

## STAFF REPORT

*File No. SPC Report - #01/11*

**Date:** January 5<sup>th</sup>, 2011

**To:** Source Protection Committee

**Prepared by:** Jennifer Stephens, Project Manager

**RE:** Significant Groundwater Recharge Areas for Tier 2 Studies in the Trent Conservation Coalition Area

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XCG Consultants Ltd. (XCG) were retained to update the delineation of potentially Significant Groundwater Recharge Areas (SGRAs) within Trent Conservation Coalition subwatersheds where Tier 2 Water Budgets were completed in accordance with Section Part V.2 of the Technical Rules (MOE, 2009). The method selected for defining the updated SGRAs for the Havelock (Crowe-4), Brighton (Lake Ontario-1), and Colborne (Lake Ontario-3) subwatersheds is defined under rule 44(1). XCG has prepared a technical memo which outlines the methodology and results of this assessment (attached).

### **Staff Recommendation:**

That the results of the technical assessment completed by XCG Consultants Ltd. to revise the delineation of potentially Significant Groundwater Recharge Areas (SGRAs) within the Havelock (Crowe-4), Brighton (Lake Ontario-1), and Colborne (Lake Ontario-3) subwatersheds be accepted by the Source Protection Committee for inclusion in the updated Trent and Ganaraska Assessment Reports (for the Crowe and Ganaraska Source Protection Areas. )

## STAFF REPORT

File No. SPC Report - #02/11

**Date:** January 5<sup>th</sup>, 2011

**To:** Source Protection Committee

**Prepared by:** Jennifer Stephens, Project Manager

**RE:** Re-Evaluated Delineation, Vulnerability Scoring and Enumeration of Significant Drinking Water Threats for the Trenton Drinking Water System

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XCG Consultants Ltd. (XCG) re-evaluated the delineation, vulnerability scoring, and enumeration of significant drinking water threats for the Trenton Drinking Water System for the scenario when the Batawa WTP is decommissioned. XCG has prepared a technical memo which outlines the results of this assessment (attached).

A summary of this memo follows below:

- The delineation of the IPZ-1 and IPZ-2 for the Trenton WTP will not change as a result of the Batawa WTP being taken off-line.
- The approach used to delineate the IPZ-3 at surface water systems throughout the Trent Conservation Coalition Source Protection Region is such that this zone will be affected by the absence of the Batawa WTP.
- Streams included in the IPZ-3 delineation include the portion of Glen Miller Creek on the east side of the Trent River, a portion of Big Boulder Creek on the west side of the river, the entire Cold Creek watershed as well as smaller creek contributions.
- The contributing streams between Trenton and Frankford were included in the IPZ-3 delineation for Trenton.
- The vulnerability scores for IPZ-1 and IPZ-2 did not change.
- The vulnerability scoring for the IPZ-3 extending from the Trenton WTP to the Frankford WTP was revised.
- The new IPZ-3 for Trenton was divided into three subzones IPZ-3a (<10 km), IPZ-3b (10-25 km), and IPZ-3c (>25 km) with vulnerability scoring of 6, 3, and 2, respectively.
- The uncertainty score assigned to the delineation of the IPZ-3 will remain as "low".
- There is no change to the enumeration of significant drinking water threats for Trenton in the absence of the Batawa WTP.
- Significant threats (44 parcels with 83 threats) originally identified for the Batawa WTP are no longer considered significant threats for the Trenton WTP since these land parcels are located in IPZ-3a.

### Staff Recommendation:

That the results of the technical assessment completed by XCG Consultants Ltd. to revise the delineation, vulnerability scoring, and enumeration of significant drinking water threats for the Trenton Drinking Water System be accepted by the Source Protection Committee for inclusion in the updated Trent Assessment Report (for the Lower Trent Source Protection Area. )