



Trent Source Protection Plan Implementation Report for the Crowe Valley Source Protection Area

2017

Introduction

This report summarizes implementation of the Trent Source Protection Plan in the Crowe Valley Source Protection Area for 2017.

As specified in the *Clean Water Act* and the Trent Source Protection Plan, a yearly responsibility of the Crowe Valley Source Protection Authority (CV SPA) is to receive Annual Progress Reports submitted to the CV SPA from various implementing bodies that have responsibilities under the *Clean Water Act*, 2006 and the Trent Source Protection Plan (effective January 1, 2015). This report summarizes the Annual Progress Reports received, thereby fulfilling the CV SPA's responsibility under the *Clean Water Act* and the Trent Source Protection Plan.

Background

The Trent Source Protection Plan came into effect on January 1st, 2015, and requires implementing bodies to prepare annual reports that summarize the actions taken in the prior year to achieve the outcomes of the Source Protection Plan and make them available to the CV SPA by February 1st of each year.

These reporting responsibilities are to ensure requirements of the *Clean Water Act* are met and that policies in the Trent Source Protection Plan are implemented in accordance to the mandated policy timelines.

Implementing bodies required to report annually include the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA), Ontario Ministry of Environment and Climate Change (MOECC), Ontario Ministry of Transportation (MTO), Ontario Ministry of Natural Resources and Forestry (MNRF), municipalities, counties, health units, conservation authorities, source protection authorities, and Risk Management Officials.

Crowe Valley Source Protection Authority (CV SPA) Annual Progress Reports

Section 46 of the *Clean Water Act* requires the CV SPA to prepare and submit an Annual Progress Report that summarizes all Annual Reports received from implementing bodies. This must be submitted to the Source Protection Committee (SPC) at least 30 days prior to submitting it to the MOECC by May 1st, 2018.

This requires the CV SPA to consolidate and prepare a summary of all Annual Reports received to date with a review of the implementation of Trent Source Protection Plan policies as applicable in the CV Source Protection Area.

Implementing bodies of the Trent Source Protection Plan must report each year to the CV SPA (as of February 1st, 2016), and the first CV SPA Annual Progress Report is to be submitted to the MOECC by May 1st, 2018, thereafter on an ongoing annual basis.

Derived from all Annual Reports received this year, **Appendix 1** lists and summarizes implementation efforts taken in 2017 to ensure compliance with the Trent Source Protection Plan. No immediate action is required on the part of the CV SPA in regard to the information provided in these reports.

Annual Reporting Highlights

Highlights of the 2017 Annual Progress Reports (**Appendix 1**):

- Municipalities are actively engaged in updating Emergency Response and Spill Response documents. A mock scenario was carried out to test the process, the findings of which can be shared among CV SPA municipalities and other implementing bodies.
- All septic system inspections have been completed in the CV SPA.
- All municipalities have designated Risk Management Officials working on the landscape to reduce threats to drinking water.
- New Official Plan Amendments and Zoning By-Law Amendments have been adopted by council and approved, or are awaiting final approval. When formally complete, this will satisfy the mandated timeline and policy requirements.
- Necessary Bylaws have been put in place for new septic systems and transport pathways (where assessed to be useful).
- Generally, the Annual Reports were received on time with the exception of required revisions and omissions to be completed. It was the first year with additional MOECC reporting requirements, covering a timeframe of 2015 to 2017 in addition to the standard Annual Reporting on the implementation of Trent Source Protection Plan policies.

Summary

Overall, the Annual Progress Reports indicate a high level of successful implementation of the Trent Source Protection Plan policies in the third year of its implementation. As a result of the yearly reporting requirements, the CV SPA has had the opportunity to identify specific areas of focus in order to continue to support implementing bodies in their roles and responsibilities under the *Clean Water Act* and Trent Source Protection Plan moving into 2018.

