



Lakes Simcoe and Couchiching/Black River

Source Protection Authority

Meeting No. SPA-02-21

Friday, April 23, 2021

9:00 a.m.

Agenda

Meeting Location:

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 – 3

Recommended: That the agenda for the meeting of Lakes Simcoe and Couchiching/Black River Source Protection Authority held on April 23, 2021 be approved as presented.

IV. Adoption of Minutes

a. Source Protection Authority

Pages 4 – 7

Recommended: That the minutes of the Lakes Simcoe and Couchiching/Black River Source Protection Authority Meeting No. SPA-01-21 held February 26, 2021 be approved as circulated.

b. Source Protection Committee

Pages 8 – 25

Recommended: That the minutes of the South Georgian Bay Lake Simcoe Source Protection Committee meeting held on February 17, 2021 be received for information.

V. Correspondence

Pages 26 – 27

The following correspondence item is included in the agenda:

- a) March 30, 2021 letter from the Ministry of Environment, Conservation and Parks regarding annual reporting requirements for source water protection under the Clean Water Act, 2006.

VI. General Updates

a. Source Protection Committee Chair's Report

Page 28

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 29 - 41

Source Water Protection Hydrogeologist, Mike Wilson, will provide a presentation regarding the Annual Source Water Protection Progress Report. 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.

Attached in the agenda is Staff Report No. 03-21-SPA regarding Source Water Protection.

Recommended: That Staff Report No. 03-21-SPA regarding the 2020 Source Water Protection Annual Report to the Ministry be received; and

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

VII. Other Business

The next meeting of the Lakes Simcoe and Couchiching/Black River Source Protection Authority will be Friday, September 24th @ 9:00 a.m. This meeting will be held virtually.

VIII. Adjournment

Lakes Simcoe and Couchiching/Black River

Source Protection Authority

Meeting No. SPA-01-21

Friday, February 26, 2021

Held virtually via Zoom

Meeting Minutes

Source Protection Authority Board Members Present

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

Source Protection Authority Board Members Absent

Township of Ramara, Councillor J. Gordon, Councillor T. Lauer

LSRCA Staff Present

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

Guests in Attendance

Mayor L. Dollin, South Georgina Bay Lake Simcoe Source Protection Committee Chair and Councillor C. Pettingill, Township of Brock

I. Declarations of Pecuniary Interest or Conflict of Interest

None noted for this meeting.

II. Approval of Agenda

Moved by: K. Ferdinands

Seconded by: K. Aylwin

SPA-01-21 **Resolved That** the agenda for the meeting of Lakes Simcoe and Couchiching/Black River Source Protection Authority held on February 26, 2021 be approved as presented. **Carried**

III. Adoption of Minutes

a) Source Protection Authority

Moved by: M. Taylor

Seconded by: A. Eek

SPA-02-21 **Resolved That** the minutes of the Lakes Simcoe and Couchiching/Black River Source Protection Authority Meeting No. SPA-02-20 held May 22, 2020 be approved as circulated. **Carried**

b) Source Protection Committee

Moved by: M. Taylor

Seconded by: A. Eek

SPA-03-21 **Resolved That** the minutes of the South Georgian Bay Lake Simcoe Source Protection Committee meetings held on July 7, 2020 and December 1, 2020 be received for information. **Carried**

IV. Correspondence

- a) Included in the agenda was a letter from the Lakes Simcoe and Couchiching/Black River Source Protection Authority to the Hon. Jeff Yurek, Minister of Environment, Conservation and Parks regarding Regulation 287/07 under the Clean Water Act – Annual Reporting Requirements.

Moved by: V. Hackson

Seconded by: T. Vegh

SPA-04-21 **Resolved That** the letter dated February 22, 2021 to the Hon. Jeff Yurek, Minister of Environment, Conservation and Parks regarding Regulation 287/07 under the Clean Water Act – Annual Reporting Requirements 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 reported that the Source Protection Committee has met virtually three times since the last source protection authority meeting and have been reviewing and updating policies in the Source Protection Plan to address challenges being faced in implementation. She noted it is anticipated that the Committee will continue

to review and amend policies based on the Province's recent Environmental Registry posting regarding proposed amendments to the Directors' Technical Rules. She also noted that a number of member appointment terms will end in 2021, and it is hoped that the affected members will seek reappointment.

Moved by: C. Riepma

Seconded by: E. Yeo

SPA-05-21 **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) Source Protection Plan Amendment – York Region Drinking Water System

Staff Report No. 01-21-BOD prepared by Manager, Watershed Plans and Strategies, Bill Thompson regarding proposed amendments to the Source Protection Plan for submission to the Minister of the Environment, Conservation and Parks was included in the agenda.

Moved by: V. Hackson

Seconded by: M. Quirk

SPA-06-21 **Resolved That** Staff Report No. 01-21-SPA regarding proposed amendments to the Source Protection Plan be endorsed; and

Further that these amendments be submitted to the Minister of the Environment, Conservation and Parks for approval. **Carried**

c) Delegation of Authority

Staff Report No. 02-21-BOD prepared by Manager, Watershed Plans and Strategies, Bill Thompson regarding delegating authority to staff for the submission of proposed amendments to the Source Protection Plan was included in the agenda.

