



## **Notice of Meeting**

### **Hamilton Region Source Protection Authority**

**Thursday, April 2, 2020**

**This meeting will be held entirely by teleconference.  
To access the meeting, please dial 1-866-219-8638.  
Please then enter the conference access code: 4987945 and the # key.**

- 1. Call to Order** – Ferguson
- 2. Declarations of Conflict of Interest**
- 3. Approval of Agenda**
- 4. Minutes of Previous Meeting (September 5, 2019)**
- 5. Business Arising from the Minutes**
- 6. New Business**
  - 6.1. Halton-Hamilton Source Protection Region  
Annual Progress Report 2019 – Peck
- 7. In-Camera Items**
- 8. Next Meeting – To be determined**
- 9. Adjournment**



# Hamilton Region Source Protection Authority

# Minutes

## Board of Directors Meeting

**September 5, 2019**

Minutes of the Board of Directors meeting held on Thursday, September 5, 2019, at Woodend Auditorium, 838 Mineral Springs Road, Ancaster, Ontario at 7:00 p.m.

**PRESENT:**

Lloyd Ferguson – in the Chair	Susan Fielding
Jim Cimba	Cynthia Janzen
Tom Jackson	Esther Pauls
Santina Moccio	
Maria Topalovic	

**REGRETS:** Dan Bowman, Brad Clark, Chad Collins

**STAFF PRESENT: Jonathan Bastien, Carissa Bishop, Rondalyn Brown, Lisa Burnside, Grace Correia, Gord Costie, Lindsey Darling, Matt Hall, Bruce Harschnitz, Christina Jager, Sara Kinnear, Neil McDougall, Mike Stone, Jaime Tellier and Nancy Watts**

**OTHERS: Media – Not Present**

## 1. Call to Order

The Chair called the meeting to order and welcomed everyone present, reminding everyone of their role as Directors on the Hamilton Conservation Authority Board to also serve as the Board of Directors for the Hamilton Region Source Protection Authority.

## 2. Declarations of Conflict of Interest

There were none.

### 3. Approval of the Agenda

The Chair requested any additions or deletions to the agenda. There were none.

**SP 1905**                      **MOVED BY:        Santina Moccio**  
                                 **SECONDED BY:    Maria Topalovic**

**THAT the agenda be approved.**

**CARRIED**

#### **4. Minutes of the Previous Meeting (April 4, 2019)**

**SP 1906**                      **MOVED BY:        Susan Fielding**  
                                 **SECONDED BY:    Jim Cimba**

**THAT the minutes of the Hamilton Region Source Protection Authority meeting held on April 4, 2019, be adopted as circulated.**

**CARRIED**

#### **5. Business Arising from the Minutes**

There was none.

#### **6. New Business**

##### **6.1. Source Protection Program Funding Update**

Diane Bloomfield presented a summary of the report, highlighting that the Source Water Protection program has been declared mandatory in a recent update to the Conservation Authorities Act. The program will continue. The program's fiscal year is April 1<sup>st</sup> to March 31<sup>st</sup>. Staff received a new agreement in July that is in effect through the 2019 fiscal year. A required workplan and budget were also approved as requested. Staff are currently awaiting regulations to be written for the Conservation Authorities Act and anticipate it will layout program funding.

**SP 1907**                      **MOVED BY:        Santina Moccio**  
                                 **SECONDED BY:    Jim Cimba**

**THAT the report entitled Source Protection Program Funding Update be received as information.**

**CARRIED****6.2. Source Protection Committee Member Appointments**

Diane Bloomfield presented a summary of the report, providing an overview of the selection process for both candidates. Diane further added that Gavin Smuk has been selected to serve again as the agricultural representative for the Hamilton area and Carla Coveart has been selected to represent the public at large.

**SP 1908**

**MOVED BY:        Jim Cimba  
SECONDED BY:    Susan Fielding**

**THAT the Hamilton Region Source Protection Authority reappoints Gavin Smuk and appoints Carla Coveart as members of the Halton-Hamilton Source Protection Committee for a term of five years.**

**CARRIED****7. Correspondence**

There was none.

**8. In-Camera Items**

There were no in-camera items.

**9. Next Meeting**

Next meeting – to be determined.

**10. Adjournment**

On a motion, the meeting adjourned.



# Report

**TO:** Hamilton Region Source Protection Authority

**FROM:** Lisa Burnside, Chief Administrative Officer

**RECOMMENDED BY:** T. Scott Peck, MCIP, RPP, Deputy Chief Administrative Officer/Director, Watershed Planning & Engineering

**PREPARED BY:** Diane Bloomfield, Manager, Source Water Protection

**DATE:** April 2, 2020

**RE:** 2019 Source Protection Authority Annual Progress Report

---

## STAFF RECOMMENDATION

**THAT the Hamilton Region Source Protection Authority** receive for information the staff report dated April 2, 2020 outlining the progress made on the implementation of the Source Protection Plan for the Halton Region and Hamilton Region Source Protection Areas in 2019;

**AND FURTHER THAT the Hamilton Region Source Protection Authority, together with the Halton Region Source Protection Authority,** endorse the submission of the 2019 Annual Progress Report on Implementation of the Source Protection Plan to the Ministry of the Environment, Conservation and Parks by May 1, 2019 in the format set out by the Province.

## BACKGROUND

The *Clean Water Act, 2006* requires the preparation and implementation of source protection plans to safeguard the quality and quantity of sources of drinking water. The local Halton-Hamilton Source Protection Committee developed a plan, which was approved by the Minister of the Environment and Climate Change and took effect on December 31, 2015.

Our stakeholders, listed as implementing bodies in the policies of the plan, have been working to satisfy the intent of each policy. The policies use various tools, such as education and outreach programs, land use planning initiatives, prescribed instruments, risk management plans, and other strategic measures to meet the objectives of the plans – to protect existing and future drinking water sources and to ensure that existing threat activities cease to be significant and that future activities don't become significant threats.

Implementing bodies submitted their progress reports for this 2019 reporting period and source protection staff compiled their responses into the reporting format as provided by the Ministry (attached). These reports are the product of a Provincial on-line reporting database. The Source Protection Committee provided their opinion on achieving source protection plan objectives this reporting period for inclusion in the report. They gave an overall score of progressing well for plan implementation and endorsed the attached report at their meeting held March 10, 2020 for submission to the source protection authorities.

## **STAFF COMMENT**

Significant threat activities continue to be monitored, verified, removed, or addressed by implemented policies. Of the 213 significant threat activities recorded December 31, 2018, 11 new ones were added, 17 were removed, and 166 have been addressed through policy implementation. This leaves 41 existing significant threats remaining. This tally includes the revised delineation of the Greensville wellhead protection area completed in 2019 that identified new septic system threats and the removal of others. These new systems will be included in the next round of the on-site sewage system inspection program required by the Ontario Building Code in 2021. This means at the end of 2019 80% of the existing significant threat activities have been managed.

