



South Georgian Bay Lake Simcoe Source Protection Region

SEVERN SOUND SOURCE PROTECTION AUTHORITY

MEETING NO. 01-23-SS SPA

AGENDA

April 27th, 2023

9:30am-12:00pm

Harbour Shore Community Room (Victoria Harbour Branch Library – 145 Albert Street)

In-person and Zoom

1. WELCOME AND CALL TO ORDER

2. ADOPT AGENDA

3. DECLARATION OF PECUNIARY INTEREST

4. APPROVAL OF PAST MINUTES

4.1 Minutes of the SSSPA meeting held April 28th, 2022 were approved at the July 26th, 2022 SSEA Board Meeting (Motion 2022-032).

5. SOURCE PROTECTION COMMITTEE UPDATE/PRESENTATION

5.1 STAFF Report No.01-23-SSSPA from Lynn Dolin, Chair of the South Georgian Bay-Lake Simcoe Source Protection Region

6. PRESENTATION - SOURCE PROTECTION; A PARTNERSHIP TO PROTECT MUNICIPAL DRINKING WATER SOURCES

6.1 Presentation from Bill Thompson, Manager, Watershed Plans and Strategies at Lake Simcoe Region Conservation Authority

7. 2022 REGIONAL ANNUAL REPORTING

7.1 STAFF Report No.02-23-SSSPA from SSEA Manager, Source Water Protection, RMO/RMI

8. RISK MANAGEMENT OFFICIAL/RISK MANAGEMENT INSPECTOR UPDATE

8.1 STAFF Report No.03-23-SSSPA from SSEA Manager, Source Water Protection, RMO/RMI Re: SPA and RMO updates

9. SOURCE PROTECTION PLAN AMENDMENT UPDATE

9.1 STAFF Report No.04-23-SSSPA Re: SPP Amendments Update

10. OTHER BUSINESS

11. ADJOURN



Lake Simcoe
Region
Conservation
Authority



South Georgian Bay Lake Simcoe Source Protection Region

**SEVERN SOUND SOURCE PROTECTION AUTHORITY
MEETING NO. 01-22-SSSPA**

Thursday April 28th, 2022 9:37 a.m. to 9:59 a.m.

Via video & telephone conference

Draft Minutes

Present via zoom video:

SSEA Chair, Deputy Mayor Steffen Walma	Township of Tiny
SSEA Vice Chair, Councillor Paul Wiancko	Township of Georgian Bay
SSEA Past Chair, Councillor Ron Stevens	Township of Severn
Deputy Mayor Anita Dubeau	Town of Penetanguishene
Councillor Paul Raymond	Township of Tay
Councillor Ian Veitch	Township of Oro-Medonte

Staff present via zoom video:

Julie Cayley	Executive Director
Tamara Brincat	Invasive Species Program Coordinator
Melissa Carruthers	Risk Mgmt. Official/Risk Mgmt. Inspector
Aisha Chiandet	Water Scientist
Emily Edgley	Citizen Science & Water Quality Coordinator
Cliff Evanitski	Office Manager
Michelle Hudolin	Wetlands & Habitat Biologist
Judy Limoges	Treasurer
Paula Madill	Ecosystem Technologist
Lex McPhail	IT Manager/GIS Applications Specialist
Nikki Priestman	Watershed Health Coordinator
Nicole Stott	Drinking Water Source Protection Assistant

Guests:

Lynn Dollin	Chair, South Georgian Bay Lake Simcoe Source Protection Committee
Bill Thompson	Project Manager, South Georgian Bay Lake Simcoe Source Protection Region

Not present via zoom video:

Councillor Carole McGinn	Town of Midland
Councillor Perry Ritchie	Township of Springwater

1. WELCOME AND CALL TO ORDER

SSSPA Chair Walma called the meeting to order at 9:37 a.m.

2. ADOPTION OF AGENDA

MOTION: 2022-001-SSSPA

Moved by: P. Wiancko Seconded by: I. Veitch

RESOLVED THAT: the SSSPA approves the Meeting Agenda dated April 28, 2022.

Carried;

3. DECLARATION OF PECUNIARY INTEREST

None declared.

4. APPROVAL OF PAST MINUTES

4.1 Minutes of the 02-21-SS SPA meeting held July 26th, 2021 were previously approved at October 25th, 2021 SSEA meeting.

5. SOURCE PROTECTION COMMITTEE UPDATE

SSSPA Chair Walma called on Lynn Dollin, to make her presentation. Chair Dollin acknowledged the great work being done by the Severn Sound Environmental Association and its staff in protecting local water sources.

5.1 Staff Report No. 01-22-SPA from Lynn Dollin, Chair of the South Georgian Bay-Lake Simcoe Source Protection Committee

MOTION: 2022-002-SSSPA

Moved by: R. Stevens Seconded by: P. Raymond

RESOLVED THAT: Staff Report No. 01-22-SSSPA regarding the Source Protection Committee update from Chair Lynn Dollin be received as information.

Carried;

6. 2021 REGIONAL ANNUAL REPORTING

6.1 Staff Report No. 02-22-SPA Re: Regional Overview

MOTION: 2022-003-SSSPA

Moved by: R. Stevens Seconded by: P. Raymond

RESOLVED THAT: Staff Report No. 02-22-SPA by the SSEA Risk Management Official/Risk Management Inspector regarding an overview of regional Source Protection Plan annual reporting implementation status, be received as information.

Carried;

7. RISK MANAGEMENT OFFICIAL/RISK MANAGEMENT INSPECTOR UPDATE

7.1 Staff Report No. 03-22-SPA from the Risk Management Official/Risk Management Inspector regarding the Severn Sound Source Protection Authority (SSSPA) Drinking Water Source Protection Update and SSEA Risk Management Services Update.

MOTION: 2022-004-SSSPA

Moved by: A. Dubeau Seconded by: P. Raymond

RESOLVED THAT: Staff Report No. 03-22-SPA by the SSEA Risk Management Official/Risk Management Inspector regarding the Severn Sound Source Protection Authority's Drinking Water Source Protection and SSEA Risk Management Services updates, be received as information.

Carried;

8. SOURCE PROTECTION PLAN AMENDMENT UPDATE

8.1 Staff Report No. 04-22-SPA Re: SPA Amendment update.

MOTION: 2022-005-SSSPA

Moved by: R. Stevens Seconded by: I. Veitch

RESOLVED THAT: Staff Report No. 04-22-SPA by the SSEA Risk Management Official/Risk Management Inspector regarding the status of various Source Protection Plan amendments, be received as information.

Carried;

9. OTHER BUSINESS

None identified.

10. ADJOURN

MOTION: 2022-006-SSSPA

Moved by: R. Stevens Seconded by: (none required)

RESOLVED THAT: this meeting of the Severn Sound Source Protection Authority held on April 28th, 2022 adjourn at 9:59 a.m. to meet again at the call of the Chair.

Carried;

Chair, Steffen Walma

Executive Director, Julie Cayley

Approved this _____ day of _____, 2022



Source Protection Authority Staff Report

To: Severn Sound Source Protection Authority

From: Lynn Dollin, Chair – South Georgian Bay Lake Simcoe Source Protection Committee

Date: April 11, 2023

Staff Report Number: 01-23-SSSPA

Subject

Source Protection Committee Chair's Update

Recommendation

That Staff Report 01-23-SSSPA by South Georgian Bay Lake Simcoe Source Protection Committee Chair Lynn Dollin regarding Source Protection Committee updates be received for information.

Chair's Update

It is my pleasure to bring you a brief update from the Source Protection Committee since the last meeting of the Severn Sound Source Protection Authority Board.

The Source Protection Committee has met seven times since your last Source Protection Authority meeting. In our most recent meeting, we received the annual report on implementation progress, which will be presented to you by Melissa Carruthers. As evident in this report, the delays in implementing the Source Protection Plan introduced by the COVID-19 pandemic are still being felt, but the Committee has confidence that the Risk Management Officials and other municipal staff in this Source Protection Region remain committed to their role in delivering this Program.

Source Protection Committee meetings have gotten more frequent than they have in recent years, as the Committee has been involved in two significant undertakings.

First, has been reviewing and commenting on proposed amendments to the Source Protection Plan to add new municipal drinking water systems. This is a very important part of the Source Protection Program, which ensures that all future municipal drinking water systems receive the same level of protection as existing systems, and all the future residents in our Source Protection Region can have the same level of confidence in the water that they drink. With the rate of growth and development in this area however, our Source Protection Committee has dealt with more amendments of this sort than any other committee in the province. Through this experience, both the Committee and staff have become aware of inefficiencies in the

process; recommendations to address these efficiencies were forwarded by Source Protection Authority staff to Ministry staff. Questions have also arisen in the Committee about the relationship between our role and other Ministry approval processes associated with new wells.

The second item the Committee continues to focus on is a review of the policies in our Source Protection Plan in the light of recent changes the Province made to the technical rules underpinning the Program. In some cases, these rules will change what is considered a “significant drinking water threat” and, as such, will change where our policies apply. The Committee has been reviewing the implications of these changes, to ensure that our policies continue to find the right balance between protecting drinking water, without becoming overly onerous or providing unnecessary restrictions on people’s livelihoods. The Committee has reviewed changes related to road salt, waste management and the storage of fuel. Next will be a review of policies which relate to farming practices. Given the prevalence of farming in our Source Protection Region, the Committee recognizes that changes to provincial rules could have far-reaching implications, and I expect the Committee will review these changes in some detail.

