

**SOURCE PROTECTION AUTHORITY  
ON-LINE TELECONFERENCE**

**Thursday, April 16, 2020  
9:35 a.m.**

**A G E N D A**

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**CALL TO ORDER - ROLL CALL**

*The Niagara Peninsula Watershed is located on the traditional territory of Indigenous peoples dating back countless generations. We want to show our respect for their contributions and recognize the role of treaty-making in what is now Ontario.*

**1. APPROVAL OF AGENDA**

**2. DECLARATIONS OF CONFLICT OF INTEREST**

**3. APPROVAL OF MINUTES**

- a) Approval of the Minutes of the Source Protection Authority meeting dated November 20, 2019

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**4. CORRESPONDENCE**

- a) Correspondence dated February 21, 2020 from L. Vespi, Senior Project Manager, Water and Wastewater Engineering, Niagara Region RE: Notice of Filing of Environmental Assessment Addendum

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**5. DISCUSSION ITEMS**

- a) Report No. SPA-01-20 RE: 2019 Annual Progress Reporting

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**6. NEW BUSINESS**

**7. ADJOURNMENT**

**NIAGARA PENINSULA CONSERVATION AUTHORITY (NPCA)  
SOURCE PROTECTION AUTHORITY  
MEETING MINUTES**

Wednesday, November 20, 2019

9:30 a.m.

Ball's Falls Centre for Conservation

Glen Elgin Room

3292 Sixth Avenue, Jordan, ON

**NOTE:** The archived recorded meeting is available on the NPCA website. The recorded video of the Source Protection Authority meeting is not considered the official record of that meeting. The official record of the Source Protection Authority meeting shall consist solely of the Minutes approved by the Source Protection Authority Board. *NPCA Administrative By-law Section 14.5*

**MEMBERS PRESENT:**

- D. Bylsma (Chair)
- S. Beattie
- R. Brady
- B. Clark
- D. Cridland
- L. Feor
- R. Foster
- J. Hellinga
- D. Huson (Vice-Chair)
- J. Ingrao
- B. Johnson
- K. Kawall
- B. Mackenzie
- J. Metcalfe
- W. Rapley
- R. Shirton
- E. Smith
- B. Steele
- M. Woodhouse
- B. Wright

**MEMBERS ABSENT:** D. Coon-Petersen

**STAFF PRESENT:**

- G. Wood, CAO / Secretary – Treasurer
- G. Bivol, Executive Co-ordinator to the CAO/Board
- R. Bisson, Manager
- A. Christie, Acting Senior Manager, Operations and Special Projects
- M. Ferrusi, Human Resources Consultant
- L. Gagnon, Director of Corporate Services
- E. Gervais,
- N. Green,
- D. MacKenzie, Director, Watershed Management

E. Navarro, Communications Specialist  
A. Powell, Acting Manager, Strategic Initiatives  
T. Proks, Source Water Protection Co-ordinator  
G. Verkade, Manager, Information Management and Technology Systems

**OTHERS:** A. Willems, Acting Chair, Source Protection Committee

Chair Bylsma called the meeting to order at 9:32 a.m..

## **1. ADOPTION OF AGENDA**

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a) Addition of Items

There were no additional items.

b) Change in Order of Items

There were no changes in the order of agenda items.

c) Adoption of Agenda

Resolution No. SPA-14-19

Moved by Member Woodhouse

Seconded by Member Huson

**THAT** the agenda **BE ADOPTED** as presented.

**CARRIED**

## **2. DECLARATION OF CONFLICT OF INTEREST**

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There were no declarations of conflict of interest.

## **3. PRESENTATIONS (and/or Delegations)**

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a) Presentation by Thomas Proks, Source Water Protection Co-ordinator RE: Source Water Protection Overview and Future Considerations - Mr. Proks addressed questions by the Board. Discussion ensued.

Resolution No. SPA-15-19

Moved by Member Shirton

Seconded by Member Steele

**THAT** Presentation by Thomas Proks, Source Water Protection Co-ordinator RE: Source Water Protection Overview and Future Considerations **BE RECEIVED** into the record.

**CARRIED**

## **4. ADMINISTRATIVE BUSINESS**

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a) Minutes of the Source Protection Authority Board meeting dated April 17, 2019

Resolution No. SPA-16-19  
Moved by Member Clark  
Seconded by Member Foster

**THAT** the minutes of the Source Protection Authority Board meeting dated April 17, 2019 **BE ADOPTED**.

**CARRIED**

## 5. BUSINESS FOR INFORMATION

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There was no business for information.

## 6. BUSINESS FOR CONSIDERATION

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a) Report No. SPA-06-19 RE: Source Protection Committee Member's Handbook

Resolution No. SPA-17-19  
Moved by Member Steele  
Seconded by Member Shirton

1. **THAT THAT** Report No. SPA-06-19 RE: Source Protection Committee Member's Handbook **BE RECEIVED** for consideration.
2. **THAT** the Source Protection Authority **APPROVE** the updated Source Protection Committee Member's Handbook.

**CARRIED**

## 7. BUSINESS – IN CAMERA

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There was no in-camera business.

## 8. NOTICE OF MOTION

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There were no notices of motion.

## 9. NEW BUSINESS

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There was no new business.

## 10. ADJOURNMENT

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With no further business, the Source Protection Authority adopted the following motion.

Resolution No. SPA-18-19  
Moved by Member Clark  
Seconded by Member Foster

**THAT** the meeting **BE ADJOURNED** at 10:06 a.m..

**CARRIED**

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Dave Bylsma, Chair  
Niagara Peninsula Source Protection  
Authority

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D. Gayle Wood, CMM III  
Chief Administrative Officer / Secretary -  
Treasurer  
Niagara Peninsula Source Protection  
Authority

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February 21, 2020

Mr. Thomas Proks  
Source Water Protection Coordinator  
Niagara Peninsula Conservation Authority  
250 Thorold Road West, 3<sup>rd</sup> Floor  
Welland, ON L3C 3W2

Dear Mr. Proks:

**Notice of Filing of Environmental Assessment Addendum  
Municipal Class Environmental Assessment Study  
Niagara Falls Water Treatment Plant  
Raw Water Intake Relocation  
City of Niagara Falls  
Our File No.: O.01.04 99 20000464**

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Niagara Region has completed the 30-day public review of the Environmental Assessment Addendum for the Niagara Falls Water Treatment Plant Raw Water Intake Relocation. We received comments from the Niagara Peninsula Conservation Authority (NPCA) on November 14, 2019 following the review by key stakeholders and agencies of our draft EA Addendum Report. We did not receive any further comments during the public review period in November/December 2019.

We appreciate the comments received from NPCA and wanted to provide you with our intentions of the next steps. The comments were related to the significance of the timeliness of the technical work that will support the Source Water Protection Plan and Policy.

The Region will be proceeding with the design of Alternative A as stated in the EA Addendum in 2020 (pending funding from OPG). This phase of the assignment will include the technical work that will support NPCA and MECP in the development of the Source Water Protection Plan. We plan to commence the modelling and analysis shortly after award of the design, as we understand that the process can be quite lengthy (up to two (2) years).

Through partnerships with OPG, the Region is endeavouring to complete the construction activities by April 1, 2022. Several risks identified by the Region are complexity and specialty of the design and construction of the intake, as well as duration of obtaining permits and approvals, including source water protection, land acquisition and easements. We understand and have communicated that the Source Water Protection Plan and Policy must be completed and approved prior to the new intake being placed into service.



We will continue to consult with our key stakeholders, agencies and the public as the project progresses.

Should you have any questions respecting the above, please contact the undersigned at (905) 980-6000, extension 3640.

Yours truly,



Lisa Vespi, P. Eng.

Senior Project Manager, Water and Wastewater Engineering  
Water and Wastewater Services

[lisa.vespi@niagararegion.ca](mailto:lisa.vespi@niagararegion.ca)

LV/at

(#L:\ENVIRONMENTAL CENTRE\ENGINEERING\O.01 - CAPITAL PROJECTS\04 20000464 - Niagara Falls WTP Intake Relocation\1. Project Management\1. Letters & Memos\Letters\2020\2020-02-21-NPCA-Comments-Reply.Ltr.docx)

cc: Ron Tripp, P.Eng., Acting Chief Administrative Officer/Commissioner of Public Works  
Horia Ispas, P.Eng., PMP® Project Manager, Environmental Infrastructure Solutions Inc.

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**REPORT TO:** Source Protection Authority

**SUBJECT:** 2019 Annual Progress Reporting

**REPORT NO:** SPA-01-20

**DATE:** April 16, 2020

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**RECOMMENDATION:**

1. That the Source Protection Authority for the Niagara Peninsula Source Protection Area (NPSPA) **RECEIVE FOR CONSIDERATION** the following documents:

a. NPSPA 2019 Annual Progress Report;

- This report concludes that the Source Protection Plan is progressing well and that all the policies are implemented.
- This report is designed for the public and is intended to be posted on the NPSPA website.

b. NPSPA 2019 Implementation Status Report;

- This report displays each policy within the Source Protection Plan and its status of implementation.

c. NPSPA 2019 Implementation Status Summary; and

- This report displays a summary of total policy implementation status in the NPSPA.

d. NPSPA 2019 Supplemental Form.

- This report displays all the detailed information required by the Ministry of the Environment, Conservation and Parks as it pertains to 2019 annual progress reporting and Source Protection Plan implementation.

These reports were presented to the Source Protection Committee for review at their recent March 2020 teleconference meeting. **The Source Protection Committee approved the information in these documents.** Their comments were incorporated into the attached draft final reports.

2. That the Source Protection Authority **APPROVE** that the aforementioned documents be submitted to the Ministry of the Environment, Conservation and Parks to meet the legislated reporting requirements; and
3. That the NPSPA 2019 Annual Progress Report be **POSTED** on the Niagara Peninsula Source Protection Area website.

**PURPOSE:**

The 2019 Drinking Water Source Protection Annual Report documents are prepared using the Electronic Annual Reporting tool provided by the Ministry of Environment, Conservation and Parks. These documents are required under the Clean Water Act to summarize progress made in implementing the Source Protection Plan for 2019. These documents, once approved by both the Source Protection Committee and the Source Protection Authority, are then required to be submitted to the Ministry of the Environment, Conservation and Parks by May 1, 2020.



