effected by vehicle and equipment use.

BIOLOGICAL ENVIRONMENT

Impact
1) Vegetation

Mitigation

- species composition
- species introduction
- toxin/heavy accumulation

The implementation of a Spill Contingency Plan will address potential spills; Solid waste will be transported off-site; Greywater will be transported off-site; and Fuel storage will have secondary containment.
 The implementation of conditions found under paragraph 26(1)(g) Use, Storage, Handling, and Ultimate Disposal of Any Chemical or Toxic Material and 26(1)(m) Fuel Storage of the Mackenzie Valley Land Use Regulations will assist in mitigating the impacts.

- other: Linear Migration routes, habitat fragmentation
- N/A

Impact
2) Wildlife and Fish

Mitigation

- effects on rare, threatened or endangered species
- fish population changes
- waterfowl population changes
- breeding disturbance
- population reduction
- species diversity change
- health changes
- behavioural changes
- habitat changes / effects

Implementing conditions related to protection of wildlife habitat in a permit as per paragraph 26(1)h of the Mackenzie Valley Land Use Regulations will mitigate habitat-related impacts.

- 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

Implementing conditions related to protection of wildlife habitat in a permit as per paragraph 26(1)h of the Mackenzie Valley Land Use Regulations will mitigate habitat-related impacts.

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

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

Implementing conditions relating to paragraph 26(1)(j) Protection of Historical, Archaeological, and Burial Sites of the Mackenzie Valley Land Use Regulations will minimize impacts.

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 section 27, paragraphs (a) and (b) of the **Dehcho First Nations** (DCFN) Interim Measures Agreement, the MVLWB has 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.

Preliminary Screener / Referring Body Information

Acho Dene Koe First Nation
Canadian Northern Economic Development Agency
CanNor NWT Region
Deh Cho Land Use Planning Committee
Deh Gah Got'ie Dene Council
Dehcho First Nations
Dene Tha' First Nation
Ecology North
Environment and Climate Change Canada
Fisheries and Oceans Canada
Fort Providence Métis Council #57
Fort Providence Resource Management Board
Fort Simpson Metis Local #52
GNWT - DOT
GNWT - ENR
GNWT - Health
GNWT - ITI
GNWT - Lands
GNWT - MACA
GNWT - Prince of Wales Northern Heritage Centre
GNWT- OROGO
Government of Canada
Hamlet of Fort Providence
Hay River Metis Council

INAC - Contaminants and Remediation Directorate
INAC - NWT Inspectors
Ka'a'gee Tu First Nation
Katlodeeche First Nation
Liard First Nation (Yukon)
Liidlii Kue First Nation (Ft Simpson)
Mackenzie Valley Environmental Impact Review Board
Naha Dehe Dene Band
North Slave Métis Alliance
Northwest Territory Métis Nation
Pehdzeh Ki First Nation (Wrigley)
Sambaa Ke Dene Band (Trout Lake)
Snap Lake Environmental Monitoring Agency - SLEMA
Tłıchǫ Government
Tłıchǫ Lands Protection Department
Town of Hay River
Transport Canada
Tłıchǫ K'edeli First Nation (JMR)
Village of Fort Simpson
West Point First Nation
Workers' Safety and Compensation Commission

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 MV2016Q0031 – Rowe's Construction Ltd. – Quarry Operation, NWT Highway #1, km 518, 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

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

January 12, 2017

Signatures



Violet Camsell-Blondin, A/Chair
