### ESS Group: Permafrost

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S11</td>
<td>N3-Soil-118</td>
<td>Permafrost</td>
<td>Site: 99 to 100</td>
<td>E-414255</td>
<td>E-412983</td>
<td>14N</td>
<td>1955 m</td>
</tr>
<tr>
<td>N3-S11</td>
<td>N3-Soil-119</td>
<td>Permafrost</td>
<td>Site: 103 to 104</td>
<td>E-412395</td>
<td>E-412233</td>
<td>14N</td>
<td>205 m</td>
</tr>
<tr>
<td>N3-S11</td>
<td>N3-Soil-119</td>
<td>Permafrost</td>
<td>Site: 105 to 106</td>
<td>E-411215</td>
<td>E-411945</td>
<td>14N</td>
<td>484 m</td>
</tr>
</tbody>
</table>

**Potential Effects:**
Melting or loss of permafrost due to disturbance of the active layer

**Specific Mitigation:**
- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes
- Maintain shrub and herbaceous vegetation to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Implement erosion protection before commencing construction in accordance with Erosion/Sediment Control Plan

### ESS Group: Food/Medicinal

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S11</td>
<td>N3-RUse-200</td>
<td>Medicine gathering</td>
<td>Site: 101 to 102</td>
<td>E-413259</td>
<td>E-409315</td>
<td>14N</td>
<td>6178 m</td>
</tr>
</tbody>
</table>

**Potential Effects:**
Loss of vegetation as a result of clearing, construction, maintenance and decommissioning activities.

**Specific Mitigation:**
- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Maintain surface disturbance around the site to the extent possible
- Remove trees by low-disturbance methods
- No Herbicide to be applied during construction
- Confine vehicle traffic to established trails to the extent possible

### ESS Group: Forestry

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S11</td>
<td>N3-RUse-300</td>
<td>ATK-65 Common rail</td>
<td>Site: 97 to 98</td>
<td>E-414445</td>
<td>E-409094</td>
<td>14N</td>
<td>8382 m</td>
</tr>
</tbody>
</table>

**Potential Effects:**
Potential to disrupt access to fuel wood area

**Specific Mitigation:**
- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Avoid surface damage to and obstruction of access route
- Make fuel wood from ROW clearing available to local community where demand exists

**MAP NUMBER:** 137
**ESS Group: Permafrost**

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S12</td>
<td>N3-Soils-120</td>
<td>Permafrost</td>
<td>Site: 109 to 110</td>
<td>E-408906</td>
<td>E-408645</td>
<td>14N</td>
<td>633 m</td>
</tr>
</tbody>
</table>

**Potential Effects:**
Melting or loss of permafrost due to disturbance of the active layer

**Specific Mitigation:**
- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes
- Maintain shrub and herbaceous vegetation to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Implement erosion protection before commencing construction in accordance with Erosion/Sediment Control Plan

**ESS Group: Forestry**

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S11</td>
<td>N3-RUse-300</td>
<td>ATX-65 Cormorant</td>
<td>Site: 97 to 98</td>
<td>E-414445</td>
<td>E-409094</td>
<td>14N</td>
<td>838m</td>
</tr>
<tr>
<td>N3-S12</td>
<td>N3-RUse-300</td>
<td>ATX-65 Cormorant</td>
<td>Site: 107 to 108</td>
<td>E-605094</td>
<td>E-607562</td>
<td>14N</td>
<td>1753m</td>
</tr>
</tbody>
</table>

**Potential Effects:**
Potential to disrupt access to fuel wood area

**Specific Mitigation:**
- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Avoid surface damage to and obstruction of access route
- Halve fuel wood from ROW clearing available to local community where demand exists

**ESS Group: Food/Medicinal**

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S11</td>
<td>N3-RUse-200</td>
<td>Medicine gathering</td>
<td>Site: 101 to 102</td>
<td>E-413259</td>
<td>E-409315</td>
<td>14N</td>
<td>6178 m</td>
</tr>
</tbody>
</table>

**Potential Effects:**
Loss of vegetation as a result of clearing, construction, maintenance and decommissioning activities.

