



Lakes Simcoe and Couchiching/Black River

Source Protection Authority

Meeting No. SPA-01-22

Friday, April 22, 2022

9:00 a.m.

Agenda

Meeting to be held virtually by Zoom

I. Acknowledgement of Indigenous Territory

II. Declarations of Pecuniary Interest and Conflicts of Interest

III. Approval of Agenda

Pages 1 – 2

Recommended: That the agenda for the meeting of Lakes Simcoe and Couchiching/Black River Source Protection Authority held on April 22, 2022 be approved as presented.

IV. Adoption of Minutes

a. Source Protection Authority

Pages 3 – 5

Recommended: That the minutes of the Lakes Simcoe and Couchiching/Black River Source Protection Authority Meeting No. SPA-03-21 held September 24, 2021 be approved as circulated.

b. Source Protection Committee

Pages 6 – 19

Recommended: That the minutes of the South Georgian Bay Lake Simcoe Protection Region Source Protection Committee Meeting No. SPC-03-21 held December 16, 2021 be received for information.

V. General Updates

a. Source Protection Committee Chair's Update

Pages 20 - 21

Recommended: That the report by South Georgian Bay Lake Simcoe Source Protection Committee Chair Lynn Dollin regarding Source Protection Committee updates be received for information.

b. Annual Source Water Protection Progress Report

Pages 22 - 32

Source Water Protection Hydrogeologist, Mike Wilson, will provide a presentation regarding the 2021 Source Water Protection Annual Report to the Ministry. This presentation will be provided at the meeting.

Recommended: That the presentation by Source Water Protection Hydrogeologist, Mike Wilson, regarding the Annual Source Water Protection Progress Report be received for information.

Included in the agenda is Staff Report No. 01-22-SPA regarding the regarding the 2021 Source Water Protection Annual Report to the Ministry.

Recommended: That Staff Report No. 01-22-SPA regarding the 2021 Source Water Protection Annual Report to the Ministry be received; and

Further that the Annual Report be approved for submission to the Director, Conservation and Source Protection Branch, Ministry of the Environment, Conservation and Parks.

c. Source Protection Plan Amendments Update

Pages 33 - 37

Included in the agenda is Staff Report No. 02-22-SPA regarding the regarding an update to Source Protection Plan Amendments.

Recommended: That Staff Report No. 02-22-SPA regarding amendments to the South Georgian Bay Lake Simcoe Source Protection Plan submitted to the Minister of Environment, Conservation and Parks for approval be received for information.

VI. Other Business

VII. Adjournment

Lakes Simcoe and Couchiching/Black River

Source Protection Authority

Meeting No. SPA-03-21

Friday, September 24, 2021

Held virtually via Zoom

Meeting Minutes

Source Protection Authority Board Members Present

Regional Chairman W. Emmerson (Chair), Councillor P. Ferragine (Vice Chair), Councillor K. Aylwin, Mayor D. Barton, Mayor B. Drew, Councillor A. Eek, Councillor K. Ferdinands, Councillor W. Gaertner, Deputy Mayor J. Gough, Councillor R. Greenlaw, Mayor V. Hackson, Councillor S. Harrison-McIntyre, Councillor T. Lauer, Councillor C. Pettingill, Mayor M. Quirk, Councillor C. Riepma, Councillor M. Taylor, Regional Councillor T. Vegh, Councillor A. Waters

Source Protection Authority Board Members Absent

Councillor J. Dailloux, Councillor J. Gordon, Councillor E. Yeo

LSRCA Staff Present

R. Baldwin, T. Barnett, B. Longstaff, B. Thompson

Guests in Attendance

Mayor L. Dollin, South Georgina Bay Lake Simcoe Source Protection Committee Chair

I. Declarations of Pecuniary Interest or Conflict of Interest

None noted for this meeting.

II. Approval of Agenda

Moved by: C. Pettingill

Seconded by: C. Riepma

SPA-17-21 **Resolved That** the agenda for the meeting of Lakes Simcoe and Couchiching/Black River Source Protection Authority held on September 24, 2021 be approved as presented. **Carried**

III. Adoption of Minutes

a) Source Protection Authority

Moved by: B. Drew

Seconded by: J. Dailloux

SPA-18-21 **Resolved That** the minutes of the Lakes Simcoe and Couchiching/Black River Source Protection Authority Meeting No. SPA-02-21 held April 23, 2021 be approved as circulated. **Carried**

IV. Correspondence

- a) Included in the agenda was the Ministry of Environment, Conservation and Parks' letter regarding proposed amendments to the South Georgian Bay Lake Simcoe Protection Plan affecting York Region's Aurora and Newmarket wellfields.

Moved by: A. Waters

Seconded by: T. Vegh

SPA-19-21 **Resolved That** the letter from the Ministry of Environment, Conservation and Parks regarding proposed amendments to the South Georgian Bay Lake Simcoe Protection Plan affecting York Region's Aurora and Newmarket wellfields be received for information. **Carried**

V. General Updates

a) Source Protection Committee Chair's Report

South Georgian Bay Lake Simcoe Source Protection Committee Chair Lynn Dollin's report was included in the agenda. Chair Dollin provided a brief update noting that the Source Protection Committee has not held a meeting since her last update; however, the technical work around wells continues, along with committee member replacement due to term completions. She noted she was very pleased with the interest from individuals wanting to participate.

Moved by: M. Taylor

Seconded by: K. Aylwin

SPA-20-21 **Resolved That** the report by South Georgian Bay Lake Simcoe Source Protection Committee Chair Lynn Dollin regarding Source Protection Committee updates be received for information. **Carried**

b) Appointment of Members to the Source Protection Committee

Manager, Watershed Plans and Strategies, Bill Thompson, presented regarding the appointment of new members to the Source Protection Committee, noting that Committee members are important to the success of the delivery of the Source Protection Program as they have a broad range of interests and bring a broad range of perspectives. Committee

members are appointed for a five-year term and accordingly there are vacancies at this time. He reviewed the process undertaken to seek and interview interested members and overviewed the list of candidates that the Committee was recommending approval of.

Moved by: D. Barton

Seconded by: K. Ferdinands

SPA-21-21 **Resolved That** the presentation by Manager, Watershed Plans and Strategies, Bill Thompson, regarding the appointment of members to the Source Protection Committee be received for information. **Carried**

Staff Report No. 04-21-SPA prepared by Source Water Protection Hydrogeologist, Mike Wilson regarding the appointment of members to the Source Protection Committee was included in the agenda.

