

Existing Conditions, Mitigation, and Commitments

Environmental factors were assessed during the 2017 Preliminary Design Study to determine existing environmental conditions and to identify appropriate protection and mitigation measures to minimize and/or address potential impacts associated with the Baudette/Rainy River International Bridge Replacement.

Environmental issues and commitments to prevent or reduce environmental impacts will be confirmed and documented in this Detail Design phase (i.e., Design and Construction Report, Contract provisions).

The table below summarizes the factors that will be considered as the project is designed and constructed.

Factor	Issue	Commitments / Mitigation
<i>Fish, fish habitat, and species-at-risk</i>	<ul style="list-style-type: none"> Impacts to fish habitat and aquatic species-at-risk 	<ul style="list-style-type: none"> Coolwater timing window- No work in water between March 15 through July 15 Significant fisheries impacts are not anticipated Appropriate protection and mitigation measures for fish and fish habitat will be documented in contract specifications
<i>Vegetation protection and restoration</i>	<ul style="list-style-type: none"> Impacts to sensitive vegetation communities affected by construction 	<ul style="list-style-type: none"> Minimal impacts to vegetation are anticipated Vegetation protection and restoration measures (including allowable clearing windows) will be specified in contract specifications Areas will be restored to pre-existing conditions
<i>Surface water</i>	<ul style="list-style-type: none"> Drainage associated with bridge replacement Potential temporary impacts during construction 	<ul style="list-style-type: none"> Appropriate drainage and stormwater facilities planned for replacement bridge Document appropriate spill protection measures during construction in contract specifications
<i>Air quality</i>	<ul style="list-style-type: none"> Impacts to air quality during construction 	<ul style="list-style-type: none"> Identify equipment standards and operations constraints for Contractor and document in contract specifications
<i>Noise</i>	<ul style="list-style-type: none"> Temporary noise impacts during construction 	<ul style="list-style-type: none"> Identify appropriate hours of operation and work during construction in contract specifications
<i>Socio-economic environment</i>	<ul style="list-style-type: none"> Emergency service access Utilities access Property owners nearby study area 	<ul style="list-style-type: none"> Ongoing consultation with municipalities, agencies and property owners and coordination with the Town of Rainy River Consultation and coordination with EMS provider-temporary road closures of maximum 15 minute duration during construction will be allowed Notify property owners in advance of construction through notification letters and notices Meeting with public during construction
<i>Cultural environment</i>	<ul style="list-style-type: none"> No known archaeological sites directly in study area 	<ul style="list-style-type: none"> Stage 1 and Stage 2 Archaeological Assessments have determined that the study area has low potential for archaeological finds
<i>Property, waste, and contamination</i>	<ul style="list-style-type: none"> Excess materials in proximity to sensitive areas Potential for wastes to enter river during construction and decommissioning of existing bridge 	<ul style="list-style-type: none"> Document appropriate spill protection measures and contaminated soils disposal requirements during construction