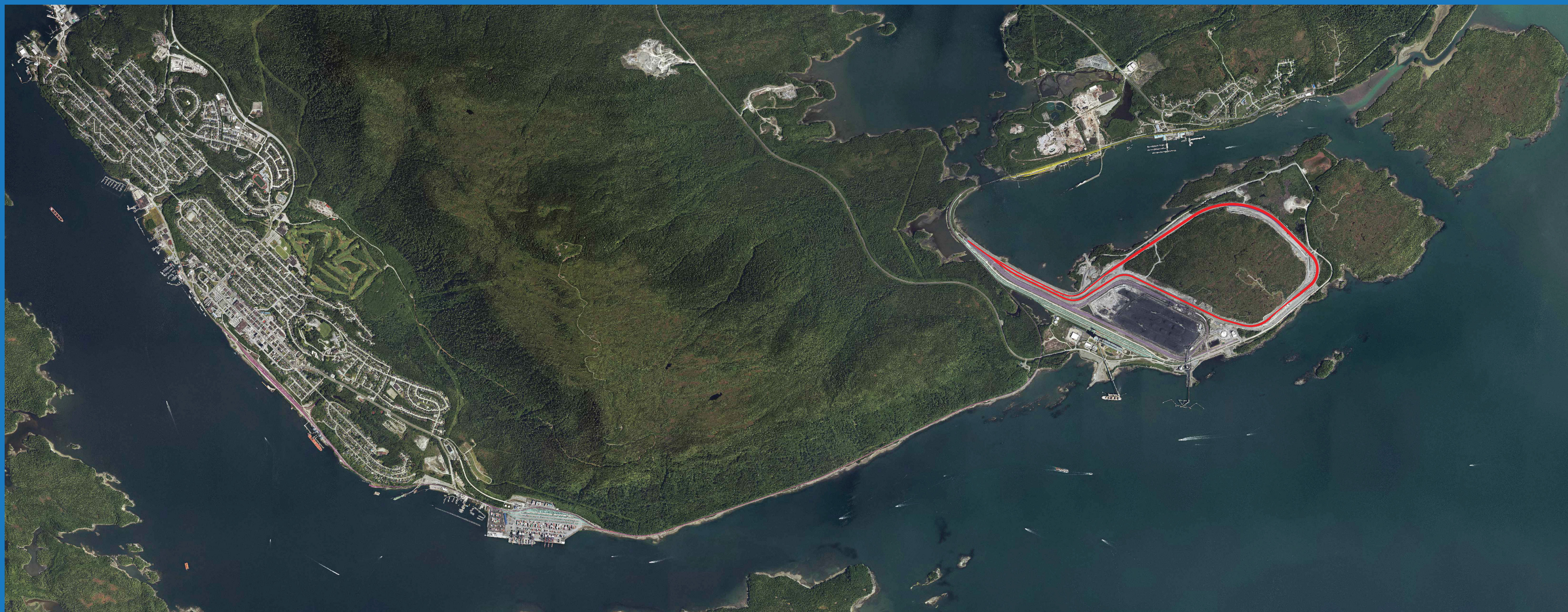


# POTENTIAL EFFECTS & MITIGATION MEASURES

Potential adverse effects resulting from the Project are expected to be minor, well understood, and able to be addressed with established and effective mitigation measures. Some of the anticipated potential effects and proposed mitigations are as follows:





## POTENTIAL ADVERSE EFFECT    INITIAL MITIGATION MEASURE

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**Increase in noise level as a result of construction activities and rail noise during operations**

- Avoid construction along the east side of Ridley Island during night-time hours and on weekends where practicable.
  - If noise complaints related to construction traffic occur, they will be logged and investigated to assess whether they are linked to Project activities.
  - Standard best management practices (e.g. internal combustion engines, quality mufflers and vehicle maintenance).
  - Rail lubricators may be advisable if wheel squeal is problematic where sharp track curves occur.
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**Loss or alteration of wildlife habitat (e.g. western toad, little brown myotis)**

- To the greatest extent possible, clearing, grading, construction, and temporary storage of materials will be limited to the Project site. Boundaries of the footprint will be clearly marked to ensure clearing does not extend beyond this.
  - Prior to vegetation clearing and grubbing there will be a search and salvage to remove western toads from the project footprint to avoid mortality of individuals. Western toads will be salvaged when they are active (January to October) and will be relocated to an appropriate site.
  - Development of a drainage and erosion control plan. These techniques may include the construction of berms to direct runoff and maintain hydrological regimes of sensitive plants and plant communities, as well as the installation of silt fences to remove suspended solids before runoff water leaves the Project site.
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**Loss or alteration of wetlands**

- Development of a wetland compensation plan.
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**Alteration, disruptions or destruction of marine fish habitat**

- Erosion Control: Erosion and runoff controls will be in place on land to minimize increases in sedimentation and turbidity in nearshore waters around the facility.
  - Water Treatment: Stormwater, wastewater, and sewage associated with the facility will be collected and treated before discharge from the site.
  - Habitat Compensation: where habitat loss cannot be avoided it will be compensated for with the rehabilitation of existing marine fish habitats and/or the creation of new habitats.
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**Disturbance or destruction of archaeological sites**

- Where removal of Culturally Modified Trees (CMT) is required stem-round samples will be collected for CMT dating purposes.
  - Systematic Data Recovery (SDR) where avoidance of terrestrial archaeological and heritage sites is not feasible.
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