Moved by: B. Drew

Seconded by: D. Barton

SPA-07-21 **Resolved That** Staff Report No. 02-21-SPA regarding delegation of authority to staff for the submission of proposed amendments to the Source Protection Plan be received; and

Further that Source Protection Authority staff be authorized to submit completed draft Source Protection Plan amendments for new or expanded drinking water systems, on behalf of the Source Protection Authority; and

Further that staff report annually to the Source Protection Authority Board the basis of all such submissions, and their subsequent approvals by the Ministry. **Carried**

VI. Other Business

VII. Adjournment

Moved by: J. Dailloux

Seconded by: S. Harrison-McIntyre

SPA-08-21 **Resolved That** the meeting be adjourned at 9:15 a.m. **Carried**

Original to be signed by:

Regional Chairman Wayne Emmerson
Chair

Original to be signed by:

Rob Baldwin
Chief Administrative Officer



Source Protection Committee (SPC)
Minutes of Meeting SPC-01-2021 (Amended)
Wednesday, February 17, 2021 – 1:00 p.m. to 4:00 p.m.

Members:

Lynn Dollin, Chair

Municipal	Economic/Development	Public Sector	First Nations
Don Goodyear	Colin Elliott	Tom Kurtz	Sharday James
Debbie Korolnek	David Ketcheson	Bob Duncanson	
Andy Campbell	David Ritchie	Geoff Allen	
Jeff Hamelin	John Hemsted	David Greenwood	
Stan Wells	Rick Newlove	Cate Root	
Brandon Powers			

Liaisons:

Simcoe Muskoka District Health Unit	Christina Wieder
Lake Simcoe Region Conservation Authority	Ben Longstaff
Severn Sound Environmental Association	Julie Cayley
Ministry of the Environment, Conservation and Parks	Tea Pesheva

Staff:

Bill Thompson, LSRCA	Ryan Post, NVCA
Mike Wilson, LSRCA	Melissa Carruthers, SSEA
Ben Longstaff, LSRCA	
Shelley Fogelman, minutes, LSRCA	

Guests:

Scott Lister, York Region	Rod Langford, CC Tatham
Tavis Nimmo, Durham Region	Jeff Richardson, Georgian Communities
Brittany Barks, City of Barrie	Nicholas Bishop, Golder Associates Ltd.
Jennifer Barrick, Township of Oro-Medonte	Michelle Jakobi, Township of Oro-Medonte



Regrets:

Katie Thompson – proxy to David Ketcheson
Doug Hevenor NVCA – represented by Ryan Post
Kyle Mitchell
Stephanie Hobbs
Larry Slomka

Minutes of Meeting

I. WELCOME & OPENING REMARKS

Chair Dollin welcomed everyone to the meeting; meeting began at 1:03 p.m.

II. ROLL CALL

Bill Thompson carried out a roll call, ensuring a quorum had been reached.

III. DECLARATION OF PECUNIARY INTERESTS

Chair Dollin asked for any declarations. There being none the Chair requested that participants advise her should any become known during the meeting.

IV. APPROVAL OF AGENDA

No amendments were received. Colin E. asked for topic to be added to New Business.

RESOLVED: THAT the agenda for the February 17, 2021 meeting of the Source Protection Committee (SPC), meeting number SPC-01-2021 be approved as presented.

MOVED: Stan Wells

SECONDED: Cate Root

CARRIED

V. ADOPTION OF MINUTES

Chair asked for any changes/updates required for minutes of December 1, 2020 meeting. Dave Ketcheson noted an error on page 16 – should be “Coldwater” not “cold water”; also questioned grammar of text on page 5.

RESOLVED: THAT the minutes of the December 1, 2020 meeting of the Source Protection Committee be approved as amended.

MOVED: Dave Ketcheson



SECONDED: Andy Campbell

CARRIED

VI. ANNOUNCEMENTS

Lynn D. Noted she would be attending Chairs' meeting week of February 22, 2021, as well as the forthcoming LSCBR-SPA meeting. She noted that she is looking forward to working with LSRCA's new Chief Administrative Officer Rob Baldwin.

Tea P. Provincial agencies have submitted their 2020 annual reports, and that will be available for the SPAs. Comments for Private Systems' Guidance have been received and are being considered for the platform that is being developed; hope to post to Ontario.ca in the spring. Have also received over 350 comments regarding Phase II of the Directors' Technical Rule Amendments which are currently under review and consideration. The Grand River Source Protection Area, specifically Wellington County and County of Brant, and S.34 updates have been approved; other S.34 and S.36 updates continue to be received and are under review. Transfer payment discussions are underway.

Questions/Comments:

Colin E. What is a Section 34?

Tea P. An amendment that is initiated by the municipality but have to be submitted through the consultation process; any changes such as a new system or updates to a system, whether intake or well. SPA then works on updating Source Protection Plan and the Assessment Report, depending on what kind of technical work they've done and if there are updates to Wellhead Protection Areas or Intake Protection Zones. Then the S.36 is a review of the Plan as required under the legislation, which is as a result of a Minister's order given to the SPA for specific changes that need to be done or that it remains current.

Lynn D. What was the turn around time for the Grand River?

Tea P. That took quite a bit of time, but I can't recall when it was submitted. There were some longer considerations for that S.34.

Dave R. There was a webinar with Canadian Water Agency and an Ontario forum held last week. This is a new federal initiative. Can discuss at a later date.



