

Thames – Sydenham and Region Source Protection Authority Meeting Agenda

Source Protection Authority Upper Thames River

Meeting Date: Tuesday, April 24, 2018

Meeting Time: 9:30 a.m. - Prior to the Start of the UTRCA Board of Directors

Meeting Location: Watershed Conservation Centre Boardroom

Agenda

1. Adoption of the Agenda
2. Approval of Minutes from the previous meeting
 - a) January 24, 2017
3. Business for Approval
 - a) Thames-Sydenham and Region Annual Progress Report
(J.Allain)(Report attached)
4. Business for Information
 - a) Letter to the Minister of the Environment and Climate Change
(Letter attached)
5. Adjournment



Ian Wilcox
General Manager



Upper Thames River Source Protection Authority Meeting
Watershed Conservation Centre Boardroom
London, Ontario
Tuesday, April 24, 2018

Members Present:	M.Blackie M.Blosh R.Chowen A.Hopkins T.Jackson S.Levin	N.Manning S.McCall-Hanlon H.McDermid A.Murray B.Petrie M.Ryan G.Way
Regrets:	J.Salter	T.Birtch
Solicitor:	G.Inglis	
Staff:	J.Allain T.Annett C.Harrington J.Howley C.Hart M.Helsten T.Hollingsworth	S.Pratt A.Shivas M.Snowsell S.Taylor M.Viglianti K.Winfield

M.Blackie explained why the Authority members are meeting as the Upper Thames River Source Protection Authority. He noted with the passing of the Clean Water Act several years ago, Conservation Authorities were legislated the responsibilities for Source Water Protection. Part of that responsibility includes the Board sitting as the Upper Thames River Source Protection Authority periodically to meet obligations under the Act. The UTRCA is part of the Thames Sydenham & Region Source Protection Authority that also includes the Lower Thames Valley Conservation Authority and St. Clair Region Conservation Authority. He noted this is different and separate from the members' role under the Conservation Authorities Act.

1. Adoption of Agenda

The Chair requested a motion to approve the agenda.

B.Petrie moved – G.Way seconded:-

“RESOLVED that the members approve the Agenda as presented.”

CARRIED.

2. Approval of Previous Minutes

The Chair requested approval of the January 24, 2017 minutes.

Brian moved – George seconded:-

“RESOLVED that the minutes of the Upper Thames River Source Protection Authority dated January 24, 2017 be approved as presented.”

CARRIED.

3. Business for Approval

- a) Thames-Sydenham and Region Annual Progress Report
(Report attached)

The report was presented to the members for their consideration. J.Allain introduced her report and highlighted the progress that has been made and the outreach that has been done. The implementation phase has been underway for two years. This report covers the last two years of the implementation phase. Going forward, a progress report will be brought to the Source Protection Authority every year.

S.Levin moved – B.Petrie seconded:-

“RESOLVED that the Source Protection Authority approve the recommendations as presented in the report.”

CARRIED.

J.Allain discussed implementation challenges staff have observed, including some policies that have not been implemented, since they are not legally binding or mandatory, and policies that lack an established timeframe.

There was discussion around the status of the septic inspections. One potential issue is the lack of standard inspection procedure.

J.Allain clarified that the inspection of individual systems, unless within the most vulnerable zone around a municipal drinking water system, would be up to the Municipality.

4. Business for Information

- (a) Letter to the Minister of the Environment and Climate Change

M.Blackie introduced the letter attached and J.Allain spoke to it.

Questions around the role, liability, and jurisdictional limits of the Source Protection Authority were raised. Members asked that staff write a report outlining the governance model. There was a request to see the response to the letter presented.

A.Hopkins moved – M.Ryan seconded:-

“RESOLVED that the Source Protection Authority
accept the report as presented.”

CARRIED.

4. Adjournment

There being no further business to discuss the meeting was adjourned at 10:06 a.m. on a motion
by N.Manning.



I.Wilcox
General Manager
/mv

M.Blackie
Chair

Report to Upper Thames River Source Protection Authority

Cc SP Management Committee

Date April, 2018

From Jenna Allain, Source Protection Coordinator

Re: Drinking Water Source Protection Annual Progress Report

Purpose

To approve the submission of the Thames-Sydenham and Region Source Protection Annual Progress Report to the Ministry of the Environment and Climate Change.

Background

In accordance with Ontario Regulation 287/07 s.52, all three Thames-Sydenham and Region Source Protection Authorities (Lower Thames Valley, St. Clair Region, Upper Thames River) are required to submit a Regional Annual Progress Report to the Director of the Source Protection Programs Branch by May 1 in the year following the year to which the report applies. Both the Ministry of the Environment and Climate Change's (MOECC) Source Protection Annual Progress Report and the Supplemental Form are to be submitted as they are considered "prescribed forms" under O. Reg. 287/07 s.52(5). The first Thames-Sydenham and Region Annual Progress Report and Supplemental Form are due for submission to the MOECC in May 2018.

Annual Progress Report and Supplemental Form

The Thames-Sydenham and Region Annual Progress Report is a public-facing document developed by the MOECC and prepared by Thames-Sydenham and Region staff (Appendix A). The report provides valuable information about the implementation of the Thames-Sydenham and Region Source Protection Plan and the overall success of the program. The first Thames-Sydenham and Region Annual Progress Report reflects implementation efforts from January 1, 2015 to December 31, 2017; subsequent progress reports will highlight information and data collected from actions taken during the previous calendar year.


Information presented in the progress report is intended to be a high-level reflection of annual reporting results collected through the Thames-Sydenham and Region Supplemental Form. The Supplemental Form is a tool to collect key information from implementing bodies to help convey the story of progress made in the Thames-Sydenham Source Protection Region using a series of "reportable items" or questions organized by theme (Appendix B). Some themes are specific and mirror policy tools, e.g., Prescribed Instruments, while others are more broad, e.g., municipal integration of source protection, achievement of source protection objectives.

The theme, "achievement of source protection plan objectives" includes two reportable items that require Source Protection Committee (SPC) input: the first, the committee's opinion on the extent to which objectives in the plan have been achieved during the reporting period and the second, comments to explain how the committee arrived at its opinion. The Thames-Sydenham

and Region Source Protection Committee has reviewed the results of the Supplemental Form and Annual Progress Report and recommend the following responses:

Reportable Item ID 43a

In the opinion of the Source Protection Committee (SPC), to what extent have the objectives of the SPP been achieved in this reporting period?

<p>Progressing well/on target – Majority of the source protection plan policies have been implemented and/or are progressing well.</p>	
<p>Satisfactory – Some of the source protection plan policies have been implemented and/or are progressing well.</p>	
<p>Limited progress made – A few of the source protection plan policies have been implemented and/or are progressing well.</p>	

Reportable Item ID 43b

Please provide comments to explain how the SPC arrived at its opinion. Include a summary of any discussions that might have been had amongst the SPC members, especially where no consensus was reached.

Overall, significant progress in the Thames-Sydenham and Region has been made since the Source Protection Plan came into effect. During the last two years of plan implementation, 84% of the policies that address significant drinking water threats have been implemented or are in progress. Of the 1,054 existing threats that were enumerated at the time of Plan approval, over half are considered addressed because the Plan policies have been implemented, or have been confirmed to no longer exist.

The Committee has been pleased with the actions taken by municipalities within the Thames-Sydenham and Region. All 27 municipalities with source protection implementation responsibilities have incorporated source protection considerations into municipal business processes. Municipalities have also made considerable progress in the implementation of mandatory septic inspections, with 85% of the first mandatory inspections now complete. Local Risk Management Officials have made substantial efforts to get out and confirm the presence or absence of significant drinking water threats, and negotiate Risk Management Plans where required.

For the reasons outlined above, the Source Protection Committee feels confident in their assessment that implementation of the Source Protection Plans is progressing well/on target.

Recommendation

That the Upper Thames River Source Protection Authority direct staff to submit the Thames-Sydenham and Region Source Protection Annual Progress Report and Supplemental form to the Director of the Source Protection Programs Branch of the Ministry of the Environment and Climate Change.

DRINKING WATER
SOURCE PROTECTION
Our Actions Matter

Annual Progress Report

on Implementation of the Source Protection Plans for the
Thames-Sydenham & Region Source Protection Areas

Reporting Period - December 31, 2015 to December 31, 2017

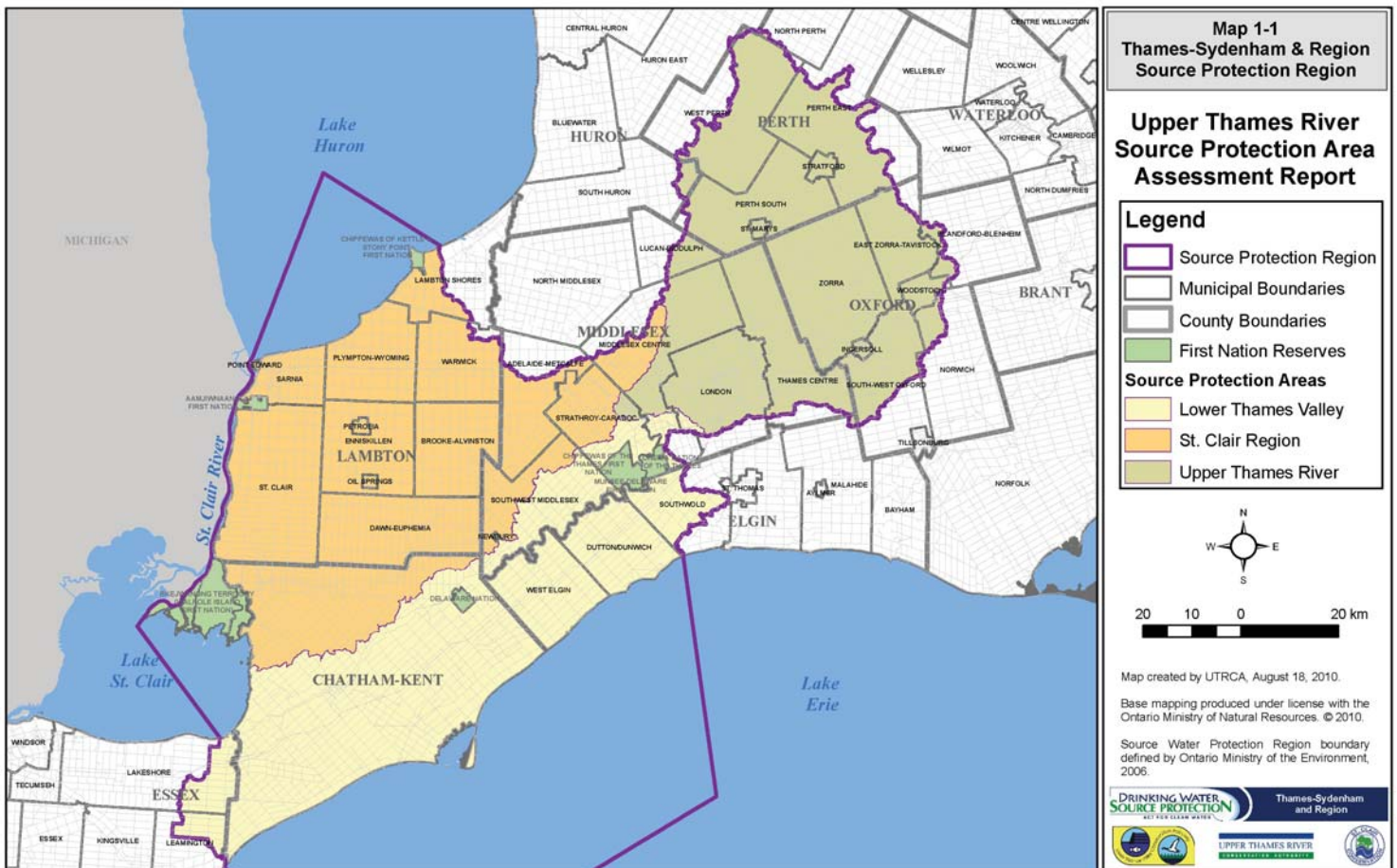
For more information about the drinking water source protection plan, visit
www.sourcewaterprotection.on.ca

Source Protection Annual Progress Report | 01-05-2018

I. Introduction

This annual progress report outlines the progress made in implementing our source protection plan for the Lower Thames Valley Source Protection Area, St. Clair Region Source Protection Area and Upper Thames River Source Protection Area, as required by the Clean Water Act and regulations.

