# **APPENDIX A**

Location, access to site & safety advisory

#### **APPENDIX A**

#### LOCATION AND ACCESS TO SITE

#### Pointe du Lac RL (LLN 2126)

On the North Shore of the St. Lawrence, enter the property at civic number 1981 from Hwy 138, East of Pointe-du-Lac. The structure is on the side of Hwy 138. SPECIFIC ACTIONS

#### Site coordinates:

46°16'46"3469

72°40'15"4328

#### **Excerpt from the CCG Safety Notice:**

**Deficiencies:** Unsafe staircase. Unsafe upper platform.

**Specific actions:** Use the Y lanyards to attach at two different points along the staircase. Attach to the cable on the upper platform.

# **APPENDIX B**

Photos of existing works

# Pointe du Lac RL



# Pointe du Lac RL



# **APPENDIX C**

Working constraints

The working constraints are illustrated in plan QE59400-C01-01 of Appendix E

# **APPENDIX D**

Existing facilities to be dismantled

# Appendix D

Existing facilities to be dismantled

883-1 steel tower

883-2 reinforced concrete foundation

# **APPENDIX E**

Construction plans

# Construction plans

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QE8400-C01_01 Installation and general notes

QE8400-C01_02 Foundation plan

QE8400-C01_03 Fencing - details

QE8400-C01_04 35.05 m (115.0') Tower - Assembly plan

QE8400-C01_05 35.05 m (115.0') Tower - Assembly plan

QE8400-C01_06 35.05 m (115.0') Tower - Assembly plan

QE8400-C01_07 Lightning protection

QE8400-C01_08 Lightning protection
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# **APPENDIX F**

Daymark dimensions and assembly plans

# Appendix F

Daymark dimensions and assembly plans

08809-01 Daymark elevation and details

08809-02 Daymark plate details

# **APPENDIX G**

Daymark orientation

# **APPENDIX H**

**Electrical Installation Plans** 

# Appendix H

08990-E02 01/02 and 02/02 Future electrical installation with or without Hydro-Québec easement

### SUMMARY TABLE OF THE WORK TO BE DONE, page 1 OF 2

#### STRUCTURES TO BE DISMANTLED

Sites with height (m) of new structures	LLN	Heights of existing towers (m)	Plan of the existing tower to be dismantled	Plan of the existing foundation to be dismantled
Pointe du Lac RL, 32.7 m	2126	32.6 m	883-1	883-2

### **SUMMARY TABLE OF THE WORK TO BE DONE, page 2 OF 3**

### TEMPORARY STRUCTURES, FOUNDATION AND FENCES TO BE BUILT

Sites with height (m) of new structures	Temporary structure (mm)	Foundation plan	Foundation (mm)	Elevation of the top of the foundation (m)	Fence to be built (mm)	Fence plan
Pointe du Lac RL 35.05 m	30.0 m min.	QE58400-C01-02 02/08	Foundation with pilasters and footing of 8500 x 8500 x 700	18.13 m	Yes 12071 x 12071	Yes. QE58400-C01-03 03/08

### SUMMARY TABLE OF THE WORK TO BE DONE, page 2 OF 2

#### STRUCTURES AND ACCESSORIES TO BE INSTALLED

Sites	Structure (Width x width x height in mm)	Plan of the tower to be constructed	Lantern, electrical diagram, box if needed	Plans for accessories, monorail and service platform	Height of daymarks (mm)	Daymark plan
Pointe du Lac RL m	4572 x 4572 x 35050	QE58400	08990-E02		7320	08809-01 and 08809-02

# **APPENDIX I**

Summary Table of Work

### SUMMARY TABLE OF THE WORK TO BE DONE, page 1 OF 2

#### STRUCTURES TO BE DISMANTLED

Sites with height (m) of new structures	LLN	Heights of existing towers (m)	Plan of the existing tower to be dismantled	Plan of the existing foundation to be dismantled
Pointe du Lac RL, 32.7 m	2126	32.6 m	883-1	883-2

