



Source Protection Committee - MINUTES

Minutes of Meeting of the Essex Region Source Protection Committee (SPC) held on **Wednesday, April 11, 2018**, in the Essex Civic Centre, Committee Room E, 360 Fairview Avenue West, Essex, Ontario.

Members Present:	Ron Barrette	Tim Mousseau
	John Barnett	Cynthia Ouellet
	Jean-Marc Beneteau	Hans Peter Pfeifer
	Bill Dukes	Justine Taylor
	Tom Fuerth (Chair)	Mike Tudor (Health Unit Liaison)
	Antonietta Giofu	Olga Udina (MOECC Liaison)
	Dave Monk	Larry Verbeke (SPA Liaison)
		Ian Wilson

Absent: Nelson Santos

Regrets: Paul Drca Thom Hunt

Staff: Katie Stammer, Project Manager, Source Water Protection/Water Quality Scientist
Candice Kondratowicz, Administrative Associate: Corporate Services
Sam Dundas, Water Quality Technician
Brittany Hayward, Risk Management Assistant
Laura Monforton, Risk Management Official

Delegates: None

Guests: None

CALL TO ORDER

The Chair of the SPC, Tom Fuerth, called the meeting to order at 4:10PM.

CHAIRS WELCOME

Good afternoon.

Today I would like to welcome Olga Yudina our new MOECC Liaison Officer. Olga is replacing Brian Wright who was with us for a little bit of time. Also with us is Sam Dundas, ERCA's Water Quality Technician.

We are currently in the process of completing the review of the year end report which will be submitted to MOECC for May 1st.

Tim Mousseau attended the Chair's meeting in March in my absence and I will ask him to provide an update to the SPC. Mr. Mousseau advised that it was an extensive agenda along with an in camera session where Chairs were allowed to speak their concerns with problems that they have come across. There was a very good Social Media Plan presentation provided by Chitra Gowda of Conservation Ontario.

DISCLOSURE OF CONFLICT OF INTEREST

None

AGENDA

1. The Agenda for the Meeting of the Essex Region Source Protection Committee (SPC) held on Wednesday, April 11, 2018.

Resolution SPC15/18 Moved by Ron Barrette

Seconded by Ian Wilson

THAT the Agenda for the Wednesday, April 11, 2018, Meeting of the Essex Region Source Protection Committee (SPC) be approved.

- CARRIED

MINUTES

1. Minutes of the Meeting of the Source Protection Committee (SPC) held on Wednesday, February 14, 2018.

Resolution SPC16/18 Moved by David Monk

Seconded by Tim Mousseau

THAT the Minutes for the Wednesday, February 14, 2018, Meeting of the Essex Region Source Protection Committee (SPC) be approved as presented.

- CARRIED

Seconded by Bill Dukes

THAT the 2017 Essex Region Source Protection Area Annual Progress Report be submitted to the SPA on April 12, 2018 with suggested changes for endorsement by the SPA and then to MOECC on or before May 1, 2018 pending suggested changes and additions made by the SPC.

- CARRIED

2. **Report SPC 10/18** – Section 36 Workplan and 2018/19 SPC Meeting Schedule

Resolution SPC20/18 Moved by Cynthia Ouellet

Seconded by Tim Mousseau

THAT Report SPC10/18 be received for information.

- CARRIED

3. **Report SPC 11/18** – Update on Water Quality Monitoring Projects

Resolution SPC21/18 Moved by Jean-Marc Beneteau

Seconded by Ian Wilson

THAT Report SPC 11/18 be received for information.

- CARRIED

OTHER BUSINESS

1. SPC Membership – There have no applications received for the replacement of the vacant *Other* Section position on the committee that was recently vacated. Discussion must occur to determine the next steps for the SPC, whether that is a decrease in membership size or recirculating the ad to try to fill the position.

At this time, no members are wanting to step down and believe that the size of each section should remain the same. Katie reminded the SPC that it's difficult to find quorum without a full Committee.

NEW BUSINESS

None

MEETING ADJOURNMENT

Resolution SPC22/18 Moved by Tim Mousseau

Seconded by Ron Barrette

THAT the meeting be adjourned.

- CARRIED

DATE – NEXT MEETING

The next meeting of the SPC will be held in June or July 2018. Date to be confirmed.



CONCLUSION OF MEETING



Katie Stammer,
Project Manager, Source Water Protection/
Water Quality Scientist


SOURCE WATER PROTECTION 

Report 09.18

P – Progressing Well
S – Satisfactory
L – Limited progress

- Overall Score
- Implementation status of significant threat policies
- Municipal Implementation Progress
- Risk Management Plans (Part IV implementation)
- Provincial Implementation Progress

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SOURCE WATER PROTECTION 

Report 09.18

- Correction to implementation status table (Reportable 2 and Report item IV.1)

Implementation Status Category	Percentage of Plan Policies
Implemented	30%
Policy outcome(s) evaluated; no further action(s) required	
In progress/some progress made	68%
No progress made	2% (1 policy)
No information available/no response received	
No response required/not applicable	
TOTAL	100%

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SOURCE WATER PROTECTION 

Source Protection Plan Policies


P - Progressing Well (suggested)

Among the 44 policies in the Essex Region Source Protection Plan (SPP) that address significant drinking water threats, 30% are fully implemented and 68% are in progress and on target to be fully implemented within the time frame set out in the SPP. Only one policy has not yet been addressed, which is related to airplane deicer chemicals. This policy is applicable in areas where these chemicals are not used.

