

**APPENDIX 2a**

**ENVIRONMENTAL SITE ASSESSMENT SCREENING REPORT –**

**MITIGATION MEASURES FORM**

## Environmental Assessment Mitigation Monitoring Report Form

**Responsible Authority:** *Department of Fisheries and Oceans (DFO)*

**(Project Title), (Location)** *Site Remediation, Gereaux Island Light Station, Gereaux Island, Ontario*

**PWGSC Project No.** R.058533.002

**PWGSC File No.** 11506

The purpose of this record is to monitor the implementation of mitigation measures and best management practices identified in the Environmental Assessment Screening Report. It is the responsibility of the Project Manager to ensure that this record is completed over the duration of the project. This environmental Mitigation Monitoring Report form must be completed in full. Specify in the table below whether the mitigation measures and best management practices set out in the environmental assessment have been applied. If a mitigation measure has not been applied, specify the reason(s) why this was not done. **A copy of the completed Mitigation Monitoring Report form should be included in the project file and a copy must be sent to by fax or email to the Engineering Manager, Department of Fisheries and Oceans on completion of the project.**

**Furthermore** although some of the pertinent legislation, regulations, guidelines and policies are noted in the mitigation, the information is not considered necessarily complete. It is to be expected that new, amended, modified or otherwise updated legislation, regulations, guidelines and policies will come available over time. The *Consultant/Contractor* is responsible to ensure that all applicable legislation, regulations, guidelines and policies are adhered to.

### Environmental Assessment Mitigation Monitoring Report Form

Environmental Mitigation Measure	Implementation Schedule/Date	Person/Title/ Firm Responsible	Compliance (Task Complete – Yes or No/Date) If No, provide reason.
<i>Air Quality</i>			
Use new or well-maintained heavy equipment and machinery, preferably fitted with muffler/ exhaust system baffles and engine covers.			
Comply with operating specifications for heavy equipment and machinery.			
Minimize operation and idling of gas-powered equipment and vehicles, in particular, during smog advisories.			
<i>Soil Quality</i>			
Avoid using machinery on land during wet weather.			
Reduce soil compaction by restricting large machinery to the designated staging area.			
Cover any stockpiles to prevent erosion.			
Maintain effective erosion and sedimentation measures until complete re-vegetation is achieved.			
A liner is to be placed around the base of the lighthouse during demolition in order to catch any debris.			
Ensure hazardous substances (including fuel) are stored, handled and applied in a manner to prevent release to the environment.			
A spill response kit to be on-site in the event of a spill. Immediately contain and clean up any spills in accordance with provincial regulatory requirements. Report spill to the Ontario Spills Action Centre (1-800-268-6060).			

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Re-vegetate or otherwise stabilize any loose soils after construction to prevent erosion and transport (e.g., hydraulic seeding or erosion blanket seeded with native non-invasive species).			
<i>Surface Water Quality</i>			
Re-fueling and maintenance of vehicles and equipment to be carried out at pre-designated locations away from the project site and any water bodies.			
Operate and store materials and equipment in a manner that prevents deleterious substances from entering water.			
Ensure that absorbent materials are available on site in the event that a spill of deleterious substances should occur and that personnel are trained in proper procedures for use of spill kits.			
A spill response kit to be on site in the event of a spill. Immediately contain and clean up any spills in accordance with provincial regulatory requirements. Report spill to the Ontario Spills Action Centre (1-800-268-6060).			
Secure dismantled debris when transporting off the site.			
All waste materials will be collected, removed from the site and disposed of at an appropriate disposal facility.			



