



Notice of Meeting

Hamilton Region Source Protection Authority

Thursday, May 4, 2023

6:00 p.m.

This meeting will be held in person for the Board of Directors and designated, limited staff only.

The public may view the meeting live on HCA's You Tube Channel:
<https://www.youtube.com/user/HamiltonConservation>

1. Call to Order – Santina Moccio Page 1
2. Declarations of Conflict of Interest
3. Approval of Agenda
4. Approval of Minutes of Previous Meeting (April 7, 2022)
5. Business Arising from the Minutes
6. Staff Reports/Memorandums
 - Items to be received
 - 6.1. Source Water Protection Program Overview and Annual Progress Reporting – Bob Edmondson / Martin Keller Page 5
 - Reports for approval
 - 6.2. Halton-Hamilton Source Protection Region Annual Progress Report 2022 – Martin Keller Page 23
7. In-Camera Items
8. Next Meeting – To be determined
9. Adjournment

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Hamilton Region Source Protection Authority

Minutes

Board of Directors Meeting

April 7, 2022

Minutes of the Board of Directors meeting held on Thursday, April 7, 2022, at 7.p.m., by videoconference and livestreamed via YouTube.

PRESENT: Lloyd Ferguson – in the Chair
Dan Bowman
Jim Cimba Susan Fielding
Tom Jackson Cynthia Janzen
Santina Moccio
Maria Topalovic

Jennifer Stebbing – Foundation Chair

REGRETS: Brad Clark, Esther Pauls, Russ Powers

STAFF PRESENT: Jonathan Bastien, Lisa Burnside, Grace Correia, Gord Costie, Matt Hall, Sara Kinnear, Neil McDougall, Scott Peck, Mike Stone, Jaime Tellier, and Nancy Watts

OTHERS: Carmela Agro, John Ariens, Chitra Gowda, Jason Jenkins, Everist Prokofiev

1. Call to Order

The Chair called the meeting to order and welcomed everyone present.

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 2201 **MOVED BY: Santina Moccio**

SECONDED BY: Dan Bowman

THAT the agenda be approved.

CARRIED

4. Minutes of the Previous Meeting (September 2, 2021)

SP 2202

MOVED BY: Santina Moccio

SECONDED BY: Dan Bowman

THAT the minutes of the Hamilton Region Source Protection Authority meeting held on September 2, 2021, be adopted as circulated.

CARRIED

5. Business Arising from the Minutes

There was none.

6. New Business

6.1. Halton-Hamilton Source Protection Region Annual Progress Report 2021

Chitra Gowda provided a summary of the report, noting the annual progress report is a requirement of the Clean Water Act to demonstrate progress made in implementing policies that protect Lake Ontario and groundwater municipal drinking water sources in the region. The comprehensive review process was outlined. In 2021, all of the Halton-Hamilton Source Protection Plan policies were implemented, in progress, or considered and no further action required. In addition, 99% of significant threat activities are addressed. The Chair commented Source Water Protection on the annual progress report.

SP 2203

MOVED BY: Susan Fielding

SECONDED BY: Maria Topalovic

THAT the Hamilton Region Source Protection Authority Board of Directors endorses the Staff report Halton-Hamilton Annual Progress Report 2021;

AND THAT the Hamilton Region Source Protection Authority Board of Directors directs Staff to carry out remaining minor typographical and AODA related edits and submit the Halton-

Hamilton Annual Progress Report 2021 to the Ministry of the Environment, Conservation and Parks.

CARRIED

6.2. Halton Hamilton Section 36 Update: Consultation and Submission

Chitra Gowda provided a summary of the report outlining comprehensive science and policy updates completed as required under Section 36 of the *Clean Water Act*, as well as the consultation process for the changes.

The Chair inquired about any proposed changes that would impact properties in the Hamilton Region Source Protection Area. Chitra advised the majority of the changes pertain to the Halton Region Source Protection Area. An update in the vulnerability score related to the Lake Ontario Intake Protection Zone (IPZ) in the vicinity of the Woodward Wastewater Treatment Plant did not result in any changes to applicable policies. Policies from the initial Source Protection Plans remain unchanged and continue to be implemented as they were previously.

SP 2204

MOVED BY: Jim Cimba

SECONDED BY: Dan Bowman

THAT the Hamilton Region Source Protection Authority Board of Directors endorses the Staff report Halton-Hamilton Section 36 Updates: Consultation and Submission

CARRIED

7. In-Camera Items

There were no in-camera items.

8. Next Meeting

Next meeting – to be determined.

9. Adjournment

On a motion, the meeting adjourned.

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Source Water Protection

Program Overview and Annual Progress Reporting



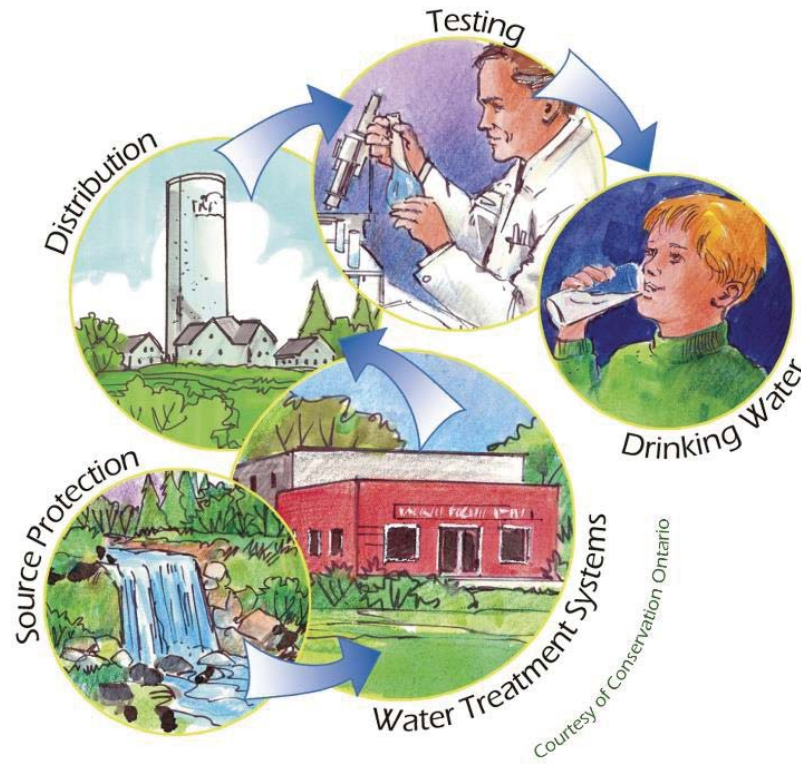
A Healthy Watershed for Everyone

Walkerton Tragedy

- In May 2000, the Town of Walkerton's drinking water became contaminated with E.coli.
- Seven people died and hundreds were made ill, many with lifelong health impacts.
- Justice O'Connor led an inquiry resulting in 121 recommendations in 2002, for a multi-barrier approach to protect drinking water sources.
- Ontario's Source-to-Tap legislative framework includes health-based standards, testing, licensing, operator certification, and compliance support.