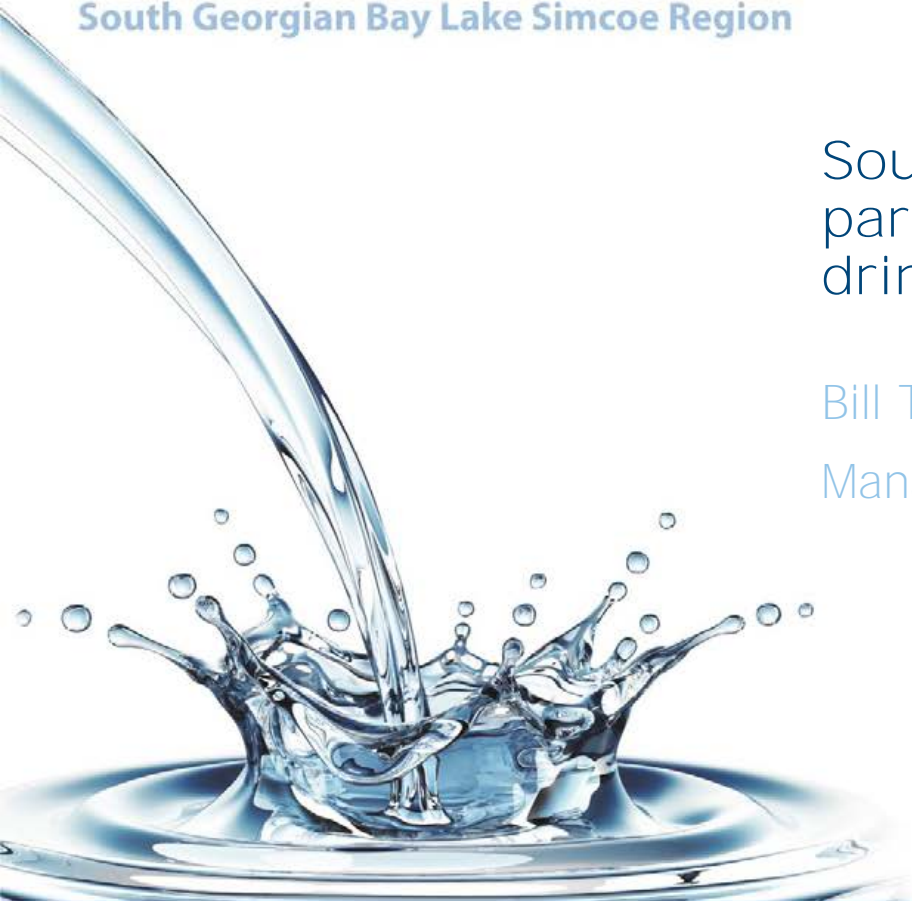
Finally, I am happy to announce that Minister Piccini has appointed me to another term as Chair of the Source Protection Committee, through until 2025.

Respectfully submitted,

Lynn Dollin, Chair

Source Water Protection

South Georgian Bay Lake Simcoe Region



Sourcewater protection – a partnership to protect municipal drinking water sources

Bill Thompson

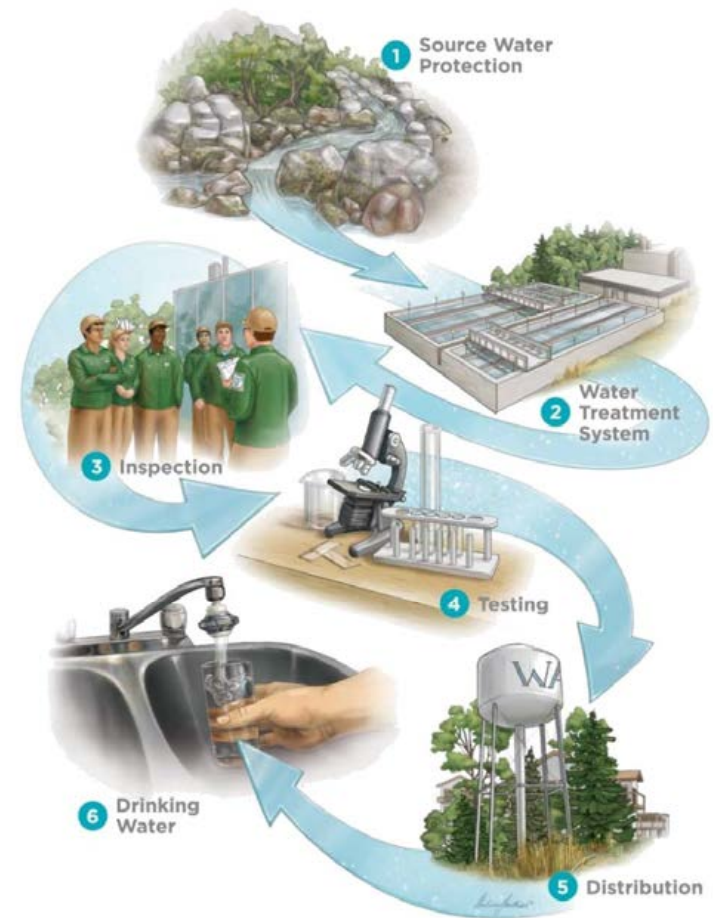
Manager, Watershed Plans and Strategies



Water
is **life.**
Protect
Yours.

What is Source Water Protection?

- Contamination of Walkerton municipal water supply in 2000. Seven deaths; thousands left with severe, long-term illnesses.
- Justice O'Connor's inquiry: multi-barrier approach to protecting drinking water
- The purpose of the Clean Water Act is to **protect existing and future sources of drinking water** from contamination or depletion.
- The **Drinking Water Source Protection Program** is a multi-stakeholder, collaborative, locally-driven process to protect existing and future municipal residential drinking water sources



South Georgian Bay - Lake Simcoe Source Protection Region

- Four watersheds
 - Lake Simcoe
 - Black River
 - Nottawasaga Valley
 - Severn Sound
- 52 municipalities
- 3 First Nation communities
- 284 municipal wells
- 16 surface water intakes



Roles and responsibilities

Source Protection Committee

- Develop policies in the Source Protection Plan
- Revise policies, when required
- Report annually on implementation progress

Source Protection Staff

- Support deliberations of the Committee
- Coordinate amendments to Plan
- Support implementing bodies
- Coordinating funding agreements

Source Protection Authorities

- Endorse plan, and any amendments
- Appoint members to the Source Protection Committee
- Review annual implementation report

MECP

- Approve the plan and any amendments
- Some obligations to implement policies

Implementing bodies

- Includes municipalities, Province, Source Protection Authorities
- Legal obligations to implement the Plan

Vulnerable areas

- Wellhead protection areas
 - Centred around municipal wells
- Intake protection zones
 - Centred around surface water intakes



The designated activities

- Municipal activities
 - Waste management
 - Sewage
 - Storage and application of road salt
 - Snow storage
- Agricultural activities
 - Storage and application of manure, fertilizer, pesticides
 - Pasturing livestock
- Industrial activities
 - Organic solvents
 - Dense non-aqueous phase liquids
 - Fuel handling and storage
 - Liquid hydrocarbon pipelines
- Water quantity
 - Water taking
 - Disruption of groundwater recharge

The Source Protection Plan

- Best available science
- Stakeholder driven
- Legally binding



Water *is* **life.** **Protect** **Yours.**

The role of this Board:

- Appoint members to the Source Protection Committee
- Endorse amendments to the Source Protection Plan
- Review annual report on implementation and support implementation where necessary

Thank you

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Yours.



Water *is life.* **Protect** **Yours.**



South Georgian Bay Lake Simcoe Source Protection Region

Severn Sound Source Protection Authority (SSSPA)
Regular Meeting
April 27th, 2023

STAFF REPORT

No: 02-23-SSSPA
Date: April 27th, 2023
To: Chair and Members of the SSSPA Board of Directors
From: Melissa Carruthers, Manager Source Water Protection, RMO/RMI
SUBJECT: 2022 Regional Drinking Water Source Protection Report to the Province

APPLICABLE STRATEGIC PLAN GOAL:

Goal 1: Sound Science

- Continue to offer exceptional services as the Source Protection Authority for Severn Sound
-

RECOMMENDATION:

RESOLVED THAT: Staff Report No. 02-23-SSSPA regarding the 2022 Regional Drinking Water Source Protection Report to the Province be received for information.

Purpose of Staff Report:

To provide an overview of the South Georgian Bay Lake Simcoe Source Protection Plan Annual Progress Report.

Background:

The South Georgian Bay Lake Simcoe Source Protection Plan (SPP) has been in effect since July 1st, 2015. The local Source Protection Authorities (SPAs) are required to monitor and report on the implementation of the SPP policies, by February 1st of each year and, that the lead Source Protection Authority (LSRCA) report to the Director of Source Protection (MECP) on the implementation of all policies by May 1st of each year. As part of this process, the Source Protection Committee is provided an opportunity to comment on the report before its submission (report attached).

A primary objective of monitoring and reporting is to assess if threats to municipal drinking water sources are being reduced through the implementation of the Plan's policies. This information will help support any future amendments to the Plan and provide accountability and transparency to stakeholders.

Essential implementation actions such as establishing a Risk Management Office and drafting policies for municipal Official Plans (OPs) have been completed across the Source Protection Region. All municipalities have been negotiating Risk Management Plans (RMPs) with landowners, and many municipalities have successfully completed some or all of their required risk management plans. Similarly, Ontario ministries have completed the task of reviewing previously issued provincial approvals (prescribed instruments such as Nutrient Management Plans) where they have been identified to address existing activities that may pose a risk to sources of drinking water.

