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>N4-S22</td>
<td>N4-Aqua-148</td>
<td>unnamed agricultural drain</td>
<td>372284</td>
<td>5798058</td>
<td>14N</td>
<td>N/A</td>
<td>N/A</td>
<td>Low</td>
<td>Marginal</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 or sum and increase in size based on slope or up stream entering waterway. Within these buffers shrub and herbaceous understory veg 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.
- No instream works or filling from April 1 - July 15

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>N4-S22</td>
<td>N4-RUSe-204</td>
<td>Plant Harvest</td>
<td>Site: 91 to 92</td>
<td>E-172348 N-5796770</td>
<td>E-372411 N-5795641</td>
<td>14N</td>
<td>1131m</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
- Minimize 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: Archaeological

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
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<th>ESS Name</th>
<th>Easting</th>
<th>Northing</th>
<th>UTM Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>N4-523</td>
<td>N4-Hent-127 Trails</td>
<td>372417</td>
<td>579-787</td>
<td>14N</td>
<td></td>
</tr>
<tr>
<td>N4-523</td>
<td>N4-Reduse-127 Trails</td>
<td>312460</td>
<td>379-284</td>
<td>14N</td>
<td></td>
</tr>
</tbody>
</table>

Potential Effects:

Potential disturbance to Heritage Darner

Specific Mitigation:

- 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 Archaeological post clearance 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: Intersection

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>Location</th>
<th>ESS Name</th>
<th>Crossing Coordinates</th>
<th>UTM Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>N4-523</td>
<td>N4-Reduse-101</td>
<td>C3</td>
<td>Access Route</td>
<td>E-372369 N-5795678</td>
<td>14N</td>
</tr>
</tbody>
</table>

Potential Effects:

Loss of historic road due to construction of access road to DW and activities associated with the DW. Loss of cultural value associated with historic events

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
- Inspect excavated materials or surface disturbance for heritage resources and report any finds to Environmental Inspector
- If any heritage resources are discovered, Archaeologist to conduct site investigation and recommend any additional mitigation measures

ESS Group: Water Crossing

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<th>Wet Width</th>
<th>Fish Habitat Class</th>
<th>Habitat Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>N4-523</td>
<td>N4-Reduse-124</td>
<td>Unnamed agricultural drain</td>
<td>372359</td>
<td>5793158</td>
<td>14N</td>
<td>N/A</td>
<td>9m</td>
<td>Low</td>
<td>marginal</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 MH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- No in stream works or fording from April 1 - July 15

ESS Group: Food/Medicinal

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<tbody>
<tr>
<td>N4-523</td>
<td>N4-Reduse-204</td>
<td>Plant Harvest</td>
<td>Site: 91 to 92</td>
<td>E-372348 N-579678</td>
<td>E-372411 N-5795641</td>
<td>14N</td>
<td>1131m</td>
</tr>
<tr>
<td>N4-523</td>
<td>N4-Reduse-204</td>
<td>Plant Harvest</td>
<td>Site: 93 to 94</td>
<td>E-372411 N-5795841</td>
<td>E-372356 N-5795028</td>
<td>14N</td>
<td>612m</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
- Minimize 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
No specific mitigation measures for this map, page intentionally left blank.
ESS Group: Forestry

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<thead>
<tr>
<th>Sec-Seg ID</th>
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</tr>
</thead>
<tbody>
<tr>
<td>N4-S25</td>
<td>N4-Ruse-301</td>
<td>Shelterbelt</td>
<td>Site: 95 to 96</td>
<td>E-375396</td>
<td>E-375484</td>
<td>14N</td>
<td>23m</td>
</tr>
</tbody>
</table>

Potential Effects:

Removal in area of ROW Intersect

Specific Mitigation:

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Inventory and tag prior to start of work
- If burning of clearcut debris is required it must be conducted during winter months only and ensure that all fires are extinguished prior to spring break-up
- Notify landowner regarding construction activities and schedule, and address concerns prior to start of work
- Use existing access trails, roads or cut lines whenever possible as access routes
- Limit all equipment to project footprint only, where possible
- No damage to Vegetation on the edge of the Right of Way
- No pushing debris into adjacent timber

ESS Group: Food/Medicinal

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</tr>
</thead>
<tbody>
<tr>
<td>N4-S25</td>
<td>N4-Ruse-205</td>
<td>Plant Harvest</td>
<td>Site: 97 to 98</td>
<td>E-376190</td>
<td>E-376815</td>
<td>14N</td>
<td>7369 m</td>
</tr>
</tbody>
</table>

Potential Effects:

Increased access for others and potential for conflict with trapline holders and current traditional users. Increased access by non-community members into culturally sensitive area.

Specific Mitigation:

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Minimize 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
**Potential Effects:**

Increased access for others and potential for conflict with trapline holders and current traditional users. Increased access by non-community members into culturally sensitive area.

**Specific Mitigation:**

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Minimize 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

**Potential Effects:**

Increased erosion and sedimentation; rutting of floodplains; loss of riparian vegetation

**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 tag 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 MH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
**ESS Group:** Cultural

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<tr>
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<th>ESS Name</th>
<th>Location Site:</th>
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</tr>
</thead>
<tbody>
<tr>
<td>N4-S25</td>
<td>N4-Ruse-205</td>
<td>Plant Harvest</td>
<td>97 to 98</td>
<td>E-376190, N-5780329</td>
<td>E-378915, N-5798049</td>
<td>14N</td>
<td>7369 m</td>
</tr>
<tr>
<td>C1-S1</td>
<td>N4-Ruse-205</td>
<td>Plant Harvest</td>
<td>104 to 106</td>
<td>E-378915, N-5780329</td>
<td>E-379494, N-5779808</td>
<td>14N</td>
<td>778 m</td>
</tr>
</tbody>
</table>

**Potential Effects:**
Increased access for others and potential for conflict with trapline holders and current traditional users. Increased access by non-community members into culturally sensitive area.

**Specific Mitigation:**

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Minimize surface disturbance around the site to the extent possible
- Remove trees by low-disturbance methods
- No herbicide to be applied during construction
- Confining vehicle traffic to established trails to the extent possible