Clean Water Act (2006)



- Implements recommendations on source protection outlined in ***Walkerton Report***
- Protects municipal drinking water sources from contamination and depletion
- Source protection is first layer of protection in multi-barrier approach

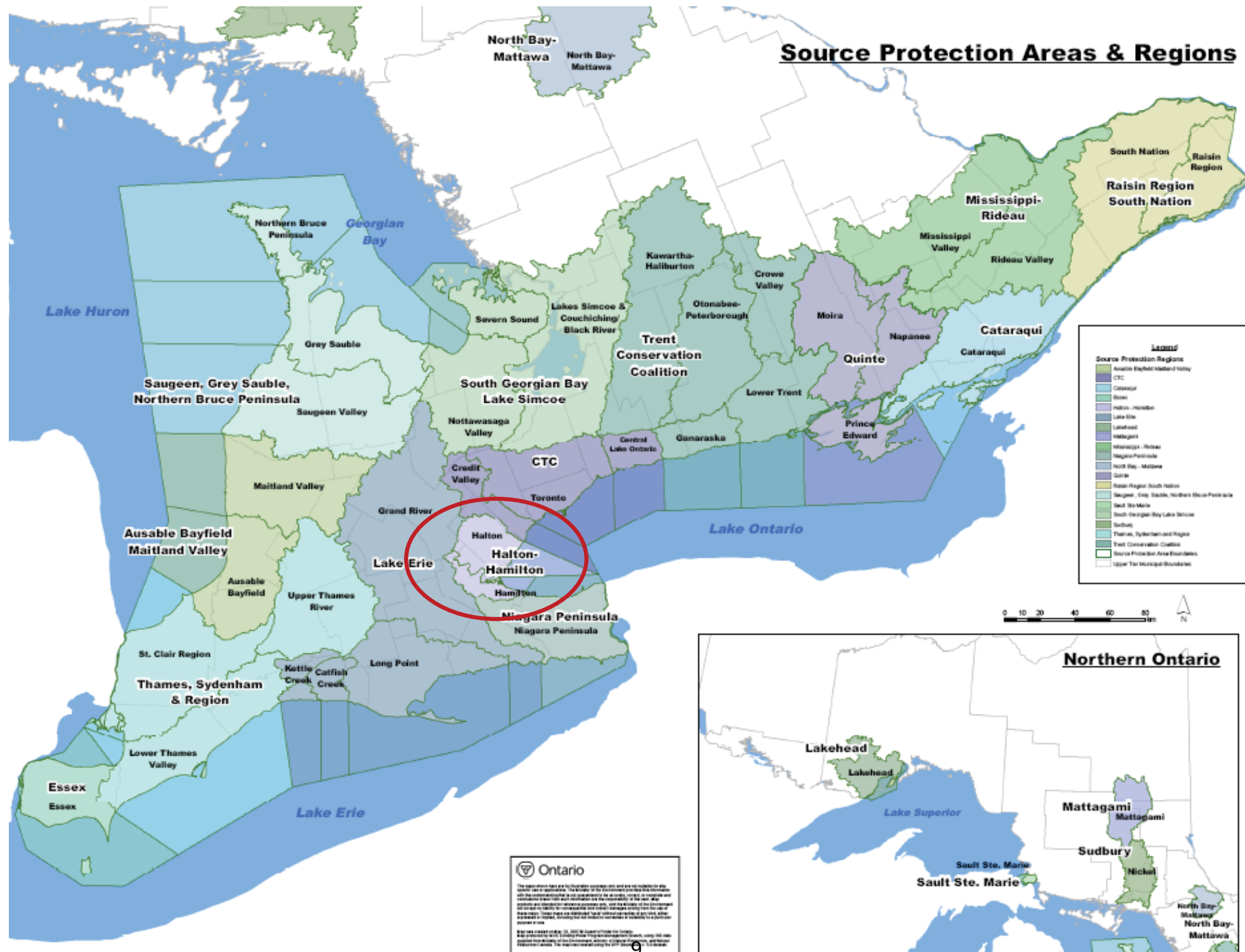
“A degree of redundancy guards against the failure of any one barrier.”

