

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

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January 14, 2011**



Purpose of Technical Work

- Re-evaluate 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.

Note: The Batawa WTP was taken off line on December 22, 2010.



Delineation of Intake Protection Zones

- The delineation of IPZ -1 and IPZ-2 for the Trenton WTP will not change.
- The approach used to delineate the IPZ-3 is such that this zone will be affected by the absence of the Batawa WTP.
- Included in IPZ-3 delineation:
 - Glen Miller Creek (east side of Trent River)
 - Portion of Glen Miller Creek
 - Entire Cold Creek watershed
 - Contributing streams between Trenton and Frankford
- Uncertainty score assigned to the delineation of the IPZ-3 will remain as “low”.

Vulnerability Scoring

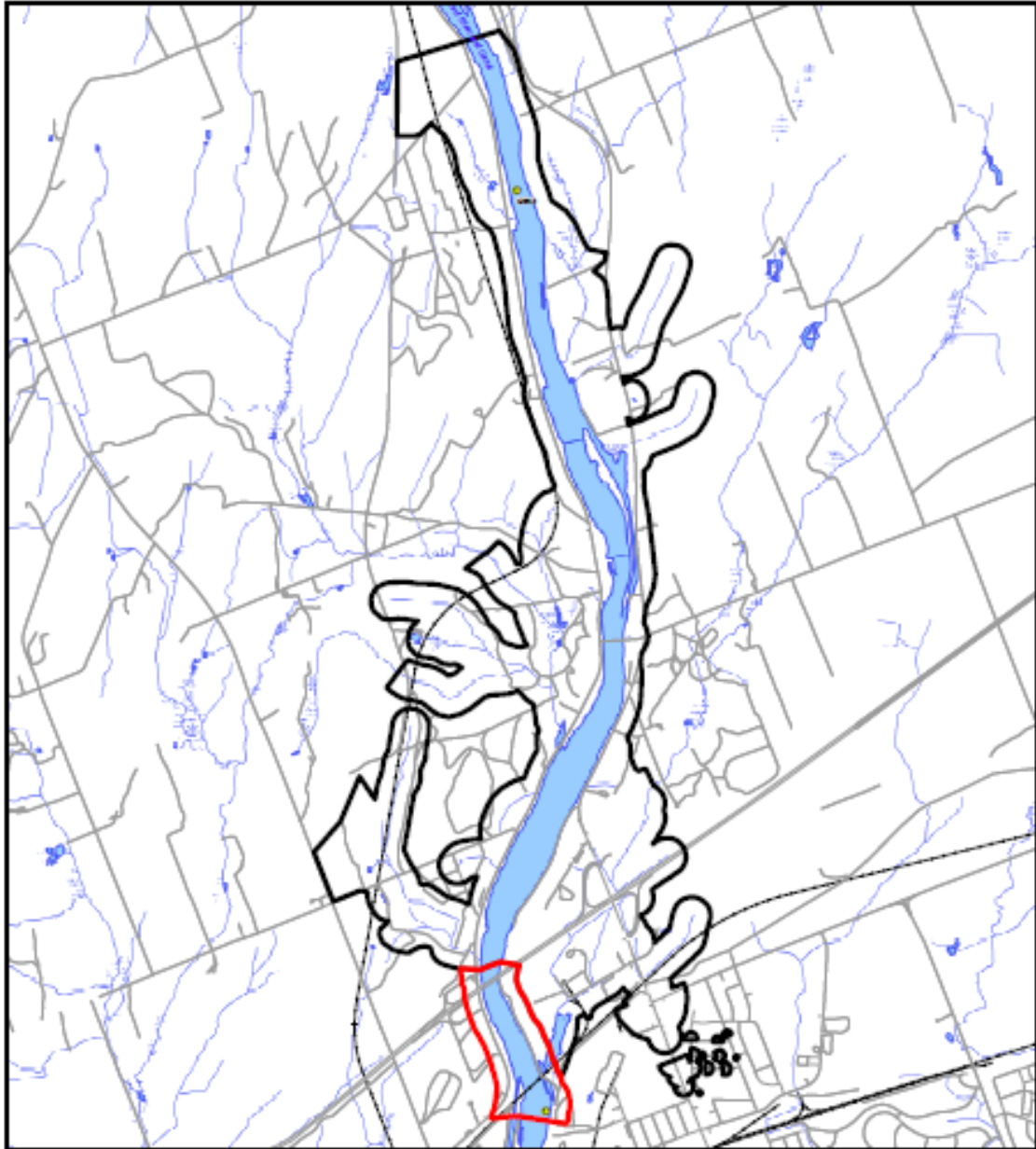
- The vulnerability scores for IPZ -1 and IPZ-2 did not change.
- The vulnerability scoring for the IPZ-3 extending from the Trenton WTP to the Frankford WTP was revised.
- The new IPZ-3 for Trenton was divided into three subzones IPZ-3a (<10 km), IPZ-3b (10-25 km), and IPZ – 3c (> 25 km). Vulnerability scoring is 6, 3, and 2 respectively.









