

Potential Tasks to Complete Source Protection Planning Products and Recommended Leads

Assessment Report			
Anticipated Task	Potential Requirements	Geographic Scope/ [Lead Agency]	Comments
Undertake a watershed characterization (Module 1)	• A watershed characterization report which identifies and describes watersheds in the source protection area • May include water quality analysis • Peer review	Watershed scale [<i>Toronto and Region and Lake Simcoe Source Protection Authorities</i>]	Watershed characterization has been funded since 2005 through capacity building funds from the Ministry of Natural Resources (MNR).
Complete a groundwater vulnerability analysis (Module 3)	• Delineation and assignment of vulnerability scores • Uncertainty analysis ○ Peer review ○ Consultation with stakeholders affected by delineation of wellhead protection areas may be required	Existing and planned wellhead protection areas [<i>York Region</i>] Highly vulnerable aquifers [<i>Toronto and Region and Lake Simcoe Source Protection Authorities</i>] Significant groundwater recharge areas [<i>Toronto and Region and Lake Simcoe Source Protection Authorities</i>]	York Region has completed the vulnerability analysis in existing wellhead protection areas with funds from the MOE. <i>Preferential pathways will need to be included in the assessment. Similar work needs to be done on planned water systems</i>
Complete a surface water vulnerability analysis (Module 4)	• Delineation and assignment of vulnerability scores including intake characterization and data gap analysis • Uncertainty analysis ○ Peer review ○ Consultation with stakeholders affected by delineation of intake protection zones may be required	Intake protection zones [<i>Lake Simcoe Source Protection Authority</i>]	The LSRCA has completed the delineation of intake protection zones in Georgina and Keswick in accordance with current MOE guidance documents.
Identify Issues, Inventory Threats and Assess Hazards (Module 5)	• Identification and description of water quality issues • Identification of water quality concerns and assessment of need to verify them as drinking water quality issues • Threats inventory • Issues Evaluation • Hazards assessment and assignment of hazard score to existing threats • List of future drinking water threats • Uncertainty analysis	Existing and planned wellhead protection areas [<i>York Region</i>] Intake protection zones [<i>Lake Simcoe Source Protection Authority</i>] Highly vulnerable aquifers [<i>Toronto and Region and Lake Simcoe Source Protection Authorities</i>] Significant groundwater recharge areas [<i>Toronto and Region and Lake Simcoe Source Protection Authorities</i>]	Most of this work is currently in progress. Funds were received from the MOE in 2006 to complete these tasks. Additional guidance is required from the Province regarding the hazard assessment exercise to finalize the projects <i>Work on threats and issues needs to be undertaken around planned water supply systems</i>
Conduct a water quality risk assessment (Module 6)	• Identification of significant, moderate, low and negligible drinking water threats • Uncertainty analysis • Determine the need to undertake Tier 2 assessment ○ Consultation with stakeholders affected by significant water threats scoring	Existing and planned wellhead protection areas [<i>York Region</i>] Intake protection zones [<i>Lake Simcoe Source Protection Authority</i>] Highly vulnerable aquifers [<i>Toronto and Region and Lake Simcoe Source Protection Authorities</i>] Significant groundwater recharge areas [<i>Toronto and Region and Lake Simcoe Source Protection Authorities</i>]	The MOE funded this study in 2006; however it has not been started because results of the threat inventory and hazard assessment are needed. <i>The original scope of work doesn't include planned systems, this work will need to be undertaken</i>
Undertake a water budget and water quantity risk assessment (Module 7)	• Conceptual water budget • Tier 1, 2 and 3 water budget analysis and stress assessment • Delineation of significant groundwater recharge areas • Identification and categorization of water quantity issues • Peer review	Watershed scale [<i>Toronto and Region and Lake Simcoe Source Protection Authorities</i>] Subwatershed scale [<i>Toronto and Region and Lake Simcoe Source Protection Authorities</i>] Tier 3 Water Budget [<i>York Region</i>]	Source protection authorities have been working on these tasks since 2006 with funds provided by the MNR and the MOE. <i>Should a Tier 3 be required, York Region would like to undertake this work.</i>
Report compilation	○ Preparation of draft report ○ Preparation of final report	Source Protection Area [<i>Toronto and Region and Lake Simcoe Source Protection Authorities</i>]	The interim watershed characterization report will serve as foundation to prepare the Assessment Report
Project management and budget administration	○ As defined by the source protection committee and source protection authority	Source Protection Area [<i>Toronto and Region and Lake Simcoe Source Protection Authorities</i>]	As necessary
Consultation on assessment report	○ As defined by the <i>Clean Water Act, 2006</i> and the anticipated assessment report regulation	Source Protection Area [<i>CTC and SGB Source Protection Committees, Toronto and Region and Lake Simcoe Source Protection Authorities</i>]	Regulation on the preparation of the assessment report is not available yet