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## **BACKGROUND:**

The Clean Water Act requires that implementing bodies, such as municipalities and the Ministry of the Environment, Conservation and Parks, report annually on the implementation of policies within the Source Protection Plan. Implementers provided this information to the Source Protection Authority staff by a combination of methods including email, phone and by interview.

The goal of annual reporting is to track and advise the public that the implementation of Source Protection Plans and their respective policies are protecting Ontario's municipal drinking water sources.

The requirement for annual progress reporting is established in the Clean Water Act. The Source Protection Authority is required to report using the Electronic Annual Reporting tool provided by the Ministry of the Environment, Conservation and Parks. Through the Electronic Annual Reporting tool, staff of the Source Protection Authority answer questions related to the implementation of the Source Protection Plan policies and then generate the following documents:

- I. NPSPA 2019 Annual Progress Report – a report which is designed for the public and is to be posted on the Niagara Peninsula Source Protection Area website. It summarizes the progress made with respect to the implementation of the Source Protection Plan;
- II. NPSPA 2019 Implementation Status Report – a report which displays the status of each policy within the Source Protection Plan and its status of implementation;
- III. NPSPA 2019 Implementation Status Summary – a report which displays a summary of total policy implementation within the Niagara Peninsula Source Protection Area
- IV. NPSPA 2019 Supplemental Form – a report which contains all of the detailed information required by the Ministry of the Environment, Conservation and Parks as it pertains to 2019 Drinking Water Source Protection Annual Progress Reporting.

The completed reports are due to the Ministry of the Environment, Conservation and Parks by May 1, 2020, after which the NPSPA 2019 Annual Progress Report is to be made available to the public.

## **SUMMARY:**

In summary, 2019 Annual Progress Reporting for the Niagara Peninsula Source Protection Area is progressing well. All the policies are now implemented, and all significant drinking water threats are addressed. For reference, the NPSPA 2019 Implementation Status Report provides the rationale behind how each policy within the Source Protection Plan is being implemented.

These reports were presented to the Source Protection Committee for review at their recent March 2020 teleconference meeting. The Source Protection Committee received and approved the information in these documents. Their comments were incorporated into the attached draft final reports. The Source Protection Committee states that based on the information provided all of the threats have been addressed and all of the policies are implemented. At the Source Protection Committee meeting it was indicated that for those not familiar with the Source Protection Plan policies, a copy of the policy wording should be provided. The policy descriptions are provided as an attachment to this report.

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**RELATED REPORTS AND APPENDICES:**

1. NPSPA 2019 Annual Progress Report
2. NPSPA 2019 Implementation Status Report
3. NPSPA 2019 Implementation Status Summary
4. NPSPA 2019 Supplemental Form
5. Policy Descriptions

**Prepared by:**

**Reviewed By:**

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**Thomas Proks, P.Geo.  
Source Water Protection Coordinator**

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**Darren MacKenzie, C.Tech., rsci  
Director, Watershed Management**

**Submitted by:**

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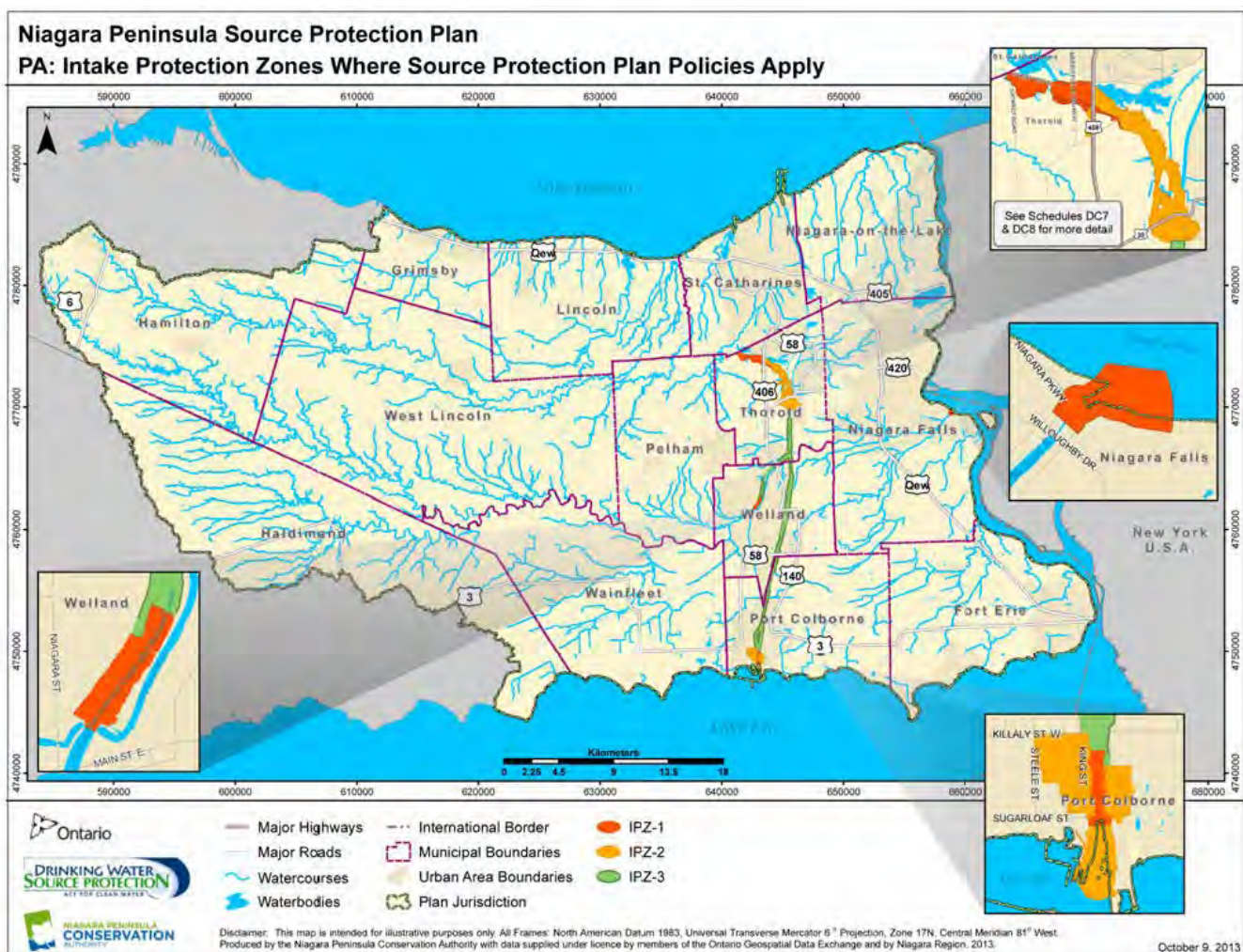
**Chandra Sharma, MCIP, RPP  
CAO/Secretary-Treasurer**

## Source Protection Annual Progress Report

### I. Introduction

This annual progress report outlines the progress made in implementing our source protection plan for the Niagara Peninsula Source Protection Area, as required by the Clean Water Act and regulations.

The Niagara Peninsula Source Protection Plan was completed and approved by the province in December 2013. The Niagara Peninsula Source Protection Plan came into effect October 2014. The Plan is entirely implemented. The Source Protection Committee is now focused on updating and improving the Source Protection Plan.



## II. A message from your local Source Protection Committee

- ☒ **P : Progressing Well/On Target – The majority of the source protection plan policies have been implemented and/or are progressing.**
- ☐ 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 Source Protection Committee states that based on the information provided that all of the threats have been addressed and all of the policies are implemented.

### III. Our Watershed

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

The Niagara Peninsula Source Protection Area overlies the same jurisdiction as the Niagara Peninsula Conservation Authority. With an area of 2,430 square kilometers and over 450,000 residents, it is comprised of three major drainage areas; Lake Ontario, Lake Erie, and Niagara River (including Welland River) drainage areas. NPCA contains over 180 watersheds within these drainage areas, and 117 kilometers of Great Lakes shoreline.

NPCA is marked by several prominent physiographic features that have had a major effect on development in the area. These features include the Niagara Escarpment which runs east-west across the peninsula, the relatively flat Haldimand Clay Plain which dominates the central portion of the watershed, the Iroquois Shore Sand Plain along Lake Ontario, the Fonthill Kame-Delta Complex which contains the highest point in the peninsula, and the Onondaga Escarpment which runs east-west across the peninsula just north of the Lake Erie shoreline and is of relatively low topographical relief.

The soils in the large central portion of the peninsula are dominated by clays, silty clays, and silty clay loams, characteristic of the Haldimand Clay Plain. Sands and sandy loams are found extensively along the Lake Ontario shoreline. Wetlands include bogs, fens, swamps, and marshes and encompassing almost 10% of the watershed.

Land uses can have a significant impact on the water quality and quantity. Approximately 64% is agricultural, and about 21% is rural wooded or natural. The remaining 15% is considered urban. The main urban centres include St. Catharines, Niagara Falls, and Welland. Urban growth is expected to be greatest along the Welland Canal corridor particularly in the southern portion of the peninsula.

There are six municipal water treatment plants with surface water intakes which supply over 80% of the population. There are no municipal wells. The six water treatment plants that supply municipal drinking water to residents are: Welland, DeCew Falls, Port Colborne, Niagara Falls, Grimsby and Rosehill (Fort Erie). Only Grimsby is on Lake Ontario, the remainder are on Lake Erie or a connecting channel (Welland Canal or Niagara River).

Vulnerable areas known as Intake Protection Zones (IPZs) were delineated around each municipal water treatment plant intake. The source protection program focused on drinking water threats within these IPZs. Existing and potential future threats within these IPZs were ranked and significant threats identified for policy action under the Source Protection Plan. The Source Protection Committee chose also to include transportation, storage and handling of diesel and gasoline along the Welland Canal as significant drinking water threats requiring addressing under the Source Protection Plan.

The Source Protection Plan contains policies to address significant drinking water threats for four water treatment plants, Welland, DeCew Falls, Port Colborne and Niagara Falls. No significant drinking water threats were determined for Grimsby or Rosehill (Fort Erie).

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

### 1. Source Protection Plan Policies

P : Progressing Well/On Target

All of the policies (100%) that address significant drinking water threats have been implemented in accordance with the time lines set out in our source protection plan.

