

MAP NUMBER : 121

ESS Group : Groundwater

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S03	N3-Aqua- 200	Aquifers Vulnerable to contamination	Site: 31 to 32	E-479552 N-6050468	E-460122 N-6044246	14N	20403m

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

ESS Group : Water Crossing

Sec- Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N3-S03	N3- Aqua- 108	Unnamed Tributary into Mitishto River	466424	6046234	14N	6m	6m	Marginal	Low

Potential Effects:

Habitat loss & contamination from structure foundations & installations; increased erosion & sedimentation of streams; damage to stream banks; loss of riparian vegetation; fish habitat disturbance & impeded fish movement

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 ٠
- 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. ٠
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Temporary Stream Crossings, Ice • Bridges and Snow Fills, and Overhead Line Construction
- No instream works or fording from April 15 July 15

ESS Group : Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S03	N3-Soils-108	Permafrost	Site: 43 to 44	E-472774 N-6048237	E-460348 N-6044317	14N	13030m

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 • Avoid organic soils containing permafrost to the extent possible
- 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



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ESS Group : Water Crossing

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N3-S03	N3- Aqua- 109	Unnamed Tributary into Mitishto River	462134	6044881	14N	7m	7m	Marginal	Low

Potential Effects:

Habitat loss & contamination from structure foundations & installations; increased erosion & sedimentation of streams; damage to stream banks; loss of riparian vegetation; fish habitat disturbance & impeded fish movement

Specific Mitigation:

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