**Specific Mitigation:**
- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Maintain surface disturbance around the site to the extent possible
- Remove trees by low-disturbance methods
- No Herbicide to be applied during construction
- Confine vehicle traffic to established trails to the extent possible

**MAP NUMBER:** 138
ESS Group: Forestry

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S12</td>
<td>N3-RUtse-300</td>
<td>ATK-65 Cormorant</td>
<td>Site: 107 to 108</td>
<td>E-407094</td>
<td>E-407529</td>
<td>14N</td>
<td>1753m</td>
</tr>
</tbody>
</table>

**Potential Effects:**
Potential to disrupt access to fuel wood areas

**Specific Mitigation:**
- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Avoid surface damage to and obstruction of access route
- Make fuel wood from ROW clearing available to local community where demand exists

ESS Group: Permafrost

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S12</td>
<td>N3-Solls-120</td>
<td>Permafrost</td>
<td>Site: 109 to 1:0</td>
<td>N-6008207</td>
<td>N-6007920</td>
<td>14N</td>
<td>633 m</td>
</tr>
<tr>
<td>N3-S12</td>
<td>N3-Solls-121</td>
<td>Permafrost</td>
<td>Site: 111 to 1:2</td>
<td>N-6075556</td>
<td>N-607441</td>
<td>14N</td>
<td>254 m</td>
</tr>
</tbody>
</table>

**Potential Effects:**
Melting or loss of permafrost due to disturbance of the active layer

**Specific Mitigation:**
- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes
- Maintain shrub and herbaceous vegetation to the extent possible
- Remove trees by low-disturbance methods
- Confiny vehicle traffic to established trails to the extent possible
- Implement erosion protection before commencing construction in accordance with Erosion/Sediment Control Plan
ESS Group: Water Crossing

<table>
<thead>
<tr>
<th>Sec-Seq ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Easting</th>
<th>Northing</th>
<th>UTM Zone</th>
<th>Channel Width</th>
<th>Wet Width</th>
<th>Fish Habitat Class</th>
<th>Habitat Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S12</td>
<td>5-AQUI 113</td>
<td>Unnamed Tributary of Frog Creek</td>
<td>404756</td>
<td>6006114</td>
<td>14N</td>
<td>N/A</td>
<td>5m</td>
<td>Moderate</td>
<td>Marginal</td>
</tr>
<tr>
<td>N3-S12</td>
<td>N3-AQUI 114</td>
<td>Unnamed Tributary into Frog Creek</td>
<td>404124</td>
<td>6005794</td>
<td>14N</td>
<td>N/A</td>
<td>5m</td>
<td>Low</td>
<td>Marginal</td>
</tr>
</tbody>
</table>

Potential Effects:
Habitat loss and contamination from structure foundations & installation; increased erosion & sedimentation of streams; Damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Rutting of roadway.

Specific Mitigation:
- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion.
- Use existing trails, roads or cut lines whenever possible as access routes.
- Identify and flag buffer areas prior to start of work.
- Riparian Buffers shall be a minimum of 30m and increase in size based on slope of land entering waterway. Within those buffers shrub and herbaceous understory vegetation will be maintained along with trees that do not violate H1 V1 Clearing Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- No large works or felling from April 1 - July 15.

ESS Group: Permafrost

<table>
<thead>
<tr>
<th>Sec-Seq ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S12</td>
<td>N5-S112</td>
<td>Permafrost</td>
<td>Site: 113 to 1:4</td>
<td>E-404808 N-6008133</td>
<td>E-404563 N-6005758</td>
<td>14N</td>
<td>834m</td>
</tr>
<tr>
<td>N3-S12</td>
<td>N5-S112</td>
<td>Permafrost</td>
<td>Site: 115 to 1:6</td>
<td>E-403781 N-6005613</td>
<td>E-402453 N-6004911</td>
<td>14N</td>
<td>1488m</td>
</tr>
</tbody>
</table>

Potential Effects:
Melting or loss of permafrost due to disturbance of the active layer.

Specific Mitigation:
- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes.
- Maintain shrub and herbaceous vegetation to the extent possible.
- Remove trees by low-disturbance methods
- Confining vehicle traffic to established trails to the extent possible
- Implement erosion protection before commencing construction in accordance with Erosion/Sediment Control Plan.
ESS Group: Water Crossing

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S12</td>
<td>N3-L165</td>
<td>Kipp Creek</td>
<td>Site: 117 to 119</td>
<td>E-399755</td>
<td>E-386710</td>
<td>U4N</td>
<td>14619m</td>
</tr>
</tbody>
</table>

Potential Effects:

Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; Damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Rutting of floodplain