Moved by: D. Barton

Seconded by: K. Ferdinands

SPA-22-21 **Resolved That** Staff Report No. 04-21-SPA regarding the appointment of members to the South Georgian Bay – Lake Simcoe Source Protection Committee be received; and

Further that the appointment of Peter Dance, Amanda Kellett, Scott Lister, Kyle Mitchell, Jessica Neto, Rick Newlove, and Katie Thompson to the South Georgian Bay – Lake Simcoe Source Protection Committee for a term of five years beginning October 1, 2021 be approved. **Carried**

VI. Other Business

VII. Adjournment

Moved by: M. Taylor

Seconded by: J. Dailloux

SPA-23-21 **Resolved That** the meeting be adjourned at 9:17 a.m. **Carried**

Original to be signed by:

Regional Chairman Wayne Emmerson
Chair

Original to be signed by:

Rob Baldwin
Chief Administrative Officer



South Georgian Bay Lake Simcoe Source Protection Region

**Source Protection Committee (SPC)
 Minutes of Meeting SPC-03-2021
 December 16, 2021, 1:00 p.m. to 4:00 p.m.
 Zoom Video Conference**

Members:

Lynn Dollin, Chair

Municipal	Economic/Development	Public Sector	First Nations
Katie Thompson	Colin Elliott	Tom Kurtz	Sharday James
Kyle Mitchell	David Ketcheson	Bob Duncanson	
Andy Campbell	David Ritchie	Peter Dance	
Jeff Hamelin	John Hemsted	Geoff Allen	
Stan Wells	Rick Newlove	David Greenwood	
Scott Lister	Jessica Neto	Cate Root	
Chris Gerrits	Amanda Kellett		

Liaisons:

Simcoe Muskoka District Health Unit	Christina Wieder
Lake Simcoe Region Conservation Authority	Ben Longstaff
Severn Sound Environmental Association	Julie Cayley
Nottawasaga Valley Conservation Authority	Doug Hevenor
Ministry of the Environment, Conservation and Parks	Elizabeth (Beth) Forrest

Staff:

Bill Thompson, LSRCA	Ryan Post, NVCA
Mike Wilson, LSRCA	Melissa Carruthers, SSEA
Mystaya Touw, LSRCA	Shelley Fogelman, LSRCA (minutes)

Guests:

Beata Golas, Durham Region
 Mike Takeda, GeoProcess Research
 Chris Neville, S.S. Papadopoulos & Associates

Regrets:

Stephanie Hobbs – proxy to T. Kurtz

I. WELCOME & OPENING REMARKS

The Chair welcomed everyone to the meeting. Chair noted there were new members attending for the first time and introduced each person. It was explained that neither Liaison members nor Lake Simcoe Region Conservation Authority staff (introduced by Bill Thompson) were voting members.

Bill Thompson noted meeting would be recorded for assistance in preparing minutes and asked if there were any objections. There being none, the recording was started.

II. ROLL CALL

Chair noted that Stephanie Hobbs was absent and that her proxy would go to Tom Kurtz.

III. INDIGENOUS LAND ACKNOWLEDGEMENT

I'd like to acknowledge that the land we know as the South Georgian Bay - Lake Simcoe Source Protection Region is the traditional territory of many nations of Indigenous Peoples including the Anishinaabe, the Haudenosaunee, and the Huron or Wendat. We recognize this land is part of several Treaties including the Williams Treaties and we are grateful to these nations for the opportunity to settle here and share the land.

IV. DECLARATION OF PECUNIARY INTERESTS

None declared.

V. APPROVAL OF AGENDA

Chair asked for any amendments to the agenda.

RESOLVED: **THAT** the agenda for the December 16, 2021, meeting of the Source Protection Committee (SPC) be approved.

Moved: K. Thompson

Seconded: K. Mitchell

CARRIED

VI. ADOPTION OF MINUTES

Chair asked for any changes/updates required for minutes of March 31, 2021 meeting.

RESOLVED: **THAT** the minutes of the March 31, 2021 meeting of the Source Protection Committee be approved as amended and circulated.

Moved: A. Campbell

Seconded: J. Hamelin

CARRIED

VII. ANNOUNCEMENTS

Chair: Chair Dollin noted two Chairs' meetings had been held since March 2021; there were good presentations from three Source Protection Committees who have done good work on communications and have prepared some good videos.

ACTION ITEM: Chair will forward presentation links to share with committee members.

Also had a one to one with Chloe Stuart who is the ADM for the branch, and Kirsten Corrigal who is a new director for the program.

MECP: Yes, Kirstin joined in June/July and has been a strong addition; championing the program.

There have been a number of one-on-one meetings with the Director of the branch; found them to be very helpful.

Director Technical Rules have been approved and released; a guidance document will be released shortly. Hoping to have engagement sessions when a list of all questions has been comprised, to be held on a regional basis.

Still developing a best practices document which will be an online resource on ontario.ca to ensure communities and individuals have required tools to protect sources of drinking water that are not already included under Clean Water Act. Will advise when tool is to be posted online.

Funding – approved to Source Protection Authorities for upcoming two (2) fiscal years, which is the first multi-year funding for this program.

Continue to work through approval processes for S. 34 and S. 36 questions.

VIII. DELEGATIONS

There were none.

IX. PRESENTATIONS

(a) Proposed Amendment to Wellhead Protection Area – Cannington

Presented by Beata Golas, Regional Municipality of Durham

Presented results from modelling studies for new and existing wells in the community of Cannington.

Presentation provided information regarding current modelling to protect existing WHPAs, vs modelling completed in 2007. A description of techniques used to access vulnerability scores was provided.

Presenter described WHPA delineations and vulnerability scores. Also identified ICA (Issue Contribution Area). Described threats identified in area wellfield, total of 17 threats on 12 properties. Gravel Pit Wells – 28 threats identified on 23 properties. Noted that all potential threats identified can be addressed by existing policies.

Next Steps: Have initiated S.34 plan amendments in July 2021; implement consultation with governments and SPA.