Discussion/Issues:

At their most recent meeting, the Source Protection Committee reviewed source protection plan implementation progress data and identified the following key findings:

- All municipalities have submitted their annual reports to Source Protection Authority staff.
- Most policies (98%) that address significant drinking water threats in the Plan have been or are in the process of being implemented in accordance with the timelines set out in the Plan or otherwise amended.
- It is estimated that 94% (4,070 of 4,317) of existing significant drinking water threats have been mitigated through policy implementation.
- A total of 271 risk management plans have been established and an estimated 92 risk management plans remain to be negotiated across the Source Protection Region. Risk Management Officials have workplans that indicate the remaining risk management plans will be established by the July 2024 deadline.
- Approximately 94% (1,954 of 2,083) of the round-two on-site sewage (septic) system inspections required have been completed, with the deadline having passed in the current reporting year (2022).

In January 2023 the Ministry of the Environment, Conservation and Parks approved an extension to the RMP deadline to July 1, 2024, for all municipalities (except for York Region, who had not sought an extension) in the South Georgian Bay Lake Simcoe Source Protection Region. As part of granting this extension, they have requested that the Source Protection Authority submit a workplan for completing all remaining RMPs. Risk Management Officials worked with Source Protection Authority staff to develop a comprehensive RMP workplan which was presented to the Source Protection Committee at the March 30th, 2023 meeting. Based on the workplan (see Table 1), all the RMPs remaining to be negotiated will be established by the July 2024 deadline. Source Protection Authority staff will continue to bring progress reports on RMP completion to future meetings of the Source Protection Committee, so the Committee can monitor progress.

The Source Protection Committee indicated that, considering the impact the COVID-19 pandemic has had on RMP negotiations over the past three years, it is satisfied with the current rate of progress on plan implementation.

Summary and Recommendation:

The various implementers of the South Georgian Bay Lake Simcoe Source Protection Plan have submitted their 2022 annual reports to the Source Protection Authority as required under the *Clean Water Act*. These reports show that implementation of the Plan is currently progressing at a satisfactory rate. Most Plan policies are progressing in accordance with the timelines specified in the Plan.

The comprehensive RMP workplan developed in early 2023 by Risk Management Officials indicates that all the RMPs remaining to be negotiated will be established by the July 2024 deadline.

Attachment:

Appendix A: 2022 Source Protection Annual Progress Report
Table 1: Risk Management Plans Status

Prepared by:

Original signed by

Melissa Carruthers, Manager Source
Water Protection, RMO/RMI

Approved for submission by:

Original signed by

Julie Cayley, Executive Director

Table 1 – Risk Management Plans Status

Risk management plan category, timelines for signature and mechanism to be used if signature deadline missed	City of Barrie	City of Kawartha Lakes	Durham Region	Nottawasaga Valley Conservation Authority	Severn Sound Environmental Association	Township of Ramara	Total
Estimated number of Risk Management Plans remaining	13	3	4	25	35	5	85
Number on hiatus	0	1	3	4	6	0	14
Number which may need to be "Ordered"	0	0	0	1	0		1
Number remaining to be negotiated	13	2	1	20	29	5	70
Number remaining to be drafted	0	2	1	20	11	0	34
Timeline for circulating drafts	Not applicable	April 2023	Pending WHPA approval	Adjala-Tosorontio and New Tecumseth: Spring 2023 Melanchthon and Shelburne: Winter 2023	July 2023	Not applicable	Not applicable
Timeline by which signatures are expected	June 2023	May 2023	Pending WHPA approval	Adjala-Tosorontio and New Tecumseth: Summer 2023 Melanchthon and Shelburne: Spring 2024	March 2024	Sept 2023	Not applicable
Mechanism to be used if signature deadline missed	Not expected to occur	RMO will issue Notices if necessary	TBD, Pending WHPA approval	RMO will consider using Part IV powers after the specified time has passed	RMO will utilize Part IV powers under the Act	RMO will utilize Part IV powers under the Act	Not applicable

Source Protection Annual Progress Report

South Georgian Bay-Lake Simcoe Region



On the Implementation of the South Georgian Bay-Lake Simcoe Source Protection Plan

Reporting period January 1 to December 31, 2022

Ourwatershed.ca

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2022 Source Protection Annual Progress Report

I. Introduction

This annual report briefly summarizes the progress made in implementing the Source Protection Plan for the Lake Simcoe & Lake Couchiching/Black River, Nottawasaga Valley and Severn Sound Source Protection Areas, as required by the Clean Water Act and its regulations for the 2022 calendar year.

Protecting the sources of our drinking water is the first step in a multi-barrier approach to safeguard the quality and quantity of our water supplies. The Source Protection Plan is the culmination of extensive science-based assessments, consultation with the community, collaboration with local stakeholders and the province, and research. The implementation of the policies contained in the Source Protection Plan ensure that activities carried out in the vicinity of municipal drinking water supply wells and lake-based drinking water intakes, do not pose a significant risk to those supplies.



II. A Message from your local Source Protection Committee

Our Source Protection Committee was asked to provide a progress score on achieving Source Protection Plan objectives this reporting period, with three progress scores to choose from as follows:

- **Progressing Well/On Target** – The majority of the Source Protection Plan policies have been implemented and/or are progressing
- **Satisfactory** – Some of the Source Protection Plan policies have been implemented and/or are progressing
- **Limited progress** – A few of the Source Protection Plan policies have been implemented and/or are progressing

The progress score selected for achieving Source Protection Plan objectives this reporting period is satisfactory.

The COVID-19 pandemic impacted progress made in achieving Source Protection Plan objectives in 2022. All municipalities submitted their 2022 annual reports to the Source Protection Authority. Municipalities in our source protection region have processes in place to ensure planning decisions conform to our Source Protection Plan. Ninety-eight percent of the policies that address significant drinking water threats in our Plan have been or are being implemented. Approximately 94% of the 3,313 significant drinking water threats that existed at the time of Source Protection Plan approval have been addressed through policy implementation.

A total of 271 risk management plans have been established as of December 31, 2022, and workplans have been established by Risk Management Officials to complete the estimated 92 outstanding Risk Management Plans by the July 2024 deadline. Progress will be closely monitored on outstanding Plans and reported to the Source Protection Committee until they are all complete.

III. Our Watershed

The South Georgian Bay-Lake Simcoe Source Protection Region contains four watersheds and spans over 10,000 km², from the Oak Ridges Moraine in the south to the Canadian Shield in the north and is comprised of the Black-Severn, Lake Simcoe, Nottawasaga Valley and Severn Sound watersheds. The Region contains portions of the Niagara Escarpment, Oak Ridges Moraine, Oro Moraine, Peterborough Drumlin Fields, Simcoe Uplands and Lowlands, and the Canadian Shield. The Region includes:

- 4 watersheds
- 52 municipalities
- 3 First Nations communities
- 107 drinking water systems
- 276 municipal supply wells
- 16 municipal surface water intakes
- More than 50,000 private wells

All told, the South Georgian Bay-Lake Simcoe Region has about one third of the municipal drinking water systems in the Province.

The Region is complex and diverse in terms of geology, physiography, population, and development pressures, with many, often conflicting, water uses including drinking water supply, recreation, irrigation, agriculture, commercial and industrial uses, as well as, ecosystem needs.

These differences represent a significant challenge for the development of a source protection plan because of the associated variability of available information upon which to base the technical work, the differing stresses on water resources related to development pressure and population growth, and the differences in the nature, density and locations of threats to the quality and quantity of water resources.

To learn more, please read our assessment reports and Source Protection Plan.

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

1. Source Protection Plan Policies and Addressing Significant Risks

The South Georgian Bay-Lake Simcoe Source Protection Committee included 129 policies in their Source Protection Plan to address 22 prescribed threats, protect sources of drinking water and monitor the progress of policy implementation.

Since the Source Protection Plan took effect over eight years ago, much has been accomplished. To date, 100% of the legally binding policies that address significant drinking water threat activities have been or are being addressed. 42% have been implemented, 51% are in the process of being implemented, and 7% have been evaluated and determined no further action is required.

The progress score for implementing Plan policies is progressing well/on target.

2. Municipal Progress: Addressing Risks on the Ground

Of the 52 municipalities (upper, lower and single-tier) within the South Georgian Bay-Lake Simcoe Source Protection Region, 43 of these are subject to one or more source protection plan policies. The remaining nine municipalities do not have vulnerable areas where policies apply.

Planning departments and building officials are screening applications for locations within vulnerable areas where threats to drinking water sources are possible and policies may apply.

Municipalities in our Source Protection Region are also required to review and update their Official Plans to ensure they conform with the local source protection plans the next time they undertake a review under the Planning Act. All 43 of the municipalities that are subject to source protection plan policies have amended or are in the process of amending their Official Plans to conform with the Source Protection Plan for our region.

The municipal progress score is progressing well/on target.

3. Septic Inspections

Within our Source Protection Region, 2,083 septic systems are required to be inspected as part of the 5-year inspection cycle. To date, 1,954 (94%) of on-site sewage systems have been inspected in accordance with the Ontario Building Code in the second round.

The progress score for the septic inspection program is progressing well/on target.

4. Risk Management Plans

265 risk management plans were established in our Source Protection Region as of December 31, 2022 and six more completed since then.

56 inspections were carried out in 2022 by a Risk Management Official/Inspector for prohibited or regulated activities. There is a greater than 99% compliance rate with the risk management plans established in our Source Protection Region.

