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ESS Group: Groundwater

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: 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>S2-S40</td>
<td>S2-Aqua-206</td>
<td>Aquifers vulnerable to contamination</td>
<td>Site: 165 to 164</td>
<td>E-660940 N-5525233</td>
<td>E-650224 N-5524973</td>
<td>14N</td>
<td>18719 m</td>
</tr>
</tbody>
</table>

Potential Effects:
Wetting the surficial environment near potential discharge from tower foundation drill hole (ground saturation); also, potential level drop in the aquifer.

Specific Mitigation:
- 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.
- Follow up inspections of installed foundations will be undertaken to monitor for excess moisture.

ESS Group: Forestry

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</tr>
</thead>
<tbody>
<tr>
<td>S2-S40</td>
<td>S2-RUSe-311</td>
<td>Shelterbelt</td>
<td>Site: 167 to 168</td>
<td>E-656640 N-5525112</td>
<td>E-656633 N-5525132</td>
<td>14N</td>
<td>7 m</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.
- Identify and flag prior to start of work.
- If burning of clearing 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: 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>
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<tbody>
<tr>
<td>S2-S40</td>
<td>S2-Aqua-158</td>
<td>Unnamed Drain</td>
<td>653343</td>
<td>5524996</td>
<td>4N</td>
<td>N/A</td>
<td>N/A</td>
<td>None</td>
<td>None</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 movements; Flooding of floodplain.

Specific Mitigation:
- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion. If wet conditions, one-time flooding is permitted.
- Use existing trails, roads or cut lines whenever possible as access routes.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- Limit machinery fording of the watercourse to a one-time event (over and back) only if no alternative crossing method is available. If repeated crossings of the watercourse are necessary, prior approval from the MH Environmental Inspector is required.
- Locate crossings perpendicular to the bank, whenever possible.
- Immediately stabilize shoreline or banks disturbed by any activity associated with the project to prevent erosion and/or sedimentation, preferably through re-vegetation with native species suitable for the site.

ESS Group: Groundwater

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<tbody>
<tr>
<td>S2-S40</td>
<td>S2-Aqua-206</td>
<td>Aquifers vulnerable to contamination</td>
<td>Site: 165 to 166</td>
<td>E-660940</td>
<td>N-5525233</td>
<td>14N</td>
<td>10719m</td>
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</tbody>
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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.
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<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>S2-S41</td>
<td>S2-Aqua-206</td>
<td>Aquifers vulnerable to contamination</td>
<td>Site: 171 to 172</td>
<td>E-650224 N-5524973</td>
<td>E-649966 N-5524990</td>
<td>14N</td>
<td>258m</td>
</tr>
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<td>S2-S42</td>
<td>S2-Aqua-206</td>
<td>Aquifers vulnerable to contamination</td>
<td>Site: 173 to 174</td>
<td>E-649966 N-5524990</td>
<td>E-649616 N-5525160</td>
<td>14N</td>
<td>389m</td>
</tr>
<tr>
<td>S2-S43</td>
<td>S2-Aqua-206</td>
<td>Aquifers vulnerable to contamination</td>
<td>Site: 175 to 176</td>
<td>E-649615 N-5525160</td>
<td>E-648934 N-5525145</td>
<td>14N</td>
<td>682m</td>
</tr>
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**Potential Effects:**

Potential groundwater contamination from a contingency event (e.g., spill).

**Specific Mitigation:**

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