QUESTIONS/COMMENTS:

- D. Ketcheson: It looks as though there were significant changes to capture zones – why? Do you ever get detection of E-Coli or other bacteria in any of the wells?
- C. Neville: Put a great deal of attention to understanding the differences in each of the wellhead areas. For each well in region is an extensive well field characterization report that formed the basis for the overall modelling. Several reasons for the differences including refinement of model to better match water level data; also mapped likely recharge to some systems which has led to some of the differences; and simply the rearrangement of the wells – some gone and two new wells. Bigger sources of differences – changes in pumping; smaller will be details in the modelling and some of the details in the modelling methodology. Most importantly, complete discussion and the reasons for the differences is included in the report for each of the wellheads.
- B. Golas: Sampling: We do have occasional fecal coliform occurrences in Wells 4 and 8 where bedrock is shallow; have treatment in place that includes chlorine and UV. Recently conducted more detailed sampling which includes Giardia and algae in well 4, and had one occurrence of algae. We’re looking into this further now.
- C. Elliott: What will be the effect on agriculture with the two new wells.
- B. Golas: Wells were constructed a long time ago; the new wells were built to replace lost capacity to provide water to community; built not to increase capacity but to have security in the system.
- A. Kellett: What considerations were made to climate change in the modelling?
- C. Neville: No consideration; but did look at different WHPAs for different amounts of pumping so we have WHPAs for the maximum permitted rates which is generally substantially higher than existing average rates.
- C. Root: What is the impact of the gravel pit and whatever happened there on Source Water?

- B. Golas: The gravel pit is no longer in operation; Durham Region acquired the land to the south around 2003.
- P. Dance: For other Durham fields – would like information for next meeting regarding modelling being used for other six wellfields in Durham.
- L. Dollin: It probably will be next meeting, based on today's agenda.
- D. Ketcheson: ICA/TCE – do you have any better understanding where that source is coming from or what is the current contaminant fate of the TCE that's influencing your wells?
- B. Golas: We do not; have requested assistance from Minister. Property has changed hands; our understanding is there are no DNAPLs or TCE on the property.
- J. Neto: Is there a specific reason why the two wells were chosen to be so close to each other? Would they encounter less vulnerabilities if they were farther apart?
- B. Golas: Couldn't find any good/reliable sources of water supply; limited quantity available.
- C. Neville: The two wells in proximity to each other are because they're tapping into an esker complex which is a linear feature of coarse material.
- B. Golas: Correct. There is no impact on each other.

RESOLVED: THAT Staff Report No. SPC-2021-03-01 be received for information; and

FURTHER THAT the Source Protection Committee agree that the proposed revisions to the Cannington wellhead protection area mapping and assessment report are advisable; and

FURTHER THAT the Risk Management Official for Durham Region report back to the next meeting of the Source Protection Committee on the new threats for the replacement well.

Moved: S. Wells

Seconded: R. Newlove

One (1) Opposed

CARRIED

(b) Proposed Amendment to Wellhead Protection Area – Sunderland

Presented by Beata Golas, Regional Municipality of Durham

Similar to Cannington; same models used for both. Over past several years new boreholes and wells to complete pumping tests; the model was updated to include new information. Includes two active wells, numbers one and three; drinking water system servicing approximately 1,400 people in Sunderland. Well two was taken offline in spring of 2017 and well three was constructed in fall 2017 as an emergency well and connected to system in spring 2021.

Identified five potential significant drinking water threats on four properties; need to confirm some threats.

Next Steps: Have initiated S.34 plan amendments in July 2021; implement consultation with governments and SPA; submission of materials to ministry.

Policy Implications to WHPA – Mike Wilson, Lake Simcoe Region Conservation Authority:

Five new drinking water threats identified as result of new wells; no change to types of threats encountered, therefore no changes are required to S.34 of policy.

QUESTIONS/COMMENTS:

- L. Dollin: Is well currently being used? And we've yet to approach the one agricultural property?
- B. Golas: Correct. Policies not incorporated into assessment report.
- L. Dollin: What was issue with wells one and two?
- B. Golas: Well two was scheduled for inspection and identified well need cleaning; UV transmittance dropped below threshold levels and couldn't be brought back to proper levels, so well was taken offline.
- G. Allen: On map it shows septic systems not connected to sewer, but they seem to be awfully close to the wellhead? Would the other two eventually be connected to the sewer system?
- B. Golas: The well is 28m deep; property owner has not connected it to system but there is the ability to do it. Ideally, we'd like to connect them; one is already connected.

RESOLVED: THAT staff report number SPC-2021-03-02 be received for information; and

FURTHER THAT the Source Protection Committee agree that the proposed revisions to the Sunderland wellhead protection area mapping and assessment report are advisable.

Moved: S. Lister

Seconded: C. Gerrits

CARRIED

(c) 2020 Annual Progress Reporting

Presented by: Elizabeth (Beth) Forrest, Ministry of the Environment, Conservation & Parks

There is an annual reporting requirement for Source Protection policies to the province.

- Legally binding SDWT policies (based on year/region):
 - o 98% of policies have been, or are being, implemented;
 - o Variations due to many reasons including new threats on landscapes, new policies coming into play
- Non-binding policies:
 - o Provincial average at 97%;
- Non-threat policies (i.e., communication & outreach):
 - o 97% are being implemented.
- 1,139 RMPs currently in place across the province; addresses almost 3,000 SDWTs.

Delays vary from one region to next; COVID responsible for many of them; government does receive reports outlining steps being taken by SPAs to ensure implementation. On average 83% of SDWT across province have been addressed.

Presentation provided annual statistics for other areas such as proscribed instruments, compliance results with policies' implementation; reviewed positive outcomes of program. 91% of SPC's reported they're on target to achieving their objectives; 9% reported satisfactory results.

QUESTIONS/COMMENTS:

- S. Lister: Number of RMPs in place – any information on how many RMPs are outstanding.
- E. Forrest: Don't have those metrics because numbers change so frequently. Number of RMPs in 2020 increased by 14% over 2019.
- S. Lister: Might be a common issue across province in that there are still a lot of RMPs to be completed.
- E. Forrest: SGB not the only SPA struggling to get RMPs in place.
- S. Lister: Provincial implementation re: proscribed instruments – MECP numbers all close to 100%, OMAFRA numbers are lower. Do you have a sense of what's being done to bring the numbers up?

- E. Forrest: Some reasons OMAFRA numbers are fluctuating is due to new or additional prescribed instruments that have been identified as needing review. MECP working very closely with OMAFRA; anticipating receiving updated information.
- J. Neto: Why are western SPAs are under 70% and others are above?
- E. Forrest: A lot has to do with when the Source Protection Plans took effect.
- D. Ketcheson: How will new technical rules affect numbers being presented? Are we going to see increases, decreases?
- E. Forrest: In very early stages of understanding. There are a lot of changes in new technical rules, some quite significant. Anticipate it will take multiple years for SPPs to be updated to reflect new rules. New systems and updated/amended existing systems will have to comply with new technical rules. Lower risk systems where changes are not anticipated may take a longer time to update. Will be a multi-year process; MECP recommending that some sort of informal work plan be put in place year over year; hard to say now what impact will be; some changes are not mandatory.