John H. I'm a member of Lake Simcoe Coordinating Committee. At a combined meeting of Science and Technical committees last week I was struck by the apparent lack of recognition that Source Water is actually dealing with chloride in Lake Simcoe.

Ben L. We can certainly always do a better job of communicating between these different groups. Because of the way the rules are set up, Source Water has been restricted in many respects around how the policies apply. We need to communicate how this applies; the work being done with Lake Simcoe Protection Plan (LSPP).

VII. DELEGATIONS

There were no delegations at this meeting.

VIII. PRESENTATIONS

(a) New Wellhead Protection Area for Oro-Medonte: Braestone System

Presented by Melissa Carruthers, SSEA; and Nicholas Bishop, Golder Associates Ltd.

[Dave Ketcheson declared a Pecuniary Interest in the Braestone System]

Melissa provided system background noting there is a move to transfer ownership from Braestone Development Corp. to the Township of Oro-Medonte. There are 121 homes currently serviced by the system and additional connections will be added as construction proceeds.

Nicholas Bishop provided an overview of the approach and steps taken to the Braestone development WHPA and Threat Assessment. Hydrogeological data collected subsequent to the 2009 and 2010 studies were reviewed and used to refine the conceptual hydrostratigraphic units and static groundwater elevations.

Had benefit of starting with an existing conceptual hydrogeological model of the area. Previous assessments had been done for three other systems and was then updated and refined using data that was collected subsequent to those assessments. The model was used following the technical rules to develop the wellhead protection areas for the well system completed through particle tracking. Following technical rules again vulnerability scoring, and threats assessments were completed.

It was noted at the well at Braestone there is approximately 80 meters of unconsolidated sediments in confining units and aquifers overlying the well screen; going further south thickness increases to approximately 130 meters. The calibrated model was used as a starting point, supplemented with pumping wells for the Braestone area; Braestone wells were added to the area and pumped at the daily maximum rate for the permit to take water which was significantly higher than expected, about 2 ½ times. Following technical rules applied the 2-, 5-, and 25-year time of travel were used to determine what the wellhead protection areas are.

The location has a significant thickness of overlying burden. Vulnerability was mapped as being low throughout most of model domain. No significant threats were identified with the exception of 8 property hookups to septic/sewage systems within the 100 meter limit; these are mitigated through regular inspections.

As a ministry requirement, SSEA completed supplemental mapping. No changes to the policy in the area are being recommended. Next steps will include pre-consultation with implementing bodies, municipal endorsement and consultation periods before package is submitted to the Ministry for approval.

Questions/Comments:

- Dave R. What is relationship of aquifer with Bass Lake? Is this a recharge area for it?
- Nicholas B. That's outside of the model area for the system. I'd need to take a detailed look at actual interaction between the A2 aquifer and Bass Lake.
- Dave R. So you're in the same aquifer as Horseshoe Valley, Sugarbush and Braestone?
- Nicholas B. As far as I know all three wells rely on the A2 aquifer.
- Dave K. How many wells are in the A2 aquifer?
- Nicholas B. I'd need to look at the specifics; the majority of wells in the area will get water from the A2. We had a total number of calibration points of 245 that extends throughout the model domain. (NOTE: Melissa C. follow up email noted 76 of the 245 wells).
- Dave K. Braestone well is not the only well in the system.
- Nicholas B. Correct.
- Lynn D. Noted that Dave K. has declared conflict (pecuniary interest) and should not be asking questions.

- Geoff A. Who initiated the transfer of the ownership of the system?
- Rod L. Had always been part of subdivision agreement between developer and Township of Oro-Medonte.
- Tom K. I'm assuming that Braestone paid for the assessment.
- Rod L. That's correct.
- Colin E. Why would you plan a new subdivision with houses all around it and have 8 wells over top of your well? How much would you need to pump out of that well before agricultural wells in the area are affected?
- Nicholas B. To the second part of the question - The A2 aquifer has significant transpassivity; not anticipated there would be any groundwater issues relating to the pumping rates.
- Lynn D. Septic systems are not prohibited, they are just managed by inspection, right?
- Melissa C. Correct.
- Lynn D. Is there a septic inspection program already on wells or is it something that will have to be implemented?
- Melissa C. It is my understanding they are not currently being inspected as they are outside of the Lake Simcoe Protection Plan area; the Township is aware and will add it to their program.
- (NOTE: email response to question from Melissa C: the planning and approvals for the Braestone development were completed many years ago, and well before the Clean Water Act and Source Protection Regulations came into effect. Developments having a municipal drinking water system and private, individual septic systems are very common in Oro-Medonte (and elsewhere), and in addition to the Braestone development, include Warminster, Craighurst, Horseshoe Highlands, and Sugarbush to name a few.).



RESOLVED: THAT the presentation “New Wellhead Protection Area for Oro-Medonte: Braestone System: be received for information; and

FURTHER THAT the South Georgian Bay Lake Simcoe Source Protection Committee agree that the proposed amendments to the Source Protection Plan and the Oro-Medonte Chapter of the Severn Sound Assessment Report are advisable.