Since plan implementation began December 31, 2015, implementing bodies, such as municipalities, provincial ministries and other stakeholders, have been working to implement the policies in the plan and reduce the risks posed by identified threat activities. At the end of 2019, all 100% of the policies in the Halton-Hamilton Source Protection Plan are in process or have been implemented. These policies are written to manage or prohibit activities on properties that pose a significant threat or are strategic in nature and help protect drinking water sources in a more general way. Sixty of the policies are legally binding and must be implemented. The remaining 38 policies are requests for actions.

Following the intent of the source protection plan policies, municipalities have been integrating source water protection into their operations to ensure all municipal decisions and actions protect drinking water sources. Official Plan conformity exercises to include source protection planning are complete in Hamilton and the County of Wellington, while Halton Region, Burlington, Oakville and Milton have theirs in process. In 2019, municipal Risk Management Officials began negotiating risk management



plans with landowners to address some agricultural and fuel related activities. These plans will be complete by the end of 2020. Municipal staff continue to raise awareness about the protection of drinking water sources through fall fairs, workshops, newspaper ads and other outreach programs. Upgrades to wastewater treatments plants, fixing sanitary and storm sewer cross-connections, and the installation of monitoring wells to assess contaminants all occurred in 2019 and will benefit the quality of our source waters.

The provincial ministries continue to tweak their programs to include source water protection and the province recognized the program and services offered by the source protection authorities as mandatory.

## **STRATEGIC PLAN LINKAGE**

The initiative refers directly to the HCA Strategic Plan 2019-2023:

- **Strategic Priority Area – Organizational Excellence**
  - Initiatives - Collaborate and share services, expertise and resources with neighbouring conservation authorities and Conservation Ontario
- **Strategic Priority Area – Education and Environmental Awareness**
  - Initiatives - Report on the projects and health and quality of our watershed

## **AGENCY COMMENTS**

Not applicable.

## **LEGAL/FINANCIAL IMPLICATIONS**

Not applicable.

## **CONCLUSIONS**

The *Clean Water Act, 2006* requires that source protection authorities prepare and submit a report annually that describes the progress made on implementation of source protection plans. In the Halton-Hamilton Source Protection Region, implementation of the plan policies is proceeding well with 100 percent of all policies implemented or in process and 80 percent of the identified existing significant threats managed.



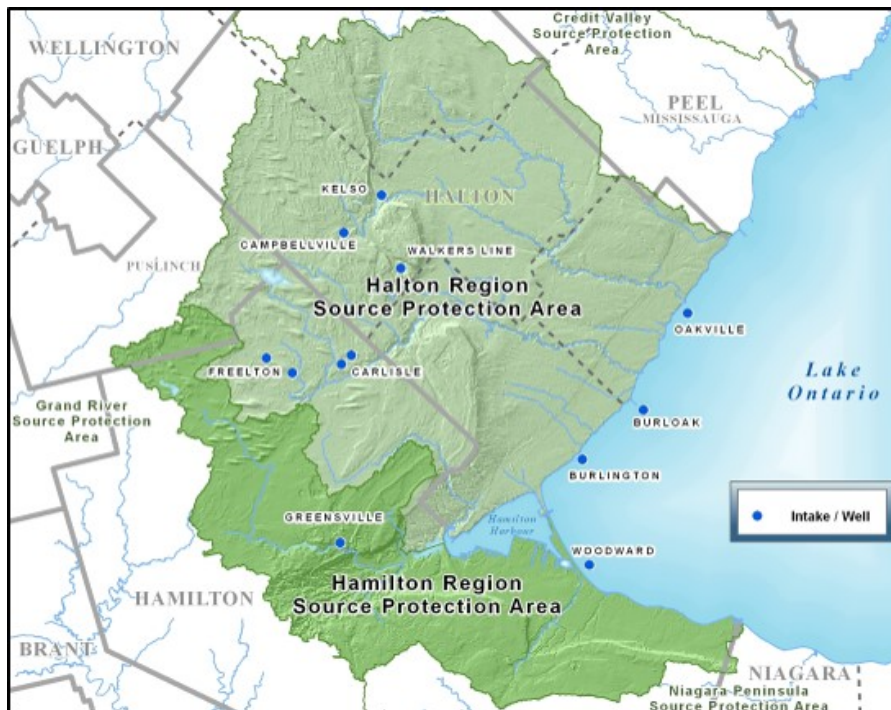
# Source Protection Annual Progress Report

## I. Introduction

This annual progress report briefly summarizes the progress made in implementing the source protection plans for the Halton Region and Hamilton Region Source Protection Areas, as required by the Clean Water Act, 2006 and its regulations. It highlights actions taken to protect the quality of the sources of our drinking water and to sustain them into the future.

The source protection plan is the culmination of extensive science-based assessments, consultation with the community, and collaboration with local stakeholders and the province. The implementation of the policies it contains ensures that activities carried out in the vicinity of municipal wells and lake-based water intakes will not pose significant risk to the water sources.

Thanks to the efforts of those responsible for implementing the policies, most of the policies have been implemented and many significant threat activities have been managed.



For more information about the drinking water source protection program in the Halton-Hamilton Source Protection Region, please visit our website at [www.protectingwater.ca](http://www.protectingwater.ca)

## II. A message from your local Source Protection Committee

- ☒ **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.**

This is the third Annual Report prepared on implementation of the source protection plan for the Halton-Hamilton source protection region covering the period from December 31, 2015 to December 31, 2019 and summarizes its progress in 2019.

With changes to the counting of the Halton-Hamilton Source Protection Plan policies there are 98 policies to address the 207 actual significant drinking water threats that have been identified as of December 31, 2019. Multiple bodies consisting of the municipalities within the source protection region as well as various provincial ministries and other agencies and stakeholders are responsible for their implementation. Approximately 80% of the significant drinking water threats have been addressed which is down from 84% for 2018 but reflects newly identified threat activities in 2019. However, 100% of the policies are considered to be implemented, in progress or require no further action.

The Committee continued with its outreach program during 2019. Presentations were made to the Niagara Escarpment Commission, members of Hamilton Council and a number of the elected members of the Provincial Parliament as well as students at McMaster University. Continued outreach will be undertaken in 2020.

Based on the review of the annual progress reporting by the bodies implementing the plan, the Halton-Hamilton Source Protection Committee is pleased to see that 100% of the policies associated with the plan are effectively addressing significant drinking water threats and achieving the objectives of the Clean Water Act and that a ranking score of progressing well and on target is a fair assessment on its progress.

### III. Our Watershed

To learn more, please read our assessment reports and source protection plan.