RESOLVED: THAT the presentation from Ministry of Environment, Conservation and Parks on the 2020 annual progress reporting summary be received for information.

Moved: C. Root

Seconded: B. Duncanson

CARRIED

(d) Risk Management Plan Update

Presented by Bill Thompson, Lake Simcoe Region Conservation Authority

Provided "history" on annual progress reporting to province regarding components of Risk Management Plan reporting. RMPs most important method to implement policies. Provided update of RMP status across the region.

In April 2020 it was proposed to SPC that they support a two-year extension for completing RMPs be requested of government. It was supported, new deadline now July 2022. As a result of COVID restrictions most of the plans have not been able to be completed. Proposing and requesting support for a further two-year extension as a result.

QUESTIONS/COMMENTS:

- P. Dance: Congratulations to staff; appreciate this comes well in advance of deadline rather than just afterwards. Are more staff/tools required in coming year(s) to meet expectations. I support extension recommendation.

- L. Dollin: Are we lacking tools or is it staff?
- B. Thompson: Some municipalities have full time RMOs and some part-time. The latter find it more difficult to get through plans, so certainly more resources would be helpful.
- L. Dollin: I would add, from a COVID perspective, the remaining RMPs are most likely more challenging and would, I suspect, and would be part of developing a relationship with property owners, difficult to do over Zoom (with COVID restrictions). Would like perspective of RMOs.
- C. Root: Concerned with current COVID news (i.e., Omicron) this week whether two years will be sufficient. I agree we should continue to monitor and, if we can, recommend to municipalities that they support plans for increased resources; but should be careful what's being suggested knowing what we may be facing in the future.
- A. Kellett: Is there a mechanism for prioritization for RMPs, where those that are higher risk are prioritized above others?
- B. Thompson: Each municipality is responsible for completing their own RMPs; it was recommended to them to begin with easier plans; I think easier ones are already done. Some of those left result from uncertainty understanding policy for DNAPLs; appears RMPs have focused on appropriate areas.
- L. Dollin: I would add that some have identified new plans that may not have been previously captured, adding to the list.
- R. Newlove: I'm wondering if the province would help with funds so RMPs can be completed; two years may not be enough unless we get assistance somewhere (province or other RMOs).
- E. Forrest: Risk management duties are municipal responsibilities so province would not be providing funding. Will take comments back to determine if other SPAs are experiencing same issues and whether there are any other possible solutions.
- K. Thompson: RMO perspective – Not able to go into field is limiting; but still in regular contact, but slower and difficult to work with property owners.
- C. Gerrits: I think extra funding would be helpful; many of smaller municipalities outsource role. How available are qualified RMOs?
- L. Dollin: Is province still running courses for RMOs & RMIs?
- E. Forrest: Yes, a few times per year.
- S. Wells: Part of difficulty is getting staff; secondly this is another download from the province to the municipalities; we're expected to do all this and money comes from local tax payer.

- D. Ketcheson: Statistics provided by Bill for 2020-21 we're probably doing about 20 RMPs/year through COVID; it's true that the world is changing with COVID and need about five more years to complete remaining RMPs; there are new technical rules – added work load – not sure how that translates to work for RMOs; if RMOs are amenable would they provide a recommendation(s) to the committee to act upon that would assist them, in some form or way, in dealing with the situation?
- L. Dollin: Question to Beth – are we better to ask for two years, or to ask for longer times?
- E. Forrest: Hard to determine with uncertainty of pandemic. Not sure what best course of action is; if you have justification and rationale for a longer extension, try that.
- L. Dollin: The other thing is that it may be good to have a RMO reps make a presentation to SPC to provide sense of challenges they're facing and make some recommendations to SPC committee for assistance.
- R. Newlove: Ours is one of the largest; so maybe we should ask for five years and see what province comes back with.
- K. Thompson: I'm co-chair of local RMO Working Group so happy to take suggestion back to group to make presentation and provide recommendations; only issue I foresee is some municipalities that have more to do aren't represented at that table; not sure how we'll capture their perspective.
- D. Ketcheson: Of the 37 SPCs we represent a large number with a unique number of RMPs; may not translate well when trying to advocate unless it's for our area
- L. Dollin: Between us and Lake Erie we have over ½ of drinking water systems in province. Bill, do we wait until Q1 next year or do we need to go ahead?
- B. Thompson: I don't think there's a rush. I was going to suggest next meeting be annual reporting meeting at end of March, but perhaps we have a smaller meeting between now and then if some of the RMOs are ready to give a presentation on this topic.
- L. Dollin: It might help us to determine justification; if RMOs helped to find that would be better.
- B. Thompson: Supported.
- P. Dance: Hesitant to ask for more than two years. Deferring to next meeting to better define approach.
- C. Gerrits: Need to know exactly what will happen if the RMPs are not done; what it means, how it affects councils?
- R. Newlove: Concerned if funding is available, if we wait how long will it to take to get the funding? Should approach government now to determine if there is funding and how best to access it.

- L. Dollin: Bill, have we not already completed budgeting for this year?
- B. Thompson: We have submitted budget for SPA staff, does not include RMO hours.
- L. Dollin: Suggestion: I write a letter advising we are aware we will not get work completed by deadline; will meet with RMOs to determine required timeline; could possibly get work done with more resources, but that will require funding; committee will discuss in Q1; heads up request for extension & RMO funding.
- E. Forrest: Not eligible expense because CWA clearly states it is municipal responsibility. Not sure there will be appetite to fund.
- S. Lister: Staffing is definitely important part of RMP negotiations; not having enough staff would be very challenging; found funding for incentives program very helpful; may be an avenue for funding and is one province followed in past.
- L. Dollin: One issue that SPC had with early implementation money – it took years for money to be spent, possibly because of prescribed ways to spend.
- S. Wells: Over years circumstances have significantly changed; so I take exception to comment that funding answer was no many years ago and it's still no.
- L. Dollin: I appreciate that, but I think chances of government opening up Clean Water Act between now and election is zero to none.

D. Ketcheson: I like idea of letter. Perhaps go further and ask what Ministry can do to assist with problem? Seeking solutions and invite input from the Ministry.**RESOLVED: THAT** staff report number SPC-2021-03-03 regarding an update on progress on negotiating Risk Management Plans be received for information; and

FURTHER THAT the Source Protection Committee will, in Q1 of 2022, meet with the Risk Management Officials with a view to determine challenges and Committee support to provide assistance; and

FURTHER THAT the Chair of the Source Protection Committee write a letter to the Director of the Source Protection Branch at the Ministry of the Environment, Conservation and Parks to advise that 1 completion of Risk Management Plans by the current deadline is not likely; and that a request for an extension of the RMP deadline may be forthcoming.