This is the first Annual Report on the implementation progress of the Drinking Water Source Protection Program in the Thames-Sydenham and Region. The report was written for the citizens of the Thames-Sydenham and Region, the Thames-Sydenham Source Protection Committee, and local stakeholders. We acknowledge and recognize the tremendous efforts made by our local municipalities, stakeholders, and the Source Protection Committee in the development of the Source Protection Plans, implementation of Source Protection Plan policies, and development of this annual report.



II. A message from your local Source Protection Committee

Our progress score on achieving source protection plan objectives this reporting period:

- P : Progressing Well/On Target** – The majority of the source protection plan policies have been implemented and/or are progressing.
- S : Satisfactory** – Some of the source protection plan policies have been implemented and/or are progressing.
- L : Limited progress** – A few of source protection plan policies have been implemented and/or are progressing.

Overall, significant progress in the Thames-Sydenham and Region has been made since the Source Protection Plan came into effect. During the last two years of plan implementation, 84% of the policies that address significant drinking water threats have been implemented or are in progress. Of the 1,054 existing threats that were enumerated at the time of Plan approval, over half are considered addressed because the Plan policies have been implemented, or have been confirmed to no longer exist.

The Committee has been pleased with the actions taken by municipalities within the Thames-Sydenham and Region. All 27 municipalities with source protection implementation responsibilities have incorporated source protection considerations into municipal business processes. Municipalities have also made considerable progress in the implementation of mandatory septic inspections, with 85% of the first mandatory inspections now complete. Local Risk Management Officials have made substantial efforts to get out and confirm the presence or absence of significant drinking water threats, and negotiate Risk Management Plans where required.

For the reasons outlined above, the Source Protection Committee feels confident in their assessment that implementation of the Source Protection Plans is progressing well/on target.

III. Our Watersheds

To learn more, please read our assessment report(s) and source protection plan(s).

The Thames-Sydenham and Region is made up of the watersheds of Lower Thames Valley, the St. Clair Region, and the Upper Thames River.

The Lower Thames Valley Source Protection Area includes those lands draining into the Thames River from the community of Delaware to Lake St. Clair. It also includes the lands that drain into Lake Erie lying south of the lower Thames River watershed and a small triangle of land north of the mouth of the Thames draining directly into Lake St. Clair. This area includes most of the municipality of Chatham-Kent, the western portion of Elgin County, part of southwestern Middlesex County (including some of the City of London) and a portion of eastern Essex County. The Lower Thames Valley Source Protection Area also includes four First Nation reserves; the Chippewas of the Thames First Nation, Delaware Nation, Munsee-Deleware Nation and Oneida Nation of the Thames. Caldwell First Nation is also established in the area between Leamington and Rondeau Bay; however they currently do not have a reserve. The area covers approximately 3,274 square kilometres with a total watershed population (2001) of about 107,000.

The residents of the Lower Thames Valley Source Protection Area receive most of their municipal drinking water from Lake Erie through 3 intakes. The communities of Ridgetown and Highgate receive their drinking water from municipal wells. Some parts of the watershed within Essex County receive their municipal drinking water from intakes in Lake St. Clair. Although the drinking water for much of the population of the Lower Thames is supplied from municipal drinking water sources, some residents rely on water from private wells.

The St. Clair Region Source Protection Area includes the Sydenham River drainage basin and several smaller watersheds that drain to Lake Huron, the St. Clair River or Lake St. Clair. The Source Protection Area covers over 4,100 square kilometres and includes most of the County of Lambton, part of the Municipality of Chatham-Kent and part of the County of Middlesex with a total watershed population of 167,000. The area also includes three First Nation reserves; Chippewas of Kettle and Stoney Point, Aamjiwnaang, and Walpole Island First Nations.

The residents of the St. Clair Region Source Protection Area receive most of their municipal drinking water from Lake Huron and the St. Clair River through 3 intakes. Parts of Middlesex County receive their municipally supplied drinking water from an intake in Lake Huron outside the Source Protection Region. There are no longer any communities in the St. Clair Region that receive drinking water from municipal wells. Although the drinking water for much of the population of the Lower Thames is supplied from municipal drinking water sources, some residents rely on water from private wells.

The Upper Thames River Source Protection Area includes all areas draining into the Thames River above the community of Delaware. This covers large parts of Oxford, Perth and Middlesex Counties including most of the City of London. Very small portions of Huron and Elgin Counties also drain into the upper Thames River. The area covers approximately 3,423 square kilometres with a total watershed population (2001) of about 472,000. There are no First Nations in the Upper Thames River Source Protection Area.

The residents of the Upper Thames River Source Protection Area receive their municipal drinking water from Lake Huron or Erie through 2 intakes in other Source Protection Areas. Many of the communities in Perth and Oxford Counties rely on groundwater for municipally supplied drinking water. Although the drinking water for much of the population of the Upper Thames is supplied from municipal drinking water sources, many rural residents rely on water from private wells.

IV. At a Glance: Progress on Source Protection Plan Implementation

1. Source Protection Plan Policies

P : Progressing Well/On Target

Many of the policies (84%) that address significant drinking water threats are either fully implemented or are in progress. In 2017, significant gains were made by Risk Management Officials, municipalities and Provincial Ministries to implement the policies that target activities that pose the greatest risk to sources of municipal drinking water.

2. Municipal Progress: Addressing Risks on the Ground

27 municipalities in our source protection region have vulnerable areas where significant drinking water threat policies apply. The total number of lower-tier, upper-tier and single tier municipalities in the Thames-Sydenham Source Protection Region is 47.

P : Progressing Well/On Target - All of the municipalities (100%) in our source protection region have processes in place to ensure that their day-to-day planning and building permit decisions conform with our source protection plans.

Municipalities in our source protection region also are required to take the next step to review and update their Official Plan to ensure it conforms with the local source protection plans the next time they undertake an Official Plan review under the Planning Act. 22 municipalities have amended or are in the process of amending their Official Plan to conform with the source protection plans for our region.

3. Septic Inspections

P : Progressing Well/On Target

85% of on-site sewage systems have been inspected in accordance with the Ontario Building Code. Inspection results found the majority (88%) are functioning as designed and did not require any minor or major maintenance work.

4. Risk Management Plans

P : Progressing Well/On Target

In the previous calendar year, 35 risk management plans were established in our source protection region. Since our source protection plan took effect, a total of 41 risk management plans have been established.

296 inspections have been carried out or planned by a Risk Management Official/Inspector for prohibited or regulated activities. There is a 100% compliance rate with the risk management plans established in our source protection region.

5. Provincial Progress: Addressing Risks on the Ground

P : Progressing Well/On Target

Ontario ministries are reviewing previously issued provincial approvals (i.e., prescribed instruments, such as environmental compliance approvals under the Environmental Protection Act) where they have been identified as a tool in our plan to address existing activities that pose a significant risk to sources of drinking water. The provincial approvals are being amended or revoked where necessary to conform with plan policies. Our policies set out a timeline of 5 years to complete the review and make any necessary changes. The ministries have completed this for 58% of previously issued provincial approvals in our source protection region.

6. Source Protection Awareness and Change in Behaviour

New, provincial standard road signs mark locations where well-used roads cross into zones where municipal drinking water sources are the most vulnerable to contamination. The road signs provide general public awareness about the sensitivity of the area. They will also alert first responders of the need to quickly inform the appropriate authorities so action can be taken to keep contaminants out of the public water treatment and distribution system. A total of 115 Drinking Water Protection Zone signs have been installed on roadways in the Thames-Sydenham Source Protection Region.

7. Source Protection Plan Policies: Summary of Delays

Incentive programs are not being considered by most organizations in the Thames-Sydenham Region as suggested by Policy 1.04 of the Source Protection Plan. If Provincial funding support were made available to help offset the costs of an incentive programs, more organizations would be open to the consideration of an incentive program. It should be noted that this is a non-legally binding policy in the Source Protection Plan.

Discretionary Septic System Maintenance Inspections programs targeting moderate and low septic system threats have not yet been considered by municipalities in the Thames-Sydenham and Region. Discretionary inspections are recommended in policy 3.01, and as above, it should be noted that this is a non-legally binding policy. At this point in time, municipalities have been focusing on the mandatory septic inspections as required for septic systems that pose a significant threat to drinking water. More consideration will be given to discretionary inspections once the mandatory inspections are complete.

8. Source Water Quality: Monitoring and Actions

There are three drinking water quality issues that have been identified for drinking water systems in the Thames-Sydenham and Region. They include:

- Microcystin at the Wheatley and Chatham/South Kent Surface Water Intakes
- Nitrates at the Wallaceburg Surface Water Intake
- Nitrogen at the Woodstock Well System

Monitoring of these issues continues at all drinking water systems identified, but at this point in time there is not enough data/information available to determine changes in the concentration/trend of these issues.

Further monitoring is required and will continue.

9. Science-based Assessment Reports: Work Plans

No work plans were required to be implemented for our assessment reports.

10. More from the Watershed

To learn more about our source protection region/area, visit our Homepage.

