

**Preliminary Screening Report Form**

<p><b>Preliminary Screener:</b> MVLWB</p> <p><b>Reference / File Number:</b> MV2018C0005 &amp; MV2018L2-0003</p> <p><b>Title:</b> Mineral Exploration, Pine Point Area</p> <p><b>Organization:</b> Pine Point Mining Limited</p> <p><b>Meeting date:</b> June 20, 2018</p>	<p><b>EIRB Reference Number:</b></p>
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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

**Background**

Exploration activities in the Pine Point area were screened on July 2, 2009, and a Land Use Permit (MV2008C0023) was issued to Tamerlane Ventures Inc. by the Mackenzie Valley Land and Water Board (the Board) on the same date. MV2008C0023 expired on July 1, 2016. On December 19, 2016, Land Use Permit MV2016C0023 was issued to Pine Point Holding Corp. for identical activities to those which were permitted under MV2008C0023. No screening was performed on the activities associated with Permit MV2016C0023, as they were determined by the Board to be exempt from preliminary screening in accordance with Schedule 1, Paragraph 2 of the Exemption List Regulations, as the proposed development had not been modified since it was last screened. Permit MV2016C0023 was assigned from Pine Point Holding Corp. to Darnley Bay Resources Ltd. (Darnley Bay), following a sale of assets and associated transfer of mineral claims to Darnley Bay.

On May 29, 2017, Darnley Bay submitted a Land Use Permit Application (MV2017C0024) to expand upon activities permitted under Permit MV2016C0023, including increased drilling activity and equipment use, addition of 5 new mineral claims, a larger camp, and increased fuel storage. These activities were screened by the Board on July 20, 2017.

On September 5, 2017, Pine Point Mining Limited (Darnley Bay Resources Ltd. changed their name to Pine Point Mining Ltd. on August 8, 2017; the Board acknowledged this change on September 28, 2017) submitted an Amendment Application for Permit MV2017C0024, requesting to add eight additional mineral claims to the project area. No changes to operations were proposed, as the drilling associated with these claims was accounted for in the initial application for Permit MV2017C0024, but these claims had not yet been formally acquired at the time of that application. The addition of the eight mineral claims to the existing operation require screening by the Board in accordance with subsection 124(1) of the *Mackenzie Valley Resource Management Act* (MVRMA).

On March 26, 2018, PPML submitted a Land Use Permit Application (MV2018C0005) and Water Licence Application (MV2018L2-0003) to conduct a confirmation drilling program, which is to confirm results from the historic Cominco database and obtain information for a feasibility study. PPML has explicitly stated in its application that the proposed activities are independent of its Permit MV2017C0024. As a result, the additional drilling holes (2,500) on the existing mineral claim and lease require screening by the Board as per subsection 124(1) of the MVRMA.

Previously screened items have been included in this screening for reference, to ensure all ongoing and proposed activities are included in this current screening of the project. These items are denoted as being previously screened and are listed in italics.

## **Project Summary**

### Previously Screened Activities:

- Construction and maintenance of a 20-person camp facility located at: 60°50'12" W and 114°33'52" N;
- Confirmatory, exploration, and definition drilling program consisting of approximately 300 diamond drill holes; and
- Fuel storage of approximately 660 L of diesel, 55 L of gasoline and 2300 lbs of propane.

The following fuel will be stored at the camp site:

- 2 drums (200 L capacity) of diesel fuel
- 1 enviro-tank (1500 L capacity) of diesel fuel
- 1 genset tank (50 gal. capacity) of diesel fuel
- 1 container (205 L capacity) of gasoline
- 4 containers of propane (2 x 4,000 L capacity and 2 x 200 L capacity)

The following equipment will be used on site:

- 4 - ¾ tonne pick-up trucks
- 1 - 4,000 L capacity water truck;
- 1 D6 Cat dozer
- 3 pumps (20 gpm, 10 hp)
- 1 front-end loader
- 2 snowmobiles
- 2 all terrain vehicles
- 1 diamond drill (LS 70 or smaller)
- 2 50 kW generators.

### July 20, 2017 Screening:

Darnley Bay are applying to increase exploration activity in the Pine Point area. Increased drilling, additional claims, a larger camp, and increased fuel storage are proposed in the Application. Darnley Bay has specifically requested the following additions to existing operations:

- Increased Diamond Drilling activity from approximately 300 holes to 1500 holes, on existing leases and 5 new mineral claims;
- Construction and operation of a larger camp for approximately 35 persons (previously 20);
- Increased fuel storage; and
- Increased quantity of equipment to support increased drilling.