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion
- Use existing trails, roads or cut lines whenever possible as access routes
- Identify and flag buffer areas prior to start of work
- Riparian Buffers shall be a minimum of 30m and increase in size based on slope of land entering waterway. Within these buffers shrub and herbaceous understory veg will be maintained along with trees that do not violate NH veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- No instream works or fording from April 1 - July 15

ESS Group: Conservation

Potential Effects:

Potential disruption to resource use activities

Specific Mitigation:

- Must not place food for the purpose of attracting, feeding or holding bears
- All project staff must record all bears encountered/observed on a daily basis, any observations of bears or bear tracks must be reported to the MH Site Environmental Officer or MH Environmental Inspector
- All garbage must be stored in bear proof containers or within electric fencing and removed from Wildlife Management Areas
- Clearing within the ROW will be kept to a minimum and with non-hazard trees removed. Any trees that are cleared must be cut, piled and burned under safe conditions.
- Carry out construction activities on well frozen ground in wetlands.
ESS Group: Water Crossing

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Easting</th>
<th>Northing</th>
<th>UTM Zone</th>
<th>Channel Width</th>
<th>Wet Width</th>
<th>Fish Habitat Class</th>
<th>Habitat Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S12</td>
<td>N3-Aqua-116</td>
<td>Unnamed Headwater or Side Tributaries into Frog Creek</td>
<td>397138</td>
<td>6002256</td>
<td>14N</td>
<td>N/A</td>
<td>N/A</td>
<td>Low</td>
<td>No Fish Habitat</td>
</tr>
<tr>
<td>N3-S12</td>
<td>N3-Aqua-117</td>
<td>Unnamed Headwater or Side Tributaries into Little Frog Creek</td>
<td>395976</td>
<td>6001668</td>
<td>14N</td>
<td>18m</td>
<td>N/A</td>
<td>Low</td>
<td>No Fish Habitat</td>
</tr>
<tr>
<td>N3-S12</td>
<td>N3-Aqua-118</td>
<td>Unnamed Headwater or Side Tributaries into Little Frog Creek</td>
<td>395807</td>
<td>6001582</td>
<td>14N</td>
<td>29m</td>
<td>N/A</td>
<td>Low</td>
<td>No Fish Habitat</td>
</tr>
<tr>
<td>N3-S12</td>
<td>N3-Aqua-119</td>
<td>Unnamed Headwater or Side Tributaries into Little Frog Creek</td>
<td>395519</td>
<td>6001437</td>
<td>14N</td>
<td>35m</td>
<td>N/A</td>
<td>Low</td>
<td>No Fish Habitat</td>
</tr>
<tr>
<td>N3-S12</td>
<td>N3-Aqua-120</td>
<td>Unnamed Headwater or Side Tributaries into Little Frog Creek</td>
<td>395052</td>
<td>6001200</td>
<td>14N</td>
<td>40m</td>
<td>N/A</td>
<td>Low</td>
<td>No Fish Habitat</td>
</tr>
</tbody>
</table>

Potential Effects:
- Habitat loss and contamination from structural foundations & installations; increased erosion & sedimentation of stream channels; Damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Ruttng of floodplain

Specific Mitigation:
- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion
- Use existing trails, roads or cut lines whenever possible as access routes
- Identify and flag buffer areas prior to start of work
- Riparian Buffers shall be a minimum of 3m and increase in size based on slope of land entering waterway. Within these buffers shrub and herbaceous understory veg will be maintained along with trees that do not violate NH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.

ESS Group: Conservation

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S12</td>
<td>N3-Luse-101</td>
<td>Tom Lamb WMA</td>
<td>Site: 117 to 118</td>
<td>E-397955</td>
<td>E-386710</td>
<td>N-6002645</td>
<td>N-5999004</td>
</tr>
</tbody>
</table>

Potential Effects:
- Potential disruption to resource use activities

Specific Mitigation:
- Must not place food for the purpose of attracting, feeding or holding bears
- All project staff must record all bears encountered/observed on a daily basis, any observations or bears or bear tracks must be reported to the MHI Site Environmental Officer or MHI Environmental Inspector
- All garbage must be stored in bear proof containers or within electric fencing and removed from Wildlife Management Area
- Clearing within the ROW will be kept to a minimum and with non-hazard trees removed. Any trees that are cleared must be cut, piled and burned under safe conditions.
- Carry out construction activities on well frozen ground in wetlands.