Justice Dennis O'Connor

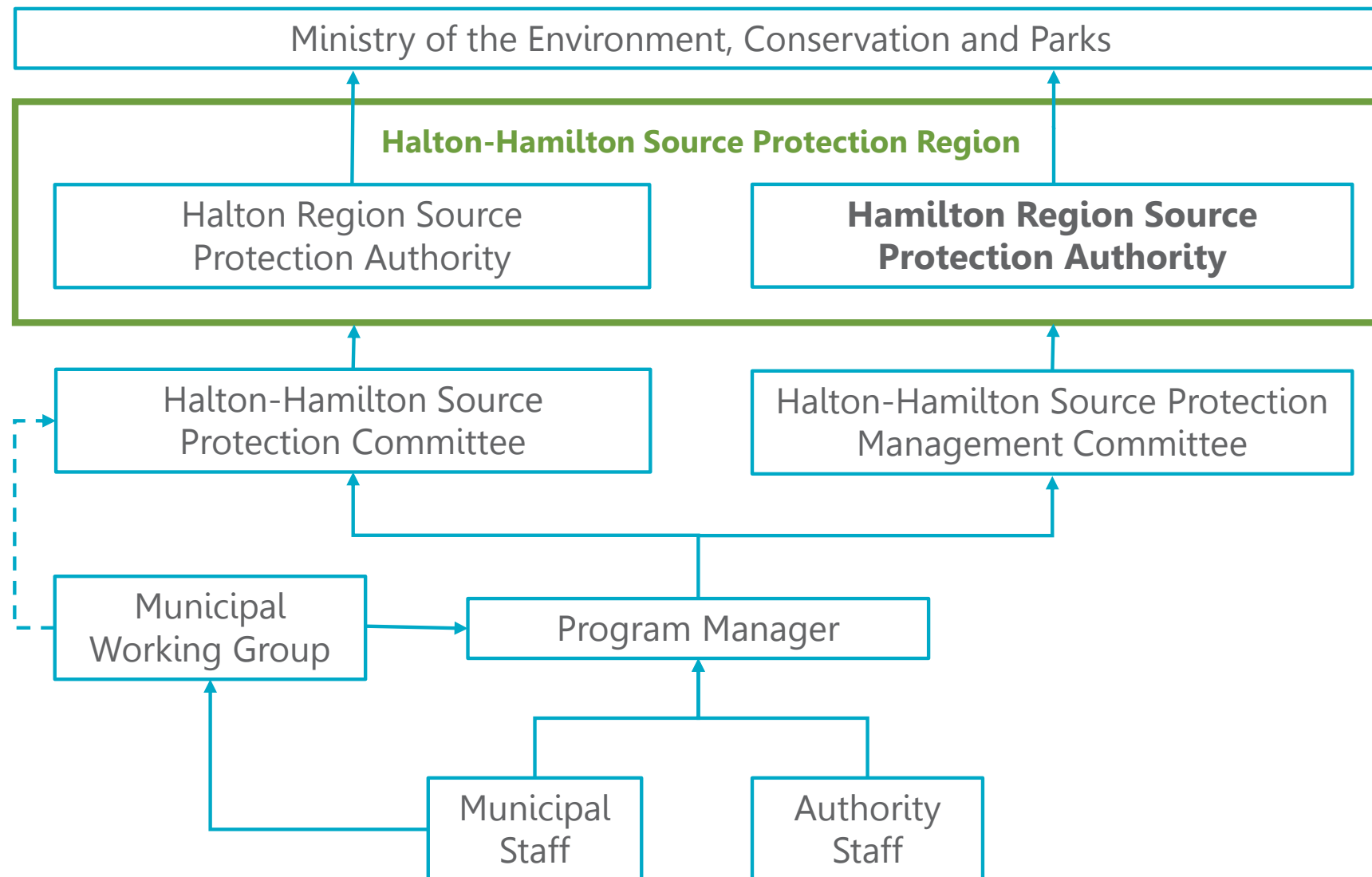
Source Protection Program

- Mandatory program under ***Conservation Authorities Act***
- Conservation Halton (Halton Region Source Protection Authority) is responsible for administration of the program
- Multi-stakeholder Source Protection Committee oversees the development and update of Halton-Hamilton Source Protection Plan
- Province of Ontario committed funding to March 2024