Appendix 1: Summary of Implementation in the CV SPA

Policy Number	Policy Summary	Implementing Body	Implementation Status	Implementation Report Summary
General Policies				
G-1	Definitions of future and existing threats	Various	N/A	This policy assists in implementation, no actions required.
G-2	Provincial Ministries to review Prescribed instrument provisions	Provincial Ministries	Implemented	Processes are in place at various ministries to review provincially prescribed instruments with considerations to significant drinking water threat activities.
G-3	Land Acquisition - municipalities are to consider purchasing land in the vulnerable area.	Municipal	Implemented	All municipalities consider land acquisition on an ongoing basis. No purchases were made in 2017. Across all municipalities, the possibility of mediating drinking water threats through the purchase of lands or properties is minimal.
G-4	CAs to seek out and support incentive programs	Crowe Valley Conservation Authority	Ongoing & in Compliance	The CVCA sought out incentive programs in order to assess if they would financially support the implementation of best management practices for activities that are or would be significant drinking water threats. In 2016 The municipality of Highlands East created an incentive program to address fuel threats and the CVCA supported this program with Education and Outreach resources (brochures, fact sheets, etc), which carried over into 2017. There were no other incentives available in the CV SPA this year.
G-5	Requirement for an Education and Outreach Program (E&O)	Municipal	Implemented	Every municipality in the CVCA watershed has delegated their E & O responsibilities to Quinte, Ottonabee and Crowe Valley Conservation Authorities. Target audiences range from the general public, seasonal residents, landowners in vulnerable areas and municipal staff. All CAs have reported on their E & O efforts and are in compliance with the Trent Source Protection Plan.
G-6	Signage – installation and maintenance of drinking water source protection signs on municipal roads and provincial highways	Municipal & MTO	Implemented	All applicable municipalities in the CV SPA have installed drinking water source protection road signage. There was confusion as to the replacement of old signs with new signs. All signs installed are the newer, provincially approved signs. Likewise, the MTO has installed road signage on provincial highways that travel through Well Head Protection Areas and Intake Protection Zones in the CV Source Protection Area.

General Policies continued				
G-7	Section 57 Prohibition – update the Official Plan to incorporate new Land Use Planning Policies that prohibit certain activities from occurring on the landscape in the future.	Approval Authority under the <i>Planning Act</i>	Implemented	All Official Plans have been adopted by municipal council and either approved or are awaiting final approval. Integrated policies facilitate Section 4 tools under the <i>Clean Water Act</i> .
G-8	Section 58- general provisions for policies that use section 58 Risk Management Plans	Risk Management Official	Ongoing & in Compliance	This policy assists in implementation by providing direction to the RMO/RMI and requiring prioritization of activities that require risk management plans. The deadline to establish all RMPs is 2020.
G-9	Section 59 Restricted Land Use	Risk Management Official and Approval Authority under the <i>Planning Act</i>	Implemented	<p>Municipalities have implemented screening processes that involve building departments, planning staff and Risk Management Officials to ensure that any applications for development are forwarded to the RMO/RMI prior to approval under the Planning Act or Building Code.</p> <p>The RMO/RMI must review the application and issue a notice under section 59 of the Clean Water Act.</p> <p>Municipalities have added the section 59 notice from a RMO as an item required for a complete application under the <i>Planning Act</i>.</p>
G-10	Decisions under the <i>Planning Act</i>	Approval Authority under the <i>Planning Act</i>	Implemented	Municipalities and Counties have included policies in Official Plan Amendments and Zoning By-law Amendments to facilitate Section 4 tools under the <i>Clean Water Act</i> . These amendments have either been approved, or the draft has been adopted by council and is awaiting final approval from MMA.
G-11	Emergency Response Planning	Municipal	Implemented	<p>The integration of source water protection into Emergency Response Planning documents has been implemented among all CV SPA municipalities. Mapping products have been made available for use by emergency responders.</p> <p>Improvements to making this integration of source water protection more seamless within these documents and in emergency protocol will be a priority in 2018.</p> <p>Marmora & Lake took the initiative to test the effectiveness of current communication protocols by carrying out a mock emergency scenario exercise.</p>