### SUMMARY TABLE OF THE WORK TO BE DONE, page 2 OF 3

#### TEMPORARY STRUCTURES, FOUNDATION AND FENCES TO BE BUILT

Sites with height (m) of new structures	Temporary structure (mm)	Foundation plan	Foundation (mm)	Elevation of the top of the foundation (m)	Fence to be built (mm)	Fence plan
Pointe du Lac RL 35.05 m	30.0 m min.	QE58400-C01-02 02/08	Foundation with pilasters and footing of 8500 x 8500 x 700	18.13m	Yes 12071 x 12071	Yes. QE58400-C01-03 03/08

# SUMMARY TABLE OF THE WORK TO BE DONE, page 2 OF 2

### STRUCTURES AND ACCESSORIES TO BE INSTALLED

Sites	Structure (Width x width x height in mm)	Plan of the tower to be constructed	Lantern, electrical diagram, box if needed	Plans for accessories, monorail and service platform	Height of daymarks (mm)	Daymark plan
Pointe du Lac RL m	4572 x 4572 x 35050	QE58400	08990-E02		7320	08809-01 and 08809-02

# **APPENDIX J**

Geotechnical Investigation Report



# CANADIAN ENVIRONMENTAL ASSESSMENT ACT (CEAA) - SCREENING REPORT SUMMARY TABLE

		TABLE 2: MITIGATION MI	EASURES AND RESIDUAL EFFECTS	
DESCRIPTION OF PROJECT COMPONENTS/ACTIVITIES	ENVIRONMENTAL COMPONENTS AFFECTED BY THE PROJECT	DESCRIPTION OF ENVIRONMENTAL EFFECTS	MITIGATION/COMPENSATION MEASURES	DESCRIPTION AND IMPORTANCE OF RESIDUAL EFFECTS
1 Air Quality				
Preparatory activities	Site organization			
	Installation of a temporary aids to navigation structure			
and	Demolition of the metal structure and concrete base and recovery of materials	Air pollutant emission through the combustion of petroleum hydrocarbons in the motors of machinery used for the work.  Fine granular material suspended in the air when fill is being brought in and during periods of high wind	The machinery will be inspected to ensure it is working properly and its maintenance will be carried out in accordance with the recommended use.	
Rear light aids to navigation repair work	Importing new materials		The backfill materials will be covered with a tarp on windy days	Non cignificant pogetive effect
repail work	Storing recovered and imported materials		<ul> <li>The work will be planned so that the machinery is used as little as possible</li> <li>Idling motors must be avoided as much as possible</li> </ul>	Non-significant negative effect
	Installing new concrete bases		If cutting is necessary, the cutting tools must be equipped with a dust collector	
	Installing the metallic structure and aids to navigation equipment		ii cutting is necessary, the cutting tools must be equipped with a dust collection	
Demobilization	Removal of the temporary aids to navigation structure			



TABLE 2: MITIGATION MEASURES AND RESIDUAL EFFECTS							
DESCRIPTION OF PROJECT COMPONENTS/ACTIVITIES	ENVIRONMENTAL COMPONENTS AFFECTED BY THE PROJECT	DESCRIPTION OF ENVIRONMENTAL EFFECTS	MITIGATION/COMPENSATION MEASURES	DESCRIPTION AND IMPORTANCE OF RESIDUAL EFFECTS			
2. Noises and vibrations							
Preparatory activities	Site organization						
	Installation of a temporary aids to navigation structure						
	Demolition of the metal structure and concrete base and recovery of materials	Occasional disruptions due to noise	The work to be done must be planned during normal working hours and in				
Rear light aids to navigation	Importing new materials	caused by the machinery used	accordance with municipal requirements	Non-designation offset			
repair work	Storing recovered and imported materials	Occasional disruptions due to the vibrations caused by increased machinery traffic	Idling motors must be avoided as much as possible	Non-significant negative effect			
	Installing new concrete bases						
	Installing the metallic structure and aids to navigation equipment						
Demobilization	Removal of the temporary aids to navigation structure						