Workplans have been established by Risk Management Officials to complete the 92 outstanding Risk Management Plans by the July 2024 deadline. Progress will be closely monitored on outstanding Plans and reported to the Source Protection Committee until they are all complete.

The progress score for establishing risk management plans is satisfactory.

5. Provincial Progress: Addressing Risks on the Ground

Ontario ministries are reviewing applications for new or amended and previously issued provincial approvals (i.e. prescribed instruments, such as environmental compliance approvals under the Environmental Protection Act) where they have been identified as a tool in our plan to address activities that pose a significant risk to sources of drinking water. The provincial approvals are being issued, denied, amended or revoked, where necessary, to conform to plan policies. Our policies set out a timeline of five years from the date the Source Protection Plan took effect (July 1, 2015) to complete the review of existing activities and make any necessary changes to previously issued approvals. The timeline for new or amended prescribed instruments is outlined in the Plan as the day the Source Protection Plan took effect. The Ministries have reported 100% completion of previously issued provincial approvals in our Source Protection Region and have a review protocol in place to screen all new applicable approval applications.

The progress score for the addressing risks using prescribed instruments is progressing well/on target.

6. Source Protection Awareness and Change in Behaviour

To raise awareness about the protection of local drinking water sources, municipalities across the South Georgian Bay-Lake Simcoe Source Protection Region have installed a total of 334 drinking water protection zone signs on municipal roads surrounding vulnerable areas. In addition, 14 signs have been installed on provincial highways.

Staff from Lake Simcoe and Severn Sound Source Protection authorities met with Beausoleil First Nation, Ogemawahj Tribal Council and Chippewas of Georgina Island First Nation to present to them the Source Water Protection Best Management Practices,

developed by the Ministry. Beausoleil First Nation has since signed a funding agreement with the Ministry, allowing them to implement some of the voluntary best practices to protect their well and surface water supplies.

7. Source Protection Plan Policies: Summary of Delays

Of the 129 policies included in the Source Protection Plan, all (with the exception of one) are currently being implemented or are in the process of being implemented. The only policy that has had no progress made to date is the non-legally binding policy on transport pathways (TP-1). This policy only applies to one municipality in the Severn Sound Source Protection Area. Within this area there are numerous significant drinking water threats and managing these threats through the use of legally-binding policies has been the main priority to date. This policy will continue to be considered in future work plans.

8. Source Water Quality: Monitoring and Actions

City of Barrie - Barrie Well Supply - Central Well Field Issue contributing area for:

Sodium and Chloride

An increasing concentration/trend has been observed.

Risk management plans are being developed for large users of salt to ensure best practices are implemented for storage and application. The City of Barrie staff follows Smart About Salt practices.

Town of Penetanguishene - Robert Street West Supply Well Issue contributing area for:

Trichloroethylene

A decreasing concentration/trend has been observed.

Township of Brock – Cannington Well Supply – Arena Well Field

Trichloroethylene

A decreasing concentration/trend has been observed.

Township of Severn - Coldwater Well Supply Issue contributing area for:

Trichloroethylene

No change in concentration/trend.

Tiny Township - Lafontaine Well Supply Issue contributing area for:

Nitrate

A decreasing concentration/trend has been observed.

Tiny Township - Georgian Sands Well Supply Issue contributing area for:

Nitrate

No change in concentration/trend.

9. Science-based Assessment Reports: Work Plans

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

10. More from the Watershed

To learn more about the South Georgian Bay-Lake Simcoe Protection Region, visit:

www.ourwatershed.ca

Education and outreach are important parts of implementing Source Protection. Source protection authorities, municipalities and Risk Management Officials within the region continue to engage the community through site visits, social media, and workshops.

Annual Report to the Ministry - Progress Made in Protecting Sources of Drinking Water

Melissa Carruthers, Manager, Source Water
Protection, RMO/RMI

April 27, 2023



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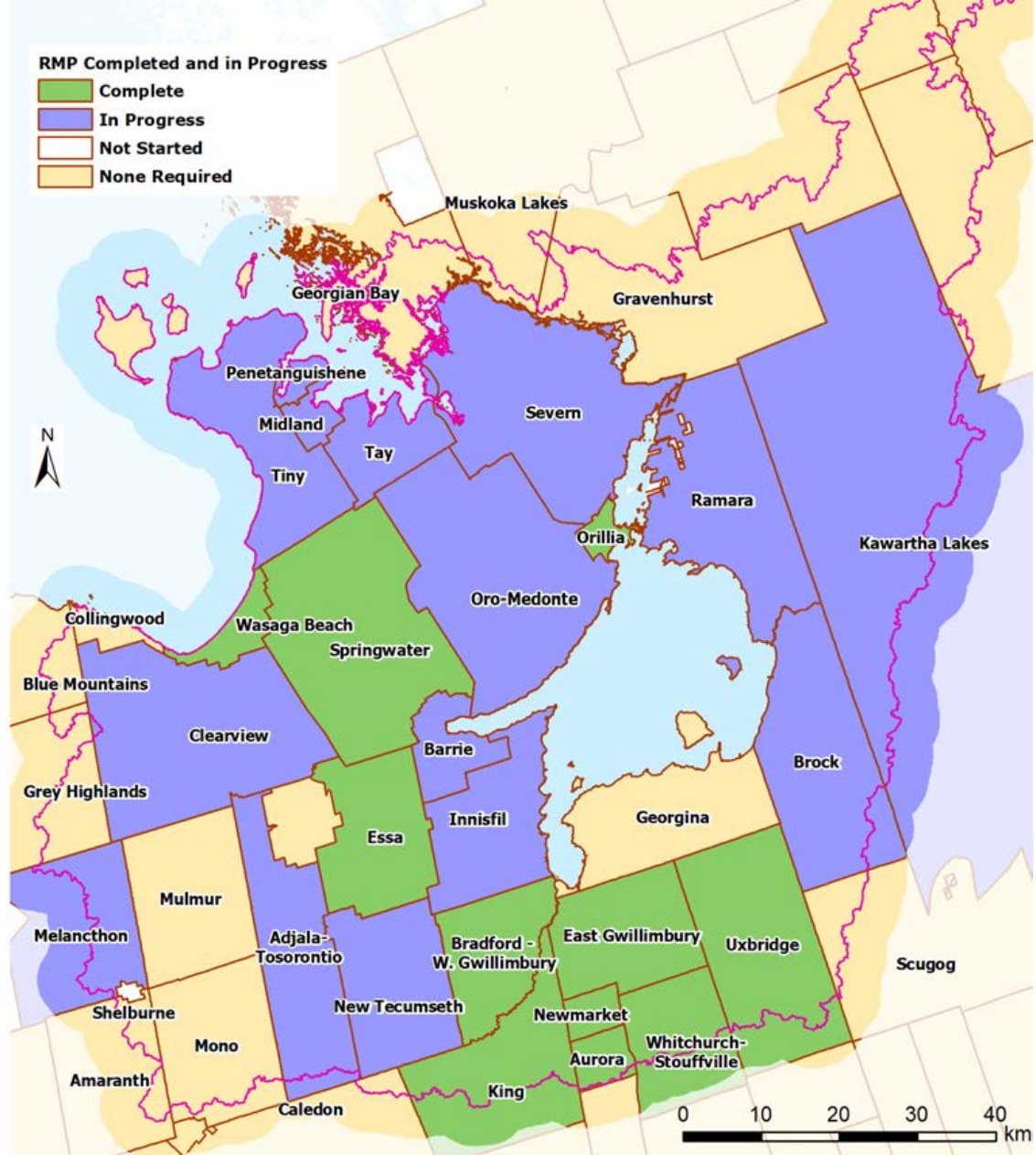
Presentation outline

- Progress update (risk management plans, official plan amendments, septic inspections and prescribed instruments)
- Potential issues
- Solutions
- **Source Protection Committee's comment on progress**
- Questions?

Risk management plans progress to date (completed and in-progress RMPs)

Reporting Period	Estimated Number of Risk Management Plans Required	Number of Risk Management Plans Completed
Half of 2015	No Data	25
2016	691	32
2017	476	49
2018	360	72
2019	140	54
2020	119	19
2021	103	14
2022	92	6
Total		271