MOVED: Dave Ritchie

SECONDED: John Hemsted

CARRIED

(b) New Wellhead Protection Area for Oro-Medonte: Robincrest System

Presented by Melissa Carruthers, Severn Sound Environmental Association

This is a revision to the Wellhead Protection Area A for the Robincrest System, resulting from twinning one of the wells in the well field. System is in rural setting serving approximately 170 residential properties, three commercial users and an elementary school. System made up two wells. In 2018 a new well was drilled as a direct replacement for one of the wells as it was deteriorating and has since be decommissioned. AECON was retained to determine if drilling of new well would require an update to the technical work; determined that no new technical work was required. It was proposed that the WHPA A shift slightly to account for location of new well keeping 100-meter radius accurate; by making shift no new threats will be created. In 2015 when assessment report was approved there seven onsite sewage threats and one fuel threat; fuel threat has since been removed; however seven sewage threats will remain and are managed through existing processes.

No policy changes are recommended. Following today’s meeting will be moving into pre-consultation with implementing bodies, municipal endorsement and consultation periods before package is submitted to the Ministry for approval.

Questions/Comments:

- Cate R. What happened to the initial well that it needed to be decommissioned?
- Melissa C. The well started pulling sand and wasn’t performing as it should.
- Dave K. Why was it pulling sand?
- Melissa C. I’d have to go back and look through the AECON reports.

Dave K. So the new structure took that information into account and the new well was restructured to deal with that issue?

Melissa C. I believe all that has been taken into account.

Tea P. Is the plan to submit for both systems together or separately?

Melissa C. We're hoping to submit all three – Braestone, Robincrest and Maplewood (Mike W's presentation) together.

Lynn D. Is that what you'd suggest? Is it best to do them all together?

Tea P. Unless it's a more urgent matter, it's best to submit together.

RESOLVED: **THAT** the presentation “New Wellhead Protection Area for Oro-Medonte-Robincrest System” be received for information; and

AND THAT the South Georgian Bay Lake Simcoe Source Protection Committee agree that the proposed revisions to the Robincrest sections of the Source Protection Plan and Oro-Medonte Chapter of the Severn Sound Assessment Report are advisable.

MOVED: Bob Duncanson

SECONDED: Tom Kurtz

CARRIED

(c) New Wellhead Protection Area for Oro-Medonte: Maplewood System

Presented by Mike Wilson, Lake Simcoe Region Conservation Authority

This is a proposed S.34 update for the Maplewood Estates System in Oro-Medonte. This system is located in southeast Oro-Medonte and is included in current Assessment Report. Located near western shoreline of Lake Simcoe and is one of the smallest drinking water systems in the Source Protection region serving a population of 125 based on the 2001 census. There is one water supply well, drilled to a depth of 27.1 meters and is completed in a three meter confined gravel/sand aquifer. The change to the system is the addition of well number 2, drilled to a depth of 26.7 meters and completed in the same sand/gravel aquifer as well number 1.

Vulnerability Assessment – most of the WHPA is low vulnerability with a small area of medium vulnerability west of the municipal well. Vulnerability score is a combination of which wellhead protection area you're in and the intrinsic vulnerability. Vulnerability



score is important as it determines whether there is a significant drinking water threat in an area.

Threats Assessment – There would be five new waterfront properties within the revised Wellhead Protection Area A. Suspect that the septic systems for those properties do not encroach on Wellhead A, and when field verifications are completed, they could be removed as threats.

Policy Review – Threats will be managed through existing processes therefore no changes to policies or additional policies are recommended.

Next Steps – will consult with Ministry and a notice to proceed will be issued. Likely that three or four small systems in Oro-Medonte will be packaged into a single S.34 amendment to the Ministry.

Questions/Comments:

Cate R. You indicated there are over 200 homes in the area from 2005; it also sounded like there still needs to be a site assessment for those high risk areas. Is there a chance that when you go there’s a lot more build up in the area? And how can we approve it until you have actually been to the site?

Mike W. The majority of the threats fall within the area of WHPA A. The wellhead protection area, in 2001, was fully developed so there was no room for additional properties in that WHPA. We intersect the area within WHPA A, vulnerability score 10, with the assessment parcels, and say there may be drinking water threats in this area. Until it is actually field verified it is unsure. Part of the septic systems, either the bed or the actual tanks would have to be within the wellhead protection area which makes it unlikely there are any additional threats in that area.

Lynn D. The point is really moot because they would already be captured within the Lake Simcoe Protection Plan so they would already be doing inspections for all of those properties, correct?

Mike W. Yes, LSPP also has a septic policy.

RESOLVED **THAT** the presentation “New Wellhead Protection Area for Oro-Medonte: Maplewood System” be received for information; and

FURTHER THAT the Source Protection Committee agree that the area mapping and assessment report are advisable.



MOVED: Dave Ketcheson

SECONDED: Debbie Korolnek

CARRIED

(d) Proposed Amendment to Policy SALT(ICA)-1, Which Requires Risk Management Plans for the Application of Road Salt in the Barrie Issue Contributing Area

Presented by Brittany Barks, City of Barrie; Bill Thompson, Lake Simcoe Region Conservation Authority

By way of introduction, several years ago we did a workshop with municipalities in the Source Protection Region directed by the Province, to determine what challenges municipalities were finding in implementing the policies in the Source Protection Plan. One of the items the City of Barrie brought to us was the policy related to Risk Management Plans for the application of salt in the Issue Contributing Area (ICA). At that time the RMO office reached out to us advising they didn't think the policy extended far enough. So we've been working with the City of Barrie to determine what an option might be in terms of a policy. Brittany is presenting that work to you today.