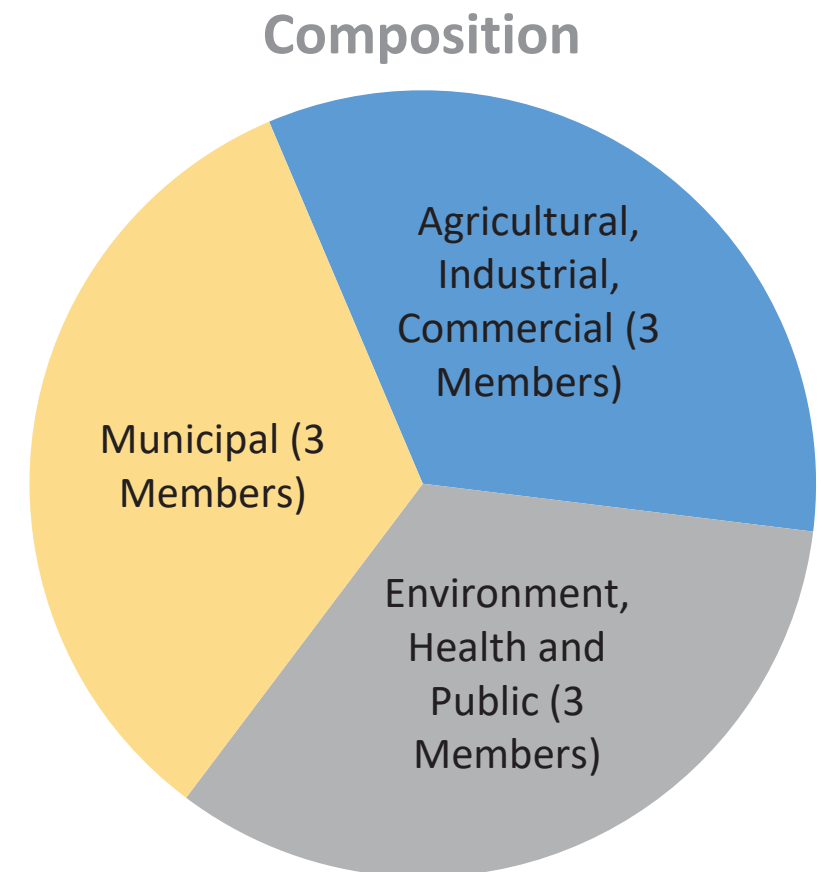


Program Governance



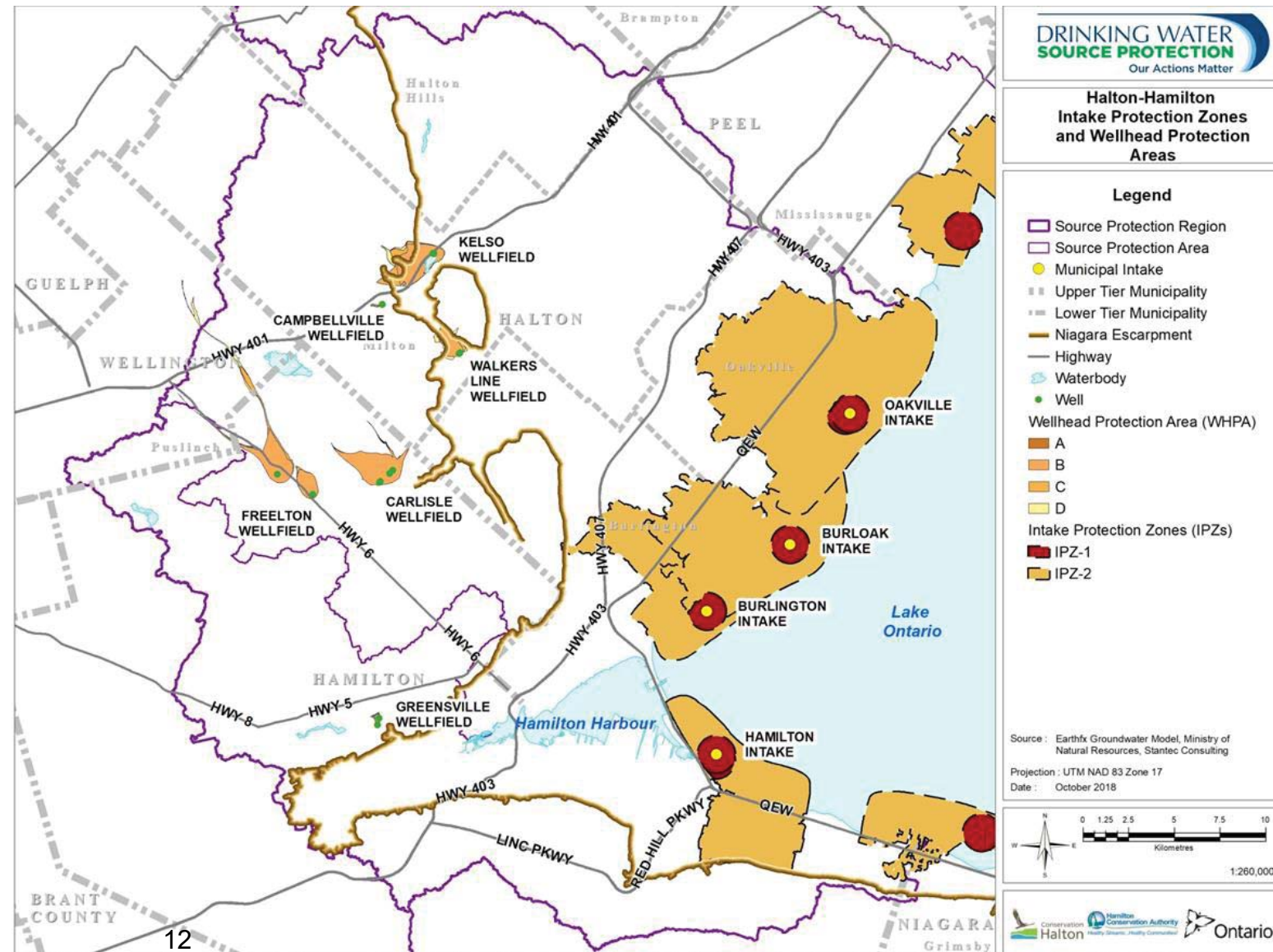
Halton-Hamilton Source Protection Committee

- 9 Member Committee, members appointed by Halton Region Source Protection Authority
- Committee Chair appointed by Minister of the Environment, Conservation and Park
- Responsible for developing and updating the Assessment Reports (Science) and Source Protection Plan (Policies)
- Provides input and reviews Annual Progress Reports
- Promotes Drinking Water Source Protection Program



Halton-Hamilton Source Protection Region

- 10 Drinking Water Systems
- 16 Groundwater Wells
- 6 Lake Ontario Intakes
- 12 municipalities
- > 1 million people
- ~95% of population use municipal drinking water
- Significant growth and development



Halton-Hamilton Source Protection Plan

- **Assessment Reports** include watershed characteristics, identify stressed water resources and areas vulnerable to contamination, and identify risks to municipal drinking water supplies
- **Source Protection Plan** includes policies addressing identified risks, using range of policy tools
- **Implementation** done by municipalities, provincial agencies, and others



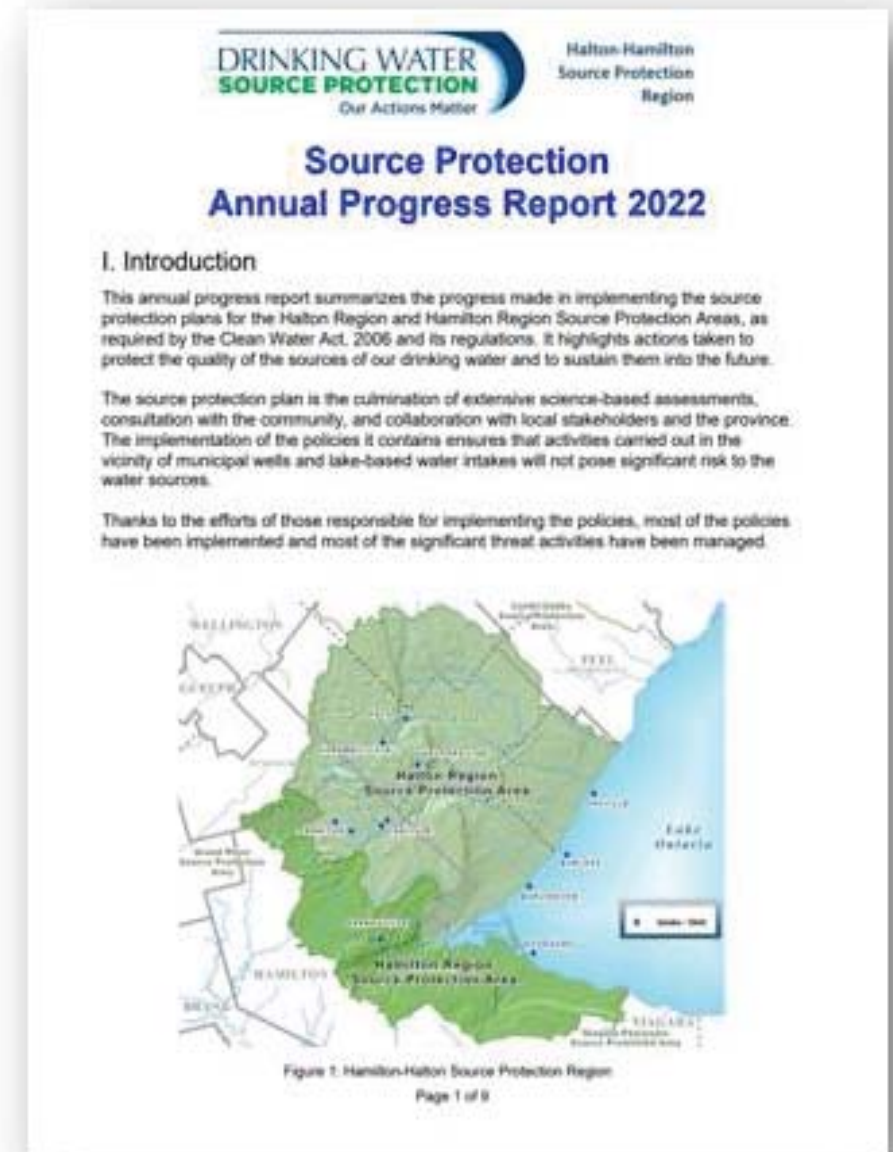
Implementation

- Source Protection Plan implementation is primarily the responsibilities of **municipalities** and **provincial agencies**
- Plan implementation and updates are supported by a **municipal staff working group**, chaired by a Conservation Halton source protection staff member
- Plan implementation is monitored through **annual progress reporting** in Spring



