

# Mitigation Measures for CN Yard Paving Project

## Section A: Project Identification

<b>Project Title</b>	CN Yard Paving and Monitoring Well Extension
<b>Project Location</b>	Southside Road, St. John's, NL
<b>Lead Authority</b>	Fisheries and Oceans – Real Property, Safety and Security (DFO RPSS)
<b>Contact name:</b>	Jackie Rodway
<b>Title:</b>	Project Officer
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<b>Other Authority(ies)</b>	N/A
<b>Contact Information (if required)</b>	N/A

## Section B: Project Description

**Project Description:** DFO RPSS propose to pave a section of the CN yard. An existing monitoring well will also be extended to account for the layer of new pavement. See attached site details.

## Section C: Resources

**Resources consulted** DFO RPSS have engaged a consultant to develop specifications and site drawings, which have been consulted.

## Section D: Mitigation Measures Requirement

Check the following box if no mitigation measures are required.

No mitigation measures are required. One or more of the following conditions apply. Continue to Section E. Do not complete Sections C or D.

If the above box is checked, please check the relevant box below indicating why no mitigation measures are required.

Potential impacts are limited to the interior of a building

There are no potential adverse biophysical and/or socio economic effects

Mitigation Measures will be required as identified below.

Section E: Identify Environmental Effects & Mitigation Measures

Environmental Effect	B.P.	S.E.	Effective and Established Mitigation Measure
<p>Extending monitoring well may result in contamination of groundwater.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p>While extending the well, all precautions should be taken to ensure no contaminated materials enter the ground well via the well.</p> <p>The top of the well should always be sealed during the extension activities.</p> <p>No toxic substances should be placed within proximity to the well.</p> <p>The well should be properly identified (e.g. flagging) to ensure there is no impact with machinery.</p>
<p>Nearby river could be impacted by deleterious run off from construction site. The river is a popular fishing area.</p>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<p>Work should be scheduled to avoid periods of heavy precipitation. Erosion control structures (temporary matting, geotextile filter fabric) are to be used, as appropriate, to prevent erosion runoff of sediment laden water during the construction phase.</p> <p>Machinery must be checked for leakage of lubricants or fuel and must be in good working order. Refuelling must be done at least 100m from any water body. Basic petroleum spill clean-up equipment should be on-site. All spills or leaks should be promptly contained, cleaned up and reported to the 24-hour environmental emergencies report system (1-800-563-9089).</p> <p>Fill material is to be free of contaminants and from an approved quarry site.</p> <p>Also refer to the Environmental Procedures noted in the project specifications.</p>
<p>Potential soil contamination (e.g. oil spill)</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p>Machinery must be checked for leakage of lubricants or fuel and must be in good working order. Refuelling must be done at least 100m from any water body. Basic petroleum spill clean-up equipment should be on-site. All spills or leaks should be promptly contained, cleaned up and reported to the 24-hour environmental emergencies report system (1-800-563-9089).</p> <p>Fill material is to be free of contaminants and from an approved quarry site.</p>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Equipment emissions can impact air quality		<p>All construction equipment must be fitted with standard and well-maintained noise suppression devices. Appropriate dust suppression methods are to be employed when required. Air filters should be used to minimize exhaust emissions.</p> <p>All municipal bylaws must be adhered to (e.g. hours of operation)</p>
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**Section F: Determination**

Taking into account implementation of mitigation measures outlined in the analysis, this project:

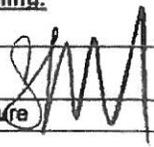
<input checked="" type="checkbox"/>	Is not likely to cause significant adverse environmental effects
<input type="checkbox"/>	Requires further analysis. Complete an Environmental Effects Evaluation (Step 3b)

**Section G: Sign-off and Approval**

Completed by:

**Comments:** the proposed work is taking place on an existing, industrial site. Paving and extending a monitoring well is a regular activity which have effective and known mitigation measures. The proposed paving (according to the site plan) is beyond 15 m of the river, thus DOEC permit to work in a waterway is not likely required.

Any required environmental permits (whether federal, provincial, municipal) must be obtained by the contractor prior to work beginning.