ESS Group: Birds and Habitat

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S12</td>
<td>N3-Wild-106</td>
<td>Owls</td>
<td>Site: 119 to 130</td>
<td>E-397914</td>
<td>E-397718</td>
<td>N-6002645</td>
<td>N-5999004</td>
</tr>
</tbody>
</table>

Potential Effects:
- Loss of Night Owl Habitat

Specific Mitigation:
- Maintain applicable setback during nesting and breeding limiting window
- Conduct priority assessment for bird diverters and other measures prior to transmission line stringing
- Install bird diverters or other measures at high priority sites

MAP NUMBER: 142
### ESS Group: Water Crossing

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Easting</th>
<th>Northing</th>
<th>UTM Zone</th>
<th>Channel Width</th>
<th>Wet Width</th>
<th>Fish Habitat Class</th>
<th>Habitat Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S12</td>
<td>N3-Aqua-121</td>
<td>Unnamed Headwater or Side Tributaries into Little Frog Creek</td>
<td>394105</td>
<td>6000721</td>
<td>14N</td>
<td>40m</td>
<td>N/A</td>
<td>Low</td>
<td>No Fish Habitat</td>
</tr>
<tr>
<td>N3-S12</td>
<td>N3-Aqua-122</td>
<td>Unnamed Tributary into Little Frog Creek</td>
<td>391397</td>
<td>5999349</td>
<td>14N</td>
<td>32m</td>
<td>N/A</td>
<td>Low</td>
<td>No Fish Habitat</td>
</tr>
</tbody>
</table>

**Potential Effects:**
- Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; damage to stream banks; loss of riparian vegetation; fish habitat disturbances and impacted fish movement; Valley of floodplain

**Specific Mitigation:**
- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion.
- Use existing trails, roads or cut lines wherever possible as access routes.
- Identify and flag buffer areas prior to start of work.
- Riparian buffers shall be a minimum of 20m and increase in size based on slope of land entering waterway. Within these buffers shrub and herbaceous understory veg will be maintained along with trees that do not violate MVeP Clear Zone Requirements.
- No machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.

### ESS Group: Conservation

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S12</td>
<td>N3-Use-100</td>
<td>Tom Lamb WMA</td>
<td>Site: 117 to 118</td>
<td>E-399755 N-6003576</td>
<td>E-385710 N-5996976</td>
<td>14N</td>
<td>14619 m</td>
</tr>
</tbody>
</table>

**Potential Effects:**
- Potential disruption to resource use activities.

**Specific Mitigation:**
- Must not place food for the purpose of attracting, feeding or holding bears.
- All project staff must record all bears encountered/observed on a daily basis, any observations of bears or bear tracks must be reported to the MH Site Environmental Officer or MH Environmental Inspector.
- All garbage must be stored in bear proof containers or within electric fencing and removed from Wildlife Management Area.
- Clearing within the ROW will be kept to a minimum and with non-hazard trees removed. Any trees that are cleared must be cut, piled and burned under safe conditions.
- Carry out construction activities on well frozen ground in wetlands.

### ESS Group: Birds and Habitat

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S12</td>
<td>N3-Wild-106</td>
<td>Owls</td>
<td>Site: 119 to 120</td>
<td>E-397914 N-6000704</td>
<td>E-390718 N-5996976</td>
<td>14N</td>
<td>8064m</td>
</tr>
</tbody>
</table>

**Potential Effects:**
- Loss of Night Owl Habitat

**Specific Mitigation:**
- Maintain applicable setback during nesting and breeding timing window.
- Conduct priority assessment for area avatars and other measures prior to transmission line stringing.
- Install hard diveters or other measures at high priority sites.

### ESS Group: Groundwater

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S12</td>
<td>N3-Aqua-201</td>
<td>Aquifers Vulnerable to contamination</td>
<td>Site: 121 to 122</td>
<td>E-393304 N-6003012</td>
<td>E-386710 N-5996976</td>
<td>14N</td>
<td>7389 m</td>
</tr>
</tbody>
</table>

**Potential Effects:**
- Potential groundwater contamination from a contingency event (e.g., spill)

**Specific Mitigation:**
- Marshalling yards will be located on upland sites where possible.
- An Emergency Preparedness and Spill Response Plan will be developed and an emergency response spill kit will be kept on-site at all times in case of fluid leaks or spills from machinery.
- Qualified driller with appropriate experience will be contracted to work in areas affected by artesian conditions.
- Emergency response plans for sealing/grouting and pumping will be implemented as required.
### ESS Group: Archaeological