Annual Progress Report

- 6th Annual Progress Report (2022 Reporting Year)
- Municipalities, Ministries and Businesses within the Halton-Hamilton Source Protection Region report annually on the implementation status of the Source Protection Plan.
- Section 36 Source Protection Plan Update approved November 4, 2022



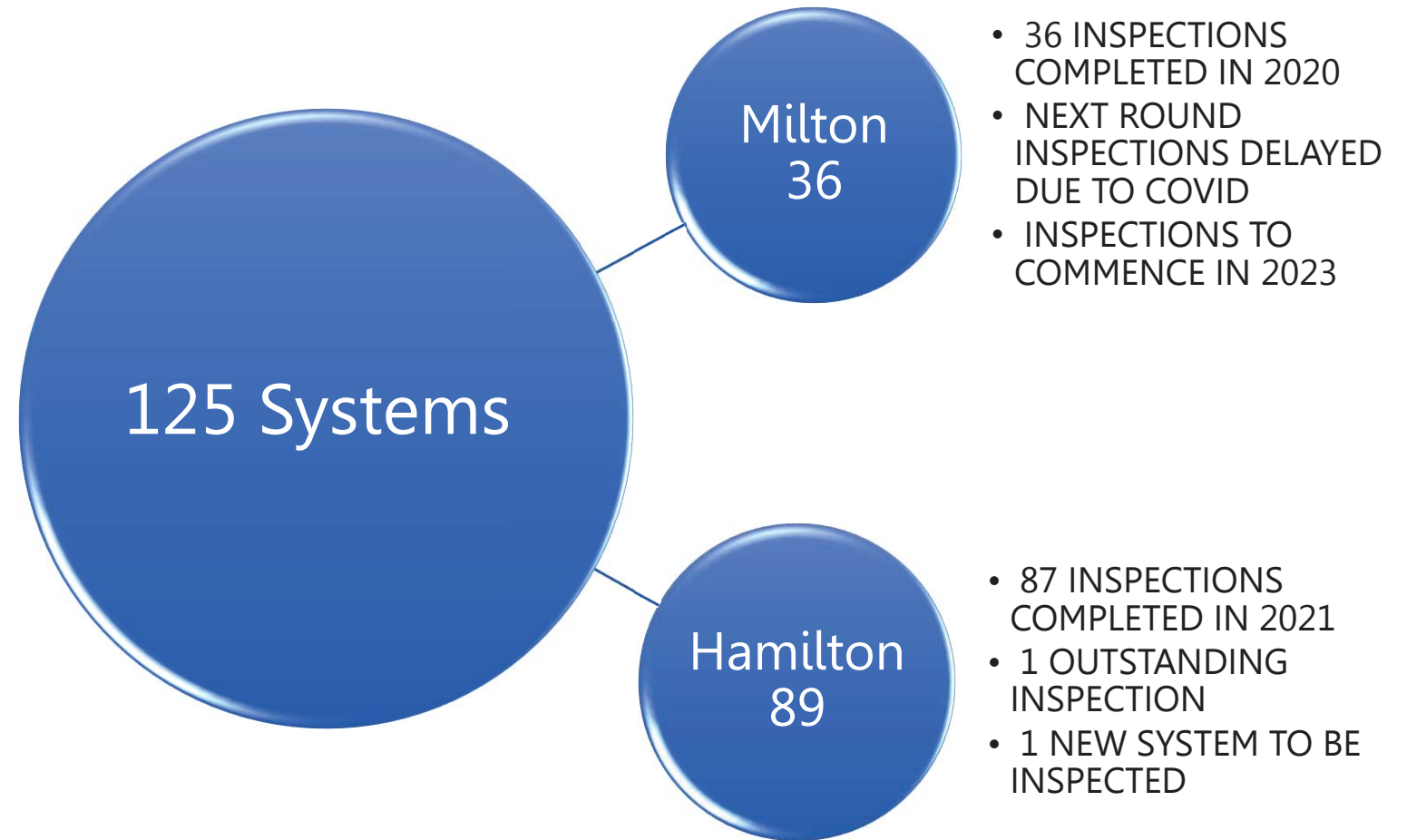
Official Plan and Zoning By Law

Municipalities within the Halton-Hamilton Source Protection Region are required to complete Official Plan and Zoning updates to conform with the latest source protection plan.

Municipality	Municipality	Official Plan	Zoning By Law	Note
City of Hamilton	City of Hamilton	Complete	Complete	
City of Burlington	City of Burlington	Complete, Under Appeal	Not Started	Waiting on Appeal
Town of Oakville	Town of Oakville	In- Progress	In- Progress	
Region of Halton	Region of Halton	In- Progress	N/A	
County of Wellington	County of Wellington	In- Progress	N/A	
Town of Milton	Town of Milton	In- Progress	Not Started	Will be implemented upon completion of "We make Milton" Official Plan Project
Town of Halton Hills	Town of Halton Hills	Not Started	Not Started	Review to start this year
Township of Puslinch	Township of Puslinch	N/A	In- Progress	

On-site Sewage Inspection Program

On-Site Septic Inspections on 125 sewage systems identified as significant drinking water threats, conducted every 5 years.



Source Protection Awareness

- City of Hamilton prioritized source water related projects about the quality of source water and sustainable water services have been made a priority as a result of public awareness.
- County of Wellington and Township of Puslinch continue to require a Drinking Water Threat Disclosure Report where significant threats may be present near municipal wells.
- Many municipalities continue to explore road salt application and the effect it has on the chloride and sodium levels in drinking water.