### 2. Municipal Progress: Addressing Risks on the Ground

There are a total of three (3) lower tier municipalities and one (1) upper-tier municipality in the source protection area that have vulnerable areas where significant drinking water threats apply. All three (3) of the lower tier municipalities (City of Thorold, City of Port Colborne, and City of Niagara Falls) have completed their Official Plan and Zoning By-law conformity exercises. The upper-tier municipality (Regional Municipality of Niagara) has also updated their Official Plan conformity exercise, however, the upper-tier municipality has no Zoning By-laws.



### 3. Septic Inspections

Not applicable to our source protection area.

### 4. Risk Management Plans

P : - Progressing Well/On Target

Since 2016, the Risk Management Official was able to dismiss 9 of the 24 potentially significant drinking water threats in the vicinity of the DeCew Falls IPZs identified in the Assessment Report. The remaining 15 significant drinking water threats are being managed under the required risk management plans.

## 5. Provincial Progress: Addressing Risks on the Ground

Several Ministries in Ontario are reviewing applications for new or amended and previously issued provincial approvals (e.g., Environmental Compliance Approvals issued 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 source water. The provincial approvals are either being issued, denied, amended, or revoked, where necessary to conform with plan policies in Niagara. The original policies written in Niagara provided a timeline of 3 years to complete the review and make any necessary changes to previously issued approvals. Any new or amended provincial approvals need to adhere to the Source Protection Plan policies since it took effect in October 2014. 100% of previously issued provincial approvals in the Niagara Peninsula Source Protection Area have been reviewed. In 2019, a single prescribed instrument application that may be subject to significant drinking water threat policies was reviewed for the category of Wastewater/Sewage Works. No action was required for the single prescribed instrument application.

## 6. Source Protection Awareness and Change in Behaviour

Twenty-three (23) drinking water protection zone signs have been installed in our source protection area along municipal and regional roads that are in close proximity to intake protection zones. Community engagement and outreach continue to have a positive impact in our source protection region through programs like Yellow Fish Road™ and the Children's Water Festival.

Other positive impacts include the consideration that is given to vulnerable areas within the Niagara Peninsula Source Protection Area including Intake Protection Zones and Highly Vulnerable Aquifers.

## 7. Source Protection Plan Policies: Summary of Delays

Not applicable to our source protection area.

## 8. Source Water Quality: Monitoring and Actions

Not applicable.

## 9. Science-based Assessment Reports: Work Plans

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

## 10. More from the Watershed

Future 2020 source water protection activities include:

- Yellow Fish Road education and outreach within the City of Niagara Falls and the City of Port Colborne and at the Niagara Children's Water Festival
- Implementation of the work plan to update the Source Protection Plan to address: (i) required municipal updates and (ii) improving municipal supply protection
- Upcoming changes to municipal drinking water intakes and infrastructure projects near vulnerable areas.



ere

Port Colborne Intake (upstream)



Niagara River  
Upstream of Niagara Falls Intake



Welland Intake



DeCew Intake Building



# Source Water Protection Annual Report

## 2019 - Policy Implementation Status

### SPR - Niagara Peninsula

**Implementing Body**      **Municipality**  
**Policy Id**                DC-1  
**Legal Effect**            Conform with  
**Risk**                        Significant,  
**Agency**                 Municipality

**Policy Tool**            Land Use Planning Approaches  
**Threat Type**           Future

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    Official Plan and Zoning By-Law have been updated, ECA are no longer issued where septage is a significant threat.

**Implementing Body**      **St. Lawrence Seaway Management Corporation**  
**Policy Id**                DC-10  
**Legal Effect**            Strategic  
**Risk**                        Significant,  
**Agency**                 St. Lawrence Seaway Management Corporation

**Policy Tool**            Specify Actions to be taken to implement plan or achieve its objectives  
**Threat Type**           Future & Existing

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    SLSMC has incorporated maps into their Emergency Response Plans, Emergency Response Plans communications protocols updated.

**Implementing Body**      **Transport Canada**  
**Policy Id**                DC-10  
**Legal Effect**            Strategic  
**Risk**                        Significant,  
**Agency**                 Transport Canada

**Policy Tool**            Specify Actions to be taken to implement plan or achieve its objectives  
**Threat Type**           Future & Existing

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    Same as above.



# Source Water Protection Annual Report 2019 - Policy Implementation Status

**Implementing Body** St. Lawrence Seaway Management Corporation  
**Policy Id** DC-11  
**Legal Effect** Strategic  
**Risk** Significant,  
**Agency** St. Lawrence Seaway Management Corporation

**Policy Tool**  
**Threat Type**

Specify Actions to be taken to implement plan or achieve its objectives  
Future & Existing

**Implementation Status:** Implemented

**Completed:** True

**Response:** Regulation SOR/2008-197 is SLSMC protocol.

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**Implementing Body** Municipality  
**Policy Id** DC-2  
**Legal Effect** Conform with  
**Risk** Significant,  
**Agency** Municipality

**Policy Tool**  
**Threat Type**

Land Use Planning Approaches  
Future

**Implementation Status:** Implemented

**Completed:** True

**Response:** Official Plan and Zoning By-Law have been updated, process in place to ensure policy requirements are met.

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**Implementing Body** Municipality  
**Policy Id** DC-3  
**Legal Effect** Conform with  
**Risk** Significant,  
**Agency** Municipality

**Policy Tool**  
**Threat Type**

Land Use Planning Approaches  
Future

**Implementation Status:** Implemented

**Completed:** True

**Response:** Official Plan and Zoning By-Law have been updated.

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# Source Water Protection Annual Report 2019 - Policy Implementation Status

**Implementing Body**      **Risk Management Official**  
**Policy Id**                DC-4  
**Legal Effect**            Conform with  
**Risk**                        Significant,  
**Agency**                Risk Management Official

**Policy Tool**              Section 58 Risk Management Plans  
**Threat Type**            Future

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    Two parcels are residential and exempt, RMP for two parcels are signed, 1 parcel is mitigated through engineered solution, last 3 parcels have had implementation of RMP ordered through RMO in 2019.

**Implementing Body**      **Risk Management Official**  
**Policy Id**                DC-4  
**Legal Effect**            Conform with  
**Risk**                        Significant,  
**Agency**                Risk Management Official

**Policy Tool**              Section 58 Risk Management Plans  
**Threat Type**            Existing

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    Same as above.

**Implementing Body**      **Municipality**  
**Policy Id**                DC-5  
**Legal Effect**            Conform with  
**Risk**                        Significant,  
**Agency**                Municipality

**Policy Tool**              Section 59 Restricted Land Uses  
**Threat Type**            Future & Existing

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    RMO is in place, Region of Niagara has a screening checklist. For Thorold, the Official Plan was revised and the Zoning By-Law was updated in 2018.



# Source Water Protection Annual Report 2019 - Policy Implementation Status

**Implementing Body**      **Municipality**  
**Policy Id**                DC-6  
**Legal Effect**            Strategic  
**Risk**                      Significant,  
**Agency**                Municipality

**Policy Tool**            Education / Outreach  
**Threat Type**          Future & Existing

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    RMO Outreach and Education in coordination with landowner contacts

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**Implementing Body**      **Municipality**  
**Policy Id**                DC-8  
**Legal Effect**            Conform with  
**Risk**                      Non Specific,  
**Agency**                Municipality

**Policy Tool**            Education / Outreach  
**Threat Type**          Future & Existing

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    Road signs have been installed in Thorold and on Hwy 406.

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**Implementing Body**      **Municipality**  
**Policy Id**                DC-9  
**Legal Effect**            Conform with  
**Risk**                      Significant,  
**Agency**                Municipality

**Policy Tool**            Specify Actions to be taken to implement plan or achieve its objectives  
**Threat Type**          Future & Existing

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    Emergency Response Plans have been updated.

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# Source Water Protection Annual Report 2019 - Policy Implementation Status

**Implementing Body**      **Municipality**  
**Policy Id**                NF-1  
**Legal Effect**            Conform with  
**Risk**                        Significant,  
**Agency**                Municipality

**Policy Tool**              Land Use Planning Approaches  
**Threat Type**            Future

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    Official Plan and Zoning By-Law have been updated, ECA are no longer issued where septage is a significant threat.

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**Implementing Body**      **Municipality**  
**Policy Id**                NF-2  
**Legal Effect**            Conform with  
**Risk**                        Significant,  
**Agency**                Municipality

**Policy Tool**              Land Use Planning Approaches  
**Threat Type**            Future

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    Official Plan and Zoning By-Law have been updated, process in place to ensure policy requirements are met.

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**Implementing Body**      **Municipality**  
**Policy Id**                NF-3  
**Legal Effect**            Conform with  
**Risk**                        Significant,  
**Agency**                Municipality

**Policy Tool**              Land Use Planning Approaches  
**Threat Type**            Future

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    Official Plan and Zoning By-Law have been updated

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# Source Water Protection Annual Report 2019 - Policy Implementation Status

**Implementing Body** Conservation Authority  
**Policy Id** NF-4  
**Legal Effect** Conform with  
**Risk** Significant,  
**Agency** Conservation Authority

**Policy Tool** Education / Outreach  
**Threat Type** Future & Existing

**Implementation Status:** Implemented

**Completed:** True

**Response:** Through Yellow Fish Road program at Children's Water Festival.

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**Implementing Body** Municipality  
**Policy Id** NF-5  
**Legal Effect** Conform with  
**Risk** Significant,  
**Agency** Municipality

**Policy Tool** Land Use Planning Approaches  
**Threat Type** Future

**Implementation Status:** Implemented

**Completed:** True

**Response:** Official Plan and Zoning By-law have been updated.

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**Implementing Body** Municipality  
**Policy Id** NF-7  
**Legal Effect** Conform with  
**Risk** Non Specific,  
**Agency** Municipality

**Policy Tool** Education / Outreach  
**Threat Type** Future & Existing

**Implementation Status:** Implemented: Policy outcome(s) evaluated - No further action(s) required

**Completed:** True

**Response:** No arterial roads in Niagara Falls IPZ for road sign placement, possibly install signs after IPZ moves with Sec 36 update. MTO/MECP implemented.

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# Source Water Protection Annual Report 2019 - Policy Implementation Status

**Implementing Body**      **Municipality**  
**Policy Id**                PC-1  
**Legal Effect**            Conform with  
**Risk**                        Significant,  
**Agency**                Municipality

**Policy Tool**            Land Use Planning Approaches  
**Threat Type**           Future

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    Official Plan and Zoning By-Law have been updated, MECP standards in place to protect against significant threats

**Implementing Body**      **Municipality**  
**Policy Id**                PC-10  
**Legal Effect**            Conform with  
**Risk**                        Significant,  
**Agency**                Municipality

**Policy Tool**            Education / Outreach  
**Threat Type**           Future & Existing

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    Niagara Snow School, Smart about Salt training and communications.