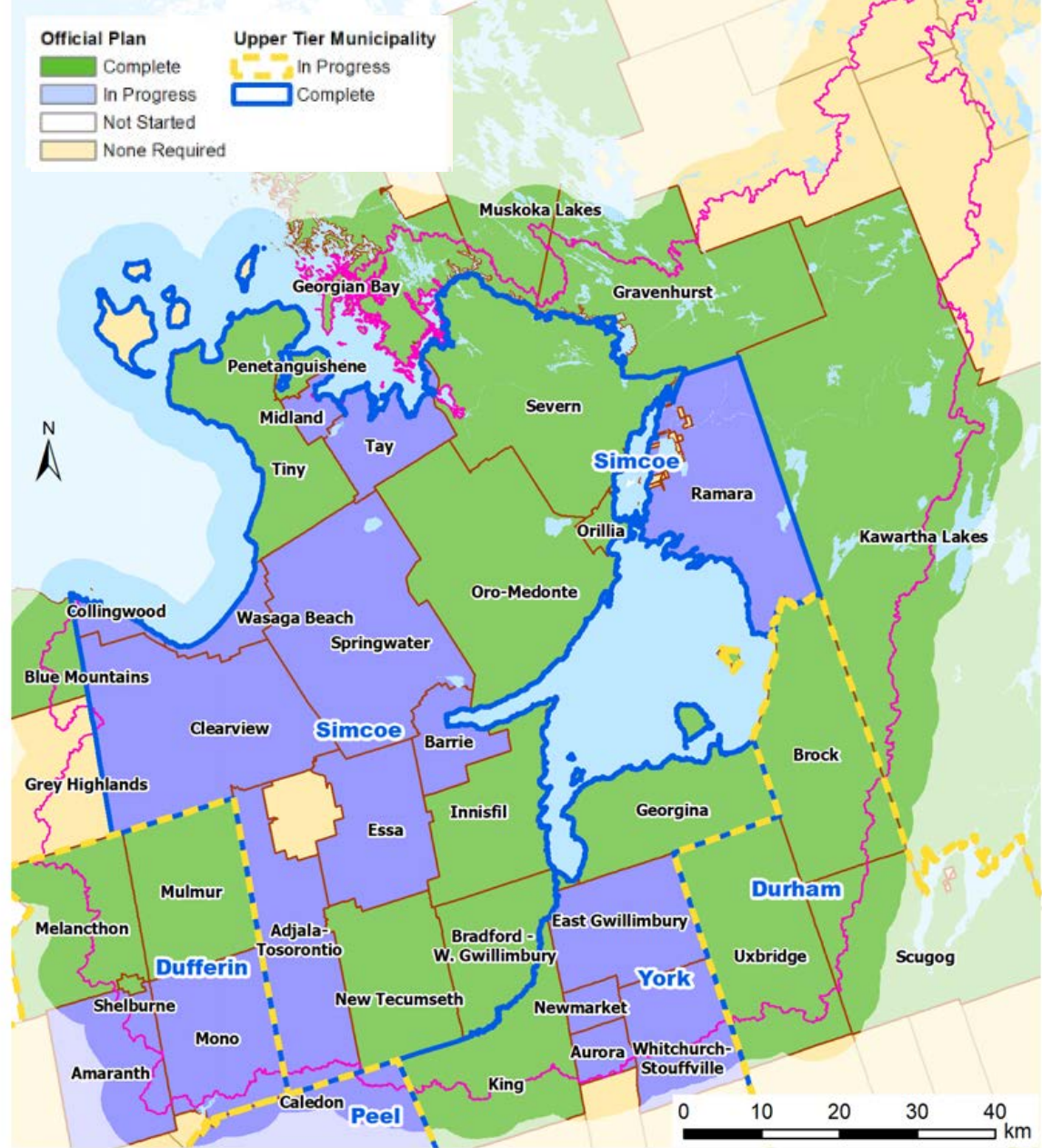
We have approximately 92 risk management plans left to negotiate with 14 months remaining.



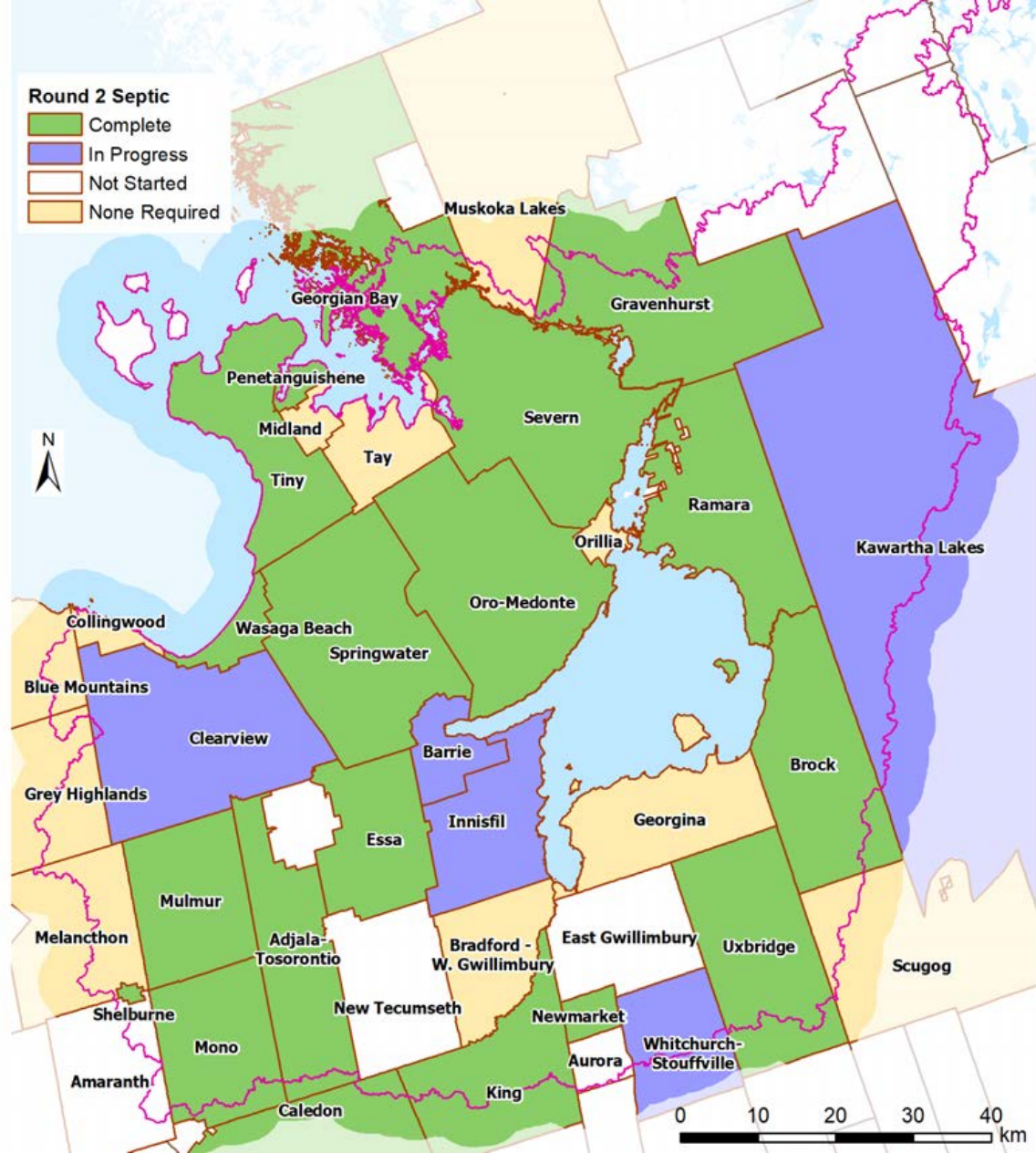
Workplans for risk management plans

- All Risk Management Officials with risk management plans (RMPs) remaining to be completed have developed detailed workplans to complete the work on time.
- Durham Region has 1 RMP remaining.
- The City of Kawartha Lakes has 3 RMPs remaining.
- The Township of Ramara has 5 RMPs remaining.
- The City of Barrie has 13 RMPs remaining.
- Nottawasaga Valley Conservation Authority has 25 RMPs remaining (in Innisfil, New Tecumseth, Adjala-Tosorontio, Clearview, Shelburne and Melancthon).
- Severn Sound Source Protection Authority has 22 RMPs remaining (in Midland, Tiny, Tay, Severn, and Penetanguishene).

Official plan updates progress to date



Round two septic inspections progress to date



Ministry progress in addressing existing threats

MECP

**Fuel Handling
& Storage**



**Permit to
Take Water**

**Wastewater /
Sewage Works**

**Landfilling
and Storage**



OMAFRA

**Non-Agricultural
Source Material Plans**

**Nutrient Management
Strategies**

100% Complete



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Potential issues – risk management plans

- The COVID-19 pandemic impacted risk management plan (RMP) negotiation across the province in 2022.
- The Ministry recently (January 2023) approved an extension (to July 1, 2024) to the deadline to complete RMPs.
- The RMP workload is not distributed equally across the region. Some RMOs have developed aggressive RMP workplans to complete all the required RMPs by the deadline (14 months left).



Solutions – risk management plans

- Detailed workplans were provided to the Source Protection Committee outlining steps required to complete all outstanding risk management plans over the next 14 months.
- Negotiations have begun, some risk management plans are already drafted, and, in many cases, risk management measures are already in place.
- Source Protection Authority staff will bring progress reports on risk management plans to future Source Protection Committee meetings.

Recommended progress score

The Source Protection Committee recommends providing a progress score of:

S: Satisfactory

on achieving source protection plan objectives this reporting period.

(Satisfactory = Some of the source protection plan policies have been implemented and/or are progressing in accordance with the timelines specified in the source protection plan)



A clean glass of water starts long before you turn on the tap

Thank you!

Questions?

Melissa Carruthers,
Manager Source Water Protection, RMO/RMI
Severn Sound Environmental Association
705-534-7283, ext. 205
mcarruthers@severnsound.ca

Water *is* life. **Protect** Yours.



South Georgian Bay Lake Simcoe Source Protection Region

Severn Sound Source Protection Authority (SPA)
Regular Meeting
April 27th, 2023 meeting

STAFF REPORT

No: 03-23-SSSPA
Date: April 27th, 2023
To: Chair and Members of the SS SPA Board of Directors
From: Melissa Carruthers, Manager Source Water Protection, RMO/RMI
SUBJECT: Severn Sound Source Protection Authority (SS SPA) Drinking Water Source Protection Update and SSEA Risk Management Services 2023 Q1 Update

APPLICABLE STRATEGIC PLAN GOALS:

Goal 1: Sound Science

- Continue to offer exceptional services as the Source Protection Authority for Severn Sound

Goal 2: Supportive Partnerships

- Strengthen & build relationships for the implementation of Part IV of the Clean Water Act
-

RECOMMENDATION:

RESOLVED THAT: Staff Report No. 03-23-SSSPA regarding an update on the activities undertaken by SSSPA and SSEA Risk Management staff during Q1 of 2023 be received for information.