[Note: Brittany has been covering for Katie Thompson while she's been off on maternity leave; that ends this week.]

Presentation focuses on a few areas – the current policy in place and how the implementation of that policy is going; the actual policy review that was carried out and its initiatives and results; what other initiatives related to salt have been undertaken; and present recommendations based on the policy review results.

During the assessment report and source protection plan development there were no significant drinking water threats identified related to salt application due to the vulnerability scoring and the impervious surface percentage threshold. There were sodium and chloride concentrations which were identified as issues within the central well field in Barrie creating an Issue Contributing Area mapped to the extent of the WHPA D boundary. The requirement for a Risk Management Plan applies only to the WHPA A's within the ICA and the implementation of that policy is currently in progress.

The policy identified requirement for 31 Risk Management Plans (RMP) for salt application within the WHPA A. To date, agreement and sign off has been achieved on 24 of the RMPs. The outstanding are in progress. The majority of the 31 are stand-alone and commercial businesses.



The presentation highlighted common management measures that are included in the RMPs that are negotiated for salt application. City has facilitated training in Smart About Salt for developers at no cost. There remain some challenges included the limited area available in which to enforce the salt policies.

Noted that only a small percentage of the entire ICA where there is salt application is able to be managed to protect drinking water under the current policies. The large contributors to winter maintenance material applications, such as large commercial parking lots and big box stores, are not currently being captured .

The presentation provided an overview of an optimization exercise that was intended to add approximately 30 RMPs for salt application beyond the current requirement in WHPA A; and to balance workload with impact on salt use. Parking lots were broken into size thresholds scoped to the different vulnerable areas within the ICA – sizes were 0.5; 0.75 and 1 hectare (e.g. – a 0.5 hectare lot is usually associated with a standalone business, while a 1 hectare lot is a commercial or industrial plaza). A summary table of analysis on various parking lots was provided.

Based on this analysis, recommended extending requirement for Risk Management Plans to parking lots 1 hectare in size or greater, throughout the ICA.

Questions/Comments:

- Dave R. Seems to me that we will have to outlaw salt and go back to using sand/salt mix in WHAP A because of liability insurance issues.
- Brittany B. That’s definitely a focus of the City’s Salt Optimization Process, and what options are available and used to reduce amount of salt being used.
- Dave R. MTO Winter Maintenance Program trains in use of sand/salt mix as opposed to pure salt, using discretion.
- Brittany B. That’s what the Smart About Salt certification program is focused on, right time, right place, right rate – definitely becoming more prevalent.
- Dave K. Does the City of Barrie take information, i.e., 42% reduction in use of salt, and co-relate it to accident reports or civilian complaints to be able to prove the point that the reduction does not have a harmful impact?
- Brittany B. I’m not sure of the answer.
- Bill T. LSRCAs has been working with the City of Barrie and other municipalities to demonstrate there has not been a large difference in accident rates.

- Don G. Has there been any change in chloride concentration in your well supplies?
- Brittany B. That is something the Operations Group is sampling for and tracking.
- Bill T. Based on last year's annual report there isn't a decrease in the trend as yet.
- Lynn D. But with a flat line, no increase with the growth in the municipality, might be saying something.
- Dave K. Is there a target to which sodium chloride in wells will be reduced? Will you continue to move lot size down (i.e., from 1 ha to 0.75, etc.) until you see a target number that indicates success with the program?
- Brittany B. From the data gathered, from the viewpoint of workload vs what we believe the impact will be, that threshold is getting the big parking lots. I believe the 1 ha threshold will provide the impact we're looking for.
- Dave K. How will you judge it?
- Brittany B. The Operations Group does trend the salt, and it takes a while to show in the trend, but we are doing continual sampling.
- Dave K. So if you don't see a reduction in the 1 ha, will your next step be to go to 0.75 ha?
- Brittany B. It could be a review would be done. I think there are other opportunities; there are a lot of pieces to the puzzle.
- Andy C. What are the main issues/claims that underlie liability issues? We've been lobbying the Province to change the Occupiers Liability Act with respect to parking lot maintenance and injuries of salts laid or other winter maintenance is modified. We can reduce salt, but until rules are changed on liability salt will continue to be used.
- Lynn D. There did seem to be some interest from current Attorney General even as far as to sending out a survey asking for data, insurance rates for municipalities and examples of being targeted, etc. COVID resulted as delaying momentum. There are other salt-related policies in the City as well, are there not?
- Brittany B. There are a number of education and outreach materials on the City's website; have been working with Economic Development Group and

Downtown Business Association, to provide a workshop regarding salt reduction – pushed due to city-wide reorganization and COVID.