### June 20, 2018 Screening:

PPML is applying to conduct confirmation drilling to verify the Cominco historic database. The drilling program is independent of the MV2017C0024 Permit. The MV2018C0005 & MV2018L2-0003 application is proposing diamond drilling, fuel storage, construction and maintenance of trails, withdrawal of water for diamond drilling, deposit of drilling waste into sumps, and progressive reclamation and associated closure activities.

- Maximum drilling of 2,500 holes on existing mineral claims and leases
- Storage of fuel on drill pads;
- Use of heavy equipment and vehicles; and
- Use of water and deposit of waste at sumps.

### Fuel Storage:

#### Additional Fuel (July 20, 2017 Screening):

- 10,000L Diesel (an increase of 8,250L)
- 2,000L Gasoline (an increase of 1,795L)
- 4000L Aviation Fuel
- 2000 lbs Propane (an increase of 800 lbs)

#### Fuel storage on drill pads (June 20, 2018 Screening):

- 15 480 L of diesel;
- 1,350 L of gasoline; and
- 18,000 lbs of propane.

**Equipment:****Additional Equipment (July 20, 2017 Screening):**

<b>Type and Number</b>	<b>Size</b>	<b>Purpose</b>
<i>Skid or track mounted surface drills of types 25HH, 30HH, LF70, LF90, or equivalent (2 additional drills, up to 3 total)</i>	<i>10 to 13 tonnes each</i>	<i>To carry out drilling</i>
<i>Sloop for Equipment (1-3)</i>	<i>Skid-mounted, approximately 3 tonne capacity</i>	<i>Carry drill rods, bits and consumables to drill</i>
<i>Equipment and supply shack (1-3)</i>	<i>Skid-mounted, approximately 3 tonne capacity</i>	<i>Optional shack for storage of spares and tools for drill, plus additional warm area for crew in winter</i>
<i>Electric and diesel-powered water pumps with up to 1000 metres of water line (1-3)</i>	<i>Approximately 40 to 90kg</i>	<i>Provide water for the drill rig</i>
<i>Insulated pump shack with fuel tank and propane bottles (1-3)</i>	<i>Approximately 500 to 1000 kg</i>	<i>Required during winter conditions to keep water pump and water lines from freezing</i>
<i>Insulated heat shack for water lines with fuel tank and propane bottles (1-3)</i>	<i>Approximately 500 to 1000 kg</i>	<i>Required during winter conditions when water pump is further away from drill to keep water pump and water lines from freezing</i>
<i>Drill cuttings tank (1-3)</i>	<i>Approximately 500 to 1000 kg</i>	<i>Used to collect drill cuttings and allow future burial/covering in a pit or natural depression</i>
<i>Water storage tank</i>	<i>Skid-mounted, approximately 3 tonne capacity</i>	<i>Tank used to store water for drill and negate need for water lines</i>
<i>Water truck (1-2)</i>	<i>Approximately 7 to 8 tonnes</i>	<i>Transport water to water tank for use by drill</i>
<i>D-6 Dozer (Up to 3 additional, 4 total)</i>	<i>Approximately 14 tonnes</i>	<i>For moving drills and equipment</i>
<i>D-8 Dozer (1-2)</i>	<i>Approximately 18 tonnes</i>	<i>For moving drills and equipment</i>
<i>Marooka 800 or Nodwell (1-3)</i>	<i>Approximately 10 tonnes fully loaded</i>	<i>For moving drills and equipment</i>
<i>Skidders (1-3)</i>	<i>Approximately 8 tonnes</i>	<i>For moving drills and equipment</i>
<i>Snowcat with 8-way snow plow (1-2)</i>		<i>For clearing roads and trails in winter</i>
<i>1/2 ton to 1.5-ton 4x4 wheel drive trucks</i>	<i>Approximately 3 to 6 tonnes depending on type and load</i>	<i>For moving personnel, light weight drill supplies, fuel and drill core</i>
<i>3/4-ton 4x4 wheel drive trucks with 6-way snow plough (2-3)</i>	<i>Approximately 5 to 6 tonnes depending on type and load</i>	<i>For clearing roads and trails in winter</i>
<i>1 tonne dump truck</i>	<i>Approximately 12 tonnes</i>	<i>Moving materials</i>
<i>Excavator or backhoe (1-2)</i>	<i>Approximately 5 to 15 tonnes depending on type</i>	<i>Digging of pits for disposal of cuttings.</i>
<i>Flatbed transport truck (1-4)</i>	<i>Approximately 20 to 30 tonnes depending on load</i>	<i>Transport drill to site on road for drop off at start of trail to drill</i>
<i>Snow machines with small sleds (Up to 6 additional – 8 total)</i>	<i>Approximately 100 to 250kg</i>	<i>Needed for locating drill sites, transporting crews to drill, and other work in winter</i>
<i>Quads (Up to 6 additional – 8 total)</i>	<i>Approximately 150 to 200kg</i>	<i>Needed for locating drill sites, transporting crews to drill, and other work</i>
<i>Cabodas (1-2)</i>	<i>Approximately 1 tonne</i>	<i>Needed for locating drill sites, transporting crews to drill, and other work</i>
<i>Argos</i>	<i>Approximately 500 to 1,000 kg</i>	<i>Transport crew and light supplies to drill to minimize impact on ground</i>
<i>Swamp Buggies</i>	<i>Approximately 13 tonnes</i>	<i>Transport crew and light supplies to drill to minimize impact on ground</i>
<i>Loader (Up to 3 additional, 4 total)</i>	<i>Approximately 4 tonnes</i>	<i>Unloading cutting tanks, drill core, etc. from truck for disposal or storage</i>