Sewage				
S-1	Reporting of Mandatory Maintenance Inspection Program for sewage systems	Municipality	Implemented	Municipalities and Health Units have completed all septic system inspections in the CV SPA. These inspections resulted in several cases where it was identified that minor or major maintenance activities are required.
S-2	Existing sewage works that require a prescribed instrument	MOECC	Not Applicable	This section was not formally reported by MOECC. Although MOECC processes are in place, the CV SPA does not have any significant drinking water threats related to sewage works requiring prescribed instruments, except for municipal waste water treatment plants.
S-3	Future sewage works that require a prescribed instrument	Approval Authority under the <i>Planning Act</i> and MOECC	Implemented	Municipal land use planning policies that prohibit certain works are integrated into Official Plan Amendments and Zoning By-Law Amendments (see G-7 for approval authority / municipal planning response). All Official Plans have been adopted by municipal council and either approved or are awaiting final approval. Processes are in place at the MOECC.
S-4	By-law requiring connection of existing septic systems to a municipal sewage collection system	Municipality	Implemented	Municipalities that are required to implement this policy have established the required by-laws.
S-5	Policy requiring connection of existing septic systems to a municipal sewage collection system	Approval Authority under the <i>Planning Act</i>	Implemented	Municipalities that are required to implement this policy have established the required by-laws.
S-6	Update Emergency Response Plan and asset management activities for a sewage treatment plant disinfection failure	Municipal	Implemented	Updates to the Municipal Emergency Response Plan in HBM have occurred to satisfy this policy. Additionally, council approved an amendment to the existing emergency management documents December 18, 2017. No other municipalities are required to satisfy this policy due to the location of their vulnerable areas.
S-7	Future wastewater collection facilities requirements	MOECC and Approval Authority under the <i>Planning Act</i>	Implemented	No proposals in 2017 to report. Planning process in place as municipalities and counties have updated official plans and zoning by-law amendments to satisfy the requirements of this policy. Processes are in place at the MOECC (standard operating policies).

Sewage continued				
S-8	Review existing Prescribed Instruments to determine if they are adequate for Existing Stormwater Management Facilities in vulnerable areas. Develop stormwater management facility maintenance program.	MOECC and Municipality	Not Applicable	No existing stormwater management facility threats.
S-9	Other existing waste collection activities	RMO	Not Applicable	There are no other existing waste collection activities that are a significant drinking water threat.
S-10	Other future waste collection activities	RMO	Not Applicable	No new facilities proposed in 2017.
Agriculture				
A-1	Existing agricultural activities requiring RMP	RMO	Not Applicable	No identified agricultural significant drinking water threats in the CV Source Protection Area.
A-2	Review Nutrient Management Plan/Strategy	Provincial Ministries	Implemented	OMAFRA has completed review for 2016-2017. There are no threats in the CV Source Protection Area.
A-3	The requirement for a pesticide permit for existing significant drinking water pesticide threats.	MOECC	Not Applicable	No identified pesticide significant drinking water threat in the CV Source Protection Area.
A-4	Management of future agricultural activities	RMO OMAFRA MOECC	Ongoing & in Compliance	No new agricultural activities were proposed in 2017.
Fuel Handling and Storage				
F-1	Storage of fuel that would be a future significant drinking water threat	RMO	Ongoing	No new fuel storage activities were proposed in 2017. The RMOs will continue to monitor for any new proposed fuel significant drinking water threats and prohibit them if they are proposed to occur in the vulnerable area.

Fuel Handling and Storage continued				
F-2	Managing and negotiation Risk Management Plans for existing fuel storage threats	RMO	Ongoing & in Compliance	<p>The deadline for implementation of the policy is in 2020.</p> <p>Risk management plans have been established and others are currently being negotiated for existing significant drinking water threats by the applicable Risk Management Official. There have been some delays due to property transactions.</p>
Road Salt				
R-1	Risk Management Plan required for existing and future road salt application	RMO	Ongoing & in Compliance	<p>The deadline for implementation of the policy is in 2020.</p> <p>One RMP is been negotiated for existing significant drinking water threats by the applicable Risk Management Official.</p>
R-2	Existing and future road salt application by MTO	MTO	Implemented	Application is undertaken under Salt Management Plan and best management practices. An update to the Salt Management Plan did not occur in 2017. Road Salt will be addressed in upcoming MOECC Technical Rules updates.
R-3	Research related to road salt	MTO	Ongoing	MTO continues to evaluate new innovative materials and procedures to more effectively utilize salt ensuring that only the right amount is place at the right time to maximize its effectiveness for road safety and minimize the impact to the environment. MTO has continued to test various pre-wet and pretreated salt products compared to traditional white salt to identify the equivalent application rates. These are generic testing that would apply across the province once final results are determined.
R-4	Future road salt - consider areas where the activity is a significant drinking water threat during planning processes for the construction of roads.	MTO and Approval Authority under the <i>Planning Act</i>	Ongoing & in Compliance	<p>MTO is supportive of considering source water protection during the planning and environmental assessment process for MTO activities to minimize impacts on source water. The environmental assessment process is an opportune time to include environmental considerations in road design measures as this process is meant to capture and address impacts such as those related to source water protection. MTO currently weights factors in environmental assessment based on project specifics, including consultation with affected stakeholders. Source water protection will be treated like other factors in environmental assessment.</p> <p>No proposals in 2017. Planning process in place – updated Official Plans and Zoning By-Law amendments. 2017 municipal working groups were asked to provide input on proposed policy changes pertaining to road salt.</p>