Purpose of Staff Report

To provide an update on the activities that Severn Sound Source Protection Authority and SSEA Risk Management staff have undertaken during the first quarter of 2023.

Background

Under the *Clean Water Act, 2006* the SSEA is one of the Source Protection Authorities within the South Georgian Bay-Lake Simcoe Source Protection Region (SGBLS SPR) and works with our member municipalities, as well as, the District Municipality of Muskoka to implement the Drinking Water Source Protection (DWSP) Program.

Historically staff of the SSEA has been delegated by 8 municipalities (District Municipality of Muskoka, townships of Georgian Bay, Severn, Oro-Medonte, Tay, Tiny, and towns of Midland and Penetanguishene) to preform risk management services on behalf of their municipality under Part IV of the *Clean Water Act*. To date that work has included verifying significant drinking water threats (SDWTs) via phone calls, surveys, and site visits and if a SDWT was found, the negotiation of risk management plans is underway. Answering inquiries from the general public or municipal staff and commenting on development proposals is also a large part of what the risk management staff does.

Analysis:

SPA – During the first quarter of 2023 Source Protection Authority staff completed the following tasks:

- Continuing to support municipalities in updating Assessment Reports for new or changing water systems in Oro-Medonte and Midland
- Staff continues to work with provincial, regional, and local representatives, and attend meetings, to fulfill the requirements of our 2022-2024 funding agreement work plan - some of which includes policy work, municipal drinking water system changes, and general education and outreach initiatives.
- Assisted municipalities in meeting their February 1st, 2022 annual reporting requirements.

RMO - During the first quarter of 2022 risk management staff has completed the following tasks:

- Answered 14 inquiries, commented on 13 development applications, sent out 12 draft risk management plans, held 7 risk management plan negotiation meetings, signed 7 risk management plans, conducted 5 site visits, and completed 3 inspections.
- Presented a workplan to the local Source Protection Committee to ensure risk management plans are completed by the July 1st, 2024 Risk Management Plan deadline.

Attachment:

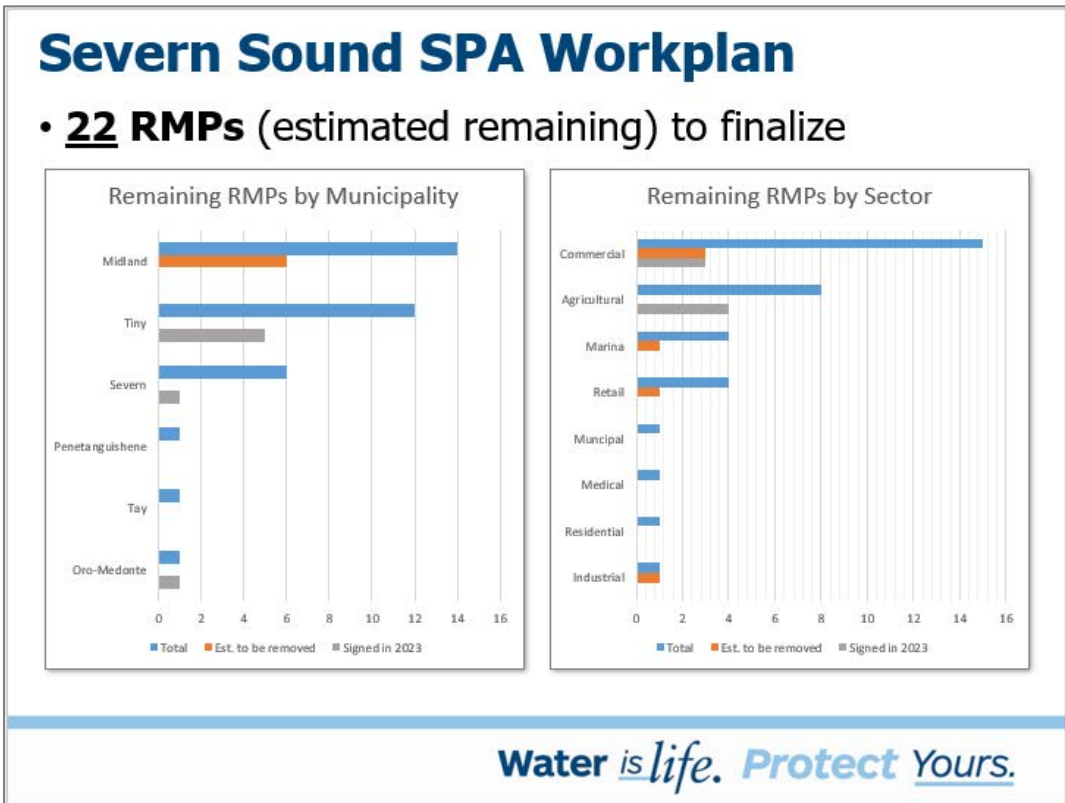
Status of Risk Management Plans in the Severn Sound Area and proposed work plan

Prepared by:
Original signed by

Melissa Carruthers, Manager
Source Water Protection, RMO/RMI

Approved for submission by:
Original signed by

Julie Cayley, Executive Director



Severn Sound SPA Workplan

SSEA/SS SPA RMP Status

	2023											2024					Total		
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A		M	J
estimated draft circulated	0	0	0	2	1	4	2	0	0	0	0	0	0	0	0	0	0	0	9
signed in 2023	1	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
estimated to be signed	0	0	0	3	2	0	3	1	3	5	0	3	0	1	1	0	0	0	22
estimated to be ordered	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Total	1	2	4	5	3	4	6	1	3	5	0	3	0	1	1	0	0	0	

- As of March 29, 2023 estimating 22 remaining
- Ongoing evaluation, including if orders are needed will start December 1, 2023
 - 1 notice to order has been issued (Feb 2023)

Water *is* life. Protect Yours.



South Georgian Bay Lake Simcoe Source Protection Region

Severn Sound Source Protection Authority (SSSPA)
Regular Meeting
April 27th, 2023

STAFF REPORT

No: 04-23-SSSPA
Date: April 27th, 2023
To: Chair and Members of the SS SPA Board of Directors
From: Melissa Carruthers, Manager Source Water Protection, RMO/RMI
SUBJECT: Update on Source Protection Plan amendments

APPLICABLE STRATEGIC PLAN GOAL:

Goal 1: Sound Science

- Continue to offer exceptional services as the Source Protection Authority for Severn Sound

RECOMMENDATION:

RESOLVED THAT: Staff Report 04-23-SSSPA regarding amendments to the South Georgian Bay-Lake Simcoe Source Protection Plan be received as information.

Purpose of Staff Report

To provide an update to the Source Protection Authority Board of Directors on amendments to the South Georgian Bay-Lake Simcoe Source Protection Plan.

Background

Regulation 205/18 under the Safe Drinking Water Act requires that any amendments to municipal residential Drinking Water Works Licences and Permits be accompanied by an amendment to the appropriate Source Protection Plan. The intent of this Regulation is to ensure that raw sources of municipal drinking water remain protected, even as drinking water systems change (or expand). As such, new or upgraded municipal wells or water treatment plants generally require new or revised Wellhead Protection Areas and Intake Protection Zones in Source Protection Plans which may lead to new restrictions associated with Source Protection Plan policies in those areas.

As a Source Protection Authority, we are responsible for ensuring these amendments are completed, and ultimately approved by the Minister of Environment, Conservation and Parks. The process we are directed to follow is a consultation-rich one, with engagement occurring with MECP staff, municipal staff and councils, implementing bodies, and affected local landowners. After completing that consultation, and drafting the amendment to the Plan, we are to submit to the Minister for approval.

Issues/Analysis:

At the July 26th, 2021 meeting, the Severn Sound Source Protection Authority Board delegated authority to submit such amendments to staff (Motion #2021-09), with a commitment from staff for annual updates on any such amendments submitted. This is the first such update.

Over the course of the past year, Source Protection Authority staff has submitted to MECP one amendment to the Source Protection Plan for approval, as follows:

- Township of Oro-Medonte, to address the transfer of ownership of the Braestone drinking water system to the Township, and to add back-up wells at the Robincrest and Maplewood drinking water systems which have been brought online in recent years. This amendment was submitted in April 2022 and approved in November.

Summary:

Working in partnership with the lead Source Protection Authority, the Severn Sound Source Protection Authority is responsible for ensuring that the Source Protection Plan is amended to account for new or expanded municipal drinking water systems. Over the course of the last year, one amendment to the source protection plan to address changes in local municipal drinking water systems was submitted to the Minister of Environment, Conservation and Parks for approval, and approved.