Annual Progress Report 2022



100% POLICIES IMPLEMENTED, IN-PROGRESS OR NO FURTHER ACTION REQUIRED



193 SIGNIFICANT THREATS: 99% ADDRESSED



1 RISK MANAGEMENT PLAN AGREED TO/ESTABLISHED: 7 TOTAL

P: PROGRESSING WELL/ON TARGET



Halton-Hamilton
Source Protection
Region



Contact Information

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www.conservationhalton.ca

www.protectingwater.ca

Thank you!



**Hamilton
Conservation
Authority**

A Healthy Watershed for Everyone

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Report

TO: Hamilton Region Source Protection Authority Board

FROM: Lisa Burnside, Chief Administrative Officer (CAO)

RECOMMENDED BY: T. Scott Peck, MCIP, RPP, Deputy CAO/Director, Watershed Planning and Engineering

PREPARED BY: Martin Keller, Senior Manager, Watershed Planning and Source Protection, Conservation Halton

MEETING DATE: May 4, 2023

RE: Halton-Hamilton Source Protection Annual Progress Report 2022

STAFF RECOMMENDATION

THAT the Hamilton Region Source Protection Authority approves the submission of the Annual Progress Report 2022 for the Halton-Hamilton Source Protection Plan to the Ministry of the Environment, Conservation and Parks;

AND THAT the Hamilton Region Source Protection Authority receives for information the staff report entitled “Halton-Hamilton Source Protection Annual Progress Report 2022”

EXECUTIVE SUMMARY

The Halton-Hamilton Source Protection Plan came into effect at the end of December 2015. Source protection authorities report on policy implementation progress annually as required under the Clean Water Act, 2006. Staff prepared the Annual Progress Report for 2022, demonstrating continued policy implementation by municipalities and others to protect municipal drinking water sources.

Activities that pose significant risks to municipal drinking water sources continue to be monitored, verified, removed, or addressed through implementation of plan policies. By the end of 2022, 99% of the existing significant threat activities have been managed. All policies in the Halton-Hamilton Source Protection Plan are in process or have been implemented.

The following report provides an overview of the activities undertaken and successes achieved for the Halton-Hamilton Source Protection Plan implementation in 2022.

BACKGROUND

The Clean Water Act, 2006 requires the preparation, maintenance and implementation of source protection plans to protect the quality and quantity of sources of municipal drinking water. The Halton-Hamilton Source Protection Plan was approved by the Ministry of the Environment, Conservation and Parks (MECP) on December 31, 2015. Since then, the implementation of policies is being carried out by municipalities, provincial ministries, and others, to address risks posed to municipal drinking water sources. The policy implementers have been working to satisfy the intent of each policy.

There are a variety of policy tools used in the plan, including “soft tools” such as education and outreach, best practices, and stewardship programs, and regulatory tools including land use planning (official plan and zoning by-laws), prescribed instruments (such as environmental compliance approvals), risk management plans (per Part IV of the Act), and other strategic measures. Together, they meet the objectives of the plan to protect existing and future municipal drinking water sources.

STAFF COMMENT

Annual Progress Reporting

As required by the Clean Water Act, 2006, the Halton-Hamilton Source Protection Region (HHSPR) must prepare an annual progress report to demonstrate progress made in implementing policies that protect Lake Ontario and groundwater municipal drinking water sources in the region. **Figure 1** provides a simplified overview of the comprehensive process.

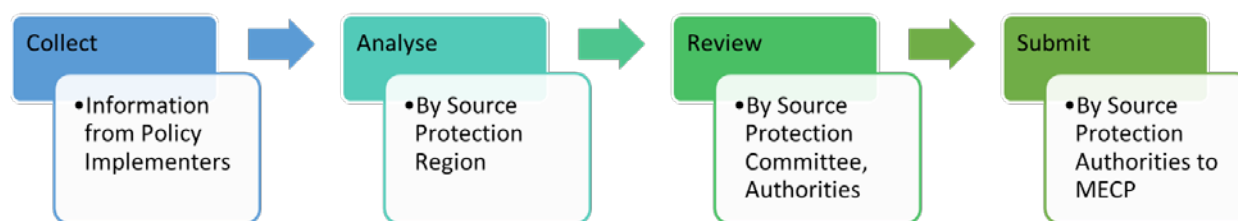


Figure 1: Source Protection Plan - Annual Progress Reporting at a Glance

Staff analysed information from implementing bodies, using the online Electronic Annual Reporting (EAR) tool. Municipalities, provincial ministries, and others are commended for their effort in collecting pertinent data and information over the course of the year to inform the annual progress reporting process to multiple source protection authorities overlapping political boundaries.

Several “reportables” are provided to MECP at the source protection region level, based on HHSPR’s analysis of hundreds of contributing data points and information from policy implementers provided by February 1 every year. In turn, the MECP collects the detailed synthesized “reportables” from Source Protection Authorities across Ontario by May 1 every year and aggregates it to the provincial scale in the annual Chief Drinking Water Inspector’s Report.

Annual Progress Report 2022 Highlights

Attachment 1 is the public facing 2022 Annual Progress Report. It is the sixth report of policy implementation progress of the Halton-Hamilton Source Protection Plan. There are 98 Halton-Hamilton Source Protection Plan policy parts to address the 193 actual significant drinking water threat activities that have been identified as of December 31, 2022. The overall progress of addressing significant threats remained stable at 99%, in 2022.

Source Protection Region staff, in collaboration with municipalities, undertook a comprehensive review and update of the source protection plan and assessment reports, per Section 36 of the Clean Water Act, 2006, and carried out comprehensive science and policy updates through to 2022. Following consultation with ministries, municipalities, stakeholders and the general public, an updated Source Protection Plan was compiled and submitted to the Ministry in May 2022. The update was approved by the Minister on November 4, 2022. Implementation of the updated source protection plan policies will be reported on in the 2023 Annual Progress Report.

In 2021, the MECP released updated rules that prescribe the technical work and determine the identification of significant drinking water threat activities. Staff review of the 2021 Technical Rules is ongoing and any technical work and policy updates associated with the new technical rules will be submitted in a future Section 34 plan update. Implementation of any updated plan policies as a result of these changes will be reported on in a future annual progress report.

The Halton-Hamilton Source Protection Committee continues with its education and outreach program with participation at Conservation Halton’s Blooms and Bubbles and Hops and Harvest festivals and the Halton Region Children’s Water Festival.

The Halton-Hamilton Source Protection Committee met on March 9, 2023 and reviewed the staff analysis for the 2022 annual progress report. Reflecting the overall progress made, the committee assigned a letter score of “P: Progressing Well/On Target – The majority of the source protection plan policies have been implemented and/or are progressing”. The letter score of “P” was also assigned in 2020 and 2021.