- Andy C. To put things in context courts are asking how much salt was put down.
- Brittany B. I have heard that certification through the SAS program has helped with liability issues.
- Debbie K. I think every municipality has horror stories. Are there supports provided for those businesses that must prepare a Risk Management Plan? How do we ensure plans are followed and implemented?
- Brittany B. The easiest thing is to use a contractor who is certified. Try to pull out measures that are appropriate to business size, such as record keeping, providing measuring cups for salt; part of the RMP is follow up with the business; plan includes record keeping templates for business owner.
- Dave R. How viable is it for winter closure of a portion of the lot?
- Brittany B. It would depend on what part of the lots fell within vulnerable area.
- Colin E. Lynn, what is our liability towards Lake Simcoe as a governing body? Do we not, as a group, have some responsibility to correct salt use?
- Lynn D. This is going in the right direction, with more vs less; we’ve got another report coming up around the Freshwater Table and the Lake Simcoe Salt Reduction Strategy, so would you hold your question for then?
- Dave K. With respect to ICA-1, is Barrie the only municipality with that particular policy?
- Lynn D. Not in our region. Is that correct, Bill?
- Bill T. Yes, currently in our region there is only one ICA and that is in the City of Barrie.
- Dave R. Tottenham must be close.
- Bill T. There are a number that are close.

RESOLVED: **THAT** the presentation “Proposed Amendment to Policy SALT(ICA)-1, Which Requires Risk Management Plans for the Application of Road Salt in the Barrie Issue Contributing Area” be received for information; and

FURTHER, THAT policy SALT(ICA)-1 be amended to read: “With the exception of personal domestic use the existing and future application of road salt is designated for the purposes of Section 58 of the Clean Water

SPC Meeting February 17, 2021

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Act, and therefore requires a risk management plan where the activity is or would be a significant drinking water threat within WHPA-A of the ICA, and outside of WHPA-A where a parking lot has a surface area equal to or greater than one hectare. The risk management plan, at a minimum, will include terms and conditions to require a reduction in salt application, and comply with contemporary standards to ensure the application of road salt ceases to be or does not become a significant drinking water threat”;

AND FURTHER THAT that staff be directed to incorporate the new policy text as part of the forthcoming amendment to the Source Protection Plan, under Section 36 of the Clean Water Act.

MOVED: Don Goodyear

SECONDED: David Greenwood

CARRIED; Two Opposed.

(e) Lake Simcoe Salt Reduction Strategy

Presented by Bill Thompson, Lake Simcoe Region Conservation Authority (LSRCA)

Noted that while presentation is not Source Protection related, information does coincide with Source Protection work others are doing regarding salt reduction. Presentation is about a Salt Reduction Strategy developed by Lake Simcoe Region Conservation Authority and is being implemented around the Lake Simcoe Watershed. Strategy was developed due to rising trends of chloride in Lake Simcoe. Noted that federal government has set a guideline for aquatic ecosystems with respect to chloride and that guideline is 120 mg / L; currently sitting at 50.

Similar high concentrations are being seen throughout the Source Protection region and Eastern North America. A survey conducted in 2012 showed there was 100,000 tons of salt put on roads and walkways in the Lake Simcoe watershed; that is the primary source of chloride that is in the lake. To put into perspective 100,000 tons is the full weight of the CN Tower.

This is a shared problem across landscape; equally shared by local municipalities, upper tier municipalities, and provincial highways and those managing parking lots. Found municipalities were trying different pilot projects that were often repeated in another municipality in a different year. Created a working group including Ministry of Transportation; Upper Tier, urban and urbanizing municipalities; roads staff, land use



planners, source protection staff; academics; and LSRCA staff. As a result of conversations created a series of technical briefs covering some of the major topics in municipalities’ salt management plans.

Realized that a reduction in salt application is possible. Use of treated salt has allowed one municipality to reduce its salt use by 45%. While treated salt is more expensive at front end, using less material, salting less often (i.e., fuel savings), will result in cost savings at year end.

Discussions with private sector businesses showed that although many have an environmental portfolio, salt was not on radar as an environmental contaminant. Also noted insurance liability issues as a reason for continued use of salt; noted that without regulation that they can do less, they will continue current practices. Proponents responded positively to information about salt and were open to continued dialogue.

LSRCA struck a “Freshwater Roundtable” made up of commercial property owners, contractors, legal and insurance reps, conservation authorities, various government agencies, etc. Roundtable provided an opportunity to further discuss current practices, existing barriers and opportunities to overcome same. A discussion paper about the barriers and possible solutions was written and agreed upon by all participants. Roundtable continuing to lobby lawmakers to change/update laws, using precedent set by State of New Hampshire. Recognized as a shared challenge by contractors, municipalities and property owners.

Looking to future – are there ways communities and parking lots can be built/developed to better adopt best practices. LSRCA has developed Design Guidelines for Parking Lots, including fact sheets, various information, templates for policies, etc. Town of Innisfil has adopted the guidelines.

Noted this is a shared challenge; have support from both formal and informal networks around Ontario. Challenge will take years to resolve.

Questions/Comments:

- Cate R. Did you come across that checkerboard of concrete and grass that would allow runoff and prevent things going where we don’t want them to with some filtration? Was that ever part of some of the potential design?
- Bill T. Not specifically the checkerboard of concrete and grass, but that idea of intercepting the flow of water is an important part of the design guidelines. We do talk about allowing water to flow off the parking lot



rather than pooling and freezing, but at the edge of the parking lot to catch it with Low Impact Development or bioretention facilities to allow it to not flush out and shock the system.

Tom K. How effective is sand and what is their liability; what is the equation?