TABLE 2: MITIGATION MEASURES AND RESIDUAL EFFECTS						
DESCRIPTION OF PROJECT COMPONENTS/ACTIVITIES	ENVIRONMENTAL COMPONENTS AFFECTED BY THE PROJECT	DESCRIPTION OF ENVIRONMENTAL EFFECTS	MITIGATION/COMPENSATION MEASURES	DESCRIPTION AND IMPORTANCE OF RESIDUAL EFFECTS		
3. Soil quality and erosion						
Preparatory activities	Site organization					
	Installation of a temporary aids to navigation structure					
	Demolition of the metal structure and concrete base and recovery of materials		Limit machinery movement off designated routes to avoid unnecessary soil compaction			
Rear light aids to navigation	Importing new materials	Soil compaction due to machinery movement Soil erosion following	<ul> <li>Use clean materials from known quarries and sand pits</li> </ul>	No residual effects observed		
repair work	Storing recovered and imported materials	vegetation removal Use of unknown materials	Inspect the machinery to ensure it is working properly and perform its maintenance in accordance with the recommended use     Act quickly during spills or accidents involving petroleum products and keep emergency kits at all times	NO residual effects observed		
	Installing new concrete bases					
	Installing the metallic structure and aids to navigation equipment					
Demobilization	Removal of the temporary aids to navigation structure					
4. Water quality						
Rear light aids to navigation repair work	Demolition of the metal structure and concrete base and recovery of materials	Settling of demolition debris from the current structure at the surface of the water and its solubilization Deposit of fine particles in the imported materials on the surface of the water and their solubilization Potential contamination by petroleum hydrocarbons in the event of a spill	The machinery must not be kept less than 30 m from the shore of the river or a watercourse The machinery must not be cleaned or kept near the river waters or a watercourse Appropriate machinery must be used to perform the work If necessary, the debris must be stored in such a way that it cannot be blown into surface water by the wind If possible, use materials free from fine particles The materials brought on site and installed to construct the access road or new aid-to-navigation light structures must be clean when they arrive at the site and must be stored under polyethylene tarps to avoid being blown into the air on a very windy day If cutting is necessary, the cutting tools must be equipped with a dust collector	No residual effects observed		

TABLE 2: MITIGATION MEASURES AND RESIDUAL EFFECTS					
DESCRIPTION OF PROJECT COMPONENTS/ACTIVITIES	ENVIRONMENTAL COMPONENTS AFFECTED BY THE PROJECT	DESCRIPTION OF ENVIRONMENTAL EFFECTS	MITIGATION/COMPENSATION MEASURES	DESCRIPTION AND IMPORTANCE OF RESIDUAL EFFECTS	
5. Sediment quality					
		No environmental impacts observed	No mitigation measures deemed necessary	No residual effects observed	
6. Aquatic fauna, flora and	d habitat				
		No environmental impacts observed	No mitigation measures deemed necessary	No residual effects observed	
7. Terrestrial fauna, flora a	and habitat				
Preparatory activities	Site organization				
	Installation of a temporary aids to navigation structure	Soil compaction as a result of moving the machinery Occasional disruptions due to noise caused by the machinery used Occasional disruptions due to the vibrations caused by increased machinery traffic  Soil erosion following vegetation removal	Limit moving machinery off the designated roads to avoid soil compaction and destruction of terrestrial habitats The work will be planned so that the machinery is used as little as possible Idling motors must be avoided as much as possible Materials imported on site to fill the new concrete bases must be clean when they arrive on site Restore the soil and vegetation to its former state once the work is complete to ensure that vegetation grows back quickly		
	Demolition of the metal structure and concrete base and recovery of materials				
Rear light aids to navigation	Importing new materials			Non cignificant pagative offset	
repair work	Storing recovered and imported materials			Non-significant negative effect	
	Installing new concrete bases	Soil contamination from using unknown materials			
	Installing the metallic structure and aids to navigation equipment				
Demobilization	Removal of the temporary aids to navigation structure				