**Implementing Body**      **St. Lawrence Seaway Management Corporation**  
**Policy Id**                PC-11  
**Legal Effect**            Strategic  
**Risk**                        Significant,  
**Agency**                St. Lawrence Seaway Management Corporation

**Policy Tool**            Specify Actions to be taken to implement plan or achieve its objectives  
**Threat Type**           Future

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    No new open road salt storage areas as per policy.

# Source Water Protection Annual Report 2019 - Policy Implementation Status

**Implementing Body** Risk Management Official  
**Policy Id** PC-13  
**Legal Effect** Conform with  
**Risk** Significant,  
**Agency** Risk Management Official

**Policy Tool** Section 57 Prohibition  
**Threat Type** Future

**Implementation Status:** Implemented

**Completed:** True

**Response:** Through updated Official Plan and Zoning By-Law

**Implementing Body** St. Lawrence Seaway Management Corporation  
**Policy Id** PC-14  
**Legal Effect** Strategic  
**Risk** Significant,  
**Agency** St. Lawrence Seaway Management Corporation

**Policy Tool** Specify Actions to be taken to implement plan or achieve its objectives  
**Threat Type** Future

**Implementation Status:** Implemented

**Completed:** True

**Response:** No plans for National Airport on SLSMC lands

**Implementing Body** Municipality  
**Policy Id** PC-15  
**Legal Effect** Conform with  
**Risk** Significant,  
**Agency** Municipality

**Policy Tool** Land Use Planning Approaches  
**Threat Type** Future

**Implementation Status:** Implemented

**Completed:** True

**Response:** Official Plan and Zoning By-Law have been updated, ECA are no longer issued where septage is a significant threat.

# Source Water Protection Annual Report 2019 - Policy Implementation Status

**Implementing Body**      **Municipality**  
**Policy Id**                PC-17  
**Legal Effect**            Conform with  
**Risk**                      Significant,  
**Agency**                Municipality

**Policy Tool**            Land Use Planning Approaches  
**Threat Type**           Future

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    Regional Official Plan and Zoning By-Laws updated.

**Implementing Body**      **Municipality**  
**Policy Id**                PC-18  
**Legal Effect**            Conform with  
**Risk**                      Significant,  
**Agency**                Municipality

**Policy Tool**            Specify Actions to be taken to implement plan or achieve its objectives  
**Threat Type**           Future & Existing

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    Through updated Official Plan and through Port Colborne's Storm Sewer Infrastructure Needs System (SSINS)

**Implementing Body**      **Conservation Authority**  
**Policy Id**                PC-19  
**Legal Effect**            Conform with  
**Risk**                      Significant,  
**Agency**                Conservation Authority

**Policy Tool**            Education / Outreach  
**Threat Type**           Future & Existing

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    Through Yellow Fish Road program.

# Source Water Protection Annual Report 2019 - Policy Implementation Status

**Implementing Body** St. Lawrence Seaway Management Corporation  
**Policy Id** PC-2  
**Legal Effect** Strategic  
**Risk** Significant,  
**Agency** St. Lawrence Seaway Management Corporation

**Policy Tool**  
**Threat Type**

Specify Actions to be taken to implement plan or achieve its objectives  
Future

**Implementation Status:** Implemented

**Completed:** True

**Response:** No new waste disposal sites located on Welland Canal Lands.

**Implementing Body** Municipality  
**Policy Id** PC-20  
**Legal Effect** Conform with  
**Risk** Significant,  
**Agency** Municipality

**Policy Tool**  
**Threat Type**

Land Use Planning Approaches  
Future

**Implementation Status:** Implemented

**Completed:** True

**Response:** Official Plan and Zoning By-Law have been updated, process in place to ensure policy requirements are met.

**Implementing Body** St. Lawrence Seaway Management Corporation  
**Policy Id** PC-21  
**Legal Effect** Strategic  
**Risk** Significant,  
**Agency** St. Lawrence Seaway Management Corporation

**Policy Tool**  
**Threat Type**

Specify Actions to be taken to implement plan or achieve its objectives  
Future

**Implementation Status:** Implemented

**Completed:** True

**Response:** No new sewer installations/discharges according to SLSMC

# Source Water Protection Annual Report 2019 - Policy Implementation Status

**Implementing Body** Municipality  
**Policy Id** PC-22  
**Legal Effect** Conform with  
**Risk** Significant,  
**Agency** Municipality

**Policy Tool** Land Use Planning Approaches  
**Threat Type** Future

**Implementation Status:** Implemented

**Completed:** True

**Response:** Official Plan and Zoning By-Law have been updated.

**Implementing Body** St. Lawrence Seaway Management Corporation  
**Policy Id** PC-23  
**Legal Effect** Strategic  
**Risk** Significant,  
**Agency** St. Lawrence Seaway Management Corporation

**Policy Tool** Specify Actions to be taken to implement plan or achieve its objectives  
**Threat Type** Future

**Implementation Status:** Implemented

**Completed:** True

**Response:** No new agricultural activities according to SLSMC.

**Implementing Body** Risk Management Official  
**Policy Id** PC-25  
**Legal Effect** Conform with  
**Risk** Significant,  
**Agency** Risk Management Official

**Policy Tool** Section 58 Risk Management Plans  
**Threat Type** Future

**Implementation Status:** Implemented

**Completed:** True

**Response:** Risk Management Official in place, no existing threats.

# Source Water Protection Annual Report 2019 - Policy Implementation Status

**Implementing Body** Risk Management Official  
**Policy Id** PC-25  
**Legal Effect** Conform with  
**Risk** Significant,  
**Agency** Risk Management Official

**Policy Tool** Section 58 Risk Management Plans  
**Threat Type** Existing

**Implementation Status:** Implemented

**Completed:** True

**Response:** Risk Management Official in place, no existing threats.

**Implementing Body** Municipality  
**Policy Id** PC-26  
**Legal Effect** Conform with  
**Risk** Significant,  
**Agency** Municipality

**Policy Tool** Section 59 Restricted Land Uses  
**Threat Type** Future & Existing

**Implementation Status:** Implemented

**Completed:** True

**Response:** RMO is in place, Region of Niagara has a screening checklist. For Port Colborne, the Official Plan was revised and the Zoning By-Law was updated in 2018.

**Implementing Body** St. Lawrence Seaway Management Corporation  
**Policy Id** PC-27  
**Legal Effect** Strategic  
**Risk** Significant,  
**Agency** St. Lawrence Seaway Management Corporation

**Policy Tool** Specify Actions to be taken to implement plan or achieve its objectives  
**Threat Type** Future & Existing

**Implementation Status:** Implemented

**Completed:** True

**Response:** SLSMC has existing protocols concerning pesticide application.



# Source Water Protection Annual Report 2019 - Policy Implementation Status

**Implementing Body**      **Municipality**  
**Policy Id**                PC-28  
**Legal Effect**            Conform with  
**Risk**                      Non Specific,  
**Agency**                Municipality

**Policy Tool**            Education / Outreach  
**Threat Type**           Future & Existing

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    10 Road signs installed in Port Colborne on various roads with IPZ-1 and IPZ-2.

**Implementing Body**      **Municipality**  
**Policy Id**                PC-29  
**Legal Effect**            Strategic  
**Risk**                      Low, Moderate,  
**Agency**                Municipality

**Policy Tool**            Education / Outreach  
**Threat Type**           Existing

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    Through Niagara Snow School, Smart about Salt training and communications.

**Implementing Body**      **Municipality**  
**Policy Id**                PC-30  
**Legal Effect**            Conform with  
**Risk**                      Significant,  
**Agency**                Municipality

**Policy Tool**            Specify Actions to be taken to implement plan or achieve its objectives  
**Threat Type**           Future & Existing

**Implementation Status:**   Implemented

**Completed:**      True

**Response:**    Emergency Response Plans have been updated.

# Source Water Protection Annual Report 2019 - Policy Implementation Status

**Implementing Body** St. Lawrence Seaway Management Corporation  
**Policy Id** PC-31  
**Legal Effect** Strategic  
**Risk** Significant,  
**Agency** St. Lawrence Seaway Management Corporation

**Policy Tool**  
**Threat Type**

Specify Actions to be taken to implement plan or achieve its objectives  
Future & Existing

**Implementation Status:** Implemented

**Completed:** True

**Response:** SLSMC have incorporated the maps into their ERP

**Implementing Body** Transport Canada  
**Policy Id** PC-31  
**Legal Effect** Strategic  
**Risk** Significant,  
**Agency** Transport Canada

**Policy Tool**  
**Threat Type**

Specify Actions to be taken to implement plan or achieve its objectives  
Future & Existing

**Implementation Status:** Implemented

**Completed:** True

**Response:** ERP communications protocol updated.

**Implementing Body** St. Lawrence Seaway Management Corporation  
**Policy Id** PC-32  
**Legal Effect** Strategic  
**Risk** Significant,  
**Agency** St. Lawrence Seaway Management Corporation

**Policy Tool**  
**Threat Type**

Specify Actions to be taken to implement plan or achieve its objectives  
Future & Existing

**Implementation Status:** Implemented

**Completed:** True

**Response:** Boom anchors have been installed.

# Source Water Protection Annual Report 2019 - Policy Implementation Status

**Implementing Body** Risk Management Official  
**Policy Id** PC-5  
**Legal Effect** Conform with  
**Risk** Significant,  
**Agency** Risk Management Official

**Policy Tool** Section 58 Risk Management Plans  
**Threat Type** Future

**Implementation Status:** Implemented

**Completed:** True

**Response:** Risk Management Official in place, no existing threats.

**Implementing Body** Municipality  
**Policy Id** PC-6  
**Legal Effect** Conform with  
**Risk** Significant,  
**Agency** Municipality

**Policy Tool** Section 59 Restricted Land Uses  
**Threat Type** Future & Existing

**Implementation Status:** Implemented

**Completed:** True

**Response:** RMO is in place, Region of Niagara has a screening checklist. For Port Colborne, the Official Plan was revised and the Zoning By-Law was updated in 2018.