Bill T. Extensive areas across Canada do rely only on sand. You can't really shift one material to another; think about what larger toolbox is to find the right solution to a particular challenge. Sometimes sand is the correct medium, but not all areas are conducive to the use of sand as opposed to salt. One of the challenges with sand is the increased volume, and that it ends up filling stormwater basins, affecting the amount of phosphorus in the lake.

Dave K. Has there been a movement to changing regulations to reducing parking lot size?

Bill T. The question comes up from time to time; appears to be a sensitive topic. Seasonal closing of areas of parking lots would be helpful as well; especially in January and February where there is less traffic in parking lots.

Dave K. It would be interesting to see that used during this COVID pandemic.

Lynn D. I have a couple of comments. Industry will provide people whatever it is people wants. We need to convince people what they want on their roads, shopping centers, etc. Need to educate the public, as it all boils down to public acceptance.

RESOLVED: **THAT** the presentation "Lake Simcoe Salt Reduction Strategy" be received for information.

MOVED: Geoff Allen

SECONDED: Jeff Hamelin

CARRIED



IX. 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: John Hemsted

SECONDED: Andy Campbell

CARRIED

X. DETERMINATION OF ITEMS REQUIRING SEPARATE DISCUSSIONS

There were none.

XI. OTHER BUSINESS

Julie Cayley sent some information on the Canada Water Agency. Do we discuss now or add to next agenda?

Dave R. Move discussion to next meeting.

Lynn D. Then we can circulate more information for committee to review before next meeting.

XII. Closed Session

There were no items for discussion.



XIII. Next Meeting and Adjournment

Bill T. Next meeting will be discussing the Annual Reporting which is due May first. We'll send out a Doodle Poll shortly for last week of March or first week of April.

RESOLVED: THAT SPC meeting number SPC-01-2021 on February 17, 2021 be adjourned at 3:25 p.m.

MOVED: Dave Ritchie

SECONDED: Dave Ketcheson

CARRIED

357-2021-713

March 30, 2021

Mr. Wayne Emmerson
Chairman and CEO, Regional Municipality of York
Chair, Lakes Simcoe and Couchiching/Black River Source Protection Authority
Email: wayne.emmerson@york.ca

Dear Mr. Emmerson:

Thank you for your emailed letter to Minister Yurek regarding the annual reporting requirements for source water protection under the *Clean Water Act, 2006*. I am pleased to respond on behalf of the Minister.

We value the accomplishments of source protection authorities and their municipal partners in protecting Ontario's sources of drinking water. In reviewing your most recent annual progress report, we were pleased to learn that over 230 risk management plans are already in place within the South Georgian Bay Lake Simcoe Source Protection Region.

Annual reporting for source protection fulfils several purposes including to:

- Demonstrate progress made in implementing source protection plans;
- Satisfy monitoring policy reporting obligations in local source protection plans, the *Clean Water Act, 2006* and Ontario Regulation 287/07;
- Provide compliance oversight;
- Contribute to the summary on source protection included within the Minister's annual report prepared under the *Safe Drinking Water Act, 2002*;
- Respond to requests for information; and
- Corroborate responses to any related program area audits.

Each year, the Conservation and Source Protection Branch assesses the annual reporting information and looks for ways to improve reporting. Our ministry is committed to reducing administrative burden and will look for further opportunities to address the concerns you raised, including when looking at any regulatory changes in the future.

...2

Mr. Wayne Emmerson
Page 2.

Thank you again for bringing forward your concerns and for your ongoing efforts in protecting sources of drinking water in Ontario.

Sincerely,

Keley Katona

Keley Katona
Director, Conservation and Source Protection Branch

c: Lynn Dollin, Chair, South Georgian Bay Lake Simcoe Source Protection Committee
Mariane McLeod, Chair, Nottawasaga Valley Source Protection Authority
Steffen Walma, Chair, Severn Sound Source Protection Authority



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 15, 2021

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

Since the last meeting of this Board, the Source Protection Committee has met to review the report on progress on implementing the Source Protection Plan. As with everything else, progress on plan implementation was significantly delayed by the pandemic, but the committee was pleased how much progress was made, despite the pandemic.

The Committee also reviewed technical information about a proposed new well in the Township of Clearview. These two items: monitoring progress on implementing the source protection plan and ensuring that it remains up to date as drinking water systems expand, remain major roles for the Committee.

In late February, the Chairs of all Source Protection Committees met with the Assistant Deputy Minister of the Environment Conservation and Parks, and the Director of the Conservation and Source Protection Program Branch. Similar challenges were identified by many Committee Chairs: uncertain funding for the program, workloads associated with expanding municipal drinking water systems, and the challenges that the COVID-19 pandemic is raising for committees, as well as in negotiation of Risk Management Plans.

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, 2021

Subject:

Annual Source Water Protection Progress Report

Recommendation:

That Staff Report No. 03-21-SPA regarding the 2020 Source Water Protection Annual Report to the Ministry be received; and

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

Purpose of Staff Report:

The purpose of this Staff Report No. 03-21-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 of Source Protection, Ministry of Environment, Conservation and Parks (Director).