Submission

Staff recommend approval of the Annual Progress Report 2022 by the Hamilton Region Source Protection Authority for submission to the MECP. A similar report was presented to the Halton Region Source Protection Authority on April 20, 2023. Staff have uploaded the Annual Progress Report 2022 data to the Electronic Annual Reporting (EAR)

database by the legislated deadline of May 1, 2023. An extension to officially submit the Annual Progress Report 2022 following the May 4, 2023 Hamilton Region Source Protection Authority meeting has been granted by MECP.

STRATEGIC PLAN LINKAGE

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

- **Strategic Priority Area – Water Management**
 - Initiatives – Invest in programs to address the impacts of nutrient and sediment loading on watershed stream, creeks, rivers and receiving water bodies.

AGENCY COMMENTS

Not applicable.

LEGAL/FINANCIAL IMPLICATIONS

Not applicable.

CONCLUSIONS

In 2022, all of the Halton-Hamilton Source Protection Plan policies were implemented, in progress, or considered and no further action required. 99% of significant threat activities are addressed. The overall progress of implementation of the source protection plan in 2022 for the protection of municipal drinking water sources, is assigned the highest ranking of “Progressing Well/On Target”.

ATTACHMENTS

1. Annual Progress Report 2022

Source Protection Annual Progress Report 2022

I. Introduction

This annual progress report 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 most of the significant threat activities have been managed.

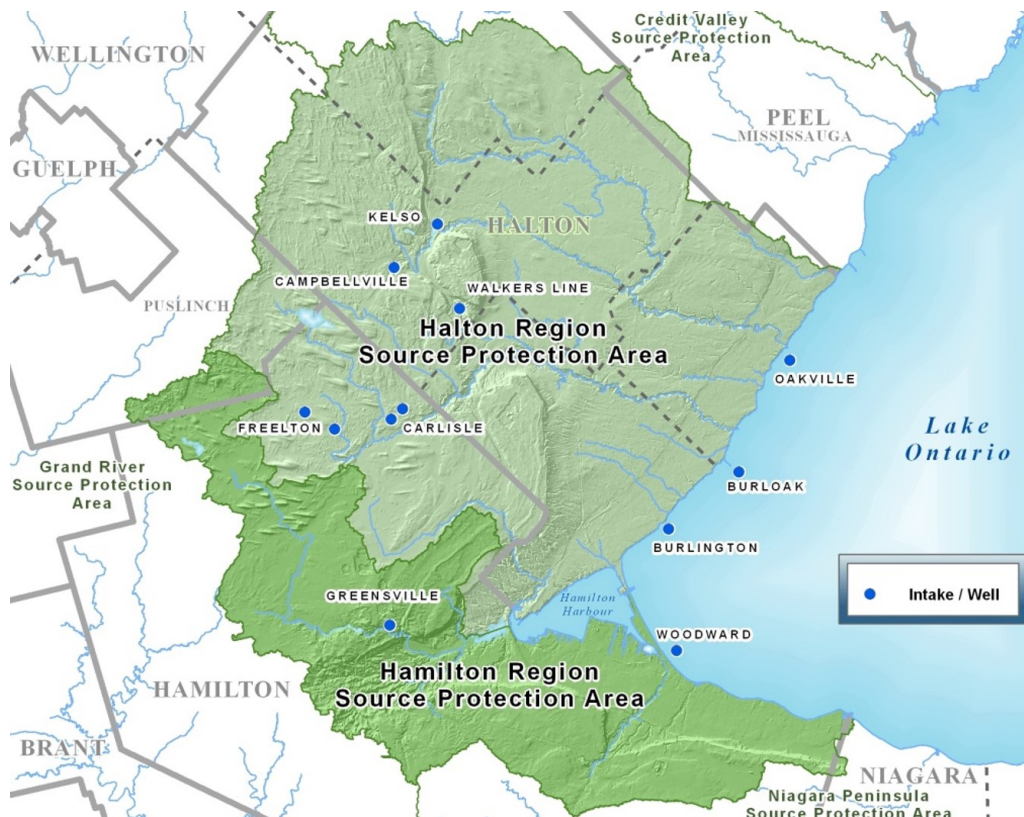


Figure 1: Hamilton-Halton Source Protection Region

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.

This is the sixth Annual Progress 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, 2022, and summarizes its progress in the year 2022.

A total of 213 significant threats to municipal drinking water systems were identified as of December 31, 2022. Approximately 99% of these significant drinking water threats have been addressed. As well, 100% of the policies are considered implemented, in progress or require no further action. Municipalities within the source protection region as well as various provincial ministries and other agencies and stakeholders are responsible for policy implementation.

The Halton-Hamilton source protection program reached a milestone in 2022 with the submission and Minister's approval of proposed updates to the assessment reports and source protection plan as required under section 36 of the Clean Water Act 2006. The committee also continued with its communication outreach program with participation at Conservation Halton's Blooms and Bubbles and Hops and Harvest festivals and the Halton Region Children's Water Festival.

The Halton-Hamilton Source Protection Committee is pleased to see that 99% of the significant drinking water threats have been effectively addressed in 2022 through the plan's policies in achieving the objectives of the Clean Water Act and that the required Section 36 amendments to the plan have been completed. A ranking score, by the committee, of progressing well and on target is a fair assessment of 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 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.

Through 2022, comprehensive updates to the science and policies based on most recent data and feedback were carried out, consulted on, and submitted to the Province of Ontario. In November 2022, the Minister of the Environment, Conservation and Parks approved the comprehensive plan update under Section 36 of the Clean Water Act.

The source protection plan contains policies that require or request action from municipalities, provincial ministries, federal departments, conservation authorities, landowners, and stakeholders. This report summarizes actions taken in 2022 with tracking of implementation between December 31, 2015, when the plan took effect, and December 31, 2022.

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

1. Source Protection Plan Policies

P: Progressing Well/On Target

The Halton-Hamilton Source Protection Committee included policies in their source protection plan to address prescribed threats through 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. Approximately 99% of the existing significant threats have been managed. Based on a continued advancement of source protection plan implementation in 2022, the progress score given for overall plan implementation status is P: Progressing well.

2. Municipal Progress: Addressing Risks on the Ground

P: Progressing Well/On Target

In the Halton-Hamilton Source Protection Region policies are directed at 8 municipalities that cover the activities of all 12 municipalities within the Source Protection Region. It is a requirement that municipalities ensure their Official Plan conforms with the local source protection plan.

