

# APPENDIX N

## CTC Source Protection Assessment & Consultation

## CTC Source Protection Region

Katherine Hills  
Toronto and Region Conservation Authority  
101 Exchange Avenue  
Vaughan, ON  
L4K 5R6

August 24, 2018

Dear Ms. Hills:

**RE: Scarborough Waterfront Project Environmental Assessment**

The *Clean Water Act, 2006* ensures communities protect their drinking water supplies through prevention – by developing collaborative, watershed-based source protection plans that are locally driven and based on science. This correspondence confirms that the proposed project is located in the **Toronto and Region Source Protection Area**.

### VULNERABLE AREAS UNDER THE *CLEAN WATER ACT, 2006*

Upon review of the Toronto and Region Assessment Report, the study area for the proposed project transects the following vulnerable areas identified under the *Clean Water Act, 2006*:

- Wellhead Protection Area (Quality)
- Wellhead Protection Area (Quantity)
- Intake Protection Zone (IPZ)
- Event Based Area (EBA)
- Significant Groundwater Recharge Area (SGRA)
- Highly Vulnerable Aquifers (HVA)

A description of this vulnerable area follows below.

- An **Intake Protection Zone (IPZ)** is the area on the water and land surrounding a municipal surface water intake. The size of each zone is determined by how quickly water flows to the intake, in hours. Because surface water travels much faster than groundwater, the IPZ is drawn primarily for emergency response purposes. The map that accompanies this correspondence indicates that the proposed project transects the IPZ-2. IPZ-2 represents where a spilled contaminant might reach the intake before the plant operator can respond, which is specified as two hours in the CTC Source Protection Region.
- An **Event Based Area** is delineated if numerical modelling demonstrates that a spill from a specific activity may be transported to an intake and represents an activity that poses a significant threat to drinking water.

- A **Highly Vulnerable Aquifer** can be easily changed or affected by contamination from both human activities and human process as a result of its intrinsic susceptibility (as a function of the thickness and permeability of overlaying layers), or by preferential pathways to the aquifer.

## **PRESCRIBED THREATS**

Under the *Clean Water Act, 2006*, a “prescribed threat” (hereafter referred to as “threat”) is defined as “an activity or condition that adversely affects or has the potential to adversely affect the quality or quantity of any water that is or may be used as a source of drinking water, and includes an activity or condition that is prescribed by source protection regulation as a drinking water threat”.

The Province has identified 22 activities (see below) that, if they are present in vulnerable areas, now or in the future, could pose a threat (listed in Section 1.1 of O. Reg. 287/07). Twenty of these activities are relevant to drinking water quality threats, while two are relevant to drinking water quantity threats. It is possible that activities related to the project may pose threats to the vulnerable area(s) identified.

- The establishment, operation, or maintenance of a waste disposal site within the meaning of Part V of the *Environmental Protection Act (EPA)*;
- The establishment, operation, or maintenance of a system that collects, stores, transmits, treats, or disposes of sewage;
- The application of agricultural source material to land;
- The storage of agricultural source material;
- The management of agricultural source material;
- The application of non-agricultural source material (NASM) to land;
- The handling and storage of non-agricultural source material (NASM);
- The application of commercial fertilizer to land;
- The handling and storage of commercial fertilizer;
- The application of pesticide to land;
- The handling and storage of pesticide;
- The application of road salt;
- The handling and storage of road salt;
- The storage of snow;
- The handling and storage of fuel;
- The handling and storage of a dense non-aqueous phase liquid;
- The handling and storage of an organic solvent;
- The management of runoff that contains chemicals used in the deicing of aircraft;
- An activity that takes water from an aquifer or a surface water body without returning the water taken to the same aquifer or surface water body;
- An activity that reduces the recharge of an aquifer;
- The use of land as livestock grazing or pasturing land, an outdoor confinement area, or a farm-animal yard; and
- The establishment and operation of a liquid hydrocarbon pipeline.

## CTC SOURCE PROTECTION PLAN POLICIES

The CTC Source Protection Plan contains policies, developed by residents, businesses, and municipalities to protect the vulnerable areas described above. The CTC Source Protection Plan became effective on December 31, 2015 and the complete document is available on the CTC Source Protection Region [website](#) for reference. Policies that apply to HVAs include SAL 10-12 (application of road salt), DNAP-3 (handling and storage of dense non-aqueous phase liquids), and OS-3 (handling and storage of organic solvents). The Lake Ontario (LO) policies apply in EBAs. There are no policies that apply to IPZ-2 in the CTC Source Protection Region. However, in the spirit of the *Clean Water Act, 2006* best efforts to protect these areas should be made in designing and carrying out this project.

Where an activity associated with the proposed project poses a risk to drinking water, the proponent must document and discuss in the report how the project adheres to or has regard to applicable policies in the CTC Source Protection Plan. The Province has created a [Source Protection Information Atlas](#) to assist in determining where policies apply in vulnerable areas across the province.