<http://www.sourcewaterprotection.on.ca>

Place photos here



DRINKING WATER
SOURCE PROTECTION
ACT FOR CLEAN WATER

WE'RE COMMITTED TO

SAFE
DRINKING
WATER

...ASK US HOW

SOURCEWATERPROTECTION.ON.CA



DRINKING WATER
SOURCE PROTECTION

Our Actions Matter

Office located at:

Upper Thames River Conservation Authority
1424 Clarke Road, London, Ontario, N5V 5B9
Tel: 519.451.2800 Fax: 519.451.1188

Ministry of Environment and Climate Change, Source Protection Program Branch

Annual Progress Reporting Supplemental Form for Source Protection

December 22, 2016

UPDATE #1: February 1, 2017 to clarify instructions and reportable items

UPDATE #2: November 2017

Annual Progress Reporting Supplemental Form for Source Protection

ACTION REQUIRED	Complete all applicable sections of this annual progress reporting supplemental form to report on progress made on the implementation of source protection plan (SPP) policies in your source protection region/area (SPR/A).			
PURPOSE	<p>This supplemental form provides a standardized approach for the sharing of critical information from the source protection authorities (SPA) on implementation progress. This form will be used to:</p> <ul style="list-style-type: none"> • Assess plan implementation to demonstrate progress made in protecting sources of drinking water; • Support a consistent assessment of implementation progress across the province through a predictable, consistent, and reliable manner; • Contribute to the Minister’s summary on progress made in source protection as required by subsection 46(7) of the <i>Clean Water Act</i> (CWA) and that is prepared by the ministry under the <i>Safe Drinking Water Act, 2002</i>; • Support the Ministry of Environment and Climate Change (MOECC)’s responses to requests for information from senior management, SPA, stakeholders, and members of the general public; • Corroborate the MOECC’s responses to any related program area audits; • Validate MOECC’s responses to the Environmental Commissioner of Ontario, as requested; and, • Provide general compliance oversight. 			
GUIDANCE	The document titled “Guidance and Rationale: Annual Progress Reporting Supplemental Form for Source Protection” has been created to complement this supplemental form. SPAs are encouraged to consult this guidance document which provides further direction on completing the reportable items in this form as well as a rationale for each of the reportable items.			
REPORTING PERIOD	Due to the staggered effective dates of the SPPs, the reporting period will vary. For those SPR/As submitting their first official annual progress report and supplemental form, the reporting period covers actions taken on SPP policies from the effective date of their SPP to December 31 st of the second calendar year following the year in which their SPPs take effect. For those SPR/As who are submitting their second or subsequent annual progress report and supplemental form, the reporting period is the previous calendar year unless otherwise indicated (i.e., when the information is requested on a cumulative basis).			
SUBMISSION DEADLINE	<p>Both the public-facing annual progress report template and annual progress reporting supplemental form will be due by May 1st of every year.</p> <p>This form is due by <u>May 1, 2018</u> from the following SPAs: Lakehead, Niagara, Mattagami, Mississippi-Rideau, Lake Erie-Kettle Creek, Lake Erie-Catfish Creek, Sudbury, Trent Conservation Coalition, Raisin-South Nation, Quinte, Cataraqui, Ausable Bayfield Maitland Valley, South Georgian Bay Lake Simcoe, North Bay Mattawa, Sault Ste. Marie, Essex, Credit River, Toronto and Region and Central Lake Ontario, Halton-Hamilton, and Thames Sydenham & Region.</p> <p>This form is due by <u>May 1, 2019</u> from the previously listed SPAs as well as from Saugeen Grey Sauble Northern Bruce Peninsula, Lake Erie – Long Point, and Lake Erie – Grand River.</p>			
QUESTIONS	<p>The completed supplemental form as well as any questions you may have on completing the form are to be submitted and directed to the following staff at the SPPB:</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 33%;"> Neil Gervais, Senior Drinking Water Program Advisor neil.gervais@ontario.ca </td> <td style="width: 33%;"> Michael Halder, Research and Planning Analyst michael.halder@ontario.ca </td> <td style="width: 33%;"> Copy your Liaison Officer (Bilal Kidwai, Mary Wooding or Brian Wright) <i>and</i> send to source.protection@ontario.ca </td> </tr> </table>	Neil Gervais, Senior Drinking Water Program Advisor neil.gervais@ontario.ca	Michael Halder, Research and Planning Analyst michael.halder@ontario.ca	Copy your Liaison Officer (Bilal Kidwai, Mary Wooding or Brian Wright) <i>and</i> send to source.protection@ontario.ca
Neil Gervais, Senior Drinking Water Program Advisor neil.gervais@ontario.ca	Michael Halder, Research and Planning Analyst michael.halder@ontario.ca	Copy your Liaison Officer (Bilal Kidwai, Mary Wooding or Brian Wright) <i>and</i> send to source.protection@ontario.ca		

Annual Progress Reporting Supplemental Form for Source Protection

SOURCE PROTECTION PLAN REGION/AREA	Thames-Sydenham Source Protection Region
REPORTING PERIOD	December 31, 2015 – December 31, 2017
DATE SUBMITTED (dd-mm-year)	01-05-2018

Reportable theme	Who ¹ compiles this information?	ID	Reportable Items	Performance Measures			Outcomes ² (S, M, L)																						
				ID	Measure	Target/Trend																							
Monitoring Policy Implementation	SPA	1a	<p>Did all implementing bodies (IBs) submit a status update/report to the SPA for the reporting periods noted below?</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2" style="width: 40%; text-align: center;">MONITORING POLICY REPORTING PERIOD</th> <th colspan="2" style="width: 15%; text-align: center;">RESPONSE</th> <th rowspan="2" style="width: 45%;">If no, how many implementing bodies did not submit their status updates?</th> </tr> <tr> <th style="width: 5%; text-align: center;">Yes</th> <th style="width: 5%; text-align: center;">No</th> </tr> </thead> <tbody> <tr> <td>Year 1 (from effective date of SPP to December 31 of same year)³</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> </tr> <tr> <td>Year 2 (January 1 to December 31 of calendar year following Year 1)</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> </tr> <tr> <td>Year 3 (January 1 to December 31 of calendar year following Year 2)</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> </tr> <tr> <td>Year 4 (January 1 to December 31 of calendar year following Year 3)</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> </tr> </tbody> </table> <p>Reporting Frequency: Ongoing (annually) or on an as needed basis</p>	MONITORING POLICY REPORTING PERIOD	RESPONSE		If no , how many implementing bodies did not submit their status updates?	Yes	No	Year 1 (from effective date of SPP to December 31 of same year) ³	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Year 2 (January 1 to December 31 of calendar year following Year 1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Year 3 (January 1 to December 31 of calendar year following Year 2)	<input type="checkbox"/>	<input type="checkbox"/>		Year 4 (January 1 to December 31 of calendar year following Year 3)	<input type="checkbox"/>	<input type="checkbox"/>		N/A	N/A	N/A	N/A
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	SPA	1b	<p>Complete the table below to indicate which implementing body(ies) did not submit a status update/monitoring policy report and the reason(s) for not submitting. Insert additional rows as needed.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 40%; text-align: center;">Name of Implementing Body</th> <th style="width: 60%; text-align: center;">Explanation</th> </tr> </thead> <tbody> <tr> <td colspan="2">Year 1 (from effective date of SPP to December 31 of same year)⁴</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td colspan="2">Year 2 (January 1 to December 31 of calendar year following Year 1)</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td colspan="2">Year 3 (January 1 to December 31 of calendar year following Year 2)</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td colspan="2">Year 4 (January 1 to December 31 of calendar year following Year 3)</td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table> <p>Reporting Frequency: Ongoing (annually) or on an as needed basis</p>	Name of Implementing Body	Explanation	Year 1 (from effective date of SPP to December 31 of same year) ⁴				Year 2 (January 1 to December 31 of calendar year following Year 1)				Year 3 (January 1 to December 31 of calendar year following Year 2)				Year 4 (January 1 to December 31 of calendar year following Year 3)											
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Implementation status⁵ of SPP policies	SPA & SPPB	2a	<p>Complete the tables below to indicate the implementation status of various policies in the SPP. NOTE: The percentages calculated and reported in tables 1 to 3 below should be cumulative percentages (i.e., status of policies since the SPP effective date). See Guidance for more details.</p> <p style="text-align: center; margin-top: 10px;">Table 1. Implementation status of policies that address <i>significant</i> drinking water threat activities.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 60%; text-align: center;">Implementation Status Category</th> <th style="width: 40%; text-align: center;">Percentage of Plan Policies</th> </tr> </thead> <tbody> <tr> <td>Implemented</td> <td style="text-align: center;">28%</td> </tr> <tr> <td>Policy outcome(s) evaluated; no further action(s) required</td> <td></td> </tr> </tbody> </table>	Implementation Status Category	Percentage of Plan Policies	Implemented	28%	Policy outcome(s) evaluated; no further action(s) required		A	Percent of policies that address significant drinking water threats have been/are being implemented (Table 1).	100% of policies that address significant drinking water threats have been/are being implemented.	M (#5, #6) L (#10)																
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Implemented	28%																												
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¹ **NOTE:** The SPPB is sometimes listed in the second column to indicate where SPPB may facilitate the collection and sharing of information to the SPAs on the implementation of policies by provincial ministries.

² The anticipated outcomes are denoted with “S” for a short-term outcome, “M” for a medium-term outcome, and “L” for a long-term outcome. The letters S, M, L are followed by a number in brackets that corresponds with the specific program outcome described in the program outcomes document and displayed in the program logic model. Please refer to these documents for more information.

³ For CTC, Hamilton-Halton, and Thames Sydenham and Region, the Year 1 monitoring policy reporting period is from December 31, 2015 (i.e., the effective dates of these three SPPs) to December 31, 2016.

⁴ For CTC, Hamilton-Halton, and Thames Sydenham and Region, the Year 1 monitoring policy reporting period is from December 31, 2015 (i.e., the effective dates of these three SPPs) to December 31, 2016.

⁵ Please refer to the accompanying Guidance document for a detailed description of each of the implementation status categories as used in this form.