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>UTM Zone</th>
<th>Easting</th>
<th>Northing</th>
<th>Channel Width</th>
<th>Wet Width</th>
<th>Fish Habitat Class</th>
<th>Habitat Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S12</td>
<td>N3-Hert-103</td>
<td>Cormorant Lake Petroform Site</td>
<td>389420</td>
<td>5998320</td>
<td>14N</td>
<td>35m</td>
<td>N/A</td>
<td>Low</td>
<td>No Fish Habitat</td>
</tr>
</tbody>
</table>

**Potential Effects:**
- Potential disturbance to Heritage Resources

**Specific Mitigation:**
- 10 metre buffer fencing placed around site with a second perimeter of fencing placed at 20 metres from the site within which only selective clearing will take place.
- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion.
- Identify and flag prior to start of work.
- Conduct site investigation with Archaeologist post clearing and prior to construction.
- Minimize surface disturbance around the site to the extent possible.
- Inspect excavated materials or surface disturbance for heritage resources and report any finds to Environmental Inspector.
- Implement additional mitigation from site investigation.

### ESS Group: Water Crossing

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>UTM Zone</th>
<th>Easting</th>
<th>Northing</th>
<th>Channel Width</th>
<th>Wet Width</th>
<th>Fish Habitat Class</th>
<th>Habitat Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S12</td>
<td>N3-Aqua-123</td>
<td>Unnamed Tributary into Little Frog Creek</td>
<td>119 to 120</td>
<td>389714</td>
<td>6002645</td>
<td>N-999004</td>
<td>14N</td>
<td>8064m</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Potential Effects:**
- Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Rutting of floodplain.

**Specific Mitigation:**
- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion.
- Use existing trails, roads or cut lines whenever possible as access routes.
- Identify and flag buffer areas prior to start of work.
- Riparian Buffers shall be a minimum of 30m and increase in size based on the slope of land entering waterway. Within these buffers shrub and herbaceous understory vegetation will be maintained along with trees that do not violate MH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.

### ESS Group: Conservation

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S12</td>
<td>N3-Luse-100</td>
<td>Tom Lamb WMA</td>
<td>117 to 118</td>
<td>E-399755</td>
<td>E-3865710</td>
<td>N-6003576</td>
<td>N-5996976</td>
</tr>
</tbody>
</table>

**Potential Effects:**
- Potential disruption to resource use activities

**Specific Mitigation:**
- Must not place food for the purpose of attracting, feeding or holding bears.
- All project staff must record all bears encountered/observed on a daily basis, any observations of bears or bear tracks must be reported to the MBC Site Environmental Officer or MBC Environmental Inspector.
- All garbage must be stored in bear proof containers or within electric fencing and removed from Wildlife Management Area.
- Clearing within the ROW will be kept to a minimum and with non-hazard trees removed. Any trees that are cleared must be cut, oiled and burned under safe conditions.
- Carry out construction activities on well frozen ground in wetlands.

### ESS Group: Birds and Habitat

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S12</td>
<td>N3-Wild-106</td>
<td>Owls</td>
<td>119 to 120</td>
<td>E-399714</td>
<td>E-399718</td>
<td>N-6002645</td>
<td>N-5999004</td>
</tr>
</tbody>
</table>

**Potential Effects:**
- Loss of Night Owl Habitat

**Specific Mitigation:**
- Maintain applicable setback during nesting and breeding timing window.
- Conduct priority assessment for bird diverters and other measures prior to transmission line stringing.
- Install bird diverters or other measures at high priority sites.

### ESS Group: Groundwater

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>N3-S12</td>
<td>N3-Aqua-201</td>
<td>Aquifers Vulnerable to contamination</td>
<td>122 to 124</td>
<td>E-393304</td>
<td>E-386710</td>
<td>N-6000312</td>
<td>N-5996976</td>
</tr>
</tbody>
</table>

**Potential Effects:**
- Potential groundwater contamination from a contingency event (e.g., spill)

**Specific Mitigation:**
- Marshaling yards will be located on upland sites where possible.
- An Emergency Preparedness and Spill Response Plan will be developed and an emergency response spill kit will be kept on-site at all times in case of fluid leaks or spills from machinery.
- Qualified driller with appropriate experience will be contracted to work in areas affected by artesian conditions.
- Emergency response plans for sealing/grouting and pumping will be implemented as required.

**MAP NUMBER:** 144