Source Protection Plan			
Anticipated Task	Potential Requirements	Geographic Scope/ [Lead Agency]	Comments
Develop policies to address activities that are or would be significant drinking water threats	- o Develop alternatives - o Develop evaluation criteria to select the most appropriate alternative - o Determine who is responsible for implementing these policies - o Consultation with affected stakeholders	Geographic scope will depend on the Assessment Report results. The following leads are proposed for developing policies according to the geographic scope: Watershed [Toronto and Region and Lake Simcoe Source Protection Authorities] Existing and planned wellhead protection areas, Intake protection zones, Highly vulnerable aquifers, and Significant groundwater recharge areas [Co-lead role: York Region, other municipalities, Toronto and Region and Lake Simcoe Source Protection Authorities]	Without the results of the Assessment Report, it will be challenging to define estimated dates of completion and cost associated to these tasks.
Develop policies to monitor significant drinking water threats			The MOE recommends that in determining estimated costs for this work the following be considered: 1) the complexity of the watershed and 2) the controversial nature of the policies which may require several consultation sessions and greater research.
If advisable, develop policies for monitoring non-significant drinking water threats			
If advisable, develop policies for monitoring non-significant drinking water issues			
Develop policies for monitoring to assist in implementing and determining the effectiveness of Great Lakes Policies			York Region's Planning and Development Services staff propose to undertake Source Plan Protection policy development as co-leads with other source protection area upper tier municipalities and the Source Protection Authorities to ensure consistency across these areas.
Additional policies as required			
Source Protection Plan compilation	- o Preparation of draft plan - o Preparation of final plan	Source Protection Area [Toronto and Region and Lake Simcoe Source Protection Authorities]	Minimum requirements to be specified in the Source Protection Plan Regulation
Project management and budget administration	o As defined by the source protection committee and source protection authority	Source Protection Area [Toronto and Region and Lake Simcoe Source Protection Authorities]	As necessary
Consultation on Source Protection Plan	o As defined by the <i>Clean Water Act, 2006</i> and the anticipated source protection plan regulation	Source Protection Area [CTC and SGB source protection committees, Toronto and Region and Lake Simcoe Source Protection Authorities]	Regulation on the preparation of the source protection plan is not available yet

Legends:

- Work complete or in progress according to MOE Draft Assessment Report: Guidance Modules, October 2006. Additional work may be required by upcoming regulations and director's rules.
- o Additional work that may need to be undertaken according to the MOE Guidance on the Preparation of Terms of Reference. These activities were not funded by the MOE as part of the 2005 and 2006 funding cycles of source water protection.

Notes:

- 1) Anticipated tasks and potential requirements are based on the MOE Guidance on the Preparation of the Terms of Reference version 1.0.
- 2) Major tasks for the preparation of the assessment report are based on current draft guidance modules by MOE. The assessment report regulation, source protection regulation, and the Director's rules may require additional work that may have not been identified in the table.
- 3) Toronto and Region Conservation Authority (TRCA) and Lake Simcoe Conservation Authority (LSRCA) are the Lead Source Protection Authorities for the CTC and SGB-LSRCA Source Protection Regions.
- 4) Staff will discuss and determine with local source protection authorities the date of completion and estimated cost of the tasks assigned to the Region. It is expected that 100% funding will be available from the Province to complete the technical and planning work associated to source water protection.
- 5) Once approved by the Minister, all tasks listed in the Terms of Reference must be carried out.