Reportable theme	Who ¹ compiles this information?	ID	Reportable Items			Performance Measures			Outcomes ² (S, M, L)																																								
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Implementation status of SPP policies (as per O. Reg. 287/07, ss. 52(1), p. 1)	SPA & SPPB	2b	<p>Summarize the reasons for results recorded above as being "No progress made" and/or "No information available/no response received" by the dates specified in your source protection plan for significant drinking water threat activities (Table 1) and for any moderate/low threat policies that used prescribed instruments and <i>Planning Act</i> tools by completing the table below with the following details. Insert additional rows as needed.</p> <table border="1"> <thead> <tr> <th>Policy ID</th> <th>Implementing Body</th> <th>Explanation of why actions were not taken by the person(s) or body(ies)</th> <th>Outline next steps to support implementation</th> </tr> </thead> <tbody> <tr> <td>3.01</td> <td>Municipalities</td> <td>In the TSR, it has taken some time to initiate the mandatory septic inspections which are still in progress at current reporting time. More consideration may be given to discretionary inspections once mandatory inspections are complete</td> <td>Review policy as part of Section 36 work plan.</td> </tr> <tr> <td>1.04</td> <td>Organizations including but not limited to Municipalities and Conservation Authorities</td> <td>Incentive programs are not being considered by most organizations at this time. If Provincial funding support were made available for an incentive program, organizations may consider implementing this policy.</td> <td>Review policy as part of Section 36 work plan.</td> </tr> </tbody> </table> <p>Reporting Frequency: Ongoing (annually) or on as needed basis</p>	Policy ID	Implementing Body	Explanation of why actions were not taken by the person(s) or body(ies)	Outline next steps to support implementation	3.01	Municipalities	In the TSR, it has taken some time to initiate the mandatory septic inspections which are still in progress at current reporting time. More consideration may be given to discretionary inspections once mandatory inspections are complete	Review policy as part of Section 36 work plan.	1.04	Organizations including but not limited to Municipalities and Conservation Authorities	Incentive programs are not being considered by most organizations at this time. If Provincial funding support were made available for an incentive program, organizations may consider implementing this policy.	Review policy as part of Section 36 work plan.																																		
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				ID	Measure	Target/Trend							
Part IV (Section 57 – Prohibition, Section 58 - Risk Management Plan & Section 59 - Restricted Land Uses)	SPA	3a	<p>If applicable to the SPR/A, complete the table below for risk management plans (RMPs) established.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Total number of RMPs agreed to/established within the SPR/A since effective date of the SPP (i.e., cumulative total) (Column A)</th> <th>Number of RMPs agreed to or established within the SPR/A (for existing and future threats) during the reporting period (i.e., annual total) (Column B)</th> <th>Total number of properties (i.e., parcels) with RMPs agreed to or established since the effective date of the SPP (Column C)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">41</td> <td style="text-align: center;">35</td> <td style="text-align: center;">39</td> </tr> </tbody> </table> <p>Reporting Frequency: Ongoing (annually)</p>	Total number of RMPs agreed to/established within the SPR/A since effective date of the SPP (i.e., cumulative total) (Column A)	Number of RMPs agreed to or established within the SPR/A (for existing and future threats) during the reporting period (i.e., annual total) (Column B)	Total number of properties (i.e., parcels) with RMPs agreed to or established since the effective date of the SPP (Column C)	41	35	39	D	Total number of risk management plans established since the effective date of the SPP.	Increasing over time until all required activities have RMPs established.	S (#1, #2) M (#5, #6, #7) L (#9, #10)
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	41	35	39										
					E	Total number of properties that are subject to risk management plans since the effective date of the SPP.	All properties that are subject to section 58 have RMPs established.						
				N/A	No direct measure, but links with measure "O" associated with Implementation Status and Enumerated Threats: Percent of significant drinking water threats that existed in the area when the SPP was approved and that have been addressed (i.e., eliminated or managed).	N/A	N/A						
	SPA	3b	<p>How many existing* significant drinking water threats have been managed through the established RMPs since the plan took effect (i.e., the cumulative count)? <u>79</u> (* meaning engaged in OR enumerated as existing significant threats)</p> <p>NOTE: SPAs are asked to maintain a running tally of progress in addressing existing significant threats that were on the ground before plans were approved. The running tally consists of the formula: A+B-C-D. See corresponding reportable item #39. See guidance document for additional details.</p> <ul style="list-style-type: none"> A = Original estimate of SDWT engaged in/enumerated when SPP approved B = Additional SDWT identified after first SPP approved as a result of field verification (i.e., <u>not</u> part of original estimate of SDWT) C = SDWT included in enumeration estimates at time of plan approval but subsequently determined through field verification that: (i) it was not actually engaged in at a particular location after all OR (ii) it was no longer engaged in (e.g., land may still have an agricultural operation but owner no longer applying pesticides for their own reasons) D = SDWT addressed because policy is implemented* (*Note: Where multiple policy tools address any given threat sub-category, implemented means that actions associated with at least one policy tool have been completed/are in place.) SPAs may use their local discretion in which policy tool they wish to reflect as being implemented. <p>Reporting Frequency: Ongoing (annually) or until such time all existing (enumerated) threats are managed according to plan policies</p>										
	SPA	4	<p>[OPTIONAL]: What gaps, if any, are risk management measures that are included in RMPs addressing as they relate to drinking water threat activities?</p> <p>RESPONSE: Spill and Emergency Response Plans developed; Employees trained on Spill and Emergency Response Plans; Personnel Training re: Source Water Protection; Documentation of regular inspections of all hazardous chemical and/or fuel storage areas; Secondary containment and spill kits to adequately and reasonably contain the volume of chemical on site at any time.</p> <p>Reporting Frequency: Ongoing (annually)</p>										
	SPA	5	<p>How many section 59 notices were issued in this reporting period for:</p> <p>(i) activities to which neither a prohibition (section 57) nor a RMP (section 58) policy applied, as per ss. 59(2)(a) of the CWA <u>59</u></p> <p>(ii) activities to which a RMP (section 58) policy applied, as per ss. 59(2)(b) of the CWA <u>9</u></p> <p>Reporting Frequency: Ongoing (annually)</p>										
	SPA	6	<p>For the purposes of section 61 of O. Reg. 287/07, how many notices and/or copies of prescribed instruments that state the prescribed instrument conforms with the significant drinking water threat policies in the SPP (i.e., statement of conformity confirms the instrument holder is exempt from requiring a RMP) did the RMO receive? <u>0</u></p>										

Reportable theme	Who ¹ compiles this information?	ID	Reportable Items	Performance Measures			Outcomes ² (S, M, L)
				ID	Measure	Target/Trend	
			Reporting Frequency: Ongoing (annually)				
			NOTE: The term <i>inspections</i> as used in the reportable items below refer to those conducted as a site visit on a planned (i.e., proactive) and/or responsive (i.e., complaint-based) basis. This includes inspections carried out for threat verification purposes because the Risk Management Inspector (RMI) had reasonable grounds to <i>believe</i> that an activity that is being engaged in on a property may be subject to section 57 (i.e., including those that resulted in no activities found that were subject to section 57). The term <i>contravention</i> as used in the context of inspections refers to activities being undertaken that are in violation of sections 57 and 58 of the CWA relative to the timelines noted in the SPP.	F	Percent of inspections that show conformity with prohibition and risk management plan policies in an approved SPP.	Inspections show 100% conformity with prohibition and risk management plan policies over time.	S (#2) M (#5, #6) L (#9, #10)
	SPA	7a	(i) How many, if any, inspections (including any follow-up site visits) were carried out for activities (existing or future) that are prohibited under section 57 of the CWA? <u>26</u> (ii) How many properties (i.e., parcels) had inspections for the purposes of section 57? <u>21</u> Reporting Frequency: Ongoing (annually)				
	SPA	7b	Among these inspections, how many showed that activities were taking place on the landscape even though they were prohibited (i.e., in contravention) under section 57 of the CWA? <u>0</u> Reporting Frequency: Ongoing (annually)				
	SPA	8	How many <i>existing</i> significant drinking water threats have been prohibited as a result of section 57 prohibitions since the plan took effect (i.e., the cumulative count)? <u>0</u> Reporting Frequency: Ongoing (annually) or until such time all existing (enumerated) threats are prohibited according to plan policies				
	SPA	9a	(i) What is the total number of inspections (including any follow-up site visits) that were carried out for activities that require a RMP under section 58 of the CWA? <u>270</u> (ii) How many properties (i.e., parcels) had inspections for the purposes of section 58? <u>227</u> Reporting Frequency: Ongoing (annually)				
	SPA	9b	Among these inspections, (i) how many were in contravention with section 58 of the CWA (i.e., person engaging in a drinking water threat activity without a RMP as required by the SPP)? <u>0</u> (ii) how many were in non-compliance with the specific contents of the RMP? (Note: Please only include those inspections that showed non-compliance with measures/conditions to manage the actual threat activity.) <u>0</u> Reporting Frequency: Ongoing (annually)	G	Percent compliance with the contents of risk management plans.	100% compliance with RMPs established under section 58 of the CWA.	S (#2) M (#5, #6) L (#9, #10)
	SPA	9c	Where there were cases of non-compliance with RMPs, describe, in general terms, how these cases were resolved? If applicable, please also include the number of any notices and/or orders that may have been issued in the response. RESPONSE: N/A Reporting Frequency: Ongoing (annually)				