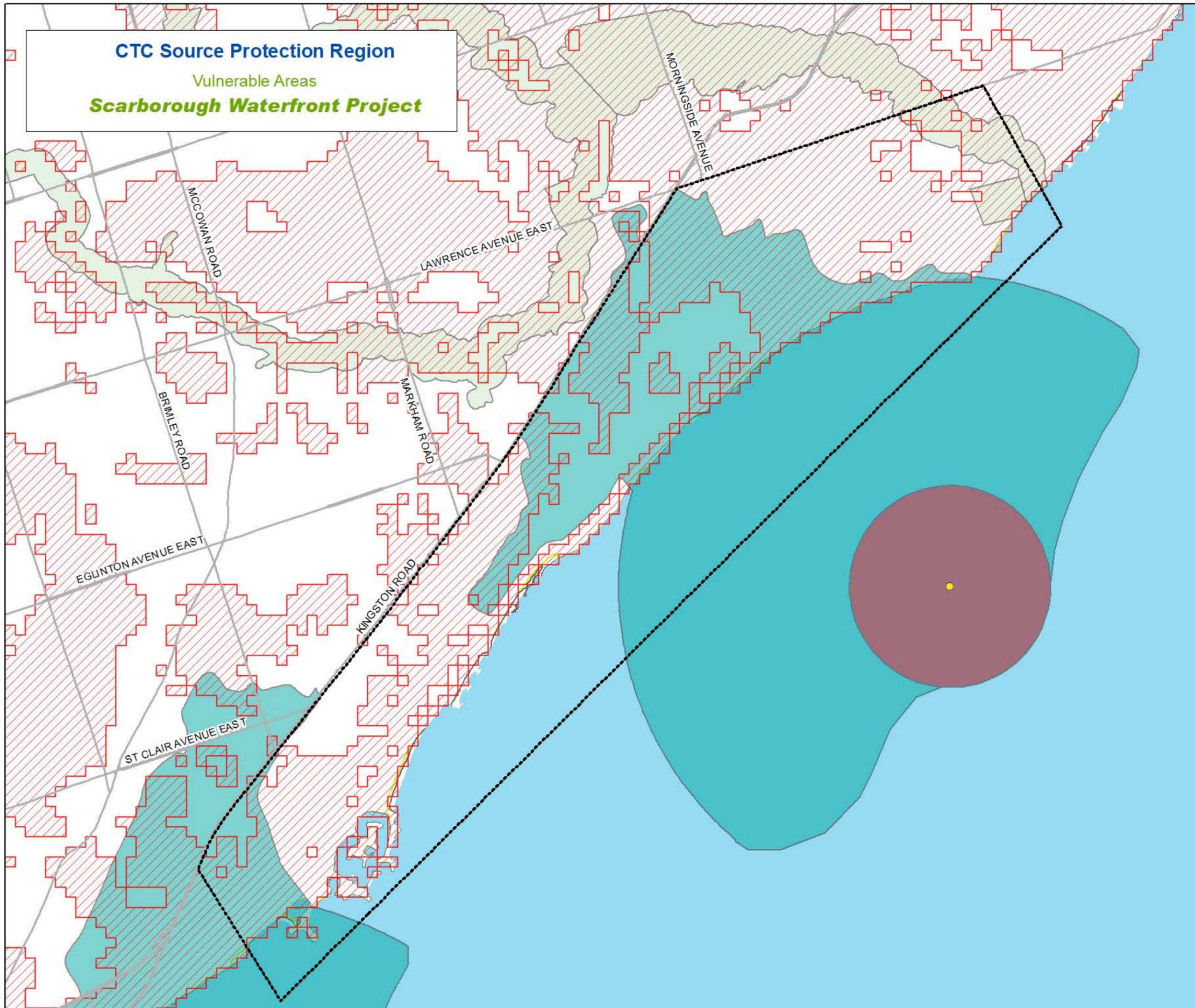
I trust that this information will assist you in the design of the Scarborough Waterfront Project, City of Toronto. I strongly recommend that you liaise with Bill Snodgrass, Senior Engineer, City of Toronto (1-416-392-9746; [wsnodgr@toronto.ca](mailto:wsnodgr@toronto.ca)), should you have any questions when designing your project to ensure the protection of sources of drinking water. In the event that you have any questions with respect to this correspondence, please contact me at 416.892.9634 or by email at [jstephens@trca.on.ca](mailto:jstephens@trca.on.ca).

Best Regards,

Jennifer Stephens  
Program Manager, CTC Source Protection Region

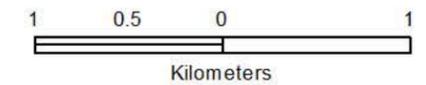
Cc: Don Ford, Hydrogeologist, Toronto and Region Conservation Authority  
Bill Snodgrass, Senior Engineer, City of Toronto  
Source Protection Screening, Source Protection Programs Branch, Ministry of the Environment,  
Conservation, and Parks

Attach.



**Legend**

- Approximate Project Boundary
- Highly Vulnerable Aquifer (HVA)
- Intake Protection Zone (IPZ) - 1
- Intake Protection Zone (IPZ) - 2
- Event Based Area (EBA)



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This map has been prepared to meet provincial requirements under the Clean Water Act, 2006 and should be used for other purposes ONLY after consultation with the responsible conservation authority or source protection authority. The analysis used to produce this map relies on best available information as of the date of the map. Priority should be given to site specific information collected in accordance with accepted scientific protocols when being used for other purposes.