Moved: P. Dance

Seconded: D. Ketcheson

CARRIED

(e) DNAPL Policy Review

Presented by: Mike Wilson, P. Geo., Lake Simcoe Region Conservation Authority

B. Thompson noted that due to time constraints this presentation be held until next meeting.

RESOLVED: THAT in the interests of time the DNAPL Policy Review presentation and staff report number SPC-2021-03-04 be tabled until the next meeting of the Source Protection Committee.

Moved: J. Hemsted

Seconded: J. Neto

CARRIED

(f) Source Protection Region Update

Presented by Bill Thompson, Lake Simcoe Region Conservation Authority

Presentation made to keep committee members current on work being done.

Education and outreach programs for municipalities are ongoing to ensure staff are aware of the program and their responsibilities under the CWA. Also provide education/outreach programs for water system operators. Also provide courses for private sector including residential fuel providers in association with Ontario Transporters and Technicians Association.

Provided update of Section 34 amendments under new Technical Rules. Anticipate other amendments will be brought forward to Committee at a later meeting in 2022.

Noted that Municipal Official Plans have become a major tool for RMOs as drinking water systems are included. Source Protection staff and RMOs reviewing Official Plans and working with staff to ensure Source Protection Plans are considered in the plans.

QUESTIONS/COMMENTS:

C. Elliott: What has been said to Simcoe County's Municipal Official Plan? We are investigating them as far as agriculture is concerned.

B. Thompson: We've made sure they have a copy of the Source Protection Plan policies so all Restricted Land Use policies are captured in the Official Plan. The second point is more procedural relating to new drinking water systems; we wanted them to be aware that mapping they use would need to be updated from time to time and to find a way to make it as simple and painless as possible.

T. Kurtz: Did you say that before a municipality uses a well it needs approval under a Source Protection Plan?

B. Thompson: Yes. To clarify it is a regulation that came into force in 2018; now catching up to get wells that came into service prior to that year into the plan.

L. Dollin: Unless you get emergency extension as Beata got for Sunderland.

RESOLVED: **THAT** the Source Protection Region update provided by Bill Thompson be received for information.

Moved: D. Greenwood

Seconded: C. Elliott

CARRIED

X. ADOPTION OF ITEMS NOT REQUIRING SEPARATE DISCUSSION

There were none.

RESOLVED **THAT** the recommendations as set forth in the items not requiring separate discussion be approved, and staff be authorized to take all necessary actions to affect those recommendations.

Moved: R. Newlove

Seconded: S. Wells

CARRIED

XI. DETERMINATION OF ITEMS REQUIRING SEPARATE DISCUSSIONS

None.

XII. OTHER BUSINESS

P. Dance: Request a report for next meeting relating to remaining wells in Durham Region, based on today's presentations regarding Cannington and Sutherland.

B. Thompson: Will be happy to provide update. Durham Region is reviewing all wells throughout the Region.

D. Ketcheson: Would like to make committee aware of things called PFOS and PFAS substances; this is an emerging chemical threat; CCME has passed guidelines on the chemicals & it may be beneficial for committee to research.

XIII. Next Meeting and Adjournment

RESOLVED: **THAT** the date of the next meeting of the Source Protection Committee be determined by Doodle Poll; and

FURTHER THAT the December 16, 2021 meeting of the Source Protection Committee be adjourned at 3:57 p.m.

Moved: S. Walls

Seconded: D. Ritchie

CARRIED

Source Protection Committee Chair's Report

To: Lakes Simcoe and Couchiching/Black River Source Protection Authority

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

Date: April 22, 2022

Subject:

Source Protection Committee Chair's Update

Recommendation:

That the report 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 Lakes Simcoe and Couchiching/Black River Source Protection Authority Board meeting.

The Source Protection Committee has met twice since your last Source Protection Authority meeting. In these meetings the Committee has reviewed the annual report on implementation progress, which will be presented to you by Mike Wilson. The Committee has also discussed challenges Risk Management Officials have faced in completing the negotiation of Risk Management Plans in the face of COVID-19. The Committee is confident in the Risk Management Officials in our Source Protection Region and continues to be impressed by their diligence in delivering on the policies in the Source Protection Plan. It is recognized however that the COVID-19 pandemic has introduced unprecedented challenges to their work, including periodic requirements that municipal staff cease site visits, and the Risk Management Officials' empathy for small businesses, many who were facing unprecedented challenges themselves. At our last meeting, representatives of the Risk Management Officials outlined some of these challenges and presented a work plan to complete remaining Risk Management Plan negotiations. The Source Protection Committee has agreed to provide a three-year extension to this deadline to allow Risk Management Officials to safely navigate the return to normal, and to do so in a way that is supportive of maintaining relationships with businesses, farmers, and other landowners requiring Risk Management Plans.

The Source Protection Committee also continues to review proposed amendments to our Assessment Report to incorporate new municipal wells. Since I last spoke with you, the Committee has received presentations from Durham Region regarding some changes to the

municipal drinking water systems in the communities of Cannington and Sunderland and has agreed that the proposed amendments are appropriate.

I've recently had a chance to meet the new Director of the Conservation and Source Protection Branch at the Ministry of Environment, Conservation and Parks, Kirsten Corrigan. Kirsten began her new role by meeting with Source Protection Chairs across the province, and I had an opportunity to share with her more details about the characteristics of our region and the activities of our committee. She shared her view of the future of the program, and I was very pleased to learn that for the first time the Province has committed to a multiyear (two year) funding model.

The Province has also released a new best practices guide with lessons learned from our years of work <https://www.ontario.ca/document/best-practices-source-water-protection> for municipalities that may wish to undergo this work in areas not protected by a Source Water Protection Plan; for example, rural schools or retirement homes on private systems.

In my last report to this Source Protection Authority, I mentioned that the Committee was waiting for the Province to release updates to their Director Technical Rules, which outline the details of how Source Protection Plans are to be developed and amended. Those updates have now been released, and in the coming months, the Committee will be reviewing the implications of these changes to our Source Protection Region and assessing whether policies in the Source Protection Plan should be amended accordingly.

Respectfully submitted,

Lynn Dollin, Chair

Source Protection Authority Staff Report

To: Lakes Simcoe and Couchiching/Black River Source Protection Authority

From: Mike Wilson, Source Water Protection Hydrogeologist

Date: April 15, 2022

Subject:

Annual Source Water Protection Progress Report

Recommendation:

That Staff Report No. 01-22-SPA regarding the 2021 Source Water Protection Annual Report to the Ministry be received; and

Further that the Annual Report be approved for submission to the Director, Conservation and Source Protection Branch, Ministry of the Environment, Conservation and Parks.