Additional Equipment (June 20, 2018):

<b>Type and number</b>	<b>Purpose</b>
Skid or track mounted surface diamond drills or RC drills of types 25HH, 30HH, LF70, LF90, or equivalent (1-9)	To carry out drilling
Sloop for Equipment (1-9)	Carry drill rods, bits and consumables to drill
Equipment and supply shack (1-9)	Optional shack for storage of spares and tools for drill, plus additional warm area for crew in winter
Electric and diesel powered water pumps with water line (1 - 9)	Provide water for the drill rig
Insulated pump shack with fuel tank and/or propane bottles (1-9)	Required during winter conditions to keep water pump and water lines from freezing Required during winter conditions when water pump is further away from drill to keep water pump and water lines from freezing
Drill cuttings tanks (1-9)	Used to collect drill cuttings and allow future burial/covering in a pit or natural depression
Water storage tanks (1 - 12)	Tank used to store water for drill and negate need for water lines
Water truck (1-6)	Transport water to water tank for use by drill
D-6 Dozer (1-3)	For moving drills and equipment
D-8 Dozer (1-2)	For moving drills and equipment
Marooka 800 or Nodwell (1-9)	For moving drills and equipment
Snowcat with 8-way snow plow (1-2)	For clearing roads and trails in winter
1/2 ton to 1.5 ton 4x4 wheel drive trucks (1-25)	For moving personnel, light weight drill supplies, fuel and drill core
3/4 ton 4x4 wheel drive trucks with 6- way snow plough (1 - 2)	For clearing roads and trails in winter
Dump Truck (1 - 2)	Moving materials
Excavator or backhoe (1-2)	Digging of pits for disposal of cuttings.
Flatbed transport truck (1 - 3)	Transport drill to site on road for drop off at start of trail to drill
Snow machines with small sleds (1-8)	Needed for locating drill sites, transporting crews to drill, and other work in winter
Quads (1-8)	Needed for locating drill sites, transporting crews to drill, and other work
Kabotas (1-2)	Needed for locating drill sites, transporting crews to drill, and other work
Argos (1- 8)	Transport crew and light supplies to drill to minimize impact on ground
Swamp Buggies (1-2)	Transport crew and light supplies to drill to minimize impact on ground
Loader (1-4)	Unloading cutting tanks, drill core, etc. from truck for disposal or storage
Generators (1-10)	Supply power for lighting, pumps and small tools at each drill. On additional for medic truck for power, lighting, radio, and heat.
Graders (1- 2)	Plow snow in winter and grade main roads in summer, as needed.
Bobcats or equivalent (1- 6)	Clear brush, plough snow, lift pallets. Functional attachments may be used.

**Scope**

- a) Use of heavy machinery and vehicles;
- b) Mineral exploration, including diamond drilling;
- c) Construction and maintenance of a camp; and
- d) Fuel storage.

Additional scope June 20, 2018

- e) Withdrawal of water for diamond drilling; and
- f) Deposit of drilling waste into sumps.