Threat Enumeration

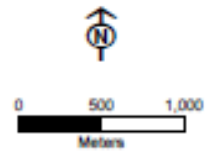
- There is no change to the enumeration of significant drinking water threats for Trenton in the absence of the Batawa WTP.
- Significant threats (44 parcels with 83 threats) originally identified for the Batawa WTP are no longer considered significant threats for the Trenton WTP since these parcels are located in the IPZ-3a.

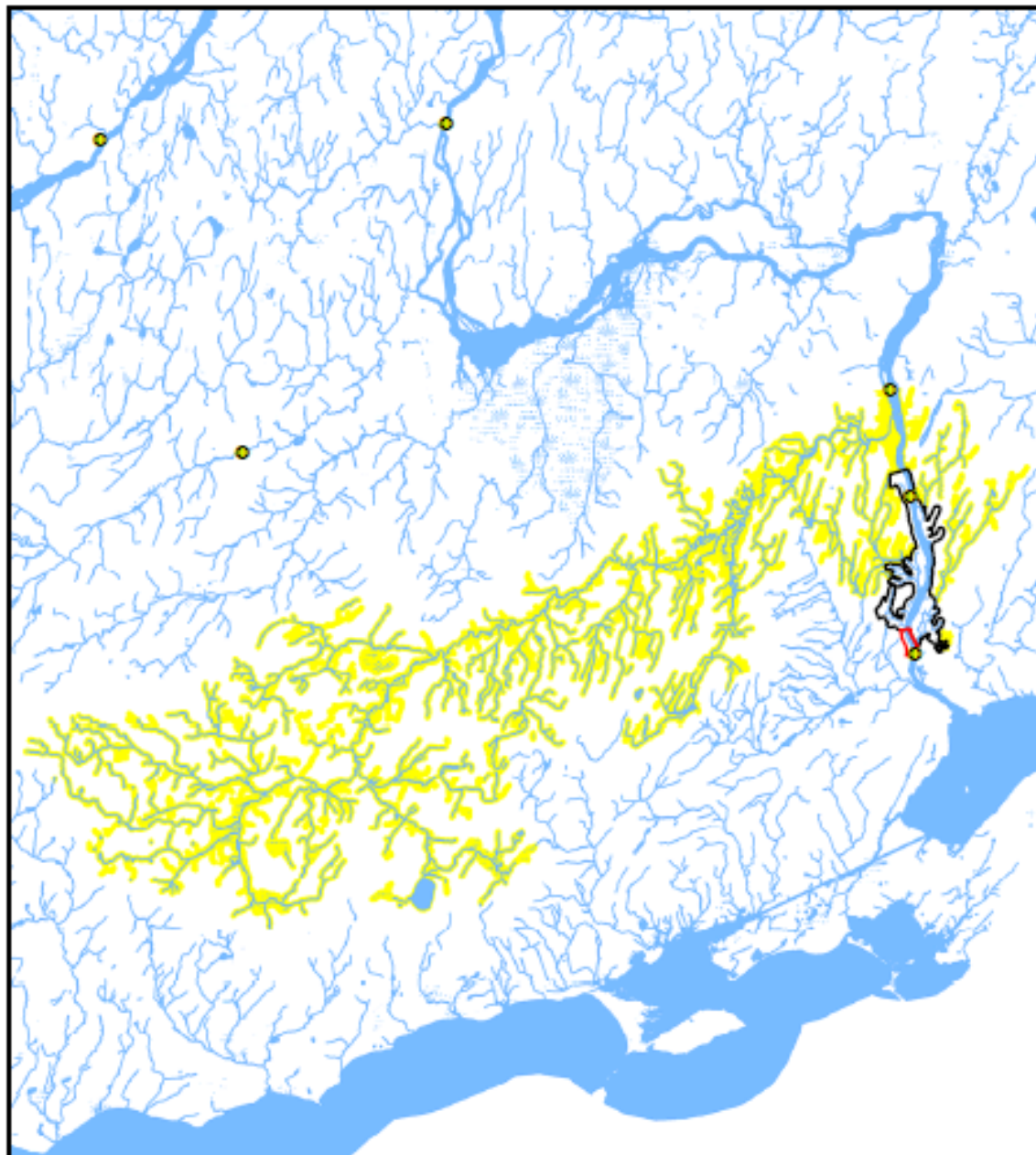




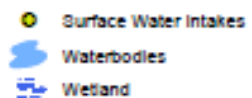
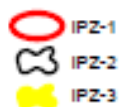
Trenton
IPZ-1 & IPZ-2