ERCA staff will continue to address outstanding policies and work with implementing bodies to ensure that all policies in the SPP are fully implemented in a timely manner.

(Of the remaining 6 policies, 3 are in progress and 3 are not in progress. All are non-legally binding)

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Municipal Implementation Progress

P - Progressing Well (suggested)

- Municipalities have:
 - Delegated Part IV to ERCA
 - Have screening mechanisms in place for s.59 policies
 - Completed or working on OP and ZBL updates
 - Completed or working on road sign installation

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Risk Management Plans

S – Satisfactory (suggested)

- To December 31, 2017
 - 52% of identified existing threats were addressed
 - RMPs were established for all new identified threats
 - 43 existing threats require RMP, but only 1 has been established
 - Focus has been only on fuel threats to date
 - All identified existing threats must be addressed by 2020

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Provincial Implementation Progress

S – Satisfactory (suggested)

- Provincial Ministries have:
 - Established a mechanism to screen new applications for all Provincial Instruments and have incorporated SWP into their processes
 - Are in the process of reviewing existing PIs to ensure the intent of SWP policies is met
 - In the Essex Region, 58% of identified existing provincial instruments have been reviewed. Only one was determined to be a significant drinking water threat requiring an amendment to the existing permit.
 - The remaining PIs to be reviewed are wastewater/sewage permits
 - The Province has until 2020 to address existing threats

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Overall Score - TBD by SPC

- Draft comments from SPC:

The Source Protection Committee has reviewed this report at their meeting of April 11, 2018. It is the (unanimous?) opinion of the Committee that the report accurately reflects implementation progress to date. Further, the Committee notes that continued vigilance must be maintained to ensure the targets for implementation noted in the report as 'in progress' or 'no information reported' are reasonably expected to be in compliance within the time frames expected.

It is of concern to the Committee that the review expected to be undertaken in 2018/2019 include provisions to review assumptions made in the original Assessment Report so that activities deemed to be under threat thresholds continue to be at those levels (eg e-coil from point sources).

Although blue-green algae does affect drinking water sources, the GLWQA has undertaken to address the international nature of that issue including local practices that are suspected to be contributing. The policies in the SPP related to the use of phosphorus in production environments need to be reviewed in order to reflect the expanding nature of those operations.

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Report 11.18

Surface Water Intake Protection Zones 1 & 2

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Threat vs. Issue

- There are 21 prescribed drinking water threats
 - e.g. waste disposal, sewage, agricultural applications (fertilizers, pesticides), road salt, snow storage, fuel, hazardous chemicals
- A drinking water issue is designated as such by the SPC if:
 - There is a known dangerous substance present at a surface water intake or in a well, and
 - (a) the parameter is present at a concentration that may result in the deterioration of the quality of the water for use as a source of drinking water, or
 - (b) there is a trend of increasing concentrations of the parameter and a continuation of that trend would result in the deterioration of the quality of the water for use as a source of drinking water

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Microcystin

- Microcystin was present at concentrations at or near the Maximum Allowable Concentration for drinking water
- Water treatment operators have to adjust their operations to account for harmful algae
 - e.g. increased filtration, backwashing, carbon filters, etc.
- A Technical Advisory Committee including Essex Region and TSR SPC members reviewed available data and information and determined that the following option was appropriate (See SPC report 02/14 for more information)
 - Identify microcystin as issue under the CWA ONLY. An Issues Contributing Area cannot be delineated nor SDWTs be identified within the ICA related to the Issue. To address the issue, the SPC including a monitoring policy and E&O policy.

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Why Phosphorus

- Phosphorus is a nutrient (food) that all living things need to grow

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Kingsville Leamington Nutrient Project

Sample Sites
 MCE Climate Station
 Watershed Boundary
 Greenhouse Influence
 No Greenhouses

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GLASI- PSP Wigle Creek

- ★ Ausable Bayfield/Maitland Valley CA
Garvey Glenn
Gulley Creek
- ★ Upper Thames River CA
North Medway*
North Kettle
- ★ Lower Thames Valley CA
Janette's Creek*
- ★ Essex Region CA
Wigle Creek*

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GLASI-PSP Wigle Creek

- Over \$400 000 invested in 90+ agricultural BMPs aimed at reducing phosphorus
- Monitoring and modelling are still underway

Legend
 ● grab site
 ▲ ISCO site
 ■ weather station
 ○ Edge of Field

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Watershed Report Card – Surface Water

- Average Grade Across Ontario: C
- Average Grade in the Essex Region: D-

GRADING
 A Excellent
 B Good
 C Fair
 D Poor
 E Very Poor

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Average Phosphorus in Essex Region watersheds (2010-2016)

Legend
 Sub-saturated Phosphorus
 0.0 mg/L
 0.1 mg/L
 0.2 mg/L
 0.3 mg/L
 0.4 mg/L
 0.5 mg/L
 0.6 mg/L
 0.7 mg/L
 0.8 mg/L
 0.9 mg/L
 1.0 mg/L

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