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	SPA	10	<p>[OPTIONAL]: What new/additional knowledge (e.g., threats, transport pathways, abandoned wells, etc. and how they are managed), if any, did the lead SPA gain through communication with their RMO/RMIs, based on the RMO/RMI's work in the field?</p> <p>RESPONSE:</p>	N/A	No direct measure. However, this reportable item may help to illustrate the value-added knowledge/benefit the RMOs bring to communities and SPAs through their day-to-day work.	N/A	N/A																																																																																																													
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<p>NOTE: The reportable items for Prescribed Instruments (PIs) applies to ministries responsible for issuing PIs under the following legislation: Environmental Protection Act (MOECC), Ontario Water Resources Act (MOECC), Pesticides Act (MOECC), Safe Drinking Water Act (MOECC), Nutrient Management Act (Ministry of Agriculture, Food and Rural Affairs (OMAFRA)), and Aggregate Resources Act (Ministry of Natural Resources (MNR) and Ministry of Transportation (MTO)). As such, responses to the reportable items below on PI integration and conformity are to be provided by each ministry program area as indicated below.</p>																																																																																																																				
<p>Prescribed instruments - Integration and Conformity</p> <p>NOTE: Since the responses to reportable items #11-#13, #15 and #18 are already provided through the provincial ministry electronic/paper reporting forms, there is no need for the SPA to reproduce the responses in this form. As such, these reportable items have been shaded out. These reportable items are being retained in the supplemental form for information purposes should SPAs wish to share this information with their respective SPC. In this case, SPAs may</p>	SPPB	11	<p>Indicate the specific measures that provincial ministries have taken/are taking to integrate source protection into the business processes of their respective program areas associated with PIs. See ministry PI electronic/paper reporting forms for responses.</p>	H	Number of applicable provincial ministry program areas integrating source protection considerations and/or use source protection science/information in their business or operational processes.	All applicable provincial ministry program areas integrating source protection considerations and/or use source protection science/information in their business or operational processes.	S (#1, #2) M (#4, #5, #6, #7) L (#8, #9, #10)																																																																																																													
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			Guidance documents (e.g., standard operating policy/procedures) available to align with new program changes for source protection for reference by ministry staff					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																				
			Screening process in place to identify incoming PI applications potentially affected by SPP policies					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																				
			Information or other support tools created and/or made available to external stakeholders (i.e. applicants) to inform them that restrictions may result from source protection policies, so that potential impacts can be considered in advance of making an application					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																																																				
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			OMAFRA: Nutrient Management Strategies (NMS)	1	1	0																				
			OMAFRA: Non-Agricultural Source Material (NASM) Plans	1	1	0																				
			MNRF: Aggregates (Fuel storage) – Site Plans/Aggregate Licenses (AL)	0	0	0																				
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			OMAFRA - NMS	2	2	2	0	0	0	0	2	2	100%																
			<p>MOECC: Pesticides</p> <p>NOTE: Since pesticide permits are issued on a seasonal basis, all previously issued permits expire. Where incoming applications seek renewal, detailed screening of the application occurs and the applicable PI policies applied. Consequently, actions taken on previously issued permits are not being tracked and reported separately.</p>																										
			<p>MOECC: Hauled sewage/biosolids Sites</p> <p>NOTE 1: <i>Environmental Protection Act</i> approvals for the land application of processed organic waste on agricultural land were transferred to the <i>Nutrient Management Act</i>. All previous approvals ceased to apply on their expiry date or up to January 1, 2016. As a result, actions taken on these previously issued approvals are not being tracked and reported separately.</p> <p>NOTE 2: Previously issued PIs for hauled sewage disposal sites and land application of processed organic waste (biosolids) on non-agricultural land expire every few years. Whenever incoming applications are received to renew these sites, detailed screening of the application occurs and the applicable PI policies applied. As a result, actions taken on previously issued hauled sewage and biosolids spreading site approvals are not being tracked and reported separately.</p>																										
			<p>OMAFRA: Nutrient Management Plans (NMPs)</p> <p>Since NMPs are issued and reviewed by the PI holders themselves and not by OMAFRA, actions taken on previously issued NMPs are not tracked and reported separately. OMAFRA has, however, sent out notices to NMP holders to inform them of their source protection obligations. See reportable item #18 below or OMAFRA's PI annual reporting form for more details.</p>																										
			<p>Reporting Frequency: Ongoing or until such time as the review/conformity exercise is completed for previously issued PIs</p>																										
	SPPB	17	<p>For the purposes of section 61 of O. Reg. 287/07 (exemption from RMP policy), complete the table below to indicate the number of notices or PIs issued by the applicable provincial ministries that state the PI conforms to the significant drinking water threat policies in the SPP (i.e., statement of conformity confirms the instrument holder is exempt from requiring a Risk Management Plan). Also, state the prescribed drinking water threat activity to which the statements of conformity pertain. (NOTE: <i>May apply to instruments under the Safe Drinking Water Act, Pesticides Act, Nutrient Management Act or Aggregate Resources Act</i>).</p> <table border="1"> <thead> <tr> <th>Number of notices or PI issued</th> <th>Applicable prescribed drinking water threat activity</th> </tr> </thead> <tbody> <tr> <td colspan="2">MOECC: PIs issued under the <i>Safe Drinking Water Act</i></td> </tr> <tr> <td>0</td> <td></td> </tr> <tr> <td colspan="2">Comments:</td> </tr> <tr> <td colspan="2">MOECC: PIs issued under the <i>Pesticides Act</i></td> </tr> <tr> <td>0</td> <td></td> </tr> <tr> <td colspan="2">Comments:</td> </tr> </tbody> </table>									Number of notices or PI issued	Applicable prescribed drinking water threat activity	MOECC: PIs issued under the <i>Safe Drinking Water Act</i>		0		Comments:		MOECC: PIs issued under the <i>Pesticides Act</i>		0		Comments:		N/A	N/A	N/A	N/A
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			<p>OMAFRA: PIs issued under the <i>Nutrient Management Act</i></p> <p>0</p> <p>Comments:</p> <p>MNRF: PIs issued under the <i>Aggregate Resources Act</i></p> <p>0</p> <p>Comments:</p> <p>MTO: PIs issued under the <i>Aggregate Resources Act for road construction</i></p> <p>0</p> <p>Comments:</p>																	
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NOTE: Reportable item #18 is greyed out to indicate that it is not required to be filled out. Responses can be found in OMAFRA's PI reporting form.																				
	SPPB	18	<p>In situations where a provincial ministry does not issue or create the prescribed instrument, briefly describe what is being done by the ministry to ensure the PI conforms with the significant threat policies that use the PI tool. (NOTE: <i>Applicable to only certain OMAFRA instruments issued under the Nutrient Management Act.</i>)</p> <p>RESPONSE: Guidance is currently being developed by OMAFRA for RMOs, farmers and certified individuals that prepare NMPs to use to help determine if a PI conforms to the SDWT policies. MOECC inspectors of ASM and NASM sites, hauled sewage sites, or processed organic waste (aka biosolids) sites, assess compliance with the terms/conditions within the applicable PI associated with the operation as well as other applicable regulatory requirements made under the Nutrient Management Act, Environmental Protection Act, Ontario Water Resources Act or other legislation. In the event any terms or conditions are contained in an instrument to address Source Protection policy requirements, compliance with those terms/conditions is addressed as part of the regular inspection activities.</p>																	
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NOTE: The responses to the group of reportable items below on inspections and compliance are to be provided by ministries responsible for their respective program areas (i.e., waste disposal sites, sewage works/wastewater, pesticides, water taking, aggregates – fuel storage, nutrient management, water works permitting, and drinking water municipal licences) affected by PI policies. The term inspections as used in the following reportable items refer to those conducted on a planned (i.e., proactive) and/or responsive (i.e., complaint-based) basis.																				
Prescribed Instruments – Inspections and Compliance NOTE: Reportable items #19-#21 are shaded in grey as they are not required to be completed by the SPA. Instead, the responses are available in the ministry reporting templates. These reportable items are retained in the supplemental form for reference and reporting purposes for SPAs wishing to share this	SPPB	19	<p>Briefly describe how provincial ministry staff involved in inspections related to PIs have been trained in source protection for each of the program areas in the table below.</p> <table border="1"> <thead> <tr> <th>MINISTRY PROGRAM AREA</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>MOECC: Waste Disposal Sites – landfilling and storage</td> <td rowspan="8">Overall, general source protection training sessions have been made available to all Provincial inspectors on the fundamentals of the Clean Water Act as well as Source Protection implementation activities undertaken by the Ministry; however, completion of this training is not always mandatory. Most programs require NEW inspectors to complete general Source Protection training.</td> </tr> <tr> <td>MOECC: Sewage works/wastewater</td> </tr> <tr> <td>MOECC: Pesticides</td> </tr> <tr> <td>MOECC: Water Taking</td> </tr> <tr> <td>MOECC: Hauled sewage/biosolids and ASM/NASM inspections</td> </tr> <tr> <td>MOECC: Municipal drinking water licences/works permits</td> </tr> <tr> <td>OMAFRA: Nutrient Management</td> </tr> <tr> <td>MNRF: Aggregates (Fuel storage)</td> </tr> <tr> <td>MTO: Aggregates – road construction (Fuel storage)</td> </tr> </tbody> </table>		MINISTRY PROGRAM AREA	DESCRIPTION	MOECC: Waste Disposal Sites – landfilling and storage	Overall, general source protection training sessions have been made available to all Provincial inspectors on the fundamentals of the Clean Water Act as well as Source Protection implementation activities undertaken by the Ministry; however, completion of this training is not always mandatory. Most programs require NEW inspectors to complete general Source Protection training.	MOECC: Sewage works/wastewater	MOECC: Pesticides	MOECC: Water Taking	MOECC: Hauled sewage/biosolids and ASM/NASM inspections	MOECC: Municipal drinking water licences/works permits	OMAFRA: Nutrient Management	MNRF: Aggregates (Fuel storage)	MTO: Aggregates – road construction (Fuel storage)	J	Percentage of relevant ministry program areas with PIs that incorporate source protection considerations into their respective inspection priorities.	All relevant PI provincial ministry program areas incorporate source protection considerations into how they prioritize and carry out inspections of prescribed instruments.	S (#1, #2) M (#5, #7) L (#8, #9, #10)
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	SPPB	20	<p>Briefly describe, in general terms, how source protection is taken into consideration when planning for and prioritizing inspections for the program areas in the table below.</p> <table border="1"> <thead> <tr> <th>MINISTRY PROGRAM AREA</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>MOECC: Waste Disposal Sites – landfilling and storage</td> <td rowspan="3">Most Ministry program areas take a risk based compliance approach to inspections. In most cases, sites that are</td> </tr> <tr> <td>MOECC: Sewage works/wastewater</td> </tr> <tr> <td>MOECC: Pesticides</td> </tr> </tbody> </table>		MINISTRY PROGRAM AREA	DESCRIPTION	MOECC: Waste Disposal Sites – landfilling and storage	Most Ministry program areas take a risk based compliance approach to inspections. In most cases, sites that are	MOECC: Sewage works/wastewater	MOECC: Pesticides										
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	SPPB	21	Briefly describe, in general terms, how each ministry program area ensures PI holders comply with their instrument for the program areas in the table below.																
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Land Use Planning (LUP) <i>NOTE:</i> Reportable items #22a-b are shaded in grey as they are not required to be completed by the SPA. Instead, the responses to these reportable items are found in the MMA electronic/paper reporting form. These reportable items are retained in the supplemental form for reference and reporting purposes for SPAs wishing to share this information with their respective SPCs.	SPPB	22a	Where the Ministry of Municipal Affairs (MMA) is the planning approval authority for day-to-day <i>Planning Act</i> decisions within source protection areas, or where MMA is the approval authority for the official plan and zoning by law conformity exercises municipalities are required to undertake, please provide a description of how MMA ensures their <i>Planning Act</i> decisions conform with the approved source protection plans (specifically, the policies on List A - Significant threat policies that affect decisions under the <i>Planning Act</i> and <i>Condominium Act</i> , 1998)? <i>RESPONSE:</i> Through the review and approval of Official Plans, MMA, in consultation with MOECC, ensures Official Plan policies conform to the significant drinking water threat policies and have regard to other policies. In addition, MMA ensures designated vulnerable areas, as identified in approved assessment reports are identified in Official Plan schedules are protected, improved or restored as is required to be consistent with the Provincial Policy Statement.			H	See measure “H”	Same target/trend as measure “H”.	S (#1, #2) M (#4, #5, #6, #7) L (#10)										
	SPPB	22b	In what other ways does MMA integrate source protection considerations into their business or operational processes? Please provide a brief description of each. <i>RESPONSE:</i> MMA takes source protection into consideration in its review of new planning documents (official plans, comprehensive zoning bylaws) and development applications as applicable.																
			Reporting Frequency: One-time																
	SPA	23a	In total, how many municipalities (including upper-, lower-, and single-tier) within the SPR/A are required to complete: Official Plan (OP) conformity exercises for source protection? <u>18</u> Zoning by-law (ZBL) conformity exercises for source protection? <u>22</u> <i>*NOTE: Applies to every municipality affected by land use planning or Part IV type policies.</i>			K	Percent of municipalities that are subject to significant drinking water threat policies have incorporated source protection into their planning documents.	100% of municipalities that are subject to significant drinking water threat policies have incorporated source protection into	S (#1, #2) M (#4, #5, #6, #7) L (#10)										
		Reporting Frequency: One-time																	
	SPA	23b	Of these municipalities, how many have: (i) Completed their OP conformity exercise <u>5</u>																

Reportable theme	Who ¹ compiles this information?	ID	Reportable Items	Performance Measures			Outcomes ² (S, M, L)
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Where this is the case, SPAs may need to provide an overall summary.			(ii) Completed their ZBL conformity exercises <u>1</u> (iii) Completed OP conformity exercise but under appeal <u>1</u> (iv) Completed ZBL conformity exercise but under appeal <u>0</u> (v) OP conformity exercise in process <u>11</u> (vi) ZBL conformity exercise in process <u>11</u> (vii) Not started their OP conformity exercise <u>1</u> (viii) Not started their ZBL conformity exercise <u>10</u> Reporting Frequency: Ongoing (annually) or until such time all applicable municipalities have completed their conformity exercise			their planning documents.	
Education & Outreach (E&O) <i>(NOTE: Do not count signage policies as part of this reportable item as there is a separate reportable item for signage policies below.)</i>	SPA & SPPB	24a	(i) What method(s) are being used to implement E&O policies in the SPR/A? Choose all that apply. <input checked="" type="checkbox"/> development and distribution of educational materials for general public <input checked="" type="checkbox"/> development and distribution of educational materials for target audiences including developers, builders, landowners, farmers, etc. <input type="checkbox"/> in-person workshops <input checked="" type="checkbox"/> site visits <input checked="" type="checkbox"/> source protection content for websites <input checked="" type="checkbox"/> educational videos (e.g., YouTube) <input type="checkbox"/> podcasts <input checked="" type="checkbox"/> collaboration with other bodies (e.g., ministries, local organizations, etc.) <input type="checkbox"/> other. Please specify _____ <input checked="" type="checkbox"/> methods for implementing E&O not yet determined (ii) Identify the ways in which outreach efforts were conducted to reach target audiences about source water protection? Choose all that apply. <input checked="" type="checkbox"/> social media promotion (e.g., use of Facebook, Twitter, Instagram, etc.) <input checked="" type="checkbox"/> traditional media advertising (e.g., print media, radio, television) <input checked="" type="checkbox"/> site visits <input checked="" type="checkbox"/> integration with other outreach programs or campaigns (e.g., Community Environment Days, etc.) <input checked="" type="checkbox"/> articles in publications <input checked="" type="checkbox"/> information kiosks at events/festivals <input checked="" type="checkbox"/> other. Please specify: Door hanger/flyer campaign completed for 6 municipalities targeting residential quantities of DNAPLs. Emergency Planning Training Exercise for the City of Sarnia provided source protection outreach to emergency responders and drinking water system operators. Reporting Frequency: First 3-5 years of reporting	N/A	N/A	N/A	N/A
	SPA & SPPB	24b	(i) Describe how the SPA is evaluating the implementation of its E&O policies? RESPONSE: No formal evaluation criteria have been set. Some local efforts are being made to track the uptake and success of certain targeted education efforts (e.g. website traffic, surveys, etc.) (ii) What are the results of that evaluation? If possible, in the description of results, please indicate if the E&O policies resulted in gains in source protection knowledge and any commitments made to change behaviour that is protective of source water. RESPONSE: Given the broad and general nature of the education and outreach policies in the Thames-Sydenham & Region SPP, it is difficult to build an evaluation tool that can determine the success of E&O policies at a regional-scale level, since the implementation of E&O policies varies greatly across the Region. As noted above, some local efforts have been made to evaluate the success of targeted outreach efforts				