**Implementing Body** St. Lawrence Seaway Management Corporation  
**Policy Id** PC-7  
**Legal Effect** Strategic  
**Risk** Significant,  
**Agency** St. Lawrence Seaway Management Corporation

**Policy Tool** Specify Actions to be taken to implement plan or achieve its objectives  
**Threat Type** Future & Existing

**Implementation Status:** Implemented

**Completed:** True

**Response:** Pesticides not stored on SLSMC lands as per SPP policy.

# Source Water Protection Annual Report 2019 - Policy Implementation Status

**Implementing Body**      **Municipality**  
**Policy Id**                PC-8  
**Legal Effect**            Conform with  
**Risk**                        Significant,  
**Agency**                Municipality

**Policy Tool**              Land Use Planning Approaches  
**Threat Type**            Future

**Implementation Status:**    Implemented

**Completed:**    True

**Response:**    Official Plan and Zoning By-Law have been updated

**Implementing Body**      **Municipality**  
**Policy Id**                PC-9  
**Legal Effect**            Conform with  
**Risk**                        Significant,  
**Agency**                Municipality

**Policy Tool**              Land Use Planning Approaches  
**Threat Type**            Future

**Implementation Status:**    Implemented

**Completed:**    True

**Response:**    Official Plan and Zoning By-Law have been updated

**Implementing Body**      **Municipality**  
**Policy Id**                WL-1  
**Legal Effect**            Conform with  
**Risk**                        Non Specific,  
**Agency**                Municipality

**Policy Tool**              Education / Outreach  
**Threat Type**            Future & Existing

**Implementation Status:**    Implemented

**Completed:**    True

**Response:**    Signs on Hwy 406 installed (MECP/MTO), Niagara Region signs going up in 2019, Welland does not have any arterial roads within the IPZ for signs to be installed on.

# Source Water Protection Annual Report 2019 - Policy Implementation Status

|                               |   |                    |   |
|-------------------------------|---|--------------------|---|
| <b>Implementing Body</b>      | <b>Municipality</b>                         |                    |   |
| <b>Policy Id</b>              | WL-2  | <b>Policy Tool</b> | Specify Actions to be taken to implement plan or achieve its objectives |
| <b>Legal Effect</b>           | Conform with                                | <b>Threat Type</b> | Future & Existing   |
| <b>Risk</b>                   | Significant,                                |                    |   |
| <b>Agency</b>                 | Municipality                                |                    |   |
| <b>Implementation Status:</b> | Implemented                                 | <b>Completed:</b>  | True  |
| <b>Response:</b>              | Emergency Response Plans have been updated. |                    |   |

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|                               |   |                    |   |
|-------------------------------|---|--------------------|---|
| <b>Implementing Body</b>      | <b>St. Lawrence Seaway Management Corporation</b> |                    |   |
| <b>Policy Id</b>              | WL-3  | <b>Policy Tool</b> | Specify Actions to be taken to implement plan or achieve its objectives |
| <b>Legal Effect</b>           | Strategic   | <b>Threat Type</b> | Future & Existing   |
| <b>Risk</b>                   | Significant,                                      |                    |   |
| <b>Agency</b>                 | St. Lawrence Seaway Management Corporation        |                    |   |
| <b>Implementation Status:</b> | Implemented                                       | <b>Completed:</b>  | True  |
| <b>Response:</b>              | SLSMC have incorporated maps into their ERPs      |                    |   |

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|                               |                         |                    |   |
|-------------------------------|-------------------------|--------------------|---|
| <b>Implementing Body</b>      | <b>Transport Canada</b> |                    |   |
| <b>Policy Id</b>              | WL-3                    | <b>Policy Tool</b> | Specify Actions to be taken to implement plan or achieve its objectives |
| <b>Legal Effect</b>           | Strategic               | <b>Threat Type</b> | Future & Existing   |
| <b>Risk</b>                   | Significant,            |                    |   |
| <b>Agency</b>                 | Transport Canada        |                    |   |
| <b>Implementation Status:</b> | Implemented             | <b>Completed:</b>  | True  |
| <b>Response:</b>              | ERPs have been updated. |                    |   |

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# Source Water Protection Annual Report 2019 - Policy Implementation Status

**Implementing Body** St. Lawrence Seaway Management Corporation  
**Policy Id** WL-4  
**Legal Effect** Strategic  
**Risk** Significant,  
**Agency** St. Lawrence Seaway Management Corporation

**Policy Tool**  
**Threat Type**

Specify Actions to be taken to implement plan or achieve its objectives  
Future & Existing

**Implementation Status:** Implemented

**Completed:** True

**Response:** Regulation SOR/2008-197 is SLSMC protocol.

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# Source Water Protection Annual Report 2019 - Policy Implementation Status Summary SPR - Niagara Peninsula

## Implementation Status - Significant Legally Binding Policies

| Implementation Status Category      | Count of Plan Policies | Percent of Plan Policies |
|-------------------------------------|------------------------|--------------------------|
| Implemented                         | 45                     | 92 %                     |
| No response required/not applicable | 4                      | 8 %                      |
| <b>TOTAL</b>                        | <b>49</b>              | <b>100 %</b>             |





# Source Water Protection Annual Report 2019 - Policy Implementation Status Summary SPR - Niagara Peninsula

## Implementation Status - Significant Non Legally Binding Policies

| Implementation Status Category | Count of Plan Policies | Percent of Plan Policies |
|--------------------------------|------------------------|--------------------------|
| Implemented                    | 22                     | 100 %                    |
| <b>TOTAL</b>                   | <hr/> 22               | <hr/> 100 %              |



# Source Water Protection Annual Report 2019 - Policy Implementation Status Summary SPR - Niagara Peninsula

## Implementation Status - Moderate/Low Policies

### Implementation Status Category

Implemented

**TOTAL**

| Count of Plan Policies | Percent of Plan Policies |
|------------------------|--------------------------|
| 2                      | 100 %                    |
| <hr/> 2                | <hr/> 100 %              |



# Source Water Protection Annual Report 2019 - Policy Implementation Status Summary SPR - Niagara Peninsula

## Implementation Status – Non-threat specific policies

### Implementation Status Category

Implemented

**TOTAL**

| Count of Plan Policies | Percent of Plan Policies |
|------------------------|--------------------------|
| 4                      | 100 %                    |
| <hr/> 4                | <hr/> 100 %              |



# **Source Water Protection Annual Report 2019 - Policy Implementation Status Summary SPR - Niagara Peninsula**



# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Niagara Peninsula

| Report Id   | Completed | Question   |               |
|---|-----------|--|---------------|
| 10  | True      | As applicable to your source protection region/area, indicate if all relevant implementing bodies submitted a status update/annual report to the source protection authority for the previous reporting year. If "No" is selected for any implementing body(ies), then please complete the Comments field below with details including the name of the specific implementing body along with an explanation, if available, for not submitting a status update/annual report as required by a monitoring policy. *NOTE: Where a listed implementing body(ies) is not applicable/relevant to your source protection region/area, then simply select "No" and explain that it is or they are not applicable implementing bodies in your source protection region/area in the Comments field text box. |               |
| <b>Response</b>   |           |  | <b>Answer</b> |
| Risk Management Official  |           |  | Yes           |
| Municipality  |           |  | Yes           |
| Conservation Authority  |           |  | Yes           |
| Local Health Unit   |           |  | No            |
| MECP - Waste Disposal Sites - Landfilling and Storage             |           |  | Yes           |
| MECP - Wastewater/Sewage Works                                    |           |  | Yes           |
| MECP - Pesticides   |           |  | No            |
| MECP - Hauled Sewage/Biosolids                                    |           |  | Yes           |
| MECP - Permit to Take Water                                       |           |  | No            |
| MECP - Municipal Residential Drinking Water Systems               |           |  | No            |
| MECP - Other Policies   |           |  | Yes           |
| MECP - Waste Disposal Sites - Landfilling and Storage Inspections |           |  | No            |
| MECP - Wastewater/Sewage Works Inspections                        |           |  | No            |
| MECP - Conditions Sites   |           |  | No            |
| MECP - NMA - ASM and NASM Inspections                             |           |  | No            |
| OMAFRA  |           |  | Yes           |
| MNRF  |           |  | No            |
| MTO   |           |  | Yes           |
| MMAH  |           |  | No            |
| MGCS-TSSA   |           |  | No            |
| MENDM   |           |  | No            |



# Source Water Protection Annual Report

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### SPR - Niagara Peninsula

|   |     |
|---|-----|
| Provincial Board/Commission                                 | No  |
| Federal Departments/Agencies/Commissions/Crown Corporations | Yes |
| Private Entity/Company                                      | No  |
| Association/Organization                                    | No  |

**Comment:** For "No" answers, implementing body does not apply in Niagara Peninsula Source Protection Area.



# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Niagara Peninsula

| Report Id | Completed | Question  | Category   |
|-----------|-----------|---|--|
| 20        | True      | Did the Source Protection Authority (i) indicate the status of all threat policies as contained in their source protection plan by using one of the two options outlined in the guidance document (ID 20a) AND (ii) complete the table to indicate which implementing body(ies) have not yet made any progress in policy implementation in reportable ID 20b? | Implementation status of source protection plan policies |

Answer: Yes

Comment:

| Report Id | Completed | Question  | Category                               |
|-----------|-----------|---|--|
| 30        | True      | Number of risk management plans agreed to or established within the source protection area/region (for existing and future threats) during the reporting period (i.e., annual total). | Part IV (Sections 57, 58 & Section 59) |

Answer: 1

Comment:

| Report Id | Completed | Question  | Category                               |
|-----------|-----------|---|--|
| 31        | True      | Number of properties (i.e., parcels) with risk management plans agreed to or established for this reporting period. | Part IV (Sections 57, 58 & Section 59) |

Answer: 3

Comment:





# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Niagara Peninsula

| Report Id | Completed | Question  | Category  |
|-----------|-----------|---|---|
| 32        | True      | How many existing* significant drinking water threats have been managed through the established risk management plans for this reporting period (* meaning engaged in OR enumerated as existing significant threats)? | Part IV<br>(Sections 57,<br>58 & Section<br>59) |
| Answer:   |           | 9   |   |

Comment:

| Report Id | Completed | Question  | Category  |
|-----------|-----------|---|---|
| 40        | True      | How many section 59 notices were issued in this reporting period for activities to which neither a prohibition (section 57) nor a risk management plan (section 58) policy applied, as per ss. 59(2)(a) of the Clean Water Act? | Part IV<br>(Sections 57,<br>58 & Section<br>59) |
| Answer:   |           | 0   |   |