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TABLE 2: MITIGATION MEASURES AND RESIDUAL EFFECTS						
DESCRIPTION OF PROJECT COMPONENTS/ACTIVITIES	ENVIRONMENTAL COMPONENTS AFFECTED BY THE PROJECT	DESCRIPTION OF ENVIRONMENTAL EFFECTS	MITIGATION/COMPENSATION MEASURES	DESCRIPTION AND IMPORTANCE OF RESIDUAL EFFECTS		
8. Avian fauna and habitat	8. Avian fauna and habitat					
Preparatory activities	Site organization					
	Installation of a temporary aids to navigation structure		<ul> <li>Do the work outside bird colony nesting periods</li> <li>Idling motors must be avoided as much as possible</li> <li>The work must be completed in as little time as possible</li> <li>The work must be completed during normal working hours to give the shore birds enough time to feed each day</li> <li>The mitigation measures given for air quality also apply</li> </ul>	Non-significant negative effect		
	Demolition of the metal structure and concrete base and recovery of materials	Noise caused by the use of machinery on the site Airborne particles that can interfere with vision and breathing Settling of particles in feeding areas				
Rear light aids to navigation	Importing new materials					
repair work	Storing recovered and imported materials					
	Installing new concrete bases					
	Installing the metallic structure and aids to navigation equipment					
Demobilization	Removal of the temporary aids to navigation structure					
9. Wetlands						
		No environmental impacts observed	No mitigation measures deemed necessary	No residual effects observed		



TABLE 2: MITIGATION MEASURES AND RESIDUAL EFFECTS					
DESCRIPTION OF PROJECT COMPONENTS/ACTIVITIES	ENVIRONMENTAL COMPONENTS AFFECTED BY THE PROJECT	DESCRIPTION OF ENVIRONMENTAL EFFECTS	MITIGATION/COMPENSATION MEASURES	DESCRIPTION AND IMPORTANCE OF RESIDUAL EFFECTS	
10. Species at risk and their ha	abitat				
Preparatory activities	Site organization				
navigation struc	Installation of a temporary aids to navigation structure	Soil compaction as a result of moving the machinery Occasional disruptions due to noise caused by the machinery used Occasional disruptions due to the vibrations caused by increased machinery traffic Soil erosion following vegetation removal Soil contamination from using unknown materials  Airborne particles that can interfere with vision and breathing  Settling of particles in feeding areas	Limit moving machinery off the designated roads to avoid soil compaction and	Non-significant negative effect	
	Demolition of the metal structure and concrete base and recovery of materials		destruction of terrestrial habitats  The work will be planned so that the machinery is used as little as possible  Idling motors must be avoided as much as possible  Materials imported on site to fill the new concrete bases must be clean when they		
Rear light aids to navigation	Importing new materials		<ul> <li>traffic</li> <li>n following vegetation removal mination from using unknown</li> <li>articles that can interfere with breathing</li> <li>arrive on site</li> <li>Restore the soil and vegetation to its former state once the work is complete to ensure that vegetation grows back quickly</li> <li>Do the work outside bird colony nesting periods</li> <li>The work must be completed in as little time as possible</li> <li>The work must be completed during normal working hours to give the shore birds enough time to feed each day</li> </ul>		
repair work	Storing recovered and imported materials				
	Installing new concrete bases				
	Installing the metallic structure and aids to navigation equipment				
Demobilization	Removal of the temporary aids to navigation structure				
11. Common use of lands and	resources for traditional purposes by Ab	original people			
		No environmental impacts observed	No mitigation measures deemed necessary	No residual effects observed	



TABLE 2: MITIGATION MEASURES AND RESIDUAL EFFECTS					
DESCRIPTION OF PROJECT COMPONENTS/ACTIVITIES	ENVIRONMENTAL COMPONENTS AFFECTED BY THE PROJECT	DESCRIPTION OF ENVIRONMENTAL EFFECTS	MITIGATION/COMPENSATION MEASURES	DESCRIPTION AND IMPORTANCE OF RESIDUAL EFFECTS	
12. Health and safety					
Preparatory activities	Site organization				
	Installation of a temporary aids to navigation structure			No residual effects observed	
	Demolition of the metal structure and concrete base and recovery of materials	Site activities that could undermine the health and safety of individuals	Access to the site must be limited to duly authorized people and those individuals must be in possession of their health and safety cards on construction sites     The work must be performed in compliance with the Safety Code for the construction industry		
Rear light aids to navigation	Importing new materials				
repair work	Storing recovered and imported materials				
	Installing new concrete bases				
	Installing the metallic structure and aids to navigation equipment				
Demobilization	Removal of the temporary aids to navigation structure				
13. Socio-economic impacts					
		No environmental impacts observed	No mitigation measures deemed necessary	No residual effects observed	