Purpose of Staff Report:

The purpose of this Staff Report No. 01-22-SPA is to provide an overview of the South Georgian Bay Lake Simcoe Source Protection Plan annual progress report, as well as to obtain approval to submit the annual report to the Director, Conservation and Source Protection Branch, Ministry of the Environment, Conservation and Parks.

Background:

The South Georgian Bay Lake Simcoe Source Protection Plan (the Plan) has been in effect since July 1, 2015. The *Clean Water Act* (Section 46) requires that the lead Source Protection Authority report to the Director on the implementation of all policies each year. It also requires that the Source Protection Committee be provided an opportunity to comment on the draft report before its submission (draft 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 have been completed across the Source Protection Region. All municipalities have begun the process of negotiating risk management plans with landowners, and most municipalities have successfully completed some of their required risk management plans. In 2021, York Region became the first municipality to complete all their required risk management plans in the South Georgian Bay Lake Simcoe Source Protection

Region. 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.

Issues:

At their most recent meeting, the Source Protection Committee reviewed the data provided to Source Protection staff 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 92% (2,965 of 3,218) of existing significant drinking water threats have been mitigated through policy implementation.
- A total of 265 risk management plans have been established and an estimated 103 risk management plans remain to be negotiated across the Source Protection Region. Historic rates of risk management plan establishment suggest the July 2022 deadline is unlikely to be met. In addition, the rate of risk management plan negotiation in the remaining 2 months leading up to the deadline will continue to be impacted by the COVID-19 pandemic.
- Of the estimated 2,095 second round of inspections of on-site sewage (septic) systems required, 1,603 have been completed.

In early 2020, most Risk Management Officials indicated they had a plan in place to complete their risk management plans by the July 2022 deadline. For some, however, the covid pandemic resulted in delays, and they may no longer have the resources to complete by the deadline. At the Source Protection Committee meeting held on March 29, 2022, select Risk Management Officials presented a comprehensive workplan to complete all the outstanding risk management plans in the next three years (by July 2025). They demonstrated that for the majority of the estimated 103 risk management plans remaining to be completed, negotiations were well underway and draft risk management plans have been created. The workplans include having additional staff complete the Risk Management Official training, to add resources to help meet the proposed new target date. At that same meeting, the committee passed a resolution to have Source Protection Authority staff seek an additional three-year extension on the deadline for risk management plan completion. The Source Protection Committee requested that Risk Management Officials bring progress reports on risk management plan completion to the Source Protection Committee on an annual basis.

The Source Protection Committee has indicated that it is satisfied with the current rate of progress on plan implementation given the impacts of the pandemic and the resources available to Risk Management Officials to complete the work.

Summary and Recommendations:

The various implementers of the South Georgian Bay Lake Simcoe Source Protection Plan have submitted their 2021 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 estimated number of risk management plans still to be negotiated, along with historic rates of risk management plan establishment, suggests the July 2022 deadline is unlikely to be met. Source Protection Authority staff, under the direction of the Source Protection Committee will seek an additional three-year extension on the deadline for risk management plan completion.

It is therefore **recommended that** Staff Report No. 01-22-SPA regarding the 2021 Source Water Protection Annual Report to the Ministry be received; and **Further that** the Annual Report be approved for submission to the Director, Conservation and Source Protection Branch, Ministry of the Environment, Conservation and Parks.

Pre-Submission Review:

This Staff Report has been reviewed by the General Manager, Integrated Watershed Management and the Chief Administrative Officer.

Signed by:

Ben Longstaff
General Manager
Integrated Watershed Management

Signed by:

Rob Baldwin
Chief Administrative Officer

Attachments

The Source Protection Annual Progress Report, South Georgian Bay Lake Simcoe Region

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 – December 31, 2021

Ourwatershed.ca



Source Protection Annual Progress Report

I. Introduction

This annual report briefly summarizes the progress made in implementing the source protection plan for the Lakes Simcoe & Couchiching Black River, Nottawasaga Valley and Severn Sound Source Protection Areas, as required by the Clean Water Act and its regulations for the 2021 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 will ensure that activities carried out in the vicinity of municipal drinking water supply wells and lake-based drinking water intakes will 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 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 has impacted progress made in achieving source protection plan objectives in 2021 and will continue to have an impact into the future. Despite that, all municipalities submitted their 2021 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 92% of the 3,313 significant drinking water threats that existed at the time of source protection plan approval have been addressed through policy implementation.

While 265 risk management plans (RMPs) have been established as of December 31, 2021, it is unlikely that the estimated 103 outstanding RMPs will be completed by the July 2022 deadline. A RMP deadline extension will be sought, and progress will be monitored on outstanding RMPs 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 water 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 six years ago, much has been accomplished. To date, 100% of the legally binding policies that address significant drinking water threat activities have been addressed: have been implemented (42%); are in the process of being implemented (51%); or have been evaluated and determined no further action is required (7%).

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 take the next step to review and update their Official Plan to ensure it conforms with the local source protection plans the next time they undertake an Official Plan review under the Planning Act. Official Plans have either been amended or are being reviewed for inclusion of source protection requirements. Of the 43 municipalities that are subject to source protection plan policies, 42 have amended or are in the process of amending their Official Plan 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, 2,095 septic systems are required to be inspected as part of the 5-year inspection cycle. To date, 1,603 (77%) 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 have been established in our source protection region as of December 31, 2021 with 14 of those being completed within the 2021 calendar year.

45 inspections have been carried out in 2021 by a Risk Management Official/Inspector (RMO/I) for prohibited or regulated activities. There is a greater than 99% compliance rate with the risk management plans established in our source protection region.

We have made significant progress in establishing RMPs however it is unlikely that we will meet the July 2022 deadline. It is difficult to gauge exactly how many significant drinking water threats will be removed through threats verification work (and therefore not require an RMP). Source protection authority staff plan to seek an extension to the current RMP deadline.

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.

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 Chloride

An increasing concentration/trend has been observed.

The City of Barrie is developing Risk management plans based on the Threat Based Approach and all City contractors are Smart about Salt certified.

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

TCE

A decreasing concentration/trend has been observed.

Township of Brock – Cannington Well Supply – Arena Well Field

TCE

A decreasing concentration/trend has been observed.

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

TCE

A decreasing concentration/trend has been observed.

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

An increasing concentration/trend has been observed.

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 an important part of implementing Source Protection. Source protection authorities, municipalities and RMOs within the region continue to engage the community through site visits, media, workshops, etc.