The Halton-Hamilton Source Protection Region is located at the western end of Lake Ontario and includes portions of the municipalities of the Cities of Hamilton, Burlington and Mississauga, the Regions of Halton, Peel and Niagara, the Towns of Milton, Halton Hills, Oakville and Grimsby, the County of Wellington and the Township of Puslinch. The region covers an area of 1,417 sq km of land and 720 sq km of Great Lakes waters. Approximately 970,000 people make the source protection region their home and the region is expected to grow substantially over the next decades. The landscape is changing due to this growth and the source protection plan is in place to help guide this growth in a way that protects our vulnerable drinking water sources.

The Regional Municipality of Halton and the City of Hamilton own and operate municipal water systems within the source protection region. These systems include six intakes in Lake Ontario (Woodward (2), Burlington (2), Burloak and Oakville), three municipal well systems in Hamilton (Carlisle, Freelon and Greensville) and three municipal well systems in Halton Region (Kelso, Campbellville and Walkers Line). In addition, some homes and businesses within the source protection region are supplied water from municipal drinking water systems located in neighbouring areas. In total, these municipal water systems supply about 95 percent of the population within the source protection region with reliable, clean drinking water. About 92 percent of the population receive water from Lake Ontario and 3 percent receive groundwater. Outside the urban area, private wells and cisterns are relied on by the remaining 5 percent of the population. Private well systems and the natural environment use the same sources of water that, under the current program, the government seeks to protect for municipal supplies. In this way, maintaining a sustainable supply of clean water within the aquifers of Halton-Hamilton Source Protection Region and in Lake Ontario will benefit all residents and business operators.

Studies completed over the past few years have assessed the vulnerabilities and risks to the quality and quantity of the waters that supply the municipal wells and intakes from activities occurring on lands and in waters in their vicinity. Protection areas have been mapped and a plan developed to manage or prohibit certain activities within these areas. Follow-up assessments were completed for the Kelso, Campbellville and Greensville municipal well supplies when new data and more advanced modelling tools became available. All municipal wells have protection areas for threats to water quality, while only those where it was determined that the sustainability of the water source may be in question have protection areas for threats to water quantity. The municipal intakes in Lake Ontario also have protection zones for threats to water quality.

The source protection plan contains policies that require or request action from provincial ministries, federal departments, municipalities, conservation authorities, landowners, and stakeholders. This report summarizes actions taken in 2019 with tracking of implementation between December 31, 2015, when the plan took effect, and December 31, 2019.

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

### 1. Source Protection Plan Policies

The Halton-Hamilton Source Protection Committee included policies in their source protection plan to address prescribed threats, a local threat, actions thought to be necessary to protect sources of drinking water, and the monitoring of policy implementation. All monitoring policies are being followed and are no longer tracked for policy implementation. 100% of the 60 legally binding policies, the 20 policies that are non-legally binding but address significant threat activities, and the 18 general strategic policies are implemented, are in process, or have been considered and did not require further action.

Policies are in place to manage or prohibit activities that may be proposed to occur within vulnerable areas that could pose a risk to the quality or quantity of sources of drinking water, and for activities that are currently ongoing. Some of each policy type (binding, non-binding, strategic) are yet to be fully implemented but 80% of the existing significant threats have been managed.

Based on a continued advancement of source protection plan implementation in 2019, the progress score given for overall plan implementation status is P: Progressing well.

## 2. Municipal Progress: Addressing Risks on the Ground

There are 12 municipalities within the Halton-Hamilton Source Protection Region but policies are directed at eight to address significant, moderate and low threat activities outlined in the source protection plan. These policies primarily require municipalities to update planning documents, update education and outreach programs or initiate new ones to include source protection messaging, consider the offering of incentives to have work required to protect water sources completed in a timely manner, to update spill response and salt management plans, to reduce water consumption to sustain supplies and to ultimately ensure all municipal decisions and actions protect drinking water sources.

Implementation of the source protection plan policies by the municipalities has progressed in 2019. All policies targeting significant threat activities are in progress or implemented. Risk management plans are required to be established by December 31, 2020 and Halton Region, the City of Hamilton and the Township of Puslinch are working on these. Official plan conformity exercises have been completed by the City of Hamilton, County of Wellington and the Township of Puslinch. Halton Region, the Towns of Milton and Oakville, and the City of Burlington have begun their conformity exercises while Halton Hills has not yet started. Burlington's adopted Official Plan (April 2018) contains draft policies that recognize the Source Protection Plan and the requirement for a disclosure report. The plan is currently with Halton Region for review and approval. The Town of Milton began their conformity exercise (We Make Milton) in the summer of 2019 and predict that it will be 2 to 3 years before the process is complete. Oakville anticipates completion of their amendment by late 2021 and the Town of Halton Hills in 2021/2022.

The source protection plan also includes general strategic policies that all 12 municipalities are requested to implement to protect the quality and/or quantity of source water. Actions are requested to limit the flow of contaminants through transport pathways, to collect climate data to better inform studies and assess changes, to educate the public about the potential issues with the importation of fill, to update spill prevention and emergency response plans, and reach out to those that transport dangerous goods near wells and intakes. Although voluntary, most municipalities are working on or have implemented these policies.

The municipalities have made great progress in 2019 toward implementing all their policies and are given a progress score of P: Progressing well.

### 3. Septic Inspections

The Ontario Building Code requires that small sewage systems be re-inspected every five years through a mandatory minimal program or a discretionary more advanced program. The City of Hamilton and the Town of Milton established inspection programs in 2016 and owners of properties within the wellhead protection areas where sewage systems could be a significant threat received letters to have third party contractors complete the inspection and to submit the required certificate to the municipality following completion of any required works.

Although not yet in operation, the Greenville well system was expanded in 2019 and the protection area was redelineated. The revised delineated area includes 13 sewage systems already inspected and 17 new ones. These new ones will be included in the next round of inspections in a few years.

The total number of properties within the Kelso, Campbellville, Carlisle, Freelon and Greenville areas that are now included in the program is 127. Of these, 110 (87%) have been inspected. Only two major repairs were required and have been completed. The inspection program included outreach materials about proper care and use of septic systems that also satisfied the requirements of an education and outreach policy.

A progress score of P: Progressing well is given to the two municipal sewage re-inspection programs.



## 4. Risk Management Plans

Screening processes are in place within the planning and building departments of the municipalities to ensure applications for future development are reviewed appropriately for potential threat activities and source protection policy application. Applicants with properties where significant threats are possible must receive a notification from the risk management official that no plan policies apply and the planning and permitting processes may proceed. A total of 13 notices were issued in 2019 by the City of Hamilton and zero by Halton Region and the Township of Puslinch.

Risk management officials and inspectors continued to verify threat activities occurring in the region in 2019. Two significant threat activities were added in commercial fertilizer application and use of land by livestock. The establishment of risk management plans is underway with the City of Hamilton completing three on three properties to address significant threats posed by the application of commercial fertilizer. Halton Region and the Township of Puslinch are in negotiations to establish risk management plans to address significant threat activities in their areas. Policies require that all risk management plans must be in place by December 31, 2020.