Road Salt continued				
R-5	Existing road salt storage - requirement for the negotiation of a Risk Management Plan	RMO	Not Applicable	There is no existing road salt storage that is a significant drinking water threat.
R-6	Future road salt storage - prohibited	RMO	Ongoing & in Compliance	No new road salt storage activities were proposed in 2017.
Waste Disposal				
W-1	Existing waste disposal sites with prescribed instruments to be reviewed with Source Water Protection Considerations in mind	MOECC	Not Applicable	No existing waste disposal sites that are a significant drinking water threat in vulnerable areas.
W-2	Future waste disposal sites - prohibited	MOECC and Approval Authority under the <i>Planning Act</i>	Ongoing & in Compliance	No proposals reported in 2017 and municipal planning process in progress to update OP to satisfy the requirements of this policy.
W-3	Existing waste disposal sites not requiring prescribed instruments	RMO	Not Applicable	No existing waste disposal sites that are a significant drinking water threat in vulnerable areas.
Waste Disposal continued				
W-4	Future waste disposal sites not requiring prescribed instruments	RMO	Ongoing & in Compliance	No new waste disposal site activities were proposed in 2017.
DNAPLS and Organic Solvents				
D-1	Existing DNAPL and organic solvent handling and storage - requirement to establish a Risk Management Plan	RMO	Ongoing & in Compliance	The deadline for implementation of the policy is in 2020. Risk management plans are currently being negotiated for existing significant drinking water threats by the applicable Risk Management Official.
D-2	Future DNAPL and organic solvents handling and storage - prohibition or risk management plan	RMO	Ongoing & in Compliance	No new DNAPL or organic solvent activities were proposed in 2017.