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 (SPA) report to the Director on the implementation of all policies each year. It also requires that the Source Protection Committee (SPC) 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. Most municipalities have successfully negotiated some of their required risk management plans (RMPs). 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 89% (3157 of 3514) of existing significant drinking water threats have been mitigated through policy implementation.
- A total of 251 RMPs have been established and an estimated 119 RMPs remain to be negotiated across the Source Protection Region. Historic rates of RMP establishment suggest the July 2022 deadline is unlikely to be met. In addition, the rate of RMP negotiation in the remaining 14 months leading up to the deadline will be impacted by the COVID-19 pandemic.
- Of the estimated 2,110 round-two on-site sewage (septic) system inspections, 927 have been completed with approximately nine months remaining until the 2022 deadline.

Near the beginning of the COVID-19 outbreak in Ontario, most Risk Management Officials indicated they had a plan in place to complete their RMPs by the July 2022 deadline. For some, however, this represents a significant workload that they may not have the resources to complete. SPA staff will bring progress reports on RMP completion to each future meeting of the SPC and may request a review of the deadline once more, to account for the disruption caused by COVID-19.

The SPC noted that while it is important that Risk Management Officials continue to provide education to businesses and landowners and nurture the strong relationships that have been built over the last five years, it is essential that their safety and the safety of the public remain the priority during the pandemic. The Source Protection Committee has indicated that it is satisfied with the current rate of progress on plan implementation.

Summary:

The various implementers of the South Georgian Bay Lake Simcoe Source Protection Plan have submitted their 2020 annual reports to the SPA 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 RMPs still to be negotiated, along with historic rates of RMP establishment, suggests the July 2022 deadline is unlikely to be met. Many Risk Management Officials in our Source Protection Region are not allocated full time to that position, making progress on RMP negotiation slower than anticipated. In addition, the extent to which the COVID-19 pandemic will impact the 14 months remaining until the deadline remains uncertain.

Summary and Recommendations:

It is therefore recommended that Staff Report No. 03-21-SPA regarding the 2020 Source Water Protection Annual Report to the Ministry be received; and Further that the Annual Report be approved for submission to the Director of Source Protection, 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, 2020

Ourwatershed.ca

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Water
is life.
Protect
Yours.

Source Protection Annual Progress Report | 05/01/2021

I. Introduction

This annual progress 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 2020 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 progress score on achieving source protection plan objectives this reporting period:

- P : Progressing Well/On Target** – The majority of the source protection plan policies have been implemented and/or are progressing.

- S : Satisfactory** – Some of the source protection plan policies have been implemented and/or are progressing.

- L : Limited progress** – A few of source protection plan policies have been implemented and/or are progressing.

The COVID-19 pandemic has impacted progress made in achieving source protection plan objectives in 2020 and will continue to have an impact into the future. Despite that, all municipalities submitted their 2020 annual reports to the Source Protection Authority. Municipalities in our source protection region have processes in place to ensure their 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 89% of the 3,514 significant drinking water threats that existed at the time of source protection plan approval have been addressed through policy implementation. While 251 risk management plans (RMPs) have been established as of December 31, 2020, the rate at which RMPs are established will need to increase significantly to complete the estimated 119 outstanding RMPs by the July 2022 deadline. It will be important to evaluate progress on outstanding RMPs over the next several months while ensuring the safety of RMOs and the public remain the priority during the pandemic.

III. Our Watershed

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

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.

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 21 prescribed threats, protect sources of drinking water and monitor the progress of policy implementation.

Since the source protection plan took effect over five years ago, much has been accomplished. To date, and 100% of the legally binding policies that address significant drinking water threat activities, have been implemented (40%), are in the process of being implemented (48%), or have been evaluated and determined no further action is required (6%).

P: 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 9 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, 41 have amended or are in the process of amending their Official Plan to conform with the source protection plan for our region.

P: Progressing Well/On Target

3. Septic Inspections

Within our source protection region, 2110 septic systems are required to be inspected as part of the 5-year inspection cycle. We are currently nearing the end of the second round of inspections, which are to be completed by January 2022. To date, 927 (44%) of on-site sewage systems have been inspected in accordance with the Ontario Building Code in the second round.

P: Progressing Well/On Target

4. Risk Management Plans

251 risk management plans have been established in our source protection region as of December 31, 2020 with 19 of those being completed within the 2020 calendar year.

32 inspections have been carried out in 2020 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 will be challenging to meet the 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). For RMOs representing municipalities that have RMPs remaining, the rate of RMP establishment will need to increase.

S: 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 5 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.

P : 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 region have installed 66 drinking water protection zone signs in 2020 on municipal roads surrounding vulnerable areas, for a total of 334 signs. In addition, 14 signs have previously 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.

Penetanguishene - Robert Street West Supply Well

Issue contributing area for:

TCE

Not enough data/information available to determine changes in concentration/trend.

Brock - Cannington Well Supply - Arena Well Field

TCE

A decreasing concentration/trend has been observed.

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

An increasing concentration/trend has been observed.

Tiny Township - Georgian Sands Well Supply

Issue contributing area for:

Nitrate

An increasing concentration/trend has been observed

9. More from the Watershed

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

<http://www.ourwatershed.ca>

Education and outreach is 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 2020 the Lake Simcoe & Couchiching Black River Source Protection Authority held a virtual, interactive training session to explain the process for updating source protection plans to account for changes to a drinking water system. The training session was attended by municipal staff, consultants, and source water protection staff from outside our source protection region. The presenters used a role play exercise to walk attendees through the various stages of the s.34 amendment process and explained the responsibilities and expectations of the various parties involved.