**Type of Disposition**

Disposition Number(s)

Mineral Claims and Mineral Leases

Previously Screened leases and claims:  
*Mining leases: 4858, 4859, 4860, 4861, 4862, 4863, 4864, 4865, 4866, 4867, 4868, 4869, 4870, 4871, 4872, 4873, 5239, 5240, 5241, 5242, 5243, 5244, 5245, 5246, 5247, 5248, 5249, 5250, 5251, 5252, 5253, 5254, 5255, 5256, 5257, 5258, 5259, 5260, 5261, 5262.*  
*Surface leases: 85B/11-15-2, 85B/11-16-2, 85B/11-18-2, and 85B/11-19-2.*  
*Mineral Claims: D1-K15913 D2-K15914, D3-K15915, D4-K15917, and D5-K15916.*  
October 12, 2017 Screening:  
 D6-M10298; D7-M10297; D8 - MI0296; D9-MI0299; D10-M10300;  
 D11- MI0301; D12-MI0302; D13-M10303

June 20, 2018 Screening:  
 No additional claims or leases

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

**Principal Activities (related to scoping)**

(CHECK ALL THAT APPLY)

- |  |   |  |
|--|---|--|
| <input checked="" 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 checked="" type="checkbox"/> Operation    | <input 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 checked="" type="checkbox"/> Water Intake |   |  |
| <input type="checkbox"/> Other:                  |   |  |

**Principal Development Components (related to scoping)**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Access Road                                | <input checked="" type="checkbox"/> Waste Management       |
| <input checked="" type="checkbox"/> construction                               | <input type="checkbox"/> disposal of hazardous waste       |
| <input type="checkbox"/> abandonment/removal                                   | <input checked="" type="checkbox"/> waste generation       |
| <input checked="" type="checkbox"/> modification e.g., widening, straightening | <input checked="" type="checkbox"/> sewage                 |
| <input checked="" type="checkbox"/> Automobile, Aircraft or Vessel Movement    | <input checked="" type="checkbox"/> disposal of sewage     |
| <input type="checkbox"/> Blasting  | <input checked="" type="checkbox"/> Geoscientific Sampling |
| <input checked="" type="checkbox"/> Building                                   | <input type="checkbox"/> Trenching                         |
| <input checked="" type="checkbox"/> Burning                                    | <input checked="" type="checkbox"/> Diamond drill          |
| <input type="checkbox"/> Burying   | <input checked="" type="checkbox"/> Borehole core sampling |
| <input type="checkbox"/> Channelling   | <input type="checkbox"/> Bulk soil sampling                |
| <input type="checkbox"/> Cut and Fill  | <input type="checkbox"/> gravel                            |
| <input checked="" type="checkbox"/> Cutting of Trees or Removal of Vegetation  | <input type="checkbox"/> hydrological Testing              |
| <input type="checkbox"/> Dams and Impoundments                                 | <input type="checkbox"/> Site Restoration                  |
| <input type="checkbox"/> construction  | <input type="checkbox"/> fertilization                     |
| <input type="checkbox"/> abandonment/removal                                   | <input type="checkbox"/> grubbing                          |
| <input type="checkbox"/> modification  | <input type="checkbox"/> planting/seeding                  |
| <input type="checkbox"/> Ditch Construction                                    | <input type="checkbox"/> reforestation                     |
| <input type="checkbox"/> Drainage Alteration                                   | <input type="checkbox"/> scarify                           |
| <input checked="" type="checkbox"/> Drilling other than Geoscientific          | <input type="checkbox"/> spraying                          |
| <input type="checkbox"/> Ecological Surveys                                    | <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**

85B10, 85B11, 85B14, 85B15, 85B16

**Latitude / Longitude and UTM System:**

-114.771°, 60.765083°

-114.320583°, 60.891°

**Nearest Community and Water Body:**

Hay River, Fort Resolution, Buffalo River, Great Slave Lake

**Land Status (*consultation information*)**

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

**Transboundary/Transregional Implications**

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

**Type of Transboundary Implication:**       Impact / Effect       Development

Public Concern: \_\_\_\_\_  
(DESCRIBE)

**PHYSICAL - CHEMICAL EFFECTS**

**IMPACT**

**1) Ground Water**

- water table alteration
- water quality changes

**MITIGATION**

Previously Screened Activities:

July 2, 2009

*There is the potential for drill cuttings and sludges, returned water from drilling activities, and/or fuel to enter the groundwater in the area. Mitigation includes: the containment of returned water in natural depressions, the burial of drill cuttings/sludges in sumps located away from the high water mark, and following fuel handling and spill protocols should mitigate these concerns. The sealing of artesian aquifers, when encountered, should also mitigate this impact.*

July 20, 2017:

*Additional drilling activity will increase the potential for impacts; however, mitigations remain similar to those of activities previously screened.*

June 20, 2018

The quality of the water source is unknown, the amount of water returned to groundwater is unknown. The water source could be contaminated with lead, zinc, and drill chemicals from previous operations. In response to an Information Request, PPML has provided further information on the quality of the groundwater. Impacts and mitigations are similar to activities previously screened.