Reportable theme	Who ¹ compiles this information?	ID	Reportable Items	Performance Measures			Outcomes ² (S, M, L)
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			<p>which have yielded varying outcomes. In some cases it was determined that the education efforts had been very worthwhile (e.g. through survey responses), while some evaluation tools such as website traffic after the completion of flyer deliveries showed minimal uptake of outreach efforts.</p> <p>Reporting Frequency: First 3-5 years of reporting</p>				
	SPA & SPPB	25	<p>What did the E&O policy(ies) that were implemented target in the SPR/A? Please select all that apply from the list below.</p> <p><input checked="" type="checkbox"/> Threats (significant) <input checked="" type="checkbox"/> Threats (moderate-low) <input checked="" type="checkbox"/> Transport pathways <input checked="" type="checkbox"/> Spills prevention/spill events <input type="checkbox"/> Drinking water issues <input type="checkbox"/> Conditions <input checked="" type="checkbox"/> Local threat <input checked="" type="checkbox"/> Other. Please specify: General knowledge of SWP and what it means to the general public. In the City of London, general water stewardship outreach was targeted to a general audience.</p> <p>Reporting Frequency: First 3-5 years of reporting</p>				
	SPA & SPPB	26	<p>[OPTIONAL: If and where there are E&O initiatives that were particularly successful that the SP Authority wishes to highlight in the supplemental annual progress reporting form, include its details here. Please limit the description to only those known E&O initiatives the SPA feels were exceptional/quite successful.]</p> <p>Provide a brief description of a successful E&O initiative that has had or is having a positive impact below. In the description, where available, include the following details:</p> <ul style="list-style-type: none"> • Indicate target population (e.g., farmers, business, residents, municipalities, etc.) • Percentage of the target audience reached • Outcomes that were achieved • Whether these initiatives reached persons and/or businesses within geographic areas where threats could be significant or to wider areas (i.e., specific to areas with significant drinking water threats or general E/O) <p>RESPONSE: In the City of Sarnia, an emergency planning training day - involving 30+ people was very successful. The group was divided into two groups. Each group was given a spills scenario to respond to and they discussed how the drinking water supplies would be protected at the time of a major chemical spill. This was the first exercise that involved threats to drinking water supplies, municipal systems, and distribution systems.</p> <p>Reporting Frequency: Ongoing (annually)</p>				
Signage	SPA & SPPB	27	<p>Complete the table below to indicate the number of source water protection signs that have been installed in the SPR/A for the reporting periods noted.</p>	L	Total number of source water protection signs installed within 5-10 years of plan	Increasing number of source protection signs installed in the	S (#1, #2) M (#3, #4, #6) L (#8, #9, #10)

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Incentives	SPA & SPPB	28	<p>[OPTIONAL] If applicable to the SPR/A, complete the table below indicating the type of incentive(s) (e.g., PI application fees waived, funding, other non-financial incentives, etc.) that was made available (whether as a policy in the SPP or not), the source that provided the incentive(s), the prescribed drinking water threat activity(ies) to which it relates, the degree to which the incentive(s) assisted with the implementation of SPP policies that address significant drinking water threat activity(ies), and include any comments. Use a single row to describe each type of incentive and insert additional rows if necessary in the table below.</p> <table border="1"> <thead> <tr> <th>Type of Incentive</th> <th>Source of Incentive (i.e., Municipality, Conservation Authority, Provincial Ministry(ies), Other (please specify))</th> <th>Prescribed Drinking Water Threat(s) Addressed</th> <th>Degree to which incentive(s) assisted with the implementation of SPP policies addressing significant drinking water threats</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>Funding</td> <td>Municipality (Oxford County Only)</td> <td>ASM Application ASM Storage Commercial Fertilizer Handling/Storage Pesticide Application Pesticide Handling/Storage Fuel Handling/Storage DNAPL Handling/Storage Organic Solvent Handling/Storage Livestock Grazing etc.</td> <td><input type="checkbox"/> Significant/large degree</td> <td>Incentive funding was available but not needed by any of the impacted properties.</td> </tr> </tbody> </table>				Type of Incentive	Source of Incentive (i.e., Municipality, Conservation Authority, Provincial Ministry(ies), Other (please specify))	Prescribed Drinking Water Threat(s) Addressed	Degree to which incentive(s) assisted with the implementation of SPP policies addressing significant drinking water threats	Comments	Funding	Municipality (Oxford County Only)	ASM Application ASM Storage Commercial Fertilizer Handling/Storage Pesticide Application Pesticide Handling/Storage Fuel Handling/Storage DNAPL Handling/Storage Organic Solvent Handling/Storage Livestock Grazing etc.	<input type="checkbox"/> Significant/large degree	Incentive funding was available but not needed by any of the impacted properties.	N/A	N/A	N/A	N/A																	
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	SPA & SPPB	29	<p>[OPTIONAL: If and where there are successful incentive programs in the SPR/SPA that the SP Authority wishes to highlight in the supplemental annual progress reporting form, include its details here. Please limit the description to only those incentive programs the SPA feels were</p>																																		

⁶ For CTC, Hamilton-Halton, and Thames Sydenham and Region, the Year 1 reporting period is from December 31, 2015 (i.e., the effective dates of these three SPPs) to December 31, 2016.

Reportable theme	Who ¹ compiles this information?	ID	Reportable Items	Performance Measures			Outcomes ² (S, M, L)										
				ID	Measure	Target/Trend											
			<p><i>exceptional /quite successful.]</i></p> <p>Provide a brief description of incentives that have had or are having a positive impact below. In the description include:</p> <ul style="list-style-type: none"> • Outcomes achieved • How widely available was the incentive? • Whether incentives reached persons and/or businesses within geographic areas where threats could be significant or to wider areas <p>RESPONSE:</p> <p>Reporting Frequency: Annually or when warranted</p>														
Sewage System Inspections – Ontario Building Code (OBC)	SPA	30a	<p>How many on-site sewage systems in the SPA require inspections in accordance with the Ontario Building Code (OBC) (i.e., once every five years)? <u>200</u></p> <p>Reporting Frequency: Annual</p>	M	Percentage of on-site sewage systems that are inspected as part of the mandatory septic inspections program where they are a significant threat.	100% of on-site sewage systems where they are a significant threat are inspected once every 5 years.	S (#2) M (#5, #6) L (#9, #10)										
	SPA	30b	<p>Of these, how many on-site sewage systems were inspected (i.e., cumulative running tally of systems inspected)? <u>170</u></p> <p>Reporting Frequency: Ongoing (annually)</p>														
	SPA	30c	<p>How many of the on-site sewage systems inspected required:</p> <ul style="list-style-type: none"> • minor maintenance work (e.g., pump out, etc.)? <u>20</u> • major maintenance work (e.g., tank replacement, etc.)? <u>1</u> <p>Reporting Frequency: Ongoing (annually)</p>														
Environmental monitoring for drinking water issues	SPA	31	<p>If applicable to the SPR/A, complete the table below where information about drinking water issues is available. Begin by identifying the drinking water system(s) and any associated drinking water issue(s)/parameter(s) (chemical or pathogen) that have been identified, then indicate whether an Issue Contributing Area (ICA) was delineated for the identified issue(s), and any observations in the concentration or trend for each issue. Optional: Describe the actions/behavioural changes in the ICA that might be contributing to the changes. Insert additional rows as necessary in the table below for each drinking water system. Municipalities and SPAs may use data from the Drinking Water Surveillance Program to help inform the response to this reportable item.</p> <table border="1"> <thead> <tr> <th>Drinking Water System (Column A)</th> <th>Drinking Water Issue/Parameter (Column B)</th> <th>ICA delineated for this issue? (Yes/No) (Column C)</th> <th>Observations (Column D)</th> <th>Actions/Behavioural Changes Contributing to Change in Observations (Optional) (Column E)</th> </tr> </thead> <tbody> <tr> <td>Wheatley and Chatham/South Kent Surface Water Intakes</td> <td>Microcystin</td> <td>No</td> <td> <input type="checkbox"/> Increasing concentration/trend <input type="checkbox"/> Decreasing concentration/trend <input type="checkbox"/> No change in concentration/trend <input checked="" type="checkbox"/> Not enough data/information is available to determine changes in concentration/trend <input type="checkbox"/> No longer monitoring issue/parameter as not an issue </td> <td>The primary mechanism through which the TSR has been working on the Microcystin Issue is through the Thames River Clear Water Revival (TRCWR). This collaborative includes federal, provincial, CA, First Nation and City of London representation with an overall goal of improving the health of the Thames River and a short term goal of creating a Water Management Plan for the river. The first significant product from the TRCWR was the study entitled Water Quality Assessment in the Thames River Watershed – Nutrient and Sediment Sources completed by Freshwater</td> </tr> </tbody> </table>	Drinking Water System (Column A)	Drinking Water Issue/Parameter (Column B)	ICA delineated for this issue? (Yes/No) (Column C)	Observations (Column D)	Actions/Behavioural Changes Contributing to Change in Observations (Optional) (Column E)	Wheatley and Chatham/South Kent Surface Water Intakes	Microcystin	No	<input type="checkbox"/> Increasing concentration/trend <input type="checkbox"/> Decreasing concentration/trend <input type="checkbox"/> No change in concentration/trend <input checked="" type="checkbox"/> Not enough data/information is available to determine changes in concentration/trend <input type="checkbox"/> No longer monitoring issue/parameter as not an issue	The primary mechanism through which the TSR has been working on the Microcystin Issue is through the Thames River Clear Water Revival (TRCWR). This collaborative includes federal, provincial, CA, First Nation and City of London representation with an overall goal of improving the health of the Thames River and a short term goal of creating a Water Management Plan for the river. The first significant product from the TRCWR was the study entitled Water Quality Assessment in the Thames River Watershed – Nutrient and Sediment Sources completed by Freshwater	N	Number of identified issues showing improvements in its concentration(s) and/or trend(s).	Improvements over time in the concentration or loadings of contaminant(s)/issue(s) of concern in sources of drinking water.	S (#1, #2) M (#4, #5, #6, #7) L (#10)
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			Wallaceburg Surface Water Intake	Nitrate	No	<input type="checkbox"/> Increasing concentration/trend <input type="checkbox"/> Decreasing concentration/trend <input type="checkbox"/> No change in concentration/trend <input checked="" type="checkbox"/> Not enough data/information is available to determine changes in concentration/trend <input type="checkbox"/> No longer monitoring issue/parameter as not an issue	Research using a grant from MOECC Showcasing Water Innovation fund. This study quantified phosphorous loadings from the Thames River. One significant finding from the study was the variability from year to year in phosphorous loadings. During a wet year with significant rainfall, the Thames River can contribute over 4 times as much phosphorus to the lake as it would in a dry year.				
			Woodstock	Nitrogen	Yes	<input type="checkbox"/> Increasing concentration/trend <input type="checkbox"/> Decreasing concentration/trend <input type="checkbox"/> No change in concentration/trend <input checked="" type="checkbox"/> Not enough data/information is available to determine changes in concentration/trend <input type="checkbox"/> No longer monitoring issue/parameter as not an issue	Monitoring completed over the past 2 years has not yielded enough information to confirm the issue and delineate an ICA. In October 2017, the SPC directed staff to continue monitoring the issue and expand the monitoring locations.				
			Reporting Frequency: Ongoing (annually)								
Transport pathways	SPA	32a	How many notices about transport pathways (meaning a condition of land resulting from human activity (e.g., pits and quarries, improperly abandoned wells, geothermal system, etc.) that increases the vulnerability of a raw water supply of a drinking water system) did the SPA receive from municipalities in this reporting period (as per O. Reg. 287/07, ss. 27(3))? <u> 0 </u>				N/A	N/A	N/A	N/A	
			Reporting Frequency: Ongoing (annually)								
	SPA	32b	What actions did the SPR/A take as a response to receiving these notices (e.g., SPR/A provided information to municipalities about changes in vulnerability, etc.)? Please describe below. RESPONSE: N/A								
			Reporting Frequency: Ongoing (annually)								
	SPA	33	[OPTIONAL]: Provide specific information on actions taken by any person or body to reduce the impacts that transport pathways could have on sources of drinking water (e.g., number of wells properly abandoned by municipalities and/or private landowners in accordance with O. Reg. 903, etc.)? RESPONSE: The City of London is in year 3 of implementing a multi-year plan to decommission all known wells that have been identified in the city. These include former PUC production wells, geotechnical test wells and any private residential wells that have come under the ownership of the municipality (e.g. heritage properties).								