Attachments

Revised wellhead protection area mapping

- A. Township of Oro-Medonte (overview)
- B. Braestone drinking water system, Oro-Medonte
- C. Robincrest drinking water system, Oro-Medonte
- D. Maplewood drinking water system, Oro-Medonte

Prepared by:

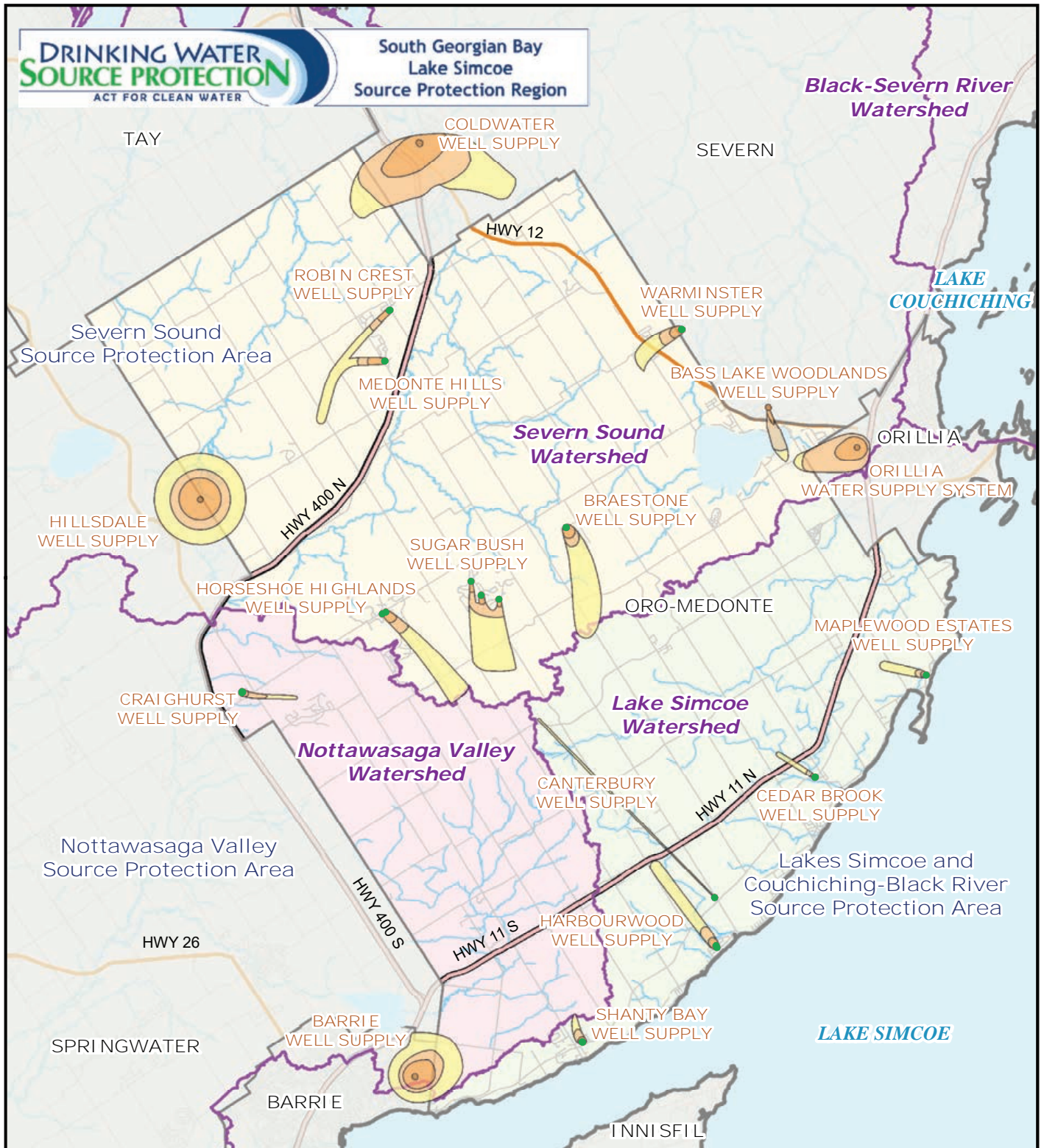
Approved for submission by:

Original signed by

Original signed by

Melissa Carruthers, Manager
Source Water Protection, RMO/RMI

Julie Cayley, Executive Director



Legend

- Municipal Supply Well in Township of Oro-Medonte
- WHPA-A (100m)
- WHPA-B (2 years time of travel)
- WHPA-C (5 years time of travel)
- WHPA-C1 (10 years time of travel)
- WHPA-D (25 years time of travel)
- SWP Watershed Area
- Municipal Boundary

Drinking Water System
Vulnerable Areas in
Township of Oro-Medonte

Original Created by: LSRCA
Revision by: SSEA

0 2 km

UTM Zone 17N, NAD 83

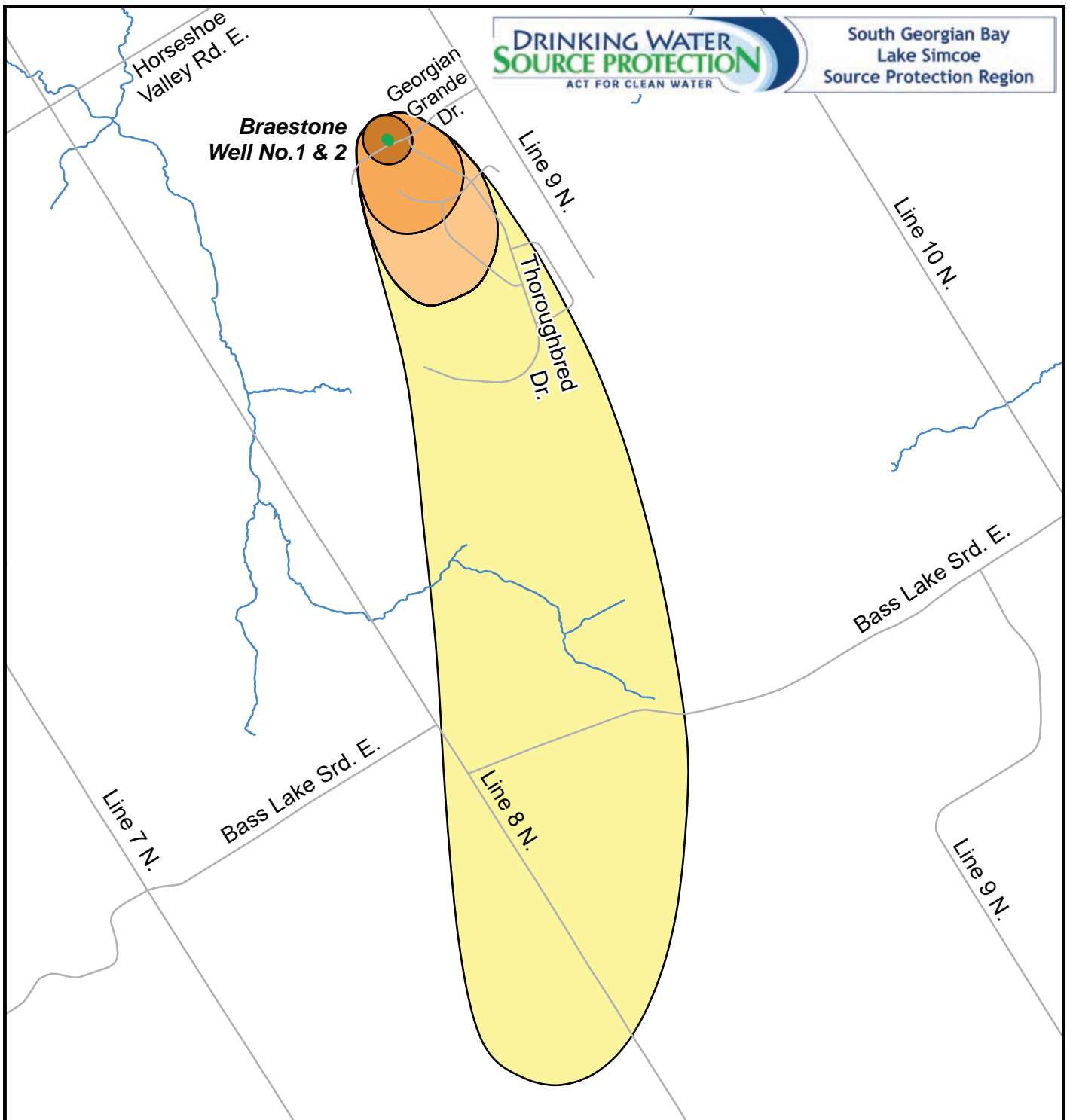


Revision Date: 2020-10-16

SCALE: 1:200,000

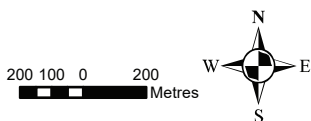
This map was originally produced by the Lake Simcoe Region Conservation Authority, lead agency of the South Georgian Bay Lake Simcoe Source Protection Region and was revised in 2020 by the Severn Sound Environmental Association. Base data have been compiled from various sources, under data sharing agreements. While every effort has been made to accurately depict the base data, errors may exist.