Comment:

| Report Id | Completed | Question   | Category  |
|-----------|-----------|--|---|
| 41        | True      | How many section 59 notices were issued in this reporting period for activities to which a risk management plan (section 58) policy applied, as per ss. 59(2)(b) of the Clean Water Act? | Part IV<br>(Sections 57,<br>58 & Section<br>59) |
| Answer:   |           | 0  |   |

Comment:



# Source Water Protection Annual Report

## 2019 - Supplemental Form

### SPR - Niagara Peninsula

| Report Id | Completed | Question  | Category  |
|-----------|-----------|---|---|
| 50        | True      | For the purposes of section 61 of O. Reg. 287/07, how many notices and/or copies of prescribed instruments that state the prescribed instrument conforms with the significant drinking water threat policies in the source protection plan (i.e., statement of conformity confirms the instrument holder is exempt from requiring a risk management plan) did the risk management official receive? | Part IV<br>(Sections 57,<br>58 & Section<br>59) |
| Answer:   |           | 0   |   |

Comment:

| Report Id | Completed | Question   | Category  |
|-----------|-----------|--|---|
| 60        | True      | State the total number of inspections (including any follow-up site visits) that were carried out for activities (existing or future) that are prohibited under section 57 of the Clean Water Act for this reporting period. | Part IV<br>(Sections 57,<br>58 & Section<br>59) |
| Answer:   |           | 2  |   |

Comment:

| Report Id | Completed | Question  | Category  |
|-----------|-----------|---|---|
| 61        | True      | How many properties (i.e., parcels) had inspections for the purposes of section 57 for this reporting period? | Part IV<br>(Sections 57,<br>58 & Section<br>59) |
| Answer:   |           | 5   |   |

Comment:



# Source Water Protection Annual Report

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### SPR - Niagara Peninsula

| Report Id | Completed | Question  | Category  |
|-----------|-----------|---|---|
| 62        | True      | Among the inspections conducted for section 57, how many showed that activities were taking place on the landscape even though they were prohibited (i.e., in contravention) under section 57 of the Clean Water Act for this reporting period? | Part IV<br>(Sections 57,<br>58 & Section<br>59) |
| Answer:   |           | 0   |   |

Comment:

| Report Id | Completed | Question   | Category  |
|-----------|-----------|--|---|
| 70        | True      | How many existing significant drinking water threats have been prohibited as a result of section 57 prohibitions in this reporting period? | Part IV<br>(Sections 57,<br>58 & Section<br>59) |
| Answer:   |           | 0  |   |

Comment:

| Report Id | Completed | Question  | Category  |
|-----------|-----------|---|---|
| 80        | True      | State the total number of inspections (including any follow-up site visits) that were carried out for activities that require a risk management plan under section 58 of the Clean Water Act for this reporting period. | Part IV<br>(Sections 57,<br>58 & Section<br>59) |
| Answer:   |           | 2   |   |

Comment:



# Source Water Protection Annual Report

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### SPR - Niagara Peninsula

| Report Id | Completed | Question  | Category  |
|-----------|-----------|---|---|
| 81        | True      | How many properties (i.e., parcels) had inspections for the purposes of section 58 for this reporting period? | Part IV<br>(Sections 57,<br>58 & Section<br>59) |

Answer: 5

Comment:

| Report Id | Completed | Question  | Category  |
|-----------|-----------|---|---|
| 82        | True      | Among the inspections conducted for section 58, how many were in contravention with section 58 of the Clean Water Act for this reporting period (i.e., person engaging in a drinking water threat activity without a risk management plan as required by the source protection plan)? | Part IV<br>(Sections 57,<br>58 & Section<br>59) |

Answer: 1

Comment:

| Report Id | Completed | Question  | Category  |
|-----------|-----------|---|---|
| 83        | True      | Among the inspections for section 58, how many were in non-compliance with the specific contents of the risk management plan for this reporting period? (NOTE: Please only include those inspections that showed non-compliance with measures/conditions to manage the actual threat activity.) | Part IV<br>(Sections 57,<br>58 & Section<br>59) |

Answer: 0

Comment:



# Source Water Protection Annual Report

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### SPR - Niagara Peninsula

| Report Id | Completed | Question   | Category  |
|-----------|-----------|--|---|
| 84        | True      | State the total number of notices issued where there were cases of contraventions and/or non-compliance found with section 57 for this reporting period. | Part IV<br>(Sections 57,<br>58 & Section<br>59) |
| Answer:   |           | 0  |   |

Comment:

| Report Id | Completed | Question   | Category  |
|-----------|-----------|--|---|
| 85        | True      | State the total number of notices issued where there were cases of contraventions and/or non-compliance found with section 58 for this reporting period. | Part IV<br>(Sections 57,<br>58 & Section<br>59) |
| Answer:   |           | 0  |   |

Comment:

| Report Id | Completed | Question  | Category  |
|-----------|-----------|---|---|
| 86        | True      | State the total number of orders issued for contraventions and/or non-compliance found with section 57 for this reporting period. | Part IV<br>(Sections 57,<br>58 & Section<br>59) |
| Answer:   |           | 0   |   |

Comment:



# Source Water Protection Annual Report

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### SPR - Niagara Peninsula

| Report Id | Completed | Question  | Category  |
|-----------|-----------|---|---|
| 87        | True      | State the total number of orders issued for contraventions and/or non-compliance found with section 58 for this reporting period. | Part IV<br>(Sections 57,<br>58 & Section<br>59) |
| Answer:   |           | 1   |   |
| Comment:  |           |   |   |



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### SPR - Niagara Peninsula

| Report Id | Completed | Question |
|-----------|-----------|----------|
|-----------|-----------|----------|

|     |      |  |
|-----|------|--|
| 230 | True | Indicate the methods by which education and outreach policies have been/are being implemented in the source protection region/area for the reporting period by all the relevant implementing bodies from the checklist below. Choose all that apply. |
|-----|------|--|

| Response   | Answer |
|--|--------|
| use of educational materials for general public (e.g., "Source Water Protection - 2018 resources" on Conservation Ontario's website)   | Yes    |
| use of educational materials for target audiences including developers, builders, landowners, farmers, etc. (e.g., "Source Water Protection - 2018 resources" on Conservation Ontario's website) | Yes    |
| workshops  | No     |
| site visits  | No     |
| source protection content for websites   | Yes    |
| educational videos (e.g., Drinking Water Source Protection video available Conservation Ontario)   | Yes    |
| podcasts   | No     |
| collaboration with other bodies (e.g., ministries, local organizations, etc.)  | Yes    |
| social media promotion (e.g., use of Facebook, Twitter, Instagram, etc.)   | Yes    |
| media advertising (e.g., print media, radio, television) in news media and/or industry/stakeholder specific publications   | Yes    |
| integration with other outreach programs or campaigns (e.g., Community Environment Days, etc.)   | Yes    |
| articles in publications   | Yes    |
| information kiosks at events/festivals   | Yes    |
| methods for implementing Education and Outreach not yet determined   | No     |

Comment:





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### SPR - Niagara Peninsula

| Report Id               | Completed | Question   |
|-------------------------|-----------|--|
| 240                     | True      | State the number of source water protection signs installed on provincial highways in the source protection region/area for this reporting period. |
| <b>Agency</b>           |           | <b>Current Year    Cumulative Count</b>  |
| MECP                    |           | 0                      4   |
| <b>Provincial Total</b> |           | 0                      4   |
| <b>Comment:</b>         |           |  |

| Report Id       | Completed | Question   | Category |
|-----------------|-----------|--|----------|
| 241             | True      | State the number of source water protection signs installed on municipal roads in the source protection region/area for this reporting period. | Signage  |
| <b>Answer:</b>  | 7         |  |          |
| <b>Comment:</b> |           |  |          |

| Report Id       | Completed | Question   | Category |
|-----------------|-----------|--|----------|
| 242             | True      | State the number of source water protection signs installed at other locations (if applicable) in the source protection region/area for this reporting period. | Signage  |
| <b>Answer:</b>  | 0         |  |          |
| <b>Comment:</b> |           |  |          |



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| Report Id | Completed | Question  | Category                  |
|-----------|-----------|---|---------------------------|
| 260       | True      | How many on-site sewage systems in the source protection area require inspections in accordance with the Ontario Building Code (i.e., once every five years)? | Sewage System Inspections |
| Answer:   |           | 0   |                           |

Comment:

| Report Id | Completed | Question   | Category                  |
|-----------|-----------|--|---------------------------|
| 261       | True      | Of those requiring inspections, how many on-site sewage systems (identified as significant drinking water threats) were inspected for this reporting period? | Sewage System Inspections |
| Answer:   |           | 0  |                           |

Comment:



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| Report Id | Completed | Question |
|-----------|-----------|----------|
|-----------|-----------|----------|

|     |      |  |
|-----|------|--|
| 262 | True | If not all required on-site sewage systems were inspected, please indicate why they were not all inspected from among the options below: |
|-----|------|--|

| Response   | Answer |
|--|--------|
| on-site sewage system(s) is newly constructed and therefore not captured in the first round of inspections | No     |
| landowner refused entry, compliance order being sought   | No     |
| municipality has not yet initiated inspection program  | No     |
| other. Please specify in the comment box below.  | No     |

**Comment:** Not applicable



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| Report Id | Completed | Question   | Category                  |
|-----------|-----------|--|---------------------------|
| 263       | True      | How many of the on-site sewage systems inspected required minor maintenance work (e.g., pump out, etc.)? | Sewage System Inspections |
| Answer:   |           | 0  |                           |
| Comment:  |           | NA   |                           |

| Report Id | Completed | Question   | Category                  |
|-----------|-----------|--|---------------------------|
| 264       | True      | How many of the on-site sewage systems inspected required major maintenance work (e.g., tank replacement, etc.)? | Sewage System Inspections |
| Answer:   |           | 0  |                           |
| Comment:  |           | NA   |                           |

| Report Id | Completed | Question  | Category           |
|-----------|-----------|---|--------------------|
| 280       | True      | How many notices about transport pathways (meaning a condition of land resulting from human activity (e.g., pits and quarries, improperly abandoned wells, geothermal system, etc.) that increases the vulnerability of a raw water supply of a drinking water system) did the source protection authority receive from municipalities in this reporting period (as per O. Reg. 287/07, ss. 27(3))? | Transport pathways |
| Answer:   |           | 0   |                    |
| Comment:  |           |   |                    |