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			<p>The City of Stratford has a Water Use By-law which states the requirements for properly abandoning wells within the city limits. Other by-laws define time periods for when wells must be abandoned if municipal water supplies exist.</p> <p>In the Town of St. Marys, when the municipal service area is extended to pick up more properties, the existing services (i.e. septic / wells) are abandoned accordingly.</p> <p>In St. Clair Township there is policy in place to direct the day to day work flow to ensure transport pathways are incorporated through a source water lens.</p> <p>The official plan in the City of Sarnia contains a policy requiring that unused water wells be decommissioned at the time of planning approvals. Over the past few years, a few wells have been decommissioned in accordance with this policy for the purpose of protecting ground water. As part of development applications, staff refer to the Ontario Well Records Map to see if there might be records of old wells that may require decommissioning. This requirement would only be considered at the time of a Planning Application.</p> <p>In the Municipality of Chatham-Kent, the Highgate/Ridgetown Water Treatment Plant is one of the Clean Water and Wastewater Fund Projects (CWWF) Projects within Chatham-Kent. This is new water treatment facility to treat ground water produced from the recently constructed Scane and Colby wells in Ridgetown. The project would provide over 9 km long 200 mm watermain from Ridgetown to Highgate, a 320 m³ ground water storage tank and a new booster pumping station at Highgate. This improvement addresses water quality and quantity issues for Highgate by providing a new water supply to the Highgate service area. The timeline for this project is July 2017 to January 2018. As part of this project, the Highgate Well System will be decommissioned in 2018.</p> <p>Reporting Frequency: Annually or when warranted</p>																												
Positive impact examples for each of the following policy tools or topics (e.g., road salt management, transport pathways, spills response, water quantity, Great Lakes, any "other" policy)	SPA & SPPB	34	<p>[OPTIONAL: If and where there are successful examples for each of the following initiatives in the SPR/A that the authority wishes to highlight, include its details in the table below. Please limit the descriptions provided (e.g., one example for each topic or more could be included when the SPA feels they are exceptional/quite successful).]</p> <table border="1"> <thead> <tr> <th>Policy Tools/Topics</th> <th>Description of Successful Initiatives</th> </tr> </thead> <tbody> <tr> <td>Stewardship Programs</td> <td></td> </tr> <tr> <td>Best Management Practices</td> <td></td> </tr> <tr> <td>Pilot Programs</td> <td></td> </tr> <tr> <td>Research</td> <td></td> </tr> <tr> <td>Specify Action (e.g., road salt management, municipal by-laws, legislative or regulatory amendments, mapping, review of fuel codes, new airport facility design standards to manage runoff of chemicals from de-icing of aircraft, instrumentation, etc.)</td> <td></td> </tr> <tr> <td>Climate Change (e.g., data collection)</td> <td></td> </tr> <tr> <td>Spill prevention/spill contingency/emergency response plan updates</td> <td></td> </tr> <tr> <td>Transport pathways</td> <td></td> </tr> <tr> <td>Water quantity</td> <td></td> </tr> <tr> <td>Great Lakes</td> <td></td> </tr> <tr> <td>Other policies (i.e., strategic action, etc.)</td> <td></td> </tr> </tbody> </table> <p>Reporting Frequency: Annually or when warranted</p>	Policy Tools/Topics	Description of Successful Initiatives	Stewardship Programs		Best Management Practices		Pilot Programs		Research		Specify Action (e.g., road salt management, municipal by-laws, legislative or regulatory amendments, mapping, review of fuel codes, new airport facility design standards to manage runoff of chemicals from de-icing of aircraft, instrumentation, etc.)		Climate Change (e.g., data collection)		Spill prevention/spill contingency/emergency response plan updates		Transport pathways		Water quantity		Great Lakes		Other policies (i.e., strategic action, etc.)		N/A	No measure. Could use in public reporting vignettes to highlight successful initiatives.	N/A	N/A
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Municipal integration of source protection	SPA	35a	<p>In total, how many municipalities (including upper-, lower-, and single-tier) within the SPR/A are subject to SPP policies (any policy tool)? <u>27</u></p> <p>Reporting Frequency: One-time</p>	N/A	N/A	N/A	N/A																								

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	SPA	35b	<p>Complete the table below by indicating the number of municipalities (including upper-, lower-, and single-tier) within the SPR/A that have integrated/are integrating⁷ source protection knowledge/science into the following municipal program areas/activities.</p> <table border="1"> <thead> <tr> <th>Municipal Program Areas/Activities</th> <th>Number of municipalities that have integrated/are integrating source into program areas/activities</th> </tr> </thead> <tbody> <tr> <td>Road salt storage/application</td> <td>6</td> </tr> <tr> <td>Snow storage</td> <td>4</td> </tr> <tr> <td>Pesticide storage/application</td> <td>4</td> </tr> <tr> <td>Hazardous waste storage</td> <td>4</td> </tr> <tr> <td>Organic solvents storage</td> <td>3</td> </tr> <tr> <td>Municipal fuel storage (e.g., for heating, maintenance vehicles, etc.)</td> <td>9</td> </tr> <tr> <td>Municipal well maintenance and operations</td> <td>8</td> </tr> <tr> <td>Municipal water quantity</td> <td>7</td> </tr> <tr> <td>Stormwater infrastructure maintenance</td> <td>3</td> </tr> <tr> <td>Other. Please provide a description below.</td> <td>1 (fertilizer storage)</td> </tr> </tbody> </table> <p>Reporting Frequency: Annually or when warranted</p>	Municipal Program Areas/Activities	Number of municipalities that have integrated/are integrating source into program areas/activities	Road salt storage/application	6	Snow storage	4	Pesticide storage/application	4	Hazardous waste storage	4	Organic solvents storage	3	Municipal fuel storage (e.g., for heating, maintenance vehicles, etc.)	9	Municipal well maintenance and operations	8	Municipal water quantity	7	Stormwater infrastructure maintenance	3	Other. Please provide a description below.	1 (fertilizer storage)				
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	SPA	36a	<p>Of the total number of municipalities within the SPR/A that are subject to SPP policies and have a legal responsibility for day-to-day land use planning or municipal building permit decisions, how many are integrating source protection requirements into the following program areas?</p> <table border="1"> <thead> <tr> <th>Number of municipalities within SPR/A with day-to-day responsibility for land use planning decisions (column A)</th> <th>Number of municipalities integrating source protection requirements into land use planning decisions (column B)</th> <th>Percent Integrating Source Protection Column B / Column A</th> </tr> </thead> <tbody> <tr> <td>20</td> <td>20</td> <td>100%</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Number of municipalities within SPR/A with day-to-day responsibility for building permit decisions (column A)</th> <th>Number of municipalities integrating source protection requirements into building permit decisions (column B)</th> <th>Percent Integrating Source Protection Column B / Column A</th> </tr> </thead> <tbody> <tr> <td>22</td> <td>22</td> <td>100%</td> </tr> </tbody> </table> <p>Reporting Frequency: Annually until all subject municipalities have integrated policies</p>	Number of municipalities within SPR/A with day-to-day responsibility for land use planning decisions (column A)	Number of municipalities integrating source protection requirements into land use planning decisions (column B)	Percent Integrating Source Protection Column B / Column A	20	20	100%	Number of municipalities within SPR/A with day-to-day responsibility for building permit decisions (column A)	Number of municipalities integrating source protection requirements into building permit decisions (column B)	Percent Integrating Source Protection Column B / Column A	22	22	100%														
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	SPA	36b	<p>Indicate the number or estimated percentage of subject municipalities (including upper-, lower-, and single-tier) that are integrating source protection into the business processes listed in the table below.</p> <table border="1"> <thead> <tr> <th>Business Processes</th> <th>Number or estimated percentage of subject municipalities integrating source protection</th> </tr> </thead> <tbody> <tr> <td>Staff involved with land use planning and/or section 59 policies trained in source protection</td> <td>24</td> </tr> <tr> <td>Staff guidance documents updated/produced for evaluating land use planning applications conforming with/having regard to SPP policies</td> <td>21</td> </tr> <tr> <td>Planning design and technical guidelines updated/produced for source protection considerations for applicants</td> <td>17</td> </tr> </tbody> </table>	Business Processes	Number or estimated percentage of subject municipalities integrating source protection	Staff involved with land use planning and/or section 59 policies trained in source protection	24	Staff guidance documents updated/produced for evaluating land use planning applications conforming with/having regard to SPP policies	21	Planning design and technical guidelines updated/produced for source protection considerations for applicants	17																		
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⁷ Integration means that specific changes have been/are being made to these municipal program areas as a direct result of SPP policies or as a result of more broad integration of the science from source protection.

Reportable theme	Who ¹ compiles this information?	ID	Reportable Items			Performance Measures			Outcomes ² (S, M, L)
						ID	Measure	Target/Trend	
			Strategy and timeline established to undertake OP & ZBL conformity exercise	21					
			Planning documents updated	9					
			Planning maps/schedules updated to show vulnerable areas	22					
			Siting/placement of activities away from vulnerable areas	13					
			Complete planning application requirements (i.e., supporting documentation such as stormwater management plan, master environmental servicing plan, lot grading plan, etc. needed)	24					
			Procedures in place to flag where section 59 policies apply including mechanism/process to facilitate exchange of information about development application process and the issuance of section 59 notices	20					
			Steps taken (e.g., municipal by-law, conservation authority regulation, etc.) to reduce the number of applications that require RMO screening	19					
			Public works operations	15					
			Other. Please provide a description.	0					
			No Changes Made. If no changes made, please explain: _____	0					
			Reporting Frequency: One-time (but may be needed again if and when further changes are made to business processes to integrate source protection)						
Examples of successful municipal actions to protect source water	SPA	37	<p>[OPTIONAL: If and where there are examples of successful municipal actions in the SPR/A that the authority wishes to highlight in the supplemental annual progress reporting form, include its details here. Please limit the descriptions provided to those the SPA feels are exceptional/very successful municipal actions.]</p> <p>Are there some unique examples of successful municipal actions within the SPR/A that are being/have been undertaken to protect source water either directly because of plan policies or as a result of more broad integration of the science from source protection? If yes, please provide details below.</p> <p>RESPONSE:</p>			N/A	No measure. Could use in public reporting vignettes to highlight successful initiatives.	N/A	N/A
			Reporting Frequency: Annually or when warranted						
Examples of successful residential or business actions to protect source water	SPA	38	<p>[OPTIONAL: If and where there are examples of successful residential and/or business actions in the SPR/A that the authority wishes to highlight in the supplemental annual progress reporting form, include its details here. Please limit the description provided to those the SPA feels are exceptional/ very successful examples.]</p> <p>Are there examples of local residents and/or businesses (including agriculture, salt applicator, fuel providers) who are taking successful concrete actions (e.g., engaged in more “green” behaviours that could protect water sources such as purchasing road salt alternatives, taking precautions when storing or disposing hazardous waste, organic solvents, etc.) to protect source water in their community(ies)? If yes, please provide details below.</p> <p>RESPONSE:</p>						
			Reporting Frequency: Annually or when warranted						
Enumerated threats: progress made in addressing significant threats engaged in at time of SPP approval	SPA	39a	<p>Complete the table below by first indicating which of the listed significant drinking water threats were being engaged in (i.e., enumerated as ‘existing’ significant threats/threats) at the time of SPP approval. Then, using the formula for the running tally of enumerated threats as explained below, complete the columns in the table with the information for each SDWT indicated as existing in the SPR/A.</p> <p>Lead SPAs will be maintaining a running tally of progress made in addressing significant threats that were on the ground before plans were approved. See Guidance document for additional details. The running tally consists of the formula: A+B-C-D where:</p>			O	Percent of significant drinking water threats that existed in the area when the SPP was approved and that	100% of significant drinking water threats that existed in the area when the	M (#5, #6) L (#8, #10)