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TABLE 2: MITIGATION MEASURES AND RESIDUAL EFFECTS						
DESCRIPTION OF PROJECT COMPONENTS/ACTIVITIES	ENVIRONMENTAL COMPONENTS AFFECTED BY THE PROJECT	DESCRIPTION OF ENVIRONMENTAL EFFECTS	MITIGATION/COMPENSATION MEASURES	DESCRIPTION AND IMPORTANCE OF RESIDUAL EFFECTS		
14. Impacts on tourism and rec	reation					
Preparatory activities	Site organization					
	Installation of a temporary aids to navigation structure		Perform the work outside the area's high tourist season	No residual effects observed		
	Demolition of the metal structure and concrete base and recovery of materials	Disruption of tourism and recreation activities in the area by the repair work				
Rear light aids to navigation	Importing new materials					
repair work	Storing recovered and imported materials					
	Installing new concrete bases					
	Installing the metallic structure and aids to navigation equipment					
Demobilization	Removal of the temporary aids to navigation structure					
15. Heritage, cultural, historical	15. Heritage, cultural, historical, archeological and paleontological resources					
		No environmental impacts observed	No mitigation measures deemed necessary	No residual effects observed		
16. Navigation						
		No environmental impacts observed	No mitigation measures deemed necessary	No residual effects observed		



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	TABLE 2: MITIGATION MEASURES AND RESIDUAL EFFECTS					
DESCRIPTION OF PROJECT COMPONENTS/ACTIVITIES	ENVIRONMENTAL COMPONENTS AFFECTED BY THE PROJECT	DESCRIPTION OF ENVIRONMENTAL EFFECTS	MITIGATION/COMPENSATION MEASURES	DESCRIPTION AND IMPORTANCE OF RESIDUAL EFFECTS		
17. Accidents and malfunctions	s					
Preparatory activities	Site organization		Accidental spills must be reported to the DFO contact immediately     Vehicle maintenance, gas fuelling and storage of gas and other dangerous materials			
	Installation of a temporary aids to navigation structure		must be performed at a distance of 30 metres from the river, whenever possible If this is not possible, containment measures must be applied  The use of clean equipment that has no oil leaks and is regularly inspected during			
	Demolition of the metal structure and concrete base and recovery of materials	Soil, backfill materials, and surface water can be locally contaminated by oil spills from the machinery used for the work or for transporting the materials	the work There must be a complete emergency response kit for accidental oil spills on site Work site personnel must have the necessary training to act in the event of an			
Rear light aids to navigation	Importing new materials		<ul> <li>environmental emergency The foreman must be immediately notified of the incident</li> <li>The soil or backfill materials, as the case may be, that are contaminated by an accidental spill must be piled onto and covered with waterproof tarps, have samples taken based on the soil volume in question, according to the sizes defined in the Sampling Guide for Environmental Analysis, Booklet 5, be submitted for chemical laboratory analysis, namely petroleum hydrocarbons (PH) C10 to C50, polycyclic aromatic hydrocarbons (PAH) and volatile organic compounds (VOC) and be</li> </ul>			
repair work	Storing recovered and imported materials			No residual effects observed		
	Installing new concrete bases					
	Installing the metallic structure and aids to navigation equipment			handled in accordance with the MDDEP Management Grid for Excavated  Contaminated Soils or in accordance with the regulations in effect and sent to an authorized site		
Demobilization	Removal of the temporary aids to navigation structure		Any water contaminated by an accidental spill must be contained in order to be characterized or be handled directly by a specialized company that will send it to an MDDEP-approved treatment centre In case of a spill, immediately report the incident to the responsible authorities and act quickly Contact Environment Canada emergency services (1-866-283-2333) and/or the Canada Coast Guard (1-800-363-4735), the MDDEP (1-866-694-5454) and the foreman			

# **APPENDIX K**

Environmental Impact Mitigation Measures Sheet

# **APPENDIX L**

**Environmental Monitoring Form**