Shawn Kean PSPC	 Signature	5/18/2016 Date
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Sign-off and Approval:

<b>Comments:</b> Enter any additional comments you consider warranted here		
Jackie Rodway DFO RPSS	 Signature	May 19/16 Date

Attachments:

- Project Checklist
- Site Plans
- Specifications



## Appendix B: Basic Project Checklist (Step 2a)

Instructions: Complete the following checklist in order to classify a project as either basic or non-basic. Certain sections include *explanation and guidance* sections to assist Authorities in properly completing the checklist. See Step 2a of the attached guide for additional help.

### Section A: Are the expected potential impacts of this project limited to the interior of a building?

YES Basic project. Complete sections E and F and continue to complete an MMF (Step 3a)

NO Continue to Section B

#### Explanation and Guidance

*Instances where any potential impacts of a project are limited to the interior of a building are automatically deemed as unlikely to cause adverse environmental effects.*

### Biophysical Effects 5(1)a&b

### Section B: Does the project have the potential to negatively impact the environment?

YES Continue to Section B-1

NO Continue to Section C

UNKNOWN Non-Basic project. Complete sections E and F and continue to complete an EEE (Step 3b)

#### Explanation and Guidance

*Consider the below questions in answering Section B. Answers of 'yes' to any of these guidance questions will likely translate to an answer of 'yes' to Section B. Consult section 5 of CEAA 2012 for more clarity on what constitutes an environmental effect under the Act.*

- Is the project located on a site containing vulnerable natural features (e.g. habitat for endangered species, water source for a town, wetlands, etc.)?

Does the project have the potential to:

- Release a polluting substance into the land, water, or air?
- Cause land use changes (e.g. resource extraction, deforestation, clearing of vegetation, etc.)?
- Affect species at risk (flora or fauna) in or adjacent to the proposed project area?
- Result in alteration of water level, quality, flow or management regime in a water body, or result in other important changes to surface or groundwater resources (including well-water)?
- Cause noise and/or vibrations?

### B-1: Can all of these effects be managed by "established and effective" mitigation measures?

YES Continue to Section C.

NO Non-Basic project. Complete Sections E and F and continue to complete an EEE (Step 3b)

### Socio-Economic Effects (aboriginal peoples) 5(1)c

### Section C: Is the project likely to have an effect on aboriginal peoples resulting from a change to the environment?

YES Continue to C-1.

NO Continue to Section D

UNKNOWN Non-Basic project. Complete Sections E and F and continue to complete an EEE (Step 3b)

#### Explanation and Guidance

*Consider the below bullets in answering Section C. Remember that only effects to aboriginal peoples which are indirectly caused by changes to the environment are considered. Consult section 5 of CEAA 2012 for more clarity on what constitutes an environmental effect under the Act.*

The effects to aboriginal peoples can be in relation to:

- Health and Socio-economic conditions
- Physical and cultural heritage
- The current use of lands and resources for traditional purposes
- Any structure site or thing that is of historical, archaeological, paleontological or architectural significance.

**C-1:** Can all of these effects be managed by "established and effective" mitigation measures?

- YES** Continue to Section D
- NO** Non-Basic project. Complete Sections E and F and continue to complete an EEE (Step 3b)

**Socio-Economic Effects 5(2)b**

**Section D:** Does the project have the potential to cause a change in the environment resulting from a related federal decision (power, duty or function) that may result in socio-economic impacts?

- YES** Continue to Section D-1
- NO** Basic project. Complete Sections E and F and continue to complete an MMF (Step 3a)
- UNKNOWN** Non-Basic project. Complete Sections E and F and continue to complete an EEE (Step 3b)

**Explanation and Guidance**

Consider the below bullets in answering Section D. Consult section 5 of CEAA 2012 for more clarity on what constitutes an environmental effect under the Act.

Socio-economic effects include:

- Health and Socio-economic conditions
- Physical and cultural heritage
- Any structure site or thing that is of historical, archaeological, paleontological or architectural significance.

**D-1:** Can all of these effects be managed by "established and effective" mitigation measures?

- YES** Basic project. Complete Sections E and F and continue to complete an MMF (Step 3a)
- NO** Non-Basic project. Complete Sections E and F and continue to complete an EEE (Step 3b)

**Section E: Project Classification**

- Basic Project requiring the completion of a Mitigation Measures Form (MMF)
- Non-basic project requiring the completion of an Environmental Effects Evaluation (EEE)

**Section F: Sign Off**

Comments: Site is industrial with minimal vegetation. There is a river nearby (around 15m) but proper mitigations will reduce or eliminate potential environmental effects.

Completed by:

Name

Signature

enter date

Date