-  Surface Water Intakes
-  IPZ-1
-  IPZ-2
-  Roads
-  Railways
-  Waterbodies
-  Wetland Areas
-  Streams

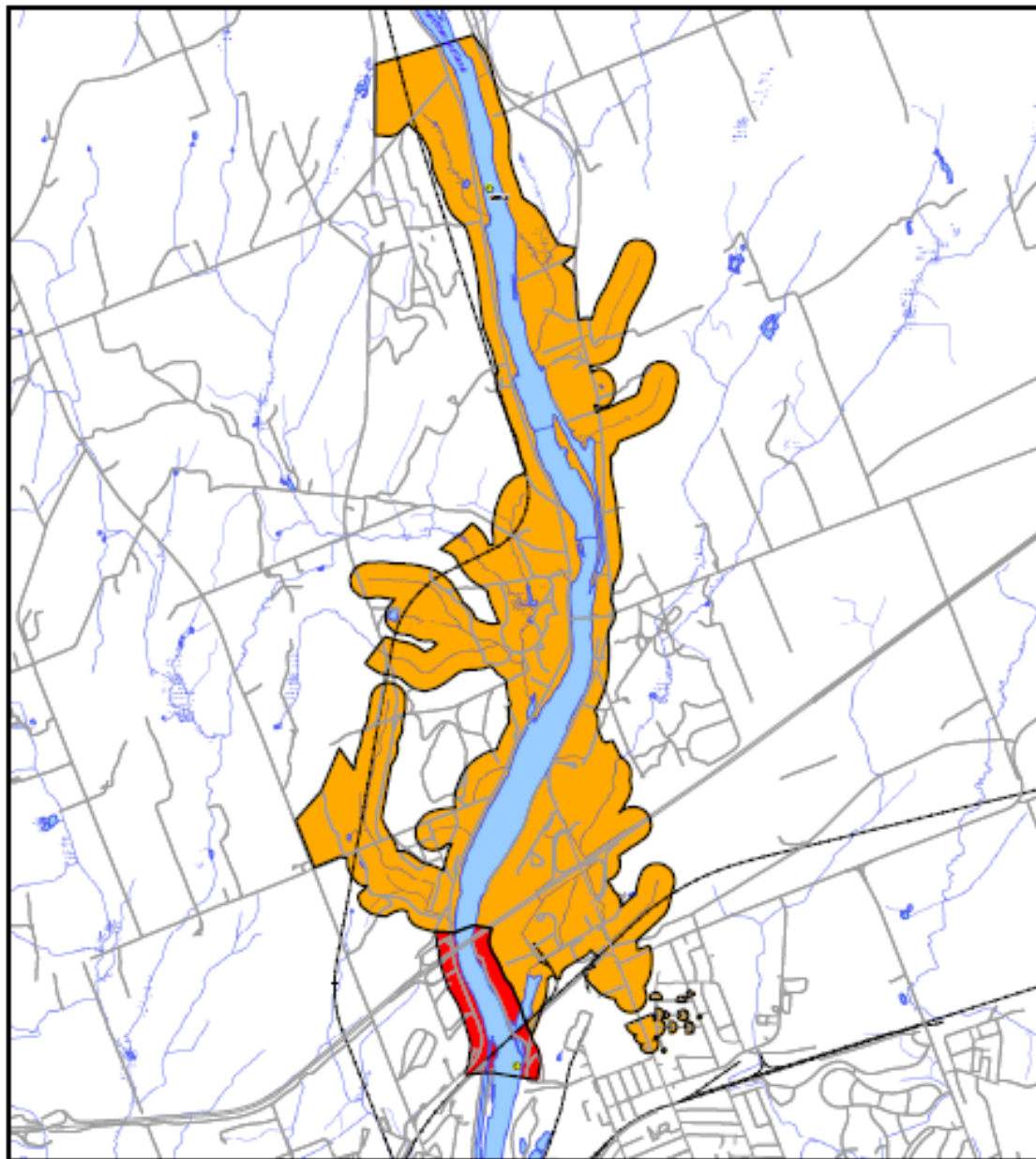




Trenton
IPZ-3



0 2,000 4,000



Trenton
IPZ-1 & IPZ-2
Vulnerability

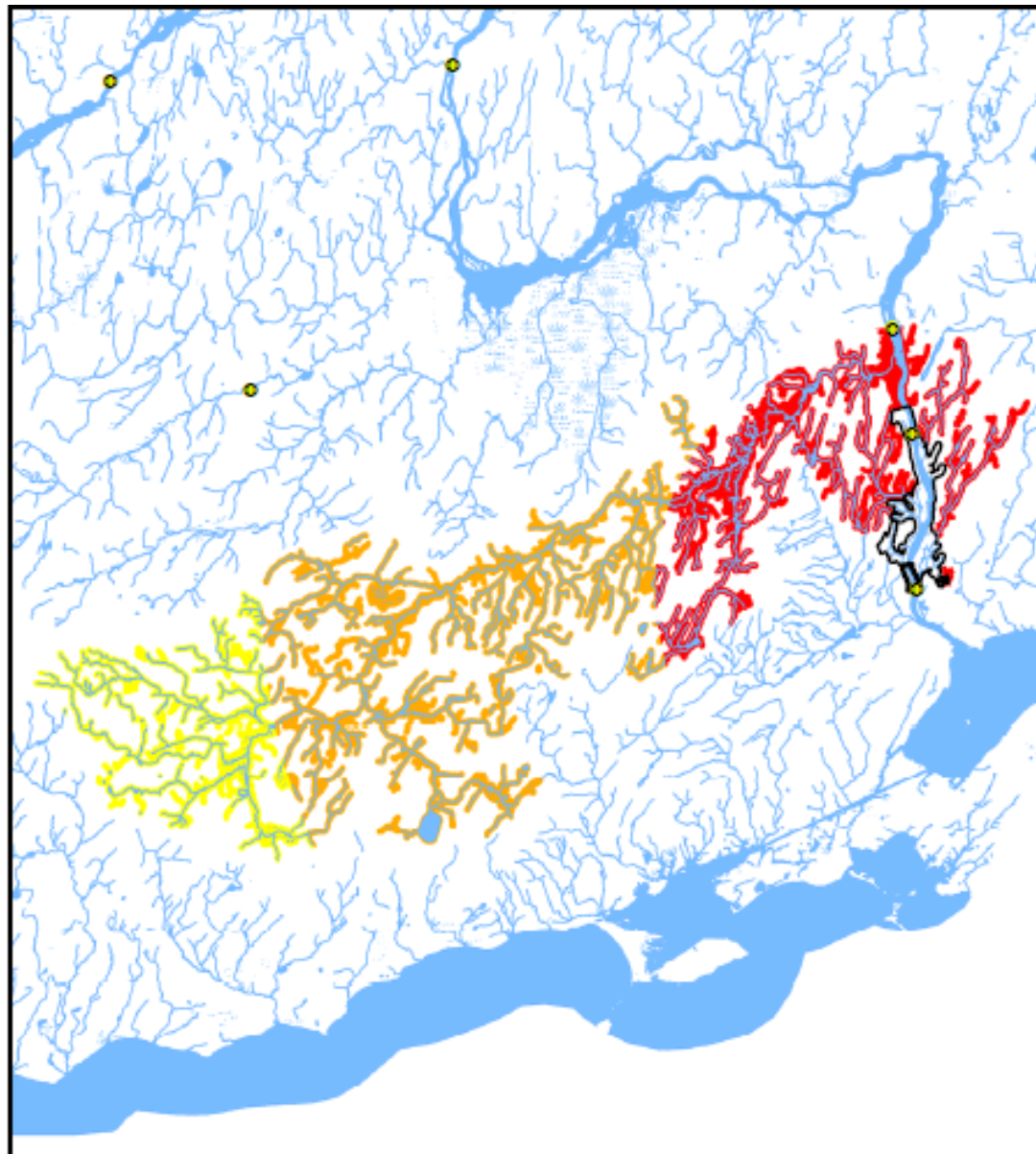
-  Surface Water Intakes
-  Roads
-  Railways
-  Waterbodies
-  Wetland Areas
-  Streams

Vulnerability

-  10
-  0



0 500 1,000
Meters



Trenton
IPZ-3
Vulnerability



IPZ-1

IPZ-2



Waterbodies



Streams

Vulnerability

2

3

6



0 2,000 4,000

Meters

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.)