infiltration changes

other:

N/A

**IMPACT**

**2) Surface Water**

**MITIGATION**

flow or level changes

Previously Screened Activities:

July 20, 2017:

*Increased drilling activity will result in larger volume of water used by drills. Following best practices outlined in the Department of Fisheries and Oceans' Protocol for Winter Water-Withdrawal from Ice-Covered Waterbodies in the NWT and NU will mitigate potential impacts related to this change.*

June 20, 2018:

Type B Water licence is triggered as drilling 2,500 holes will require more water. The water use will be limited to 299 m<sup>3</sup> per day. Water will be obtained from existing mine pits and drainage ditch. Impacts and mitigations are similar to activities previously screened.

water quality changes

Previously Screened Activities:

July 2, 2009

*There is the potential for drill cuttings and sludges, returned water from drilling activities, and/or fuel to enter the water bodies in the area. The containment of returned water in natural depressions, the burial of drill cuttings/sludges in sumps located away from the high water mark, and following fuel handling and spill protocols should mitigate these concerns. The sealing of artesian aquifers, when encountered, should also mitigate this impact.*

July 20, 2017:

*Additional drilling activity will increase the potential for impacts; however, mitigations remain similar to those of activities previously screened.*

June 20, 2018:

The quality of the water source is unknown, the amount of water returned to groundwater is unknown. The water source could be contaminated with lead, zinc, and drill chemicals from previous operations. Contaminated water could potentially flow towards Great Slave Lake. PPML provided more information regarding the quality of the groundwater in response to an Information Request. This will provide insight as to the quality of water source that can be used for drilling and minimize lower quality water being deposited. Mitigations remain similar to those of activities previously screened.

water quantity changes

Previously Screened Activities:

July 20, 2017:

*Increased drilling activity will result in larger volume of water used by drills. Following best practices outlined in the Department of Fisheries and Oceans' Protocol for Winter Water-Withdrawal from Ice-Covered Waterbodies in the NWT and NU will mitigate potential impacts related to this change.*

June 20, 2018:

Drilling 2,500 holes will require more water and triggers a Type B Water Licence (less than 300 m<sup>3</sup>/day). According to PPML's response to an Information Request dated May 15, 2018, approximately 98% of the water used for drilling will return underground. Impacts and mitigations are similar to activities previously screened.

drainage pattern changes

temperature

wetland changes/loss

other:

N/A

**IMPACT**

**3) Noise**

noise in/near water

noise increase

**MITIGATION**

Previously Screened Activities:

July 2, 2009

*Increases in noise should be limited to the immediate location of a drill and during periods of equipment/vehicle use. This should not cause any significant impact; any impact that may result will be short term and reversible.*

July 20, 2017:

*Additional drilling activity will increase the potential for impacts; however, mitigations remain similar to those of activities previously screened; no additional mitigation proposed.*

June 20, 2018

*Impacts and mitigations are similar to activities previously screened. No additional mitigation proposed.*

other:

N/A

**IMPACT**

**4) Land**

geologic structure changes

soil contamination

**MITIGATION**

Previously Screened Activities:

July 2, 2009

*There is a potential for the contamination of surrounding lands due to drill cuttings/sludges, drill return water, and/or fuel use. The containment of returned water in natural depressions, the burial of drill cuttings/sludges in sumps located away from the high water mark, and following fuel handling and spill protocols should mitigate these concerns*

July 20, 2017:

*Additional drilling activity and equipment use will increase the potential for impacts. Mitigations remain similar to those of activities previously screened. Use of drip trays under parked equipment will prevent fuel or lubricant leaks from impacting soils.*

June 20, 2018

*Quality of water source such as the existing pits and drainage ditch may be elevated in metal contents. Depositing drilling wastes into sump may lead to soil contamination. PPML provided details regarding the quality of the water source in response to an Information Request dated May 15, 2018. Minimizing the use of highly contaminated waters source will help minimize the contamination of soil. Mitigations remain similar to those of activities previously screened.*

buffer zone loss

soil compaction and settling

Previously Screened Activities:

July 20, 2017:

*Heavy equipment use on wet or unprepared surfaces could result in rutting/soil compaction. Preparing ground surfaces appropriately for heavy equipment use, using existing roads where possible, and suspending activity at the first sign of rutting will mitigate this potential impact.*



June 20, 2018

Impacts and mitigations are similar to activities previously screened.

destabilization/erosion

Previously Screened Activities:

July 20, 2017:

*Heavy equipment use on wet or unprepared surfaces could result in rutting/soil compaction. Preparing ground surfaces appropriately for heavy equipment use, using existing roads where possible, and suspending activity at the first sign of rutting will mitigate this potential impact.*

June 20, 2018

Impacts and mitigations are similar to activities previously screened.

permafrost regime alteration

Previously Screened Activities:

July 20, 2017:

*Heavy equipment use on wet or unprepared surfaces could result in rutting/soil compaction. Preparing ground surfaces appropriately for heavy equipment use, using existing roads where possible, and suspending activity at the first sign of rutting will mitigate this potential impact.*

June 20, 2018

Impacts and mitigations are similar to activities previously screened.

explosives/scarring

other:

N/A

**IMPACT**

**5) Non-Renewable Natural Resources**

**MITIGATION**

resource depletion

other:

N/A

**IMPACT**

**6) Air/Climate/Atmosphere**

**MITIGATION**

other:

Previously Screened Activities:

July 2, 2009

*There will be localized emissions from the equipment usage associated with the operation of light and heavy equipment. This impact is expected to be short term and reversible. No mitigation.*

July 20, 2017:

*Additional drilling activity and equipment use will increase emissions associated with the project. No mitigation is proposed for this impact.*

June 20, 2018

Impacts and mitigations are similar to activities previously screened.

N/A

**BIOLOGICAL ENVIRONMENT**

**IMPACT**

**1) Vegetation**

**MITIGATION**

species composition

- species introduction
- toxin/heavy accumulation
- other:
- N/A

**IMPACT**

**2) Wildlife & Fish**

- effects on rare, threatened or endangered species

**MITIGATION**

Previously Screened Activities:

July 2, 2009 (previously screened activities)

*As stated in GNWT-ENR's public review comments, the Species at Risk or COSEWIC listed species that may be encountered in this area include woodland caribou (boreal population), wolverine, rusty blackbird, and short-eared owl. Mitigation includes proper handling of waste/garbage.*

July 20, 2017:

*Increased drilling and equipment use could result in impacts to species at risk or endangered species. Granting right-of-way to wildlife, proper waste handling techniques, minimizing areas cleared, and following best practices for reducing impacts to wildlife will help to mitigate these impacts.*

June 20, 2018

As stated in ECCC's public review comments, the Terrestrial Species at Risk that may be encountered include common nighthawk, olive-sided flycatcher, caribou (Boreal population), yellow rail, rusty blackbird, short-eared owl, gypsy cuckoo bumble bee, little brown myotis, bank swallow, barn swallow, horned grebe (western population), rednecked phalarope, transverse lady beetle, wolverine, yellow-banded bumble bee.

Increased drilling activities could increase the impacts on species at risk. However, GNWT is of the opinion that the likelihood of impacts is minimal. Impacts and mitigations are similar to activities previously screened.

- fish population changes

Previously Screened Activities:

July 20, 2017:

*Fish could potentially be killed by entrainment in water intakes, or due to excessive drawdown of ice-covered water bodies. Observing best practices for total water withdrawal from a single waterbody in accordance with the Department of Fisheries and Oceans' Protocol for Winter Water-Withdrawal from Ice-Covered Waterbodies in the NWT and NU, and installation of a fish screen on water intakes in accordance with the Department of Fisheries and Oceans' Freshwater Intake End-of-Pipe Fish Screen Guidelines, and Fish Screen Design Criteria for Flood and Water Truck Pump will mitigate these potential impacts.*

June 20, 2018

Water will be taken from existing infrastructure e.g. pit lakes and drainage ditches. Impacts and mitigation are similar to activities previously screened.

- waterfowl population changes

Previously Screened Activities:

July 20, 2017:

*Increased drilling and equipment use could potentially impact waterfowl nesting activities. Avoiding nesting birds and observing best practices in accordance with Paragraph 6(a) of the Migratory Bird Regulations, pursuant to the Migratory Birds Convention Act will mitigate this potential impact.*

June 20, 2018

Impacts and mitigations are similar to activities previously screened.

- breeding disturbance

Previously Screened Activities:

July 20, 2017:

*Increased drilling and equipment use could potentially impact waterfowl nesting activities. Avoiding nesting birds and observing best practices in accordance with Paragraph 6(a) of the Migratory Bird Regulations, pursuant to the Migratory Birds Convention Act will mitigate this potential impact.*

June 20, 2018

Clearing of vegetations during nesting season for migratory birds could harm and disturb nests and eggs. If active nests are discovered, all disruptive activities in the nesting area should be halted until nesting is completed. Other options include avoiding, adapting, rescheduling, or relocating activities should be considered. PPML will be clearing mostly previously disturbed lands, thus the impacts may be minimal. PPML has committed to not directly disturbed breeding birds. Impacts and mitigations are similar to activities previously screened.