Legend

- MUNICIPAL WELL LOCATION
- ROADS
- WATERCOURSE



WELLHEAD PROTECTION AREA

- WHPA-A: 100 m RADIUS
- WHPA-B: 2-YEAR TIME-OF-TRAVEL
- WHPA-C: 5-YEAR TIME-OF-TRAVEL
- WHPA-D: 25-YEAR TIME-OF-TRAVEL

WELLHEAD PROTECTION AREAS - BRAESTONE, ORO-MEDONTE

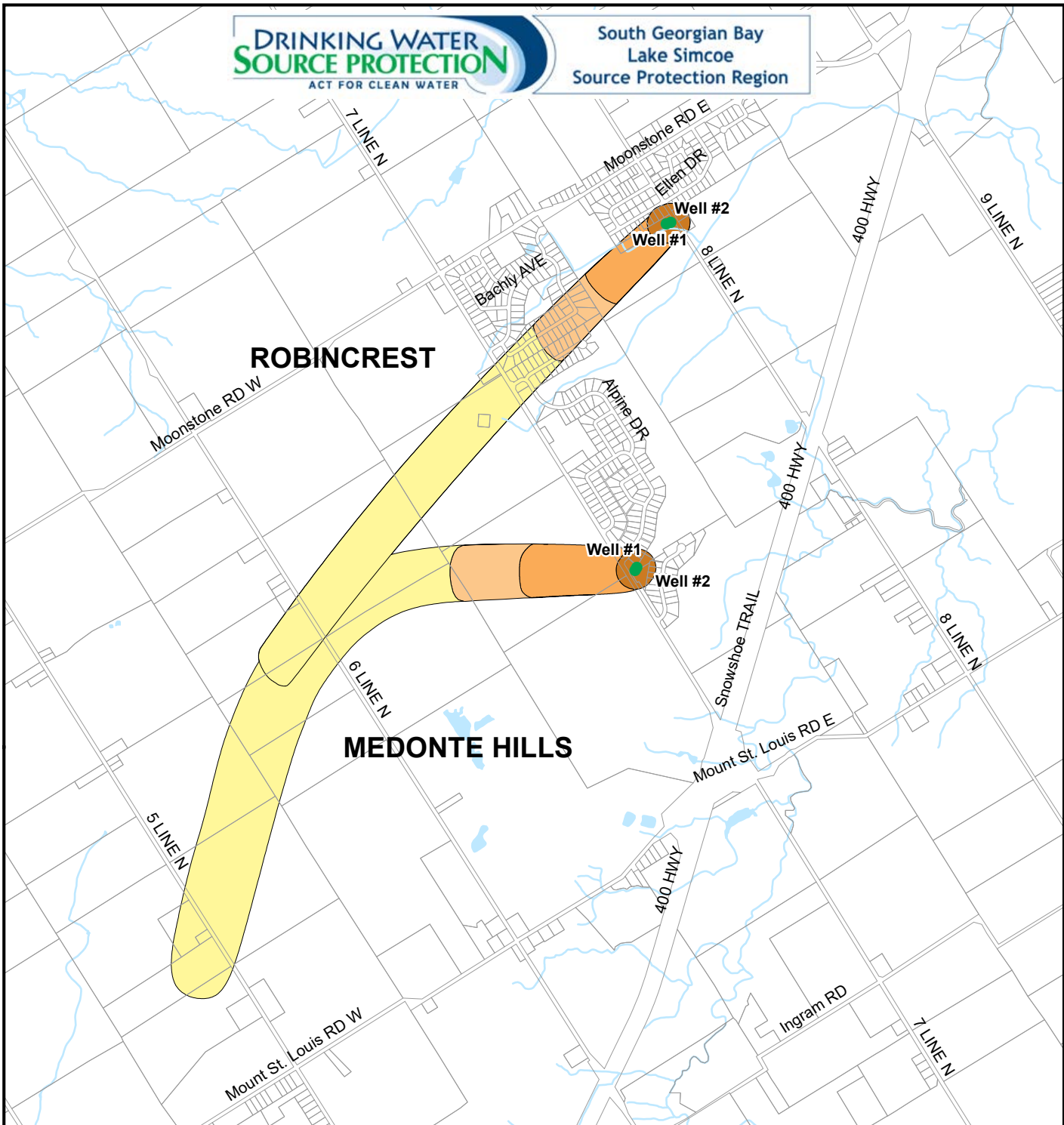
ASSESSMENT OF DRINKING WATER THREATS
SELECTED MUNICIPAL GROUNDWATER SUPPLIES

South Georgian Bay Lake Simcoe
Source Protection Region

DATE: OCTOBER 2020

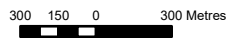
SCALE: 1:24,000

This map was produced for the South Georgian Bay Lake Simcoe Source Protection Region for the purposes of completing the South Georgian Bay Lake Simcoe Assessment Report. Base data have been compiled from various sources, under data sharing agreements. While every effort has been made to accurately depict the base data, errors may exist.



Legend

- MUNICIPAL WELL LOCATION
- WHPA-A: 100 m RADIUS
- WHPA-B: 2-YEAR TIME-OF-TRAVEL
- WHPA-C: 5-YEAR TIME-OF-TRAVEL
- WHPA-D: 25-YEAR TIME-OF-TRAVEL



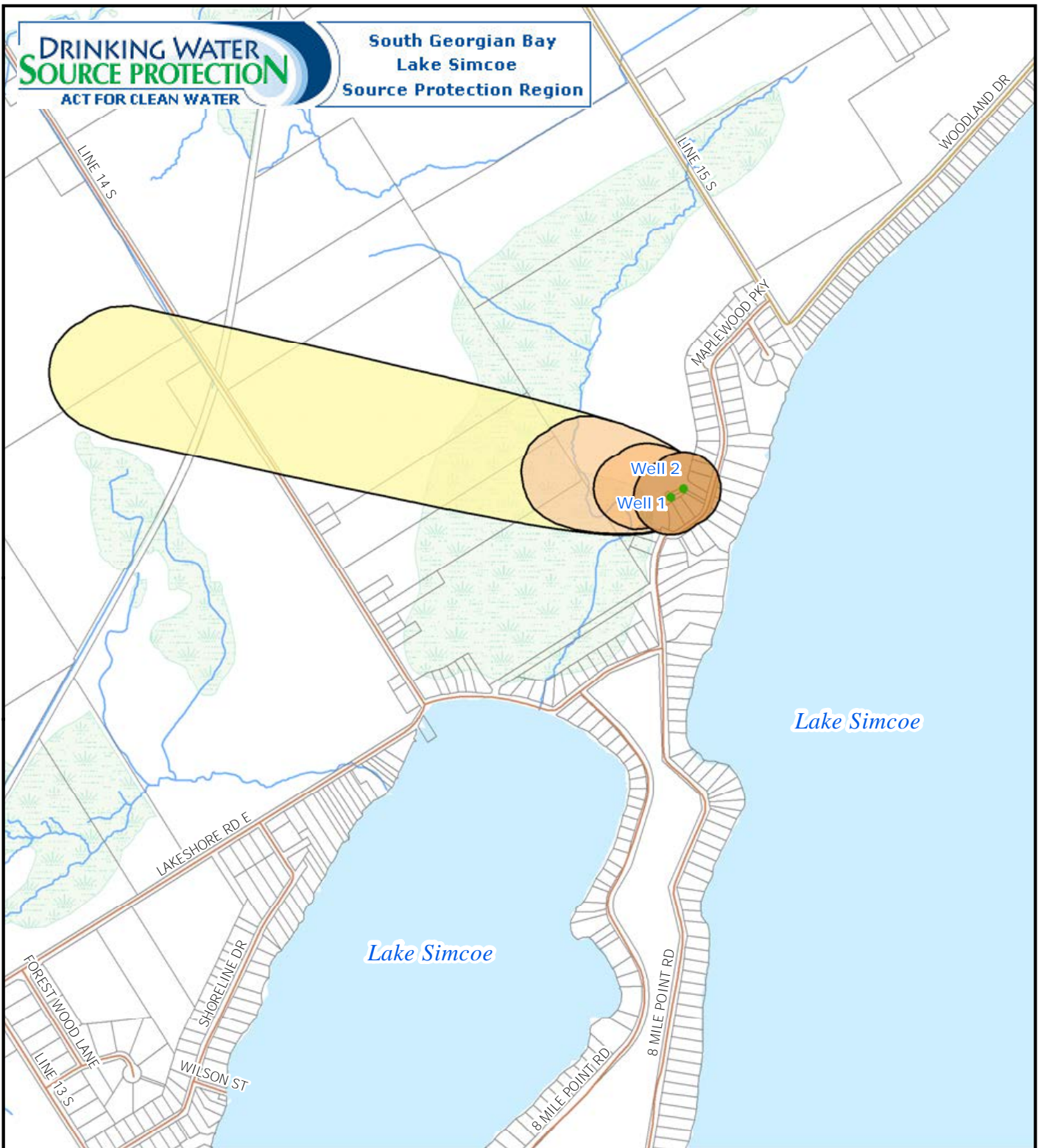
WELLHEAD PROTECTION AREAS – MEDONTE HILLS/ROBINCREST, ORO-MEDONTE

**ASSESSMENT OF DRINKING WATER THREATS
SELECTED MUNICIPAL GROUNDWATER SUPPLIES**
South Georgian Bay Lake Simcoe
Source Protection Region

Revisions made by Severn Sound Source Protection Authority

REVISION DATE: APRIL 2020	SCALE: 1:30,000
PROJECT:0-071948.07	FILE. NO.:0-07194807F13.7-1

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- Municipal Supply Well
- WHPA-A (100m radius)
- WHPA-B (2 years time of travel)
- WHPA-C (5 years time of travel)
- WHPA-D (25 years time of travel)

Wellhead Protection Areas -
 Maplewood, Oro-Medonte

Created by: LSRCA, 2021-05-12



Scale 1:15,000

0 200 400 600m

UTM Zone 17N, NAD83



This map was produced by the Lake Simcoe Region Conservation Authority, lead agency of the South Georgian Bay Lake Simcoe Region Source Protection Region. Base data have been compiled from various sources, under data sharing agreements. While every effort has been made to accurately depict the base data, errors may exist.



Figure 11d-1