Based on the progress made in 2019, the progress score given for the development of risk management plans is P: Progressing well.

## 5. Provincial Progress: Addressing Risks on the Ground

Provincial ministries, including MECP, MNRF, MMAH, MTO and OMAFRA, are responsible for the implementation of source protection policies included in the Halton-Hamilton Source Protection Plan to reduce the risk of significant threat activities or to inform decision makers, collect and share data and lessons learned with others, or provide incentives to advance policy implementation.

The Ministry of the Environment, Conservation and Parks - wastewater/sewage works was the only ministry to receive applications to undertake activities that could pose significant risk to the drinking water sources in Halton-Hamilton. Of the three applications that underwent detailed review for source protection, one significant drinking water threat was identified and managed through conditions in the permit.

Relevant provincial ministry staff continue to be trained or have their training refreshed on the source protection program, recent amendments to the Technical Rules, and annual reporting requirements. The Provincial Government has made the responsibilities of the source protection authorities under the Clean Water Act mandatory services and this has raised awareness and ensured that source protection planning is incorporated into government business.

Through a collaborative effort of many stakeholders, a tool for local use to assess potential risk to source water quality from climate change was developed in 2019 and will be released in 2020. This tool will be useful to advance local discussion about possible impacts and mitigation needs.

Provincial ministries are given a progress score of P: Progressing well.

## 6. Source Protection Awareness and Change in Behaviour

Local municipal source protection staff continued to train municipal staff of other departments and to reach out to their communities to raise awareness about the protection of drinking water sources in 2019. Children's water festivals, well decommissioning, and staff training continue to bring positive results in increased awareness about the sources of our drinking water and the need to keep it clean and plentiful.

In 2019, Halton Region participated in an Environmental Farm Plan workshop and fall fairs and utilized Conservation Ontario's communications products, such as the source protection YouTube video, to relay their messaging. They continued their Residential Well Decommissioning Grant Program and refined their Spill Response Procedure to align with the objectives defined in the Halton-Hamilton Source Protection Plan. Also, to better understand the sources of chlorides in the Campbellville municipal wells, Halton Region installed six groundwater monitoring wells nearby.

Hamilton source protection staff educated residents on septic tanks and holding tanks at a community meeting, and informed de-icing contractors and their supervisors about the adverse effects on drinking water of the overuse of road salt and the need to optimize its use.

Municipal staff report that the source protection plans are continuously bringing awareness about potential issues that can impact water quantity and quality in the context of capital projects and development applications. Positive outcomes are resulting from implementation of municipal capital projects, such as upgrades to wastewater treatment plants, the Randle Reef Sediment Remediation Project, Hamilton's Real-Time Control System, cross-connection control projects, Burlington's oil/grit separators, and Peel Region's Inflow and Infiltration Remediation Strategy. The City of Hamilton is also forward thinking about source water quality in its involvement in a research project about cyanobacteria that focuses on seasonality and climate change aspects, and its impact on the municipal intakes.

Township of Puslinch source protection staff reached out to residents all across the County of Wellington, including within the portion of the Township in the Halton-Hamilton Source Protection Region. They continue to raise awareness through training, newspaper ads, the production of education and outreach materials and their distribution during landowner visits, inspections, and direct mailings.

## 7. Source Protection Plan Policies: Summary of Delays

In 2019 Halton-Hamilton region achieved the milestone of 100% of the source protection plan policies that directly address significant drinking water threats as either implemented, in progress or considered and further actions are not required. In 2020 we expect to move closer to full implementation with the deadline for negotiated risk management plans approaching.

The general, strategic policies in the source protection plan are also 100% implemented, in progress or considered and further actions are not required. A few municipalities have not started implementation of a few policies, however, others have implementation underway and the policies were recorded as in progress. In future years, the source protection authority will seek a coordinated approach to implementation of these policies based on the knowledge and actions of those who have succeeded with their implementation efforts.

## 8. Source Water Quality: Monitoring and Actions

The Cedarvale well field is located in Georgetown, part of Halton Hills, and its protection areas for quality and quantity extend slightly into the Halton Region Source Protection Area. Well numbers 1A, 4 and 4A in this well field have rising trends in chloride concentrations and an issue contributing area has been delineated. The CTC Source Protection Committee identified the need for chloride management measures and the Halton-Hamilton Source Protection Committee included policies in their plan to manage or prohibit the storage and application of road salt and the storage of snow.

Halton Region reported that the chloride concentration trends at the wells have not changed since reporting began in 2016. However, it is acknowledged that it will take time for the benefits of the implementation of associated policies to be realized.

Halton Region also identified elevated or rising chloride concentrations in the source water of the Campbellville well field. To better understand the sources of the chlorides, Halton Region constructed six groundwater monitoring wells in the Campbellville area in 2019. These wells will be integrated into Halton Region's existing groundwater monitoring program and further assessment of water quality issues will be completed once data are collected and analyzed.

## 9. Science-based Assessment Reports: Work Plans

No work plans to satisfy these technical rules were required to be implemented for our assessment reports. However, a work plan to undertake a comprehensive review and update of the source protection plan and assessment reports directed technical work in 2019. A copy of the work plan is available at [www.protectingwater.ca](http://www.protectingwater.ca).

## 10. More from the Watershed

The Halton-Hamilton Source Protection Plan includes policies that are strategic in nature and implementers are requested, rather than required, to implement them. The response to these policies has been good and the drinking water sources of the source protection region are better protected because of their implementation.

Local municipalities report that relationship building with private companies is ongoing, as is training of staff and discussions on incorporating source protection principals into winter maintenance plans, spill response plans, and official plan updates.

Furthermore, local municipalities have recognized the importance of the protection of the quality and quantity of water sources through integration with other initiatives. Well decommissioning programs are offered to reduce pathways for contaminants to reach the aquifers from which drinking water is taken. Children's water/groundwater festivals help inform families of the need to protect water and how they can do their part. Municipal capital projects such as the Woodward Avenue Wastewater Treatment Plant upgrade in Hamilton, the remedial action plan activities in Hamilton Harbour, cross-connection and downspout disconnection programs in many municipalities, manhole and sewer lining to prevent sewage leakage in Peel Region, and the installation of oil/grit separator chambers in existing storm sewer systems to improve the quality of the water discharging to Lake Ontario from Burlington, will all produce positive outcomes for the protection of drinking water sources.

2019 ANNUAL PROGRESS REPORTING FOR SOURCE PROTECTION - DRAFT FOR SPC REVIEW

Name of Source Protection Region: Halton-Hamilton

Questions #20a: Implementation Status of source protection plan policies

**NOTE : Only complete this tab if you wish to record counts and calculate percentages of policies implemented using the Excel format option.**

Complete the four tables below to indicate the implementation status of various policies in your source protection plan. The percentages calculated and reported in tables 1 to 3 below should be cumulative percentages (i.e., status of policies since the source protection plan effective date). See Guidance for more details.