As of December 31, 2022, the City of Hamilton has completed their Official Plan and Zoning by law conformity exercise. The City of Burlington has completed their exercise, but the Official Plan is currently under appeal. Updates to the Official Plans for the; Town of Oakville, Region of Halton, County of Wellington and Town of Milton are currently underway. These updates will reflect the most recent changes to the Source Protection Plan, approved on November 4, 2022. In 2021, the Town of Halton Hills reported their Official Plan was completed and under appeal. This was a reporting error and has been corrected. Halton Hills has not yet started their conformity exercise, but updates will commence in 2023. The Zoning by Law conformity exercise is underway at the Town of Oakville and the Township of Puslinch. Municipal progress in implementing policies is given a progress score of P: Progressing well.

3. Septic Inspections

P: Progressing Well/On Target

The Ontario Building Code requires that small sewage systems be inspected every five years through a mandatory minimal program or a discretionary more advanced septic inspection program. The City of Hamilton and the Town of Milton established inspection programs in 2016. The total number of properties within the Kelso and Campbellville areas (in Milton), and the Carlisle, Freelon and Greensville areas (in Hamilton) included in the sewage re-inspection program is now 125, after field verification removed two. In 2020 36 inspections were completed, the remaining 89 were completed in 2021. The first 5-year inspection cycle has been successfully completed, with all required inspections undertaken. The second 5-year cycle is in progress. There were 0 inspections required to be carried out in the 2022 reporting year. Inspections of the sewage systems will continue in accordance with the 5-year cycle. The municipal sewage re-inspection programs are given a progress score of P: Progressing well.

4. Risk Management Plans

P: Progressing Well/On Target

In the previous calendar year, 1 risk management plan was established for a cumulative total of 7 established to date. Currently there is 1 known property within Halton Region, with an existing drinking water threat activity that is not yet managed with an established or agreed to risk management plan.

During the 2022 reporting year, 5 site inspections were conducted. While COVID restrictions have eased, the Risk Management officials and inspectors continued to safely conduct inspections (drive by threat verification). Implementation of risk management plan policies is given a progress score of P: Progressing well.



Figure 2: Kelso Drinking Water System Pump Station

5. Provincial Progress: Addressing Risks on the Ground

P: Progressing Well/On Target

Ontario provincial ministries including Ministry of the Environment, Conservation and Parks (MECP), Ministry of Natural Resources and Forestry (MNRF), Ministry of Transportation Ontario (MTO) and Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) implement source protection policies that use prescribed instruments to manage significant threat activities.

The MECP's updated Standard Operating Policy, 2017 (Environmental Registry No. 2968) ensures that applications for water takings, sewage works, biosolids sites, etc. are screened. MNRF and MTO screen aggregate license and permit applications. OMAFRA screened applications for which it issues/approves instruments under the Nutrient Management Act. For instruments not approved by OMAFRA, a letter of policy conformity is delegated to a certified person. No significant threats were identified through screening by the provincial ministries in 2022.

Source protection vulnerability is considered when prioritizing sites for planned inspections (pesticides program), and for proactive inspections (hauled sewage sites, processed organic waste sites, agricultural operations with existing prescribed instruments).

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 implementation of prescribed instruments policies by Ontario ministries are given a progress score of P: Progressing well.



6. Source Protection Awareness and Change in Behaviour

The awareness and protection of drinking water sources continues to be a priority of the Halton-Hamilton Source Protection Region.

City of Hamilton reports that the Source Protection Plan continues to bring awareness about potential issues that can impact source water quantity and quality. Positive outcomes have come from the Randle Reef Sediment Remediation Project and the Real-Time Control System and Cross-Connection Control Project. These projects have been made a priority because of public awareness about the quality of source water and sustainable water services. The municipality is also involved in the cyanobacteria study that looks at factors such as seasonality and climate change impact on the municipal intake. Studies on road salt application and the effect it has on the chloride and sodium levels in drinking water continue.

The Halton-Hamilton Source Protection Committee took part in the Conservation Halton Blooms and Bubbles, Hops and Harvest and the Children's Water festivals. The committee had a booth at each event, spotlighting the importance of protecting our drinking water sources.

County of Wellington and Township of Puslinch continue to require a Drinking Water Threat Disclosure Report where significant threats may be present near municipal wells. This built on existing Official Plan policies since 2008 and Halton-Hamilton policies. See the website wellington.ca



Figure 3: Hops and Harvest Festival Logo

7. Source Protection Plan Policies: Summary of Delays

In 2022, all the Halton-Hamilton source protection plan policies that directly address significant drinking water threats are implemented, in progress or considered and further actions are not required.

In November of 2022, a comprehensive update of the Source Protection Plan under Section 36 of the Clean Water Act was approved by the Minister of the Environment, Conservation and Parks. Implementation status of policy changes as a result of this update will be reported on in the 2023 annual reporting period.

8. Source Water Quality: Monitoring and Actions

The Cedarvale well field is located in Georgetown, part of the Town of Halton Hills, and outside of the Halton-Hamilton Source Protection Region. Its protection areas for quality and quantity extend slightly into the Halton Region Source Protection Area. Some of the wells in this well field have rising trends in chloride concentrations and an issue contributing area has been delineated. The neighbouring Credit Valley, Toronto and Region and Central Lake Ontario (CTC) Source Protection Committee identified the need for chloride management measures. 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 are integrated into Halton Region's existing groundwater monitoring program and further assessment of water quality issues will be completed upon longer term data being collected and analyzed.

9. Science-based Assessment Reports: Work Plans

A work plan to undertake a comprehensive review and update of the source protection plan and assessment reports per Section 36 of the Clean Water Act, 2006 was developed in 2018 and approved in 2019 by the Minister of the Environment, Conservation and Parks. Halton-Hamilton Source Protection Region staff, in collaboration with municipalities, carried out comprehensive science and policy updates through to 2022. Following consultation with ministries, municipalities, stakeholders and the general public, an updated Source Protection Plan was compiled and submitted to the Ministry in May 2022. The update was officially approved on November 4, 2022.

Review of the 2021 Technical rules is ongoing and any technical work and policy updates associated with the new technical rules will be submitted in a future Section 34 update.

10. More from the Watershed

To learn more about the Halton-Hamilton Source Protection Region, visit our website at www.protectingwater.ca