In 2021 the Lake Simcoe & Couchiching Black River Source Protection Authority teamed-up with the Ontario Petroleum Transporters and Technicians Association to deliver source water protection education and outreach to fuel providers. We are taking a personalized approach to deepen the understanding and level of engagement about source water protection by meeting with key personnel at the largest fuel distribution companies in our region. The meeting provides fuel distributors with an introduction to source water protection concepts, informs them of where the vulnerable areas are located, and discusses ways fuel providers can protect sources of drinking water. We are looking to them to help educate their staff and build simple steps into their existing health and safety practices that will prevent spills in vulnerable areas around municipal water wells.

Source Protection Authority Staff Report

To: Lakes Simcoe and Couchiching/Black River Source Protection Authority

From: Bill Thompson, Manager – Watershed Plans and Strategies

Date: April 15, 2022

Subject:

Source Protection Plan Amendments Updates

Recommendation:

That Staff Report No. 02-22-SPA regarding amendments to the South Georgian Bay Lake Simcoe Source Protection Plan submitted to the Minister of Environment, Conservation and Parks for approval be received for information.

Purpose of Staff Report:

The purpose of this Staff Report No. 02-22-SPA is to provide an update to the Source Protection Authority Board of Directors on amendments to the South Georgian Bay Lake Simcoe Source Protection Plan that have recently been submitted for approval.

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 and may lead to new restrictions association with Source Protection Plan policies in those areas.

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

Issues:

At their February 26, 2021 meeting, the Source Protection Authority delegated authority to staff for the submission of such amendments, along with a commitment by staff for annual updates on any such amendments submitted. This is the first such update.

Source Protection staff have recently submitted two amendments to the Minister for approval: one which address three drinking water systems in the Township of Oro-Medonte (in both the Severn Sound and Lake Simcoe watersheds), and one which addresses a drinking water system in the Township of Clearview (in the Nottawasaga Valley watershed).

The Township of Oro-Medonte amendment addresses the transfer of ownership of the Braestone drinking water system to the municipality. Transfer of ownership of this sort requires that the Braestone system be added to the Source Protection Plan, and staff from Severn Sound Source Protection Authority have been working closely with the Township and the current owner of the system, to ensure the amendment process proceeds smoothly. This amendment also includes the addition of new wells which were recently added to the Maplewood and Robincrest drinking water systems. As a result of the amendments, 13 properties will now require septic system inspections on a five-year basis.

The Township of Clearview amendment adds four new wells currently in development to the Stayner well supply. These wells are intended to support growth in the municipality and have been located where no new significant drinking water threats have been identified, with the exception of any fuel that may be stored to support a backup generator at the pumphouse. It is expected that conditions on the proper storage of that fuel will be placed on the Drinking Water Works Licence / Permit. As such, no new Risk Management Plans are expected as a result of this amendment.

These two amendments were both submitted for approval in April, so approval has not yet been received. However, as MECP technical and policy staff have been engaged in the processes throughout, Ministerial approval is expected to be straight forward.

Summary and Recommendations:

As the lead Source Protection Authority, the Lakes Simcoe/Couchiching Black River Source Protection Authority is responsible for ensuring that the Source Protection Plan is amended to account for new or expanded municipal drinking water systems. Since the Source Protection Authority delegated authority to submit such amendments for approval, two amendments have been completed and submitted: one for the Township of Oro-Medonte (for the Braestone, Maplewood, and Robincrest drinking water systems), and one for Clearview Township (for the Stayner drinking water system).

It is therefore **Recommended That** Staff Report No. 02-22-SPA regarding amendments to the South Georgian Bay Lake Simcoe Source Protection Plan submitted to the Minister of Environment, Conservation and Parks for approval be received for information.

Pre-Submission Review:

This Staff Report has been reviewed by the General Manager, Integrated Watershed Management and the Chief Administrative Officer.

Signed by:

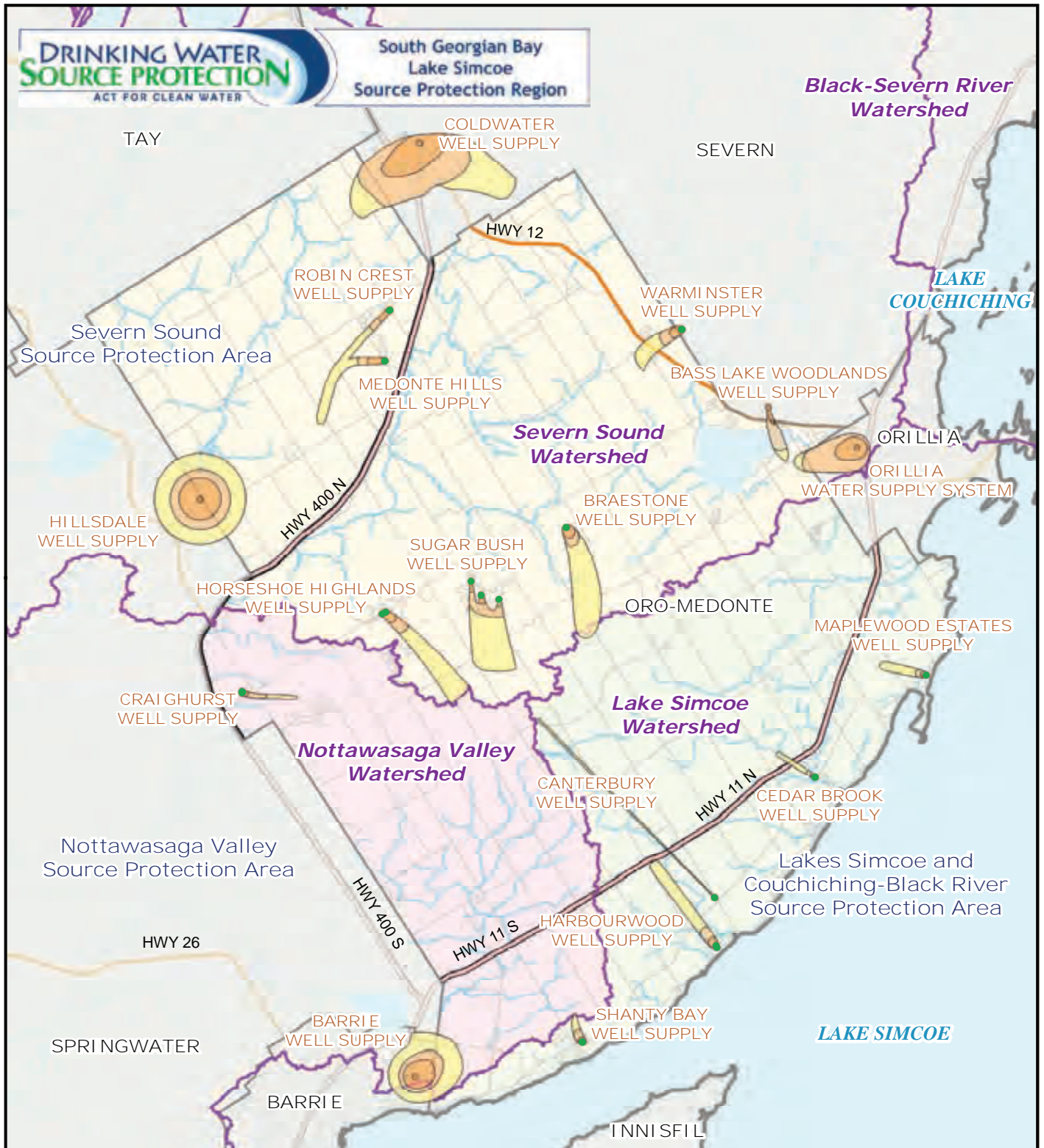
Ben Longstaff
General Manager
Integrated Watershed Management