Table 1a. Implementation status of *legally binding* policies that address *significant* drinking water threat activities.

Implementation Status Category	Count of Plan Policies	Percentage of Plan Policies
Implemented	40	66.7%
Implemented - Policy outcome(s) evaluated; no further action(s) required	19	31.7%
In progress/some progress made	1	1.7%
No progress made	0	0.0%
No information available/no response received	0	0.0%
No response required/not applicable	0	0.0%
TOTAL	60	100%

Table 1b. Implementation status of *non-binding* policies that address *significant* drinking water threat activities.

Implementation Status Category	Count of Plan Policies	Percentage of Plan Policies
Implemented	8	38%
Implemented - Policy outcome(s) evaluated; no further action(s) required	8	38%
In progress/some progress made	5	24%
No progress made	0	0%
No information available/no response received	0	0%
No response required/not applicable	0	0%
TOTAL	21	100%

double counts 1 policy also reported in Table 1a

Table 2. Implementation status of policies that address *moderate-low* (any policy tool, any legal effect) drinking water threat activities.

Implementation Status Category	Count of Plan Policies	Percentage of Plan Policies
Implemented	3	0
Implemented - Policy outcome(s) evaluated; no further action(s) required	0	0
In progress/some progress made	3	0
No progress made	0	0
No information available/no response received	0	0
No response required/not applicable	0	0
TOTAL	6	0

All policies double counted from Table 1b

Table 3. Implementation status of policies (i.e., transport pathway, general education & outreach, some specify action, etc.) *not* directly associated with addressing specific drinking water threats.

Implementation Status Category	Count of Plan Policies	Percentage of Plan Policies
Implemented	6	33%
Implemented - Policy outcome(s) evaluated; no further action(s) required	5	28%
In progress/some progress made	7	39%
No progress made	0	0%
No information available/no response received	0	0%
No response required/not applicable	0	0%
TOTAL	18	100%

Overall Comment - Policy implementation is double counted following the method set out by the province. Halton-Hamilton has policies that are both legally binding and non-legally binding as well as some that address significant, moderate and low threats.

Questions #20b: Implementation status of source protection plan policies

As required by O. Reg. 287/07, ss. 52(1), p. 1, complete the table below to 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 1a) and for any moderate/low threat policies that use prescribed instruments and *Planning Act* tools with the following details. Insert additional rows as needed.

Policy ID	Name of Implementing Body	Explanation of why actions were not taken by the person(s) or body(ies)	Outline next steps to support implementation
Not applicable			

## 2019 ANNUAL PROGRESS REPORTING FOR SOURCE PROTECTION - DRAFT FOR SPC REVIEW

Name of Source Protection Region: Halton-Hamilton

Questions #305: Enumerated threats - Progress made in addressing significant threats engaged in at time of source protection plan approval (i.e., enumerated as existing)

Complete the table of significant drinking water threats that were being engaged in (i.e., enumerated as 'existing' significant threats/threats) at the time of source protection plan approval by using the formula for the running tally of enumerated threats as explained below.

Lead source protection authorities will be maintaining a running tally of progress made in addressing significant threats that were on the ground before plans were approved. The running tally consists of the formula: A+B-C-D where:

- *A = Original estimate of significant drinking water threats engaged in/enumerated when source protection plan approved*
- *B = Additional significant drinking water threats identified after first source protection plan approved as a result of field verification (i.e., not part of original estimate of significant drinking water threat)*
- *C = Significant drinking water threats 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 = Significant drinking water threats 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.) Source protection authorities may use their local discretion in which policy tool they wish to reflect as being implemented.*

Threat ID	Prescribed Drinking Water Threat/Local threat/condition	A	B	C	D	No. of existing threats still to be addressed (A+B-C-D)
1	<input type="checkbox"/> The establishment, operation or maintenance of a waste disposal site within the meaning of Part V of the <i>Environmental Protection Act</i> .	0	0	0	0	0
2	<input checked="" type="checkbox"/> The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage.	150	0	2	129	19
3	<input checked="" type="checkbox"/> The application of agricultural source material to land.	3	1	1	0	3
4	<input checked="" type="checkbox"/> The storage of agricultural source material	3	1	1	0	3
5	<input type="checkbox"/> The management of agricultural source material	0	0	0	0	0
6	<input type="checkbox"/> The application of non-agricultural source material to land	0	0	0	0	0
7	<input type="checkbox"/> The handling and storage of non-agricultural source material	0	0	0	0	0
8	<input checked="" type="checkbox"/> The application of commercial fertilizer to land	0	3	0	3	0
9	<input checked="" type="checkbox"/> The handling and storage of commercial fertilizer	1	0	1	0	0
10	<input checked="" type="checkbox"/> The application of pesticide to land	5	1	2	3	1
11	<input type="checkbox"/> The handling and storage of pesticide	0	0	0	0	0
12	<input checked="" type="checkbox"/> The application of road salt	5	0	0	5	0



Threat ID	Prescribed Drinking Water Threat/Local threat/condition	A	B	C	D	No. of existing threats still to be addressed (A+B-C-D)
13	<input type="checkbox"/> The handling and storage of road salt	0	0	0	0	0
14	<input type="checkbox"/> The storage of snow	0	0	0	0	0
15	<input checked="" type="checkbox"/> The handling and storage of fuel	18	3	8	3	10
16	<input checked="" type="checkbox"/> The handling and storage of a dense non-aqueous phase liquid	1	1	1	0	1
17	<input type="checkbox"/> The handling and storage of an organic solvent	0	0	0	0	0
18	<input type="checkbox"/> The management of runoff that contains chemicals used in the de-icing of aircraft	0	0	0	0	0
19	<input checked="" type="checkbox"/> The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard O. Reg. 385/08, s. 3.	5	1	1	0	5
20	<input type="checkbox"/> Water taking from an aquifer without returning the water to the same aquifer or surface water body	0	0	0	0	0
21	<input type="checkbox"/> Reducing recharge of an aquifer	0	0	0	0	0
22	<input checked="" type="checkbox"/> Establishment and operation of a liquid hydrocarbon pipeline	22	0	0	22	0
<b>TOTAL</b>		<b>213</b>	<b>11</b>	<b>17</b>	<b>165</b>	<b>42</b>





# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

Report Id	Completed	Question	
10	True	As applicable to your source protection region/area, indicate if all relevant implementing bodies submitted a status update/annual report to the source protection authority for the previous reporting year. If "No" is selected for any implementing body(ies), then please complete the Comments field below with details including the name of the specific implementing body along with an explanation, if available, for not submitting a status update/annual report as required by a monitoring policy. *NOTE: Where a listed implementing body(ies) is not applicable/relevant to your source protection region/area, then simply select "No" and explain that it is or they are not applicable implementing bodies in your source protection region/area in the Comments field text box.	
<b>Response</b>			<b>Answer</b>
Risk Management Official			Yes
Municipality			Yes
Conservation Authority			Yes
Local Health Unit			No
MECP - Waste Disposal Sites - Landfilling and Storage			Yes
MECP - Wastewater/Sewage Works			Yes
MECP - Pesticides			Yes
MECP - Hauled Sewage/Biosolids			Yes
MECP - Permit to Take Water			Yes
MECP - Municipal Residential Drinking Water Systems			No
MECP - Other Policies			Yes
MECP - Waste Disposal Sites - Landfilling and Storage Inspections			No
MECP - Wastewater/Sewage Works Inspections			No
MECP - Conditions Sites			No
MECP - NMA - ASM and NASM Inspections			Yes
OMAFRA			Yes
MNRF			Yes
MTO			Yes
MMAH			Yes
MGCS-TSSA			No
MENDM			No



# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

Provincial Board/Commission	Yes
Federal Departments/Agencies/Commissions/Crown Corporations	Yes
Private Entity/Company	No
Association/Organization	Yes

**Comment:** All "nos" are not relevant implementing bodies.



# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

Report Id	Completed	Question	Category
20	True	Did the Source Protection Authority (i) indicate the status of all threat policies as contained in their source protection plan by using one of the two options outlined in the guidance document (ID 20a) AND (ii) complete the table to indicate which implementing body(ies) have not yet made any progress in policy implementation in reportable ID 20b?	Implementation status of source protection plan policies

Answer: Yes

Comment:

Report Id	Completed	Question	Category
30	True	Number of risk management plans agreed to or established within the source protection area/region (for existing and future threats) during the reporting period (i.e., annual total).	Part IV (Sections 57, 58 & Section 59)

Answer: 3

Comment:

Report Id	Completed	Question	Category
31	True	Number of properties (i.e., parcels) with risk management plans agreed to or established for this reporting period.	Part IV (Sections 57, 58 & Section 59)

Answer: 3

Comment:



# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

Report Id	Completed	Question	Category
32	True	How many existing* significant drinking water threats have been managed through the established risk management plans for this reporting period (* meaning engaged in OR enumerated as existing significant threats)?	Part IV (Sections 57, 58 & Section 59)
Answer:		1	

Comment:

Report Id	Completed	Question	Category
40	True	How many section 59 notices were issued in this reporting period for activities to which neither a prohibition (section 57) nor a risk management plan (section 58) policy applied, as per ss. 59(2)(a) of the Clean Water Act?	Part IV (Sections 57, 58 & Section 59)
Answer:		13	

Comment:

Report Id	Completed	Question	Category
41	True	How many section 59 notices were issued in this reporting period for activities to which a risk management plan (section 58) policy applied, as per ss. 59(2)(b) of the Clean Water Act?	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:



# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

Report Id	Completed	Question	Category
50	True	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 source protection plan (i.e., statement of conformity confirms the instrument holder is exempt from requiring a risk management plan) did the risk management official receive?	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
60	True	State the total number of inspections (including any follow-up site visits) that were carried out for activities (existing or future) that are prohibited under section 57 of the Clean Water Act for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:

Report Id	Completed	Question	Category
61	True	How many properties (i.e., parcels) had inspections for the purposes of section 57 for this reporting period?	Part IV (Sections 57, 58 & Section 59)
Answer:		0	

Comment:



# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

Report Id	Completed	Question	Category
62	True	Among the inspections conducted for section 57, 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 Clean Water Act for this reporting period?	Part IV (Sections 57, 58 & Section 59)

Answer: 0

Comment:

Report Id	Completed	Question	Category
70	True	How many existing significant drinking water threats have been prohibited as a result of section 57 prohibitions in this reporting period?	Part IV (Sections 57, 58 & Section 59)

Answer: 0

Comment:

Report Id	Completed	Question	Category
80	True	State the total number of inspections (including any follow-up site visits) that were carried out for activities that require a risk management plan under section 58 of the Clean Water Act for this reporting period.	Part IV (Sections 57, 58 & Section 59)

Answer: 0

Comment:





# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

Report Id	Completed	Question	Category
81	True	How many properties (i.e., parcels) had inspections for the purposes of section 58 for this reporting period?	Part IV (Sections 57, 58 & Section 59)

Answer: 1

Comment:

Report Id	Completed	Question	Category
82	True	Among the inspections conducted for section 58, how many were in contravention with section 58 of the Clean Water Act for this reporting period (i.e., person engaging in a drinking water threat activity without a risk management plan as required by the source protection plan)?	Part IV (Sections 57, 58 & Section 59)

Answer: 0

Comment:

Report Id	Completed	Question	Category
83	True	Among the inspections for section 58, how many were in non-compliance with the specific contents of the risk management plan for this reporting period? (NOTE: Please only include those inspections that showed non-compliance with measures/conditions to manage the actual threat activity.)	Part IV (Sections 57, 58 & Section 59)

Answer: 0

Comment:



# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

Report Id	Completed	Question	Category
84	True	State the total number of notices issued where there were cases of contraventions and/or non-compliance found with section 57 for this reporting period.	Part IV (Sections 57, 58 & Section 59)

Answer: 0

Comment:

Report Id	Completed	Question	Category
85	True	State the total number of notices issued where there were cases of contraventions and/or non-compliance found with section 58 for this reporting period.	Part IV (Sections 57, 58 & Section 59)

Answer: 0

Comment:

Report Id	Completed	Question	Category
86	True	State the total number of orders issued for contraventions and/or non-compliance found with section 57 for this reporting period.	Part IV (Sections 57, 58 & Section 59)

Answer: 0

Comment:



# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

Report Id	Completed	Question	Category
87	True	State the total number of orders issued for contraventions and/or non-compliance found with section 58 for this reporting period.	Part IV (Sections 57, 58 & Section 59)
Answer:		0	
Comment:			

# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

**Report Id   Completed   Question**

230   True   Indicate the methods by which education and outreach policies have been/are being implemented in the source protection region/area for the reporting period by all the relevant implementing bodies from the checklist below. Choose all that apply.