- population reduction
- species diversity change
- health changes
- behavioural changes

Previously Screened Activities:

July 2, 2009:

*Camp activities associated with this Land Use Permit may attract wildlife to the area. Proper waste disposal techniques should reduce the wildlife attractants. Caribou, moose, and other wildlife may avoid the area due to drilling activity. Mitigation includes proper handling of waste/garbage.*

July 20, 2017:

*A slightly larger camp will result in increased garbage generation, however no additional mitigation above what has been previously screened is necessary. Increased drilling and equipment use could result in behavioural changes of wildlife. Granting right-of-way to wildlife, minimizing areas cleared, and following best practices for reducing impacts to wildlife will help to mitigate these impacts.*

June 20, 2018

Although there are no new camps proposed. PPML will follow NWT recommendations to limit wildlife attractions e.g. field lunches will be stored properly to prevent wildlife access. Impacts and mitigations are similar to activities previously screened.

- habitat changes / effects

Previously Screened Activities:

July 2, 2009

*Environment Canada has noted that there is a potential for "chemicals, fuel or wastes associated with the proposed Land Use Permit application may enter waters frequented by fish". This concern is mitigated through land use permit conditions.*

July 20, 2017:

*Increased drilling activity and heavy equipment use could result in impacts to wildlife habitat. Minimizing areas cleared, avoiding bear dens, and taking all reasonable measures to avoid damage to wildlife habitat will mitigate potential impacts.*

June 20, 2018

Activities are on previously disturbed land (Brownfield). Cleared area for trails will be maximum of 8 ha. Impacts and mitigations are similar to activities previously screened.

- game species effects
- toxins/ heavy metals

forestry changes

Previously Screened Activities:

July 2, 2009

*There may be some removal of trees during this project to allow for access trail construction, helicopter landing areas, camp construction, and drill site preparation. No mitigation.*

June 20, 2018

Maximum clearing of trails will be 8 ha. PPML has committed to use existing trails and cutline will be used to the greatest extent. No mitigations other than natural vegetation.

agricultural changes

other:

N/A

**INTERACTING ENVIRONMENT**

**IMPACT**

**1) Habitat and Communities**

**MITIGATION**

predator-prey

wildlife habitat/ecosystem composition changes

Previously Screened Activities:

July 20, 2017:

*Increased drilling activity and heavy equipment use could result in impacts to wildlife habitat. Minimizing areas cleared, avoiding bear dens, and taking all reasonable measures to avoid damage to wildlife habitat will mitigate potential impacts.*

June 20, 2018

Confirmation drilling is on previously disturbed area. Impacts and mitigations are similar to activities previously screened.

reduction/removal of keystone or endangered species

removal of wildlife corridor or buffer zone

Previously Screened Activities:

July 20, 2017:

*Construction of right-of-ways could result in reduction or removal of wildlife corridors. Using existing right-of-ways wherever possible, reducing the width of right-of-ways, not constructing parallel roads, and maintaining buffer zones around watercourses and public roads will mitigate these potential impacts.*

June 20, 2018

PPML has committed to clearing trails on previously disturbed land to the greatest extent. Impacts and mitigations are similar to activities previously screened.

other:

N/A

**IMPACT**

**2) Social and Economic**

**MITIGATION**

planning/zoning changes or conflicts

increase in urban facilities or services use

June 20, 2018

Deposit of waste at municipal facilities may burden community as small community do not have the capacity to accept extra waste. Waste should not be accepted at the Hamlet of Fort

Resolution to mitigate this risk.

- rental house
- airport operations/capacity changes
- human health hazard
- impair the recreational use of water or aesthetic quality
- affect water use for other purposes

June 20, 2018

Teck Metals holds a Licence MV2017L2-0007 to treat water north east of PPML’s project area, and it has surface water monitoring stations that spread across north of the PPML’s project area towards Great Slave Lake. PPML’s drilling exploration program could potentially impact Teck Metals’ surface water monitoring results as the general water flow is towards Great Slave Lake. PPML engaged with Teck Metals during pre-application engagement and did not express concerns with PPML’s exploration program.