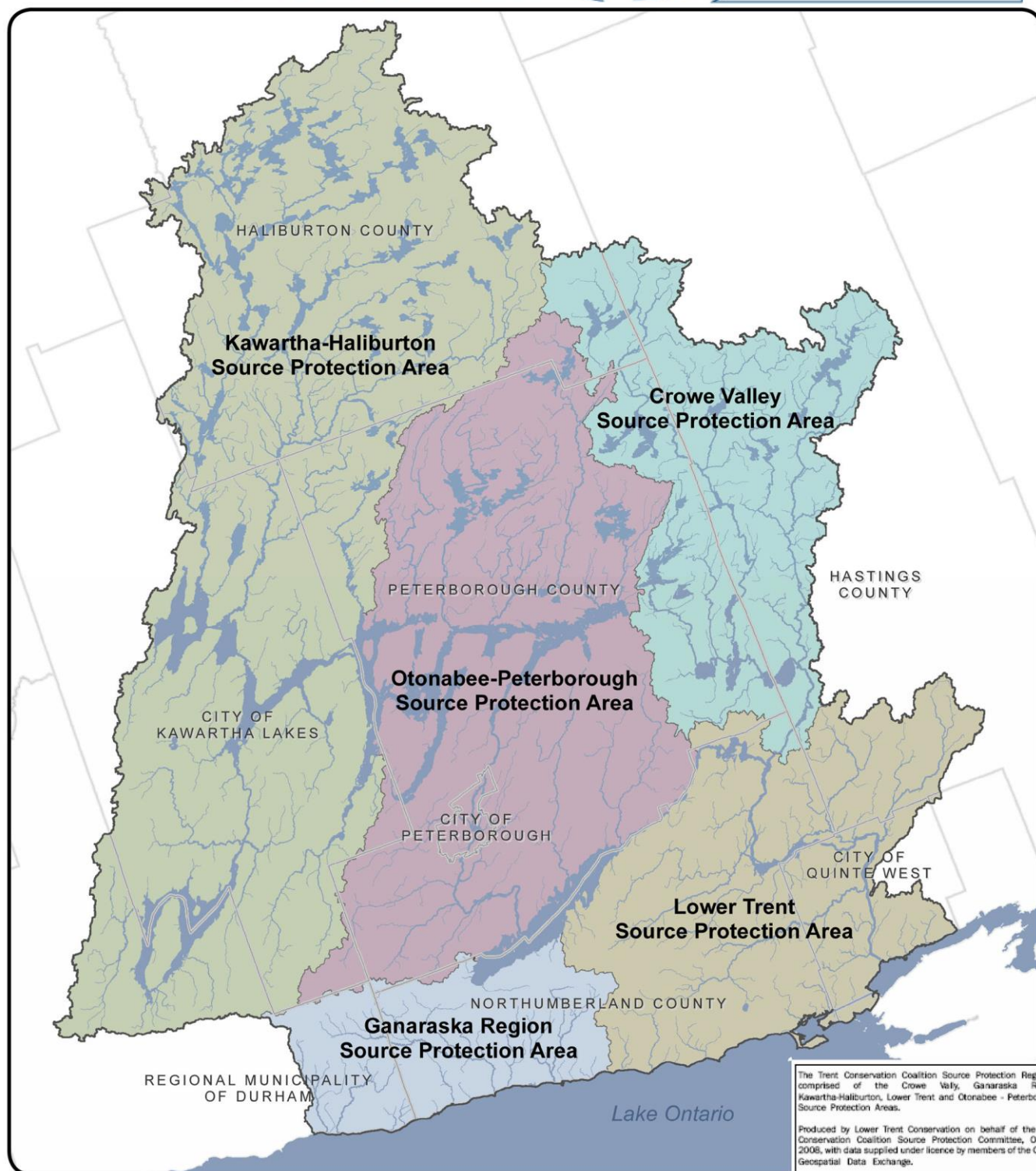
Non-Agricultural Source Materials				
N-1	Existing NASM requiring Prescribed Instrument	OMAFRA	In Progress	OMAFRA review is in progress. Prescribed instruments are in place or being developed.
N-2	Future NASM (except Category 1) application, handling or storage	RMO	Ongoing & in Compliance	No new NASM activities were proposed in 2017.
N-3	Future Category 1 NASM application, handling or storage	RMO	Ongoing & in Compliance	No new NASM activities were proposed in 2017.
Snow Storage				
O-1	Existing snow storage	Municipality and RMO	Not Applicable	No existing snow storage sites that are a significant drinking water threat in vulnerable areas.
O-2	Future snow storage	RMO	Ongoing & in Compliance	No new snow storage site activities were proposed in 2017.
Aircraft De-icing				
P-1	Management of aircraft de-icing chemical runoff	RMO, CV SPA, Airport Authorities	Ongoing & in Compliance	No existing aircraft de-icing activity significant drinking water threats exist in the CV SPA, and none were proposed in 2017.