Signed by:

Rob Baldwin
Chief Administrative Officer

Attachments

- i) Map of drinking water systems in Oro-Medonte
- ii) Map of drinking water systems in Clearview



Legend

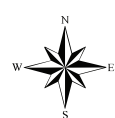
- Municipal Supply Well in Township of Oro-Medonte
- WHPA-A (100m)
- WHPA-B (2 years time of travel)
- WHPA-C (5 years time of travel)
- WHPA-C1 (10 years time of travel)
- WHPA-D (25 years time of travel)
- SWP Watershed Area
- Municipal Boundary

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

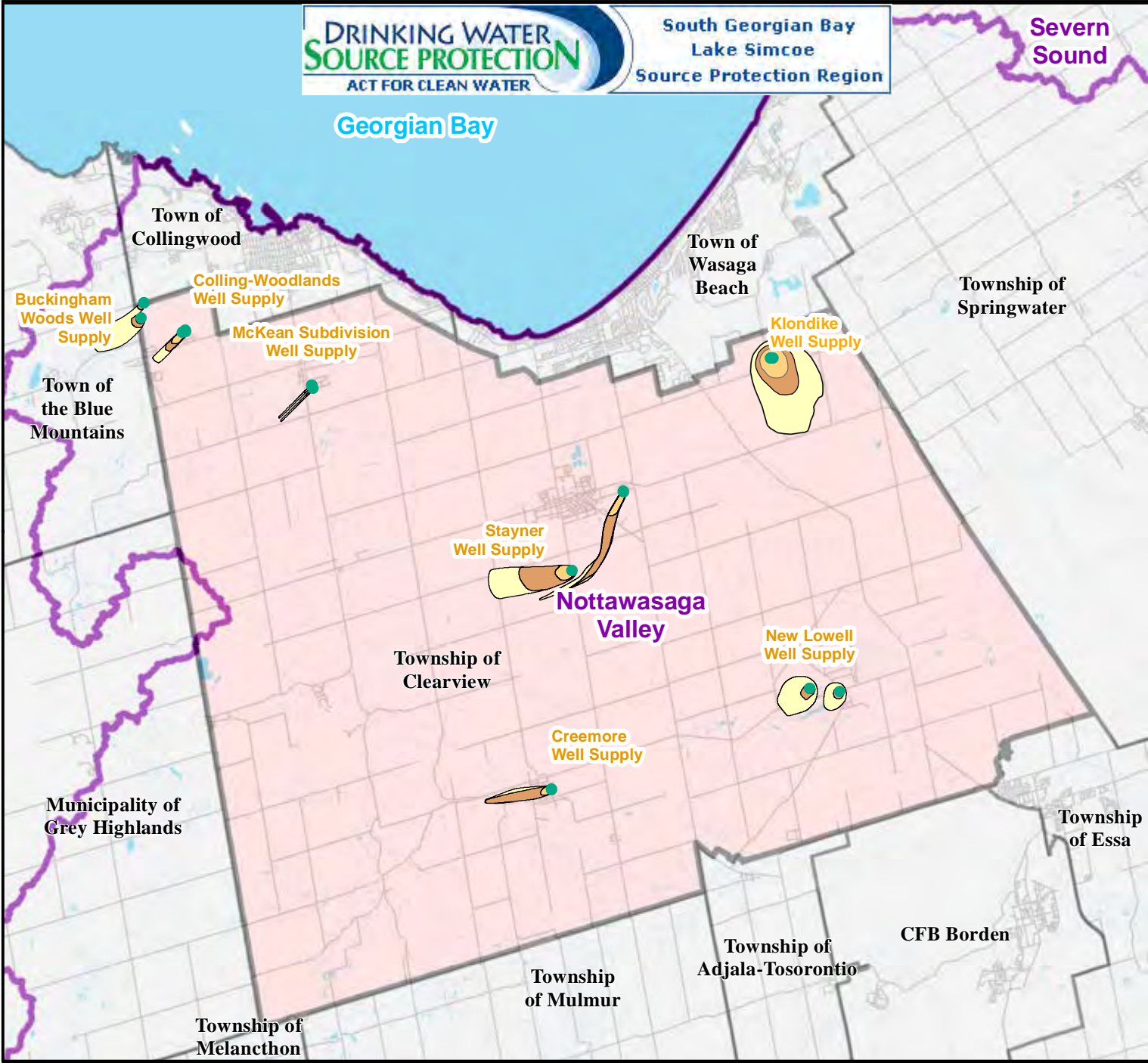
SCALE: 1:200,000

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 occur. Page 36 of 37



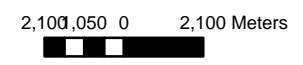
Figure 9 - 1



Legend

- Municipal Supply Well in Township of Clearview
- WHPA-A (100 m RADIUS)
- WHPA-B (2-YEAR TIME-OF-TRAVEL)
- WHPA-C (5-YEAR TIME-OF-TRAVEL)
- WHPA-C1 (10-YEAR TIME-OF-TRAVEL)
- WHPA-D (25-YEAR TIME-OF-TRAVEL)
- Municipality Boundary
- SWP Watershed Area

Drinking Water System
 Vulnerable Areas in Township of Clearview



Created by: NVCA
 Date: 2021-09



Scale: 1:200,000

UTM Zone 17N, NAD83

Figure 10-1

This map was produced for the South Georgian Bay Lake Simcoe 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.