- affect other land use operations

Previously Screened Activities:

July 20, 2017:

*Timberworks Inc. holds Land Use Permit MV2015W0011 for timber harvesting operations in the area. This land use operation could potentially reduce timber resources associated with MV2015W0011. Communicating with Timberworks as the land-use-operation progresses, minimizing areas cleared, minimizing the width of right-of-ways and using existing roads where possible will mitigate this potential impact.*

June 20, 2018

Traffic may increase with additional drilling and affect nearby authorizations including MV2017X0016 (remediation of contaminants), MV2014Q0019 (quarrying), MV2016Q0014 (quarrying), and MV2016X0020 (construction of arena). No mitigation proposed.

- quality of life changes
- public concern
- other:

Previously Screened Activities:

July 2, 2009

*DKFN has voiced concern that this project infringes on their Aboriginal and treaty rights. DKFN has requested a determination as to whether the obligation to consult with DKFN shall be exercised by the Proponent, the Crown or the MVLWB. This concern has been addressed by INAC in their determination letter dated June 8, 2009 which states that the legal duty to consult has been met.*

- 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

Previously Screened Activities:

July 20, 2017:

*Increased drilling activity and heavy equipment use in areas associated with new mineral claims*

*have the potential to impact archaeological resources. Conditions can be added to a Permit to mitigate these concerns*

June 20, 2018

Confirmation drilling is on previously disturbed areas. The impacts on archaeological resources is minimal.

increased pressure on archaeological sites

Previously Screened Activities:

July 20, 2017:

*Increased drilling activity and heavy equipment use in areas associated with new mineral claims have the potential to impact archaeological resources. Conditions can be added to a Permit to mitigate these concerns*

June 20, 2018

Confirmation drilling is on previously disturbed areas. The pressure on archaeological sites is minimal and can be mitigated.

change to or loss of aesthetically important sites

effects to aboriginal lifestyle

Previously Screened Activities:

July 2, 2009

*DKFN has voiced concern that this project infringes on their Aboriginal and treaty rights. DKFN has requested a determination as to whether the obligation to consult with DKFN shall be exercised by the Proponent, the Crown or the MVLWB. This concern has been addressed by INAC in their determination letter dated June 8, 2009 which states that the legal duty to consult has been met.*

other:

N/A

**NOTES:**

Consultation

- Pursuant to section 27, subsections (a) and (b) of the **Deh Cho First Nations** (DCFN) Interim Measures Agreement, the MVLWB 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.
- Pursuant to section 1.6, subsections (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.
- 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.

**Preliminary Screener / Referring Body Information**

Akaitcho IMA Implementation Office	Golder Associates
Athabasca Denesuline Council CO Prince Albert Cou	Hamlet of Fort Resolution
Bathurst Inlet Development Ltd.	INAC - CARD
Bathurst Inlet Lodge	INAC - NWT Inspectors
BNT Gold Resources Ltd.	Katloodeeche First Nation
CanNor NWT Region	Lutsel K'e Dene First Nation - Chief or Wildlife, Lands and Environment
City of Yellowknife	Mackenzie Valley Environmental Impact Review Board
Dene Nation	Manitoba Denesuline
Deninu K'ue First Nation	MVLWB
Det'on Cho Corporation	National Energy Board
Environment and Climate Change Canada	North Slave Metis Alliance
Fisheries and Oceans Canada	Northwest Territory Metis Nation
GNWT - ECE	NWT & Nunavut Chamber of Mines
GNWT - ENR	NWT- OROGO
GNWT - ENR - North Slave Region	Salt River First Nation
GNWT - ENR - South Slave Region - Fort Smith	Smith's Landing First Nation
GNWT - Health	Snap Lake Environmental Monitoring Agency - SLEMA
GNWT - INF	Tlicho Government
GNWT - ITI	Tlicho Lands Protection Department
GNWT - Lands	Town of Fort Smith
GNWT - Lands - Hay River Region	Wek' eezhii Renewable Resources Board
GNWT - Lands - North Slave Region	West Point First Nation
GNWT - Lands - South Slave Region - Fort Smith	WLWB
GNWT - MACA	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 Pine Point Mining Limited’s March 26, 2018 Applications for MV2018C0005 and MV2018L2-0003, Mineral Exploration 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 on the environment can be mitigated through existing Land Use Permit conditions.

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 Application can proceed with the regulatory process, and an amended Permit be presented to the Board for decision.

<b>Preliminary Screening Decision</b>	
<input checked="" type="checkbox"/>	<b>Outside Local Government Boundaries</b>
<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"/>	<b>Wholly Within Local Government Boundaries</b>
<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

June 20, 2018

**Signatures**

Mavis Cli-Michaud, Chair