Optional Policies				
OT-1	Transport corridor spills - request to update transportation corridor spills response plans	Municipality and MOECC	Implemented / Ongoing & in Compliance	<p><u>Municipality</u></p> <p>Emergency Response Planning documents have been updated with source water protection considerations across the CV SPA. Mapping products have been integrated and are now available for use by emergency responders.</p> <p><u>MOECC</u></p> <p>MOECC continues to integrate source protection information into the ministry's spills response programs. No indication of testing of the spill response was reported. No specific information provide regarding provision of mapping, however since any spill reported to the ministry is geo-spatially assessed to determine if it is in a source protection vulnerable area, one might infer that the vulnerable data is available at the Spills Action Centre.</p>
OT-2	<p>Transport pathways-initiate an education and outreach program to inform landowners and operators about the risks of transport pathways.</p> <p>Municipalities are requested to establish bylaws prohibiting the creation of a new transport pathway</p>	Municipality and MOECC	Implemented / Policy Outcomes Evaluated – no further actions required	<p>All municipalities are providing education and outreach to land owners and operators about the risks of transport pathways.</p> <p>Two out of three municipalities have chosen not to implement a bylaw prohibiting transport pathways in 2017. Policy outcomes have been evaluated and such actions do not seem beneficial. No information was reported by the MOECC.</p>
OT-3	Extension of education programs to First Nations	Municipality	Not Applicable	No First Nations Reserves within the CV SPA
OT-4	Collection of climate change data	Various	Ongoing	HBM Municipality is implementing a plan to reduce their carbon and emissions footprint. No other data regarding climate change is available in the watershed and no guidance has been provided by the province. Highlands East reported that they have daily logs of temperature and pH of sewage effluent. CVCA collects benthic invertebrate data, surface water quality data and ground water quality data on an annual or monthly basis.

Optional Policies continued				
OT-5	Lake Ontario Collaboration	MOECC	Implemented	MOECC continues to undertake a wide range of activities designed to raise the profile of the importance of the Great Lakes as a shared source of drinking water by collaborating with a variety of partners.

Glossary

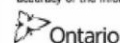
Term	Definition
Implementer	The body responsible for implementation of the policy.
Official Plan	An official plan prepared in accordance with part III of the <i>Planning Act</i> .
Prescribed Instrument	An instrument that is issued or otherwise created under a provision prescribed by the regulations of: (a) the <i>Aggregate Resources Act</i> ; (b) the <i>Conservation Authorities Act</i> ; (c) the <i>Crown Forest Sustainability Act</i> , 1994; (d) the <i>Environmental Protection Act</i> ; (e) the <i>Mining Act</i> ; (f) the <i>Nutrient Management Act</i> , 2002; (g) the <i>Oil, Gas and Salt Resources Act</i> ; (h) the <i>Ontario Water Resources Act</i> ; (i) the <i>Pesticides Act</i> ; or (j) any other <i>Act</i> or regulation prescribed by the regulations.
Restricted Land Uses	A tool provided under section 59 of the <i>Clean Water Act</i> , 2006 used to identify where either a section 57 prohibition or section 58 risk management plan policies are required for future significant drinking water threats.
Risk Management Official	The Risk Management Official appointed under Part IV of the <i>Clean Water Act</i> , 2006. The Risk Management Official is responsible for making decisions about risk management plans and risk assessments and must meet the prescribed criteria in the regulations under the <i>Clean Water Act</i> , 2006.
Risk Management Plan	A tool available under section 58 of the <i>Clean Water Act</i> , 2006. The risk management plan identifies the measures that a person engaged in an activity will take to ensure the activity is no longer a significant drinking water threat.
Significant Drinking Water Threat	A drinking water threat which poses or has the potential to pose a significant risk to drinking water.
Source Protection Area	An area established by subsection 4 (1) of the <i>Clean Water Act</i> , 2006, or by the regulations.
Source Protection Plan	A plan prepared under the <i>Clean Water Act</i> , 2006 intended to protect existing and future sources of drinking water.
Transport Pathways	A condition of land resulting from human activity that increases the vulnerability of a raw water supply of a drinking water system set out in clause 15 (2) (e) of the <i>Act</i> .
Transportation Corridors	A term defining highways (as outlined in subsection 1 (1) of the <i>Highway Traffic Act</i>), railway lines or shipping lanes.



The Trent Conservation Coalition Source Protection Region is comprised of the Crowe Valley, Ganaraska Region, Kawartha-Haliburton, Lower Trent and Otonabee - Peterborough Source Protection Areas.

Produced by Lower Trent Conservation on behalf of the Trent Conservation Coalition Source Protection Committee, October 2008, with data supplied under licence by members of the Ontario Geospatial Data Exchange.

This map is for information purposes only and Lower Trent Conservation takes no responsibility for, nor guarantees, the accuracy of the information contained within the map.



Made possible through the support of the Government of Ontario