Reportable theme	Who ¹ compiles this information?	ID	Reportable Items				Performance Measures		Outcomes ² (S, M, L)																																																																																																																																																																										
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(i.e., enumerated as 'existing')			<ul style="list-style-type: none"> A = Original estimate of SDWT engaged in/enumerated when SPP approved B = Additional SDWT identified after first SPP approved as a result of field verification (i.e., <u>not</u> part of original estimate of SDWT) C = SDWT included in enumeration estimates at time of plan approval but subsequently determined through field verification that: (i) it was not actually engaged in at a particular location after all OR (ii) it was no longer engaged in (e.g., land may still have an agricultural operation but owner no longer applying pesticides for their own reasons) D = SDWT addressed because policy is implemented* (*Note: Where multiple policy tools address any given threat sub-category, implemented means that actions associated with at least one policy tool have been completed/are in place.) SPAs may use their local discretion in which policy tool they wish to reflect as being implemented. 					have been addressed (i.e., eliminated or managed).	SPP was approved and that have been addressed (i.e., eliminated or managed).																																																																																																																																																																										
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Reportable theme	Who ¹ compiles this information?	ID	Reportable Items	Performance Measures			Outcomes ² (S, M, L)
				ID	Measure	Target/Trend	
			Reporting Frequency: Ongoing (annually)				
	SPA	39b	<p>Please provide comments below to explain the overall progress made in addressing these significant threats. Include the percentage of overall progress made in the comments provided. The percentage of overall progress made in addressing local threats and conditions that are taking place on the landscape is determined by taking the total number in column D (i.e., SDWT addressed because policy is implemented) from the table above (reportable item #39a) and dividing it into the number that is derived by adding the total numbers in columns A and B and then subtracting this sum total from the total in column C. In other words, overall progress made = D/A+B-C.</p> <p>COMMENTS: Overall significant progress was made in 2017 compared to 2016. Risk Management Officials in the TSR have made substantial efforts to get out and confirm the presence or absence of significant threats, and negotiate Risk Management Plans where required. In total, 35 RMP's were agreed to or established in 2017 and a total of 41 RMP's have been agreed to or established since the plan took effect. Municipalities have also made considerable progress in the implementation of mandatory septic inspections, with 85% of the first mandatory inspections now complete. It should be noted, that there is a certain level of uncertainty in the enumerated threats table above. With this being only the second year of reporting, there is certainly some refinement still required to be made to the reportable items, and some further clarification that would be helpful in collecting consistent data from all implementing bodies. Since the SPA's are not collecting threats location information, it is difficult to confirm the numbers being reported with the original threats data included in the Assessment Reports. Additionally, the information provided by the Province regarding existing significant threats that have a Prescribed Instrument (as reported in Reportable items #16 above), were not incorporated into the enumerated threats table here due to the high level of uncertainty. The overall progress made in our enumerated threats table is 27%, which is likely slightly lower than actual given the uncertainty in the data.</p>				
			Reporting Frequency: Ongoing (annually)				
Assessment report information gaps (as per ss. 52(1), p. 2 of O. Reg. 287/07)	SPA	40	<p>Provide a summary of steps taken to further assess or implement the work plans described in technical rules #30.1 (Water Budget Tier 3), #50.1 (GUDI for WHPA-E or F), and #116 (ICA) through amendments carried out under section 34 or section 36 of the <i>Clean Water Act</i>.</p> <p>RESPONSE: No Section 34 or 36 amendments have occurred during the reporting period. The SPAs will be considering information gaps in the Assessment reports as they being preparation of the Section 36 workplan due in November 2018.</p>	N/A	N/A	N/A	N/A
			Reporting Frequency: Annually until all applicable work plans have been implemented.				
Other reporting items (as per ss. 52(1), p. 4 of O. Reg. 287/07)	SPA	41	<p>Does the SPA have any other item on which it wishes to report? If so, please explain.</p> <p>RESPONSE:</p>	N/A	N/A	N/A	N/A
			Reporting Frequency: Annually when applicable				
Source protection outcomes	SPA	42	<p>What positive outcomes (e.g., less water consumption, changes in behaviour, reduction in phosphorus and nitrogen concentrations, less chloride from road salt, reduction in algal blooms, human health protected, etc.), if any, have potentially resulted from the implementation of SPP policies? Please describe the outcomes below.</p> <p>RESPONSE: No other items to report on.</p>	P	Percentage of SPCs indicating that plan implementation may be a contributing factor to positive drinking water outcomes.	Increasing over time.	M (#4, #5, #6) L (#9, #10)
			Reporting Frequency: Ongoing (annually)				
Achievement of SPP objectives (as per ss. 46(3) of the CWA)	SPA	43a	<p>In the opinion of the Source Protection Committee (SPC), to what extent have the objectives of the SPP been achieved in this reporting period?</p> <p><input checked="" type="checkbox"/> Progressing Well/On Target - The majority of the source protection plan policies have been implemented and/or are progressing well. <input type="checkbox"/> Satisfactory - Some of the source protection plan policies have been implemented and/or are progressing well. <input type="checkbox"/> Limited Progress made - A few of source protection plan policies have been implemented and/or are progressing well.</p>	Q	Percentage of SPCs indicating that the objectives of the source protection plan are progressing well/on	Increasing over time.	S (#1, #2) M (#4, #5, #6, #7) L (#9, #10)

Reportable theme	Who ¹ compiles this information?	ID	Reportable Items	Performance Measures			Outcomes ² (S, M, L)
				ID	Measure	Target/Trend	
					target.		
			Reporting Frequency: Ongoing (annually)				
	SPA	43b	<p>Please provide comments to explain how the SPC arrived at its opinion. Include a summary of any discussions that might have been had amongst the SPC members, especially where no consensus was reached.</p> <p>COMMENTS: <i>Overall, significant progress in the Thames-Sydenham and Region has been made since the Source Protection Plan came into effect. During the last two years of plan implementation, 84% of the policies that address significant drinking water threats have been implemented or are in progress. Of the 1,054 existing threats that were enumerated at the time of Plan approval, over half are considered addressed because the Plan policies have been implemented, or have been confirmed to no longer exist.</i></p> <p><i>The Committee has been pleased with the actions taken by municipalities within the Thames-Sydenham and Region. All 27 municipalities with source protection implementation responsibilities have incorporated source protection considerations into municipal business processes. Municipalities have also made considerable progress in the implementation of mandatory septic inspections, with 85% of the first mandatory inspections now complete. Local Risk Management Officials have made substantial efforts to get out and confirm the presence or absence of significant drinking water threats, and negotiate Risk Management Plans where required.</i></p> <p><i>For the reasons outlined above, the Source Protection Committee feels confident in their assessment that implementation of the Source Protection Plans is progressing well/on target.</i></p>				
			Reporting Frequency: Ongoing (annually)				

Thames - Sydenham and Region
c/o Upper Thames River Conservation Authority
1424 Clarke Road, London, ON, N5V 5B9

April 10th, 2018

The Honourable Chris Ballard
Minister of Environment & Climate Change
Ferguson Block 11th Floor, 77 Wellesley St. W.
Toronto, ON
M7A 2T5

Dear Minister;

On behalf of the Thames Sydenham and Region Source Protection Committee we are sending this letter to highlight the Committee's concerns about the deterioration of water quality in private wells in the Municipality of Chatham-Kent within our Source Protection Region. The Committee was made aware of these concerns by way of a delegation at our March 23rd meeting by the Wallaceburg Area Wind Concerns group. The information presented by the delegation indicated an increase in shale particles and sediments in private wells located within the area of the North-Kent Wind Project. The delegation attributed this recent decrease in water quality to the pile driving associated with the construction of wind turbines. The delegation also expressed their fears about the same water quality issues arising should the Otter Creek Wind Project be approved, as the area shares the same aquifer and has the same geology.

We are aware that the Ministry maintains the regulatory oversight for these projects, and has been looking into the water quality complaints raised in association with the North Kent Wind Project. We are unclear on the consideration the Ministry has given to source water protection. In particular, to areas located within highly vulnerable aquifers and significant groundwater recharge areas, when approving these types of projects. We write this letter urging the Ministry to consider the principles of the *Clean Water Act* and source protection planning when reviewing and approving any new wind projects.

While the mandate of this Committee is the protection of municipal sources of drinking water, and does not include the protection of private systems, the Committee wants to ensure that there are safe and reliable sources of water for all users in the Thames-Sydenham and Region. The Committee takes the concerns of the Wallaceburg Area Wind Concerns group very seriously, and we are currently exploring actions we may take to address these concerns.

Lower Thames Valley Conservation Authority
100 Thames Street, Chatham, Ontario,
N7L 2Y8

phone 519-354-7310, fax 519-352-3435

St. Clair Region Conservation Authority
205 Mill Pond Cres., Strathroy, Ontario,
N7G 3P9

phone 519-245-3710, fax. 519-245-3348

Upper Thames River Conservation Authority
1424 Clarke Road, London, ON
N5V 5B9

phone 519-451-2800, fax 519-451-1188

The Source Protection Committee recognizes the Source Protection Plan as a living document which will need to be updated from time to time to reflect any changes that may be required. In particular, updates to the local Plan should include any new threats to drinking water or other drinking water issues as they may arise. The Committee welcomes feedback from the Ministry as to how these new water quality concerns may be addressed in the next update to the Thames-Sydenham and Region Source Protection Plan.

Sincerely,



Dean Edwardson
Chair, Thames-Sydenham and Region Source Protection Committee

CC: Heather Malcolmson, Director, Source Protection Programs Branch, MOECC
Michael Moroney, Manager, Sarnia District Office, MOECC
Teri Gilbert, Issues Project Coordinator, Windsor Area Office, MOECC
Mohsen Keyvani, Supervisor, Environmental Assessment & Permissions Branch, MOECC
Kathleen O'Neill, Director, Environmental Assessment & Permissions Branch, MOECC
Don Shropshire, Chief Administrative Officer, Municipality of Chatham-Kent
Violet Towell, Wallaceburg Area Wind Concerns
Denise Shephard, Wallaceburg Area Wind Concerns