

PRELIMINARY SCREENING REPORT FORM

PRELIMINARY SCREENER: Tony Morris REFERENCE / FILE NUMBER: S12L3-006 APPLICANT: Charter Community of Deline DATE: November 28, 2012	EIRB REFERENCE NUMBER: TITLE: Regulatory Specialist ORGANIZATION: Sahtu Land and Water Board
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Type of Development: Municipal Water Licence

- Type of Development:**
(CHECK ALL THAT APPLY)
- New Development
 - Amend, EIRB Ref. #
 - Renew, EIRB Ref. #
 - Requires permit, license or authorization
 - Does not require permit, license or authorization

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

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> Construction | <input type="checkbox"/> Exploration | <input checked="" type="checkbox"/> Decommissioning |
| <input type="checkbox"/> Installation | <input type="checkbox"/> Industrial | <input checked="" type="checkbox"/> Abandonment |
| <input checked="" type="checkbox"/> Maintenance | <input type="checkbox"/> Recreation | <input type="checkbox"/> Aerial |
| <input checked="" type="checkbox"/> Expansion | <input checked="" type="checkbox"/> Municipal | <input type="checkbox"/> Harvesting |
| <input checked="" 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 checked="" type="checkbox"/> Water Intake | <input checked="" type="checkbox"/> Sewage | <input checked="" type="checkbox"/> Solid Waste |

Other: _____
(DESCRIBE)

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 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 checked="" type="checkbox"/> Burying <input type="checkbox"/> Channeling <input type="checkbox"/> Cut and Fill <input checked="" type="checkbox"/> Cutting of Trees or Removal of Vegetation | <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 checked="" type="checkbox"/> Sewage <ul style="list-style-type: none"> <input checked="" type="checkbox"/> disposal of sewage <input 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 |
|---|---|

- 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 removal
 - disposal storage

- 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)

NTS Map Sheet #s: 96G – 1:250,000

Latitude / Longitude and UTM System: Latitude – 65 °, 11' North, Longitude – 123 ° 26', West
(DEGREES, MINUTES, SECONDS, MAP SHEET)

Nearest Community and Water Body: The Charter Community of Deline is located about 110 km northeast of Norman Wells. The main water bodies are Great Bear Lake, and Airplane Lake

Land Status (consultation information)
(CHECK ALL THAT APPLY)

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

Transboundary Implications
(CHECK ALL THAT APPLY - IF KNOWN & APPLICABLE)

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

Type of Transboundary Implication: Impact / Effect Development

Public Concern _____
(DESCRIBE)

N/A

PHYSICAL - CHEMICAL EFFECTS

IMPACT

MITIGATION

1. Ground Water

water table alteration

water quality changes

1. The storage of waste at the solid waste facility could impact groundwater.
2. Runoff from the solid waste disposal site could impact groundwater.
3. Sewage lagoon failure could contaminate groundwater.
4. The Charter Community of Deline has a spill contingency plan in place for all municipal operations that will be adhered to.

infiltration changes

other: _____

N/A
IMPACT

MITIGATION

2. Surface Water

- flow or level changes
- water quality changes

- water quantity changes

- drainage pattern changes
- temperature
- wetland changes / loss
- other: _____
- N/A

1. No deleterious materials will be allowed to enter creeks or lakes.
2. Spills in and around the community could affect water quality.
3. The Charter Community of Deline has a spill contingency plan in place for all municipal operations that will be adhered to.

1. The Charter Community of Deline requires 30,000m³ of water per year from Great Bear Lake, which is a negligible amount.

IMPACT

MITIGATION

3. Noise

- noise increase

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

1. Vehicles servicing the solid waste facility, sewage lagoon, and water treatment plant will temporarily influence air and noise increase, and is expected in and around the community.

IMPACT

MITIGATION

4. Land

- geologic structure changes
- soil contamination

- buffer zone loss
- soil compaction & settling

- destabilization / erosion

1. The storage of waste at the solid waste facility could impact soil quality.
2. The Charter Community of Deline has a spill contingency plan in place for all municipal operations that will be adhered to.

1. Soil is compacted at the solid waste facility due to movement of machinery and compaction of the garbage.
2. This compacting of the soil will help lessen the impact of rainwater and surface water infiltration into the soil and ground water.
3. The solid waste site is to be accessed by roads.

permafrost regime alteration

1. The landfill operation could remove any permafrost in the area.
2. The construction of the new sewage lagoon system could impact permafrost conditions.

other: _____

N/A

IMPACT

MITIGATION

5. Non Renewable Natural Resources

resource depletion

other: _____

N/A

IMPACT

MITIGATION

6. Air / Climate / Atmosphere

burning of Garbage

1. Only clean combustible materials are to be disposed of in the burn pit.

vehicle exhaust

1. Vehicles servicing the solid waste facility, sewage lagoon, and water treatment plant will temporarily influence air and noise increase, and is expected in and around the community.

N/A

BIOLOGICAL ENVIRONMENT

IMPACT

MITIGATION

1. Vegetation

species composition

species introduction

toxin / heavy accumulation

1. Possibility of accumulation of toxins from contaminants leaching out from the landfill.

other: _____

N/A

IMPACT

MITIGATION

2. Wildlife & Fish

effects on rare, threatened or endangered species

fish population changes

1. DFO recommends that a fish screen be installed on the intake pipe that meets the Freshwater Intake End-of-Pipe Fish Screen Guideline.

waterfowl population changes

- breeding disturbances
- 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

1. Displacement of large populations of large game animals is not likely, because the development is within municipal boundaries.
2. Most of the larger mammals like caribou or moose and smaller fur bearing animals like marten, lynx and wolverine avoid or do not often come into town or even near the outer edges of town.
1. The storage of waste at the solid waste facility could impact wildlife.

INTERACTING ENVIRONMENT

IMPACT

MITIGATION

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

1. Displacement of large populations of large game animals is not likely, because the development is within municipal boundaries.
2. Most of the larger mammals like caribou or moose and smaller fur bearing animals like marten, lynx and wolverine avoid or do not often come into town or even near the outer edges of town.
3. Wildlife may be attracted to the solid waste disposal facility. Proper fencing will help control wildlife access.

IMPACT

MITIGATION

2. Social and Economic