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| Report Id | Completed | Question |
|-----------|-----------|----------|
|-----------|-----------|----------|

|     |      |  |
|-----|------|--|
| 281 | True | Where transport pathway notices were received, indicate the action(s) taken by the source protection region/area in response to receiving these notices: |
|-----|------|--|

| Response  | Answer |
|---|--------|
| Provided information to municipalities about changes in vulnerability | No     |
| Provided notice to Source Protection Committee for information        | No     |
| Situation continues to be monitored                                   | No     |

**Comment:** N/A



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| Report Id   | Completed | Question  |
|---|-----------|---|
| 300   | True      | [OPTIONAL]: If and where there are successful examples for each of the following initiatives in the source protection region/area (including from local municipalities, residents and businesses) that the authority wishes to highlight, then please indicate in the Comments field below. In your comments, please include details for each of the selected topics. Please limit the descriptions provided (e.g., one example for each topic or more could be included when the source protection authority feels they are exceptional/quite successful). |
| Response  |           | Answer  |
| Education and Outreach (in description include details, if available, on type and percentage of target population reached, outcome(s) achieved, etc.)   |           | Yes   |
| Incentives (in description include details, if available, on outcome(s) achieved, how widely available was the incentive, etc.)   |           | Yes   |
| Stewardship Programs  |           | No  |
| Best Management Practices   |           | No  |
| Pilot Programs  |           | No  |
| Research  |           | Yes   |
| Specify Action (e.g., road salt management, municipal by-laws, legislative or regulatory amendments, mapping, review of fuel codes, new airport facility design standards to manage runoff of chemicals from de-icing of aircraft, instrumentation, etc.) |           | No  |
| Climate Change (e.g., data collection)  |           | Yes   |
| Spill prevention/spill contingency/emergency response plan updates  |           | Yes   |
| Transport pathways  |           | Yes   |
| Water quantity  |           | No  |
| Great Lakes   |           | Yes   |
| Other policies (i.e., strategic action, etc.)   |           | No  |



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**Comment:** In 2019, the largest education and outreach was completed in the form of the Yellow Fish Road Program. Several community events where Source Protection knowledge was able to be delivered included: Earth Day, Niagara Children's Water Festival and Yellow Fish road painting days at Niagara Region schools and community groups (Girl Guides, Scouts etc...). Over 300 storm drains were painted and 700 fish hangers explaining the program were distributed amongst local residents.

Niagara Region incentive program requesting that local residents disconnect downspouts and eaves from storm sewers to reduce burden on wastewater treatment plants where combined sewers may exist.

Partner study with Ontario Geological Survey on regional groundwater systems, naturally occurring contaminants and transport pathways, independently funded by Niagara Region and NPCA.

The NPCA Water well decommissioning program (<https://npca.ca/well-decommissioning>) provides grant funding to assist with the decommissioning of unused water wells. Unused water wells were also identified during Highly Vulnerable Aquifer reviews for decommissioning by licensed water well drillers. These efforts were funded under NPCA activities separate from source water protection activities.



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| Report Id      | Completed | Question   | Category                               |
|----------------|-----------|--|--|
| 310            | True      | Please provide comments below to explain the overall progress made in addressing these significant threats. Include the percentage of overall progress made in the comments provided. The percentage of overall progress made in addressing local threats and conditions that are taking place on the landscape is determined by taking the total number in column D (i.e., significant drinking water threat addressed because policy is implemented) and dividing it into the number that is derived by adding the total numbers in columns A and B and then subtracting this sum total from the total in column C. In other words, overall progress made = $D / (A \text{ plus } B \text{ minus } C)$ . | Addressing existing enumerated threats |
| <b>Answer:</b> |           | P: Progressing Well/On Target 100%, The last remaining RMP outstanding from 2018 was ordered by the RMO in 2019, as a result all significant threats are now addressed.  |  |

**Comment:**

| Report Id      | Completed | Question  | Category                           |
|----------------|-----------|---|------------------------------------|
| 320            | True      | If applicable to the assessment report in your source protection region/area, provide a summary of steps taken to further assess or implement the plans of work described in technical rule 30.1: Water Budget Tier 3 not included in your original assessment report(s). | Assessment report information gaps |
| <b>Answer:</b> |           | N/A   |                                    |

**Comment:**





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| Report Id | Completed | Question   | Category                           |
|-----------|-----------|--|------------------------------------|
| 321       | True      | If applicable to the assessment report in your source protection region/area, provide a summary of steps taken to further assess or implement the plans of work described in technical rule 50.1: GUDI for WHPA-E or F not included in your original assessment report(s). | Assessment report information gaps |

Answer: N/A

Comment:

| Report Id | Completed | Question   | Category                           |
|-----------|-----------|--|------------------------------------|
| 322       | True      | If applicable to the assessment report in your source protection region/area, provide a summary of steps taken to further assess or implement the plans of work described in technical rule 116: Issue Contributing Area not included in your original assessment report(s). | Assessment report information gaps |

Answer: N/A

Comment:

| Report Id | Completed | Question   | Category              |
|-----------|-----------|--|-----------------------|
| 330       | True      | Does the source protection authority have any other item(s) on which it wishes to report? If so, please explain. | Other reporting items |

Answer: N/A

Comment:



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| Report Id       | Completed | Question   | Category                   |
|-----------------|-----------|--|----------------------------|
| 340             | True      | What positive outcomes (e.g., less water consumption, changes in behaviour, reduction in phosphorus and nitrogen concentrations, less chloride from road salt, reduction in algal blooms, human health protected, etc.), if any, have potentially resulted from the implementation of source protection plan policies? Please describe the outcomes below.   | Source protection outcomes |
| <b>Answer:</b>  |           | One of the main positive outcomes from the implementation of source protection plan policies comes in the form of heightened awareness of the need for integration of source water protection into activities such as spill response exercises, e.g. local fire departments, St. Lawrence Seaway Management Corporation, Enbridge, Niagara Region.<br><br>Indirect outcomes from source protection plan policies include an increased awareness of beach monitoring for areas where recreational swimming takes place. In addition, municipal work to improve infrastructure is prioritized to reduce threats in vulnerable areas (i.e., combined sewer replacement and relocations of sanitary sewers outside of vulnerable areas where they may pose a threat to drinking water treatment plants). |                            |
| <b>Comment:</b> |           |  |                            |



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| Report Id | Completed | Question |
|-----------|-----------|----------|
|-----------|-----------|----------|

|     |      |   |
|-----|------|---|
| 350 | True | In the opinion of the Source Protection Committee, to what extent have the objectives of the source protection plan been achieved in this reporting period? |
|-----|------|---|

#### Response

#### Answer

|  |
|--|
| Progressing Well/On Target - The majority of the source protection plan policies have been implemented and/or are progressing well |
|--|

|     |
|-----|
| Yes |
|-----|

|  |
|--|
| Satisfactory - Some of the source protection plan policies have been implemented and/or are progressing well |
|--|

|    |
|----|
| No |
|----|

|  |
|--|
| Limited Progress made - A few of source protection plan policies have been implemented and/or are progressing well |
|--|

|    |
|----|
| No |
|----|

**Comment:**



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| Report Id       | Completed | Question   | Category   |
|-----------------|-----------|--|--|
| 351             | False     | Please provide comments to explain how the Source Protection Committee arrived at its opinion. Include a summary of any discussions that might have been had amongst the Source Protection Committee members, especially where no consensus was reached. | Achievement of source protection plan objectives |
| <b>Answer:</b>  |           | The Source Protection Committee states that based on the information provided that all of the threats have been addressed and all of the policies are implemented.   |  |
| <b>Comment:</b> |           |  |  |

## **4.2 Welland Water Treatment Plant Threat Policies**

The following policies apply to the Welland Water Treatment Plant Intake Protection Zone 3 (IPZ-3) and IPZ-1 where significant threats have been identified through event-based modelling. The areas where these policies apply are also presented on Schedule WL1.

Table 4.4 Policies for the Welland Intake Protection Zones

| <b>Policy Number</b> | <b>Welland Strategic Action Policy</b>   |
|----------------------|--|
| WL-1                 | <p>In accordance with Section 22 (7) of the Clean Water Act, the Ministry of Transportation, in collaboration with the Ministry of the Environment as well as in consultation with the Source Protection Authorities (SPAs), should design a sign to the appropriate Provincial standards, to identify the locations of Intake Protection Zones. The Ministry of Transportation should manufacture, install and maintain the signs along Provincial Highways within an Intake Protection Zone with a vulnerability score of 8 or higher. This policy will be implemented as part of an overall education and outreach plan where it applies to the Ministry of Transportation.</p> <p>For signs on the municipal roads, Niagara Region, in cooperation with the City of Welland will be responsible for the purchase, installation and maintenance of appropriate signs, designed by the Province in collaboration with the Source Protection Authority.</p> <p>This policy, as it applies to municipal arterial roads will be implemented as part of an overall education and outreach plan by Niagara Region. This policy should be implemented within two years from the date the Source Protection Plan comes into effect.</p> |
|                      | <b>Welland IPZ-3 Policies</b>  |
| WL-2                 | <p>Niagara Region, and the municipalities of Port Colborne, Welland and Thorold, shall update their Emergency Response Plans (ERPs) to include the following:</p> <ul style="list-style-type: none"> <li>• Maps that show the locations of the Welland Water Treatment Plant intake and its associated IPZ-3 and IPZ-1.</li> <li>• An up-to-date communications protocol showing the structure of command of the various agencies that would be contacted.</li> </ul> <p>The ERPs shall be updated within two years from the time the Source Protection Plan comes into effect.</p>  |

|      | <b>Welland IPZ-3 Policies - continued</b>   |
|------|---|
| WL-3 | <p>St. Lawrence Seaway Management Corporation (SLSMC), Ontario Ministry of Environment (MOE) Spills Action Centre (SAC), and Ontario Ministry of Transportation (MTO) are requested to update their Emergency Response Plans (ERPs) to include the following where applicable:</p> <ul style="list-style-type: none"> <li>• Maps that show the locations of the Welland Water Treatment Plant intake and its associated IPZ-3 and IPZ-1.</li> <li>• An up-to-date communications protocol showing the structure of command of the various agencies that would be contacted.</li> </ul> <p>As it relates to railway corridors, Transport Canada is requested to ensure Emergency Response Plans under their jurisdiction are updated accordingly.</p> <p>The ERP shall be updated within two years from the time the Source Protection Plan comes into effect.</p> |
| WL-4 | <p>The St. Lawrence Seaway Management Corporation (SLSMC) is requested to implement the following Risk Management Measures to address the potential impacts of a fuel spill on the raw water supply for the Welland Water Treatment Plant:</p> <ul style="list-style-type: none"> <li>• Require that persons handling fuel follow a protocol that uses best management practices to prevent spills from occurring.</li> <li>• Ensure that spill containment booms can be readily deployed in the event of a fuel spill.</li> </ul> <p>The risk management measures should be updated within two years from the time the Source Protection Plan comes into effect.</p>   |

### **4.3 DeCew Falls Threat Policies**

#### **4.3.1 Intake Protection Zone 1 Policies**

The following policies apply to the DeCew Falls Intake Protection Zone 1 (IPZ-1) where significant threats have been identified in Schedules DC1, DC2 and DC3.