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Environmental Mitigation Measure	Implementation Schedule/Date	Person/Title/ Firm Responsible	Compliance (Task Complete – Yes or No/Date) If No, provide reason.
Install silt fence at bottom of the bank (closest to the lighthouse base) and as required install an additional set of silt fences half-way between the shore and the bank.			
Ensure that the stability of the slope is either not affected by the demolition or that the slope is re stabilized following on-site activities.			
Keep any waste materials temporarily stored onsite for removal by barge well inland of the waves to avoid any wash out.			
Ensure waste materials are securely covered by a tarp in transport to avoid their entry into the water.			
Install silt curtain around barge at off-loading location to limit sediment transport and facilitate clean-up in the event of a spill.			
Discourage temporary storage of impacted soil and debris at the off-loading location.			
Locate any soil stockpile created on an impervious liner or asphalt pad. Cover any soil stockpiles to prevent erosion by wind or rain.			
Locate stockpiles away from water's edge and isolate any stockpile runoff from local drainage ditches.			
Collect any stockpile runoff and analyze its quality to determine appropriate disposal options.			

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Environmental Mitigation Measure	Implementation Schedule/Date	Person/Title/ Firm Responsible	Compliance (Task Complete – Yes or No/Date) If No, provide reason.
Clean and inspect off-loading sites to ensure no impacted soil or debris remains on-site which could contaminate surroundings.			
<i>Groundwater Quality</i>			
Soils will be removed and disposed of in an appropriate manner.			
Follow "Surface Water Quality" Mitigation Measures above.			
<i>Vegetation</i>			
Minimize damage and removal of vegetation to the extent possible, including consideration of minimal trail routing.			
Reseed and plant post-remediation to boost natural succession..			
<i>Wildlife and Wildlife Habitat, including Birds</i>			
Minimize as much as possible any disturbances to wildlife habitat on site.			
<i>Acoustic Environment</i>			
Use well-maintained heavy equipment and machinery, preferably fitted with muffler/exhaust system baffles and engine covers.			
<i>Species at Risk</i>			
In the unlikely event that it is determined that project may have unexpected adverse effects on species at risk (SAR), the respective competent Minister (i.e., Environment Canada (EC) for migratory birds SAR and the Department of Fisheries and Oceans (DFO) for aquatic SAR), should be immediately notified.			



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<i>Waste Disposal</i>			
All waste generated to be disposed in a legal manner (O. Reg. 347, as amended).			
Disposal of any hazardous substances shall be done in a legal manner (i.e., O. Reg. 347, as amended) using licensed haulers and MOE-approved disposal facilities.			
<i>Health and Safety</i>			
Develop and implement a written Health and Safety Plan to identify and eliminate risks, including those associated with: - use of platforms and working at heights, including during rain/ high wind conditions or otherwise poor weather; - potential for falls; - potential for workers or public to be struck by falling tools, material or debris; - potential for worker shock or electrocution from working with power lines. - potential for worker injury from moving heavy equipment (backhoe, bobcat, etc.)			
Meet or exceed the requirements of all applicable federal and/or provincial health and safety legislation, regulations and permits (e.g., <i>Occupational Health and Safety Act</i> , etc).			
<i>Accidents and Malfunctions</i>			
Refuelling of any machinery or equipment (non-marine) not to be done within 30 m of the water or wetlands.			

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Environmental Mitigation Measure	Implementation Schedule/Date	Person/Title/ Firm Responsible	Compliance (Task Complete – Yes or No/Date) If No, provide reason.
Implement a spill prevention program. A spill response kit to be on site in the event of a spill. Immediately contain and clean up any spills in accordance with provincial regulatory requirements. Report spill to the Ontario Spills Action Centre (1-800-268-6060).			
Meet or exceed the requirements of all applicable federal and/or provincial health and safety legislation, regulations, and permits.			
Workers will wear protective gear (e.g., safety work boots, hard hats, etc.) in accordance with the <i>Occupational Health and Safety Act</i> and regulations.			
All construction areas and machinery shall be stabilized, made safe and/or secure at the end of each working day to prevent accidents to people and the environment..			

NOTES: \_\_\_\_\_

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**Completed by:**

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Firm: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**Contractor Sign-off:**

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Firm: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**Consultant Sign-off:**

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Firm: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_