Response	Answer
use of educational materials for general public (e.g., "Source Water Protection - 2018 resources" on Conservation Ontario's website)	Yes
use of educational materials for target audiences including developers, builders, landowners, farmers, etc. (e.g., "Source Water Protection - 2018 resources" on Conservation Ontario's website)	Yes
workshops	Yes
site visits	Yes
source protection content for websites	Yes
educational videos (e.g., Drinking Water Source Protection video available Conservation Ontario)	Yes
podcasts	No
collaboration with other bodies (e.g., ministries, local organizations, etc.)	Yes
social media promotion (e.g., use of Facebook, Twitter, Instagram, etc.)	Yes
media advertising (e.g., print media, radio, television) in news media and/or industry/stakeholder specific publications	No
integration with other outreach programs or campaigns (e.g., Community Environment Days, etc.)	Yes
articles in publications	No
information kiosks at events/festivals	Yes
methods for implementing Education and Outreach not yet determined	No

**Comment:**



# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

Report Id	Completed	Question
240	True	State the number of source water protection signs installed on provincial highways in the source protection region/area for this reporting period.
<b>Agency</b>		<b>Current Year    Cumulative Count</b>
MECP		0                      4
<b>Provincial Total</b>		0                      4
<b>Comment:</b> The number of road signs installed in 2018 should be zero for a total of 2.		

Report Id	Completed	Question	Category
241	True	State the number of source water protection signs installed on municipal roads in the source protection region/area for this reporting period.	Signage
<b>Answer:</b>		0	
<b>Comment:</b> 20 signs were installed by the City of Hamilton before the plan took effect.			

Report Id	Completed	Question	Category
242	True	State the number of source water protection signs installed at other locations (if applicable) in the source protection region/area for this reporting period.	Signage
<b>Answer:</b>		0	
<b>Comment:</b>			



# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

Report Id	Completed	Question	Category
260	True	How many on-site sewage systems in the source protection area require inspections in accordance with the Ontario Building Code (i.e., once every five years)?	Sewage System Inspections
Answer:		127	

**Comment:** Not comparable to previous years due to new significant threat area in Greensville in 2019.

Report Id	Completed	Question	Category
261	True	Of those requiring inspections, how many on-site sewage systems (identified as significant drinking water threats) were inspected for this reporting period?	Sewage System Inspections
Answer:		0	

**Comment:** 0 in 2019, 110 in previous years



# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

Report Id	Completed	Question	
262	True	If not all required on-site sewage systems were inspected, please indicate why they were not all inspected from among the options below:	
<b>Response</b>			<b>Answer</b>
on-site sewage system(s) is newly constructed and therefore not captured in the first round of inspections			No
landowner refused entry, compliance order being sought			No
municipality has not yet initiated inspection program			No
other. Please specify in the comment box below.			Yes
<b>Comment:</b> WHPA delineation changed in 2019 and the sewage systems were not captured in the first round of inspections. They will be included in the next round.			



# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

Report Id	Completed	Question	Category
263	True	How many of the on-site sewage systems inspected required minor maintenance work (e.g., pump out, etc.)?	Sewage System Inspections
Answer:		0	

Comment: 74 completed in previous years

Report Id	Completed	Question	Category
264	True	How many of the on-site sewage systems inspected required major maintenance work (e.g., tank replacement, etc.)?	Sewage System Inspections
Answer:		0	

Comment: 2 completed in previous years.

Report Id	Completed	Question	Category
280	True	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 source protection authority receive from municipalities in this reporting period (as per O. Reg. 287/07, ss. 27(3))?	Transport pathways
Answer:		0	

Comment:





# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

Report Id	Completed	Question
281	True	Where transport pathway notices were received, indicate the action(s) taken by the source protection region/area in response to receiving these notices:
<b>Response</b>		<b>Answer</b>
Provided information to municipalities about changes in vulnerability		No
Provided notice to Source Protection Committee for information		No
Situation continues to be monitored		No
<b>Comment:</b> None received		



# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

Report Id	Completed	Question																												
300	True	[OPTIONAL]: If and where there are successful examples for each of the following initiatives in the source protection region/area (including from local municipalities, residents and businesses) that the authority wishes to highlight, then please indicate in the Comments field below. In your comments, please include details for each of the selected topics. Please limit the descriptions provided (e.g., one example for each topic or more could be included when the source protection authority feels they are exceptional/quite successful).																												
		<table><tr><th>Response</th><th>Answer</th></tr><tr><td>Education and Outreach (in description include details, if available, on type and percentage of target population reached, outcome(s) achieved, etc.)</td><td>Yes</td></tr><tr><td>Incentives (in description include details, if available, on outcome(s) achieved, how widely available was the incentive, etc.)</td><td>Yes</td></tr><tr><td>Stewardship Programs</td><td>Yes</td></tr><tr><td>Best Management Practices</td><td>Yes</td></tr><tr><td>Pilot Programs</td><td>No</td></tr><tr><td>Research</td><td>No</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>Yes</td></tr><tr><td>Climate Change (e.g., data collection)</td><td>Yes</td></tr><tr><td>Spill prevention/spill contingency/emergency response plan updates</td><td>Yes</td></tr><tr><td>Transport pathways</td><td>No</td></tr><tr><td>Water quantity</td><td>Yes</td></tr><tr><td>Great Lakes</td><td>No</td></tr><tr><td>Other policies (i.e., strategic action, etc.)</td><td>Yes</td></tr></table>	Response	Answer	Education and Outreach (in description include details, if available, on type and percentage of target population reached, outcome(s) achieved, etc.)	Yes	Incentives (in description include details, if available, on outcome(s) achieved, how widely available was the incentive, etc.)	Yes	Stewardship Programs	Yes	Best Management Practices	Yes	Pilot Programs	No	Research	No	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.)	Yes	Climate Change (e.g., data collection)	Yes	Spill prevention/spill contingency/emergency response plan updates	Yes	Transport pathways	No	Water quantity	Yes	Great Lakes	No	Other policies (i.e., strategic action, etc.)	Yes
Response	Answer																													
Education and Outreach (in description include details, if available, on type and percentage of target population reached, outcome(s) achieved, etc.)	Yes																													
Incentives (in description include details, if available, on outcome(s) achieved, how widely available was the incentive, etc.)	Yes																													
Stewardship Programs	Yes																													
Best Management Practices	Yes																													
Pilot Programs	No																													
Research	No																													
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.)	Yes																													
Climate Change (e.g., data collection)	Yes																													
Spill prevention/spill contingency/emergency response plan updates	Yes																													
Transport pathways	No																													
Water quantity	Yes																													
Great Lakes	No																													
Other policies (i.e., strategic action, etc.)	Yes																													

# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

**Comment:** Oil/grit separator chambers installed in existing storm sewer system to reduce the oil and grit content in stormwater discharging into Lake Ontario.  
Relationship building with private companies and the exchange of information to ensure the protection of municipal drinking water from potential spills.  
Discussions with spill response staff to confirm understanding on how to incorporate source protection in the existing spill response process.  
E&O - Children's water festivals held in many municipalities, World Toilet Day, World Water Day, Future City Builders, school presentations, social media posts, updated communications plan, staff training on source protection, newspaper ads on water conservation, chemical handling and changes to the SP plans, including E&O materials in mailouts and site visits.  
Climate change emergencies have been declared and mitigation and adaptation strategies are including increasing the resilience of municipal infrastructure.  
Emergency response exercise was completed for a spill scenario proximal to a municipal intake.

# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

#### Report Id Completed Question

305 True Complete the table below with the count data for each significant drinking water threat activity/local threat activity/condition being engaged in (i.e., enumerated as 'existing' significant threats) at the time of source protection plan approval or approval of amendments that include new / changing protection zones. \*NOTE: SPAs are strongly encouraged to refer to the Guidance document for additional details and instructions on completing this table.

ThreatId	Threat	A	B	C	D
1	The establishment, operation or maintenance of a waste disposal site within the meaning of Part V of the Environmental Protection Act.	0	0	0	0
2	The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage.	150	0	2	129
3	The application of agricultural source material to land.	3	1	1	0
4	The storage of agricultural source material.	3	1	1	0
5	The management of agricultural source material.	0	0	0	0
6	The application of non-agricultural source material to land.	0	0	0	0
7	The handling and storage of non-agricultural source material.	0	0	0	0
8	The application of commercial fertilizer to land.	0	3	0	3
9	The handling and storage of commercial fertilizer.	1	0	1	0
10	The application of pesticide to land.	5	1	2	3
11	The handling and storage of pesticide.	0	0	0	0
12	The application of road salt.	5	0	0	5
13	The handling and storage of road salt.	0	0	0	0
14	The storage of snow.	0	0	0	0



# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

15	The handling and storage of fuel.	18	3	8	3
16	The handling and storage of a dense non-aqueous phase liquid.	1	1	1	0
17	The handling and storage of an organic solvent.	0	0	0	0
18	The management of runoff that contains chemicals used in the de-icing of aircraft.	0	0	0	0
19	Water taking from an aquifer without returning the water to the same aquifer or surface water body	0	0	0	0
20	Reducing recharge of an aquifer	0	0	0	0
21	The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard. O. Reg. 385/08, s. 3.	5	1	1	0
22	The establishment and operation of a liquid hydrocarbon pipeline	22	0	0	22
1000	Water conditioning salts from water softeners	0	0	0	0
1001	Transportation of specified substances along corridors	0	0	0	0
1002	Spill of Tritium from Nuclear Generating Station	0	0	0	0
1003	Handling storage of fuel	0	0	0	0
1004	Transportation, storage and handling of diesel/gasoline	0	0	0	0
1005	Transportation of Agricultural and Non-Agricultural Source Materials	0	0	0	0
1006	International Shipping Channel within IPZ2	0	0	0	0
1007	Transportation of hazardous substances along transportation corridors	0	0	0	0
1008	Transportation or Storage and Handling of Fuel in an Event Based Area	0	0	0	0
1009	Waterfowl	0	0	0	0
1010	Local condition	0	0	0	0



# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

Totals: 213 11 17 165

**Comment:** Threat ID 1000 through 1010 are not provincially applicable and should be removed.

**MECP Calc D/(A+B-C):** 0 %

Report Id	Completed	Question	Category
310	True	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., significant drinking water threat addressed because policy is implemented) 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 plus B minus C).	Addressing existing enumerated threats
<b>Answer:</b>		Overall progress made is 80%, an decrease of 4% from 2018. The decrease in percentage is due to the redelineation of the WHPA for the Greensville well system and the addition of new threats activities. Greensville municipal well system has 30 sewage threat activities of which 13 were addressed during the first round of on-site sewage system inspections and 17 that are awaiting the second round.	

**Comment:**

Report Id	Completed	Question	Category
320	True	If applicable to the assessment report in your source protection region/area, provide a summary of steps taken to further assess or implement the plans of work described in technical rule 30.1: Water Budget Tier 3 not included in your original assessment report(s).	Assessment report information gaps
<b>Answer:</b>		N/A	

**Comment:**



# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

Report Id	Completed	Question	Category
321	True	If applicable to the assessment report in your source protection region/area, provide a summary of steps taken to further assess or implement the plans of work described in technical rule 50.1: GUDI for WHPA-E or F not included in your original assessment report(s).	Assessment report information gaps

Answer: N/A

Comment:

Report Id	Completed	Question	Category
322	True	If applicable to the assessment report in your source protection region/area, provide a summary of steps taken to further assess or implement the plans of work described in technical rule 116: Issue Contributing Area not included in your original assessment report(s).	Assessment report information gaps

Answer: N/A

Comment:

Report Id	Completed	Question	Category
330	True	Does the source protection authority have any other item(s) on which it wishes to report? If so, please explain.	Other reporting items

Answer: The SPC Communication Plan continued in 2019 with the Chair and one SPC member speaking to environmental classes at McMaster University and Redeemer College and guidance provided to the agricultural sector on where to find source protection information.

Comment:



# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

Report Id	Completed	Question	Category
340	True	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 source protection plan policies? Please describe the outcomes below.	Source protection outcomes
<b>Answer:</b>		<p>Spill Response Procedure has been updated to align with source protection plan objectives.</p> <p>Additional groundwater monitoring wells have been installed in the Campbellville area to understand chloride sources and impacts better. These will be integrated into the existing monitoring program.</p> <p>The Source Protection Plans are continuously bringing awareness about potential issues that can impact water quantity and quality in the context of capital projects and development applications. Positive outcomes are realized through projects such as Cross-Connection Control, wastewater treatment plant upgrades, Randle Reef Sediment Remediation Project, and Hamilton's Real-Time Control System. These programs are priority for quality of sourcewater and sustainable water services.</p> <p>New research project focused on the seasonality and climate change impacts on municipal source water from cyanobacteria.</p> <p>Improved awareness of source protection vulnerable areas among municipal staff and local residents.</p>	
<b>Comment:</b>			





# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

Report Id	Completed	Question
-----------	-----------	----------

350	True	In the opinion of the Source Protection Committee, to what extent have the objectives of the source protection plan been achieved in this reporting period?
-----	------	---

#### Response

#### Answer

Progressing Well/On Target - The majority of the source protection plan policies have been implemented and/or are progressing well
--

Yes
-----

Satisfactory - Some of the source protection plan policies have been implemented and/or are progressing well
--

No
----

Limited Progress made - A few of source protection plan policies have been implemented and/or are progressing well
--

No
----

**Comment:**



# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Halton - Hamilton

Report Id	Completed	Question	Category
351	True	Please provide comments to explain how the Source Protection Committee arrived at its opinion. Include a summary of any discussions that might have been had amongst the Source Protection Committee members, especially where no consensus was reached.	Achievement of source protection plan objectives
<b>Answer:</b>		The SPC was provided draft copies of the annual progress report and supporting documents on February 26, 2020. They met on March 10, 2020 to discuss plan implementation progress and their response for Part II of the report. The Chair drafted the SPC position and following discussion the members agreed on the final version of the text and the ranking.	
<b>Comment:</b>			