Table 4.5 Policies for the DeCew Falls Intake Protection 1 Zones

| <b>Policy Number</b> | <b>DeCew Falls IPZ-1s Significant Threat Policy</b>  |
|----------------------|--|
| DC-1                 | No new waste disposal sites for the application of untreated septage to land shall be permitted within the DeCew Falls IPZ-1s.   |
| DC-2                 | No new combined sewers, wastewater treatment facilities, stormwater management facilities, or industrial effluent systems shall be permitted where they would be a significant threat within the DeCew Falls IPZ-1s.   |
| DC-3                 | No new industrial or commercial land uses shall be permitted within the DeCew Falls IPZ-1s, in order to prevent significant threats related to stormwater discharges.  |
| DC-4                 | In the DeCew Falls IPZ-1s the application of agricultural source material (ASM) to land; the storage of ASM; and livestock grazing/pasturing, farm animal yards and outdoor confinement areas are all designated for the purposes of Section 58 (risk management plans) of the Clean Water Act. All new and existing occurrences of these activities shall require a Risk Management Plan which shall contain appropriate risk management measures.  |
| DC-5                 | All land uses except residential are designated for the purposes of Section 59 (restricted land uses) of the Clean Water Act in the DeCew Falls IPZ-1s, where the application of agricultural source material (ASM) to land; the storage of ASM; and livestock grazing/pasturing, farm animal yards and outdoor confinement areas are, or would be, a significant threat.  |
| DC-6                 | <p>Within one year from the date the Source Protection Plan comes into effect, an Outreach and Education program shall be established by Niagara Region that promotes best management practices for the following existing and future significant threat activities: the application to land, and storage of agricultural source material; livestock grazing/pasturing, farm animal yards, and outdoor confinement areas.</p> <p>The Outreach and Education program shall be for landowners within the DeCew Falls IPZ-1s, but may be extended to the DeCew Falls IPZ-2s (Schedules DC4, DC5 and DC6). This Outreach and Education program may be implemented by Niagara Region in combination with other Outreach and Education programs at its discretion.</p> |
| DC-7                 | No new or existing Category 3 Non-Agricultural Source Material application, or handling and storage, shall be permitted within the DeCew Falls IPZ-1s.   |

### **4.3.2 Strategic Action Policies**

The following policy applies to the DeCew Falls Intake Protection Zones 1 (IPZ-1) as shown in Schedule DC1, DC2, and DC3. It is suggested the policy also be considered for areas shown in DC7 and DC8.

Table 4.6 Strategic Action Policies for the DeCew Falls Intake Protection Zones 1

| <b>Policy Number</b> | <b>DeCew Falls IPZ-1s Signage Policy</b>  |
|----------------------|---|
| DC-8                 | <p>In accordance with Section 22 (7) of the Clean Water Act, the Ministry of Transportation, in collaboration with the Ministry of the Environment as well as in consultation with the Source Protection Authorities (SPAs), should design a sign to the appropriate Provincial standards, to identify the locations of Intake Protection Zones. The Ministry of Transportation should manufacture, install and maintain the signs along Provincial Highways within an Intake Protection Zone with a vulnerability score of 8 or higher. This policy will be implemented as part of an overall education and outreach plan where it applies to the Ministry of Transportation.</p> <p>These signs should also be placed, at a minimum, where municipal arterial roads are within the DeCew Falls IPZ-1s. For signs on the municipal roads, Niagara Region, in cooperation with the City of Thorold will be responsible for the purchase, installation and maintenance of appropriate signs, designed by the Province in collaboration with the Source Protection Authority.</p> <p>This policy, as it applies to municipal arterial roads will be implemented as part of an overall education and outreach plan by Niagara Region. This policy should be implemented within two years from the date the Source Protection Plan comes into effect.</p> |



**4.3.3 Policies for Threats Identified by Event-Based Modelling**

The following policies apply to the DeCew Falls Intake Protection Zones 3 (IPZ-3s) and some portions of the IPZ-1s and IPZ-2s as shown in Schedules DC7 and DC8. These policies address the threats that were identified in the Assessment Report through event-based modelling.

Table 4.7 Policies for the DeCew Falls Intake – Locally Added Threats

|       | <b>DeCew Falls IPZ-3 Policies</b>   |
|-------|---|
| DC-9  | <p>Niagara Region, and the municipalities of Port Colborne, Welland, and Thorold shall update their Emergency Response Plans (ERPs) to include the following:</p> <ul style="list-style-type: none"> <li>• Maps that show the locations of the DeCew Water Treatment Plant and associated Highway 406 and Lake Gibson Alternate intakes and the areas where this policy applies.</li> <li>• An up-to-date communications protocol showing the structure of command of the various agencies that would be contacted.</li> </ul> <p>The ERPs shall be updated within two years from the date the Source Protection Plan comes into effect.</p>  |
| DC-10 | <p>The St. Lawrence Seaway Management Corporation, Ontario Ministry of Environment (MOE) Spills Action Centre (SAC), and Ontario Ministry of Transportation (MTO) are requested to update their Emergency Response Plans (ERPs) to include the following:</p> <ul style="list-style-type: none"> <li>• Maps that show the locations of the DeCew Water Treatment Plant and associated Highway 406 and Lake Gibson Alternate intakes, and the areas where this policy applies.</li> <li>• An up-to-date communications protocol showing the structure of command of the various agencies that would be contacted.</li> </ul> <p>As it relates to railway corridors, Transport Canada is requested to ensure Emergency Response Plans under their jurisdiction are updated accordingly.</p> <p>The ERP should be updated within two years from the date the Source Protection Plan comes into effect.</p> |
| DC-11 | <p>The St. Lawrence Seaway Management Corporation (SLSMC), is requested to implement the following Risk Management Measures to address the potential impacts of a fuel spill on the raw water supply for the DeCew Falls Water Treatment Plant:</p> <ul style="list-style-type: none"> <li>• Require that persons that handle fuel follow a protocol that uses best management practices to prevent spills from occurring.</li> <li>• Ensure that spill containment booms can be readily deployed in the event of a fuel spill.</li> </ul> <p>The risk management measures should be implemented within two years from the date the Source Protection Plan comes into effect.</p>   |

## **4.4 Port Colborne Threat Policies**

Policies that apply to only Port Colborne Intake Protection Zones 1, 2, and 3 are presented below. The Port Colborne IPZ-1 is more vulnerable and subject to more potential significant threats than the IPZ-2.

### **4.4.1 Intake Protection Zone 1**

The following policies apply to the Port Colborne Intake Protection Zone 1 (IPZ-1) where significant threats have been identified as presented on Schedule PC1.

Table 4.8 Policies for the Port Colborne Intake Protection Zone 1

| <b>Policy Number</b> | <b>Port Colborne IPZ-1 Significant Threat Policy</b>  |
|----------------------|---|
| PC-1                 | No new waste disposal sites shall be permitted within the Port Colborne IPZ-1.  |
| PC-2                 | The St. Lawrence Seaway Management Corporation is requested not to permit the establishment of any new waste disposal sites on lands owned or controlled by it within the Port Colborne IPZ-1.  |
| PC-3                 | This policy is deleted. See Footnote 1 for Table 4.8  |
| PC-4                 | This policy is deleted. See Footnote 1 for Table 4.8.   |
| PC-5                 | The storage of pesticides in quantities greater than 2,500 kg is designated for the purposes of Section 58 (risk management plans) of the Clean Water Act, where this activity would be a significant threat in the Port Colborne IPZ-1. All new and existing occurrences of this activity shall require a Risk Management Plan which shall contain appropriate risk management measures. |
| PC-6                 | All land uses except residential are designated for the purposes of Section 59 (restricted land uses) of the Clean Water Act in Port Colborne IPZ-1, where the storage of pesticides in quantities greater than 2,500 kg would be an existing or future significant threat.   |
| PC-7                 | Where the storage of pesticides would be an existing or future threat within the Port Colborne IPZ-1, the St. Lawrence Seaway Management Corporation is requested to ensure that persons engaged in these activities on its lands, do so in a way that safely manages the activities so they cease to be significant threats, and that those persons be appropriately licensed.           |
| PC-8                 | No new open storage of road salt greater than 5,000 tonnes shall be permitted within the Port Colborne IPZ-1.   |
| PC-9                 | No new storage of snow greater than 1 hectare in area shall be permitted within the Port Colborne IPZ-1.  |

| Policy Number | Port Colborne IPZ-1 Significant Threat Policy   |
|---------------|---|
| PC-10         | <p>Within two years from the date the Source Protection Plan comes into effect, Niagara Region shall implement an annual Outreach and Education program to the appropriate staff of the Niagara Region Transportation Division and the City of Port Colborne Operations Department.</p> <p>The Outreach and Education program shall describe best management practices for handling and storage of road salt since these activities could be existing or future significant threats within the Port Colborne IPZ-1.</p> |
| PC-11         | The St. Lawrence Seaway Management Corporation is requested not to permit the establishment of any new open salt storage greater than 5,000 tonnes or snow storage greater than 1 hectare in area on lands owned or controlled by it within the Port Colborne IPZ-1.  |
| PC-12         | In order to prevent stormwater runoff that contains chemicals used in the de-icing of aircraft from becoming a significant threat in future, no new stormwater discharge from a national airport, that is a significant drinking water threat, shall be permitted within the Port Colborne IPZ-1.   |
| PC-13         | In order to prevent stormwater runoff that contains chemicals used in the de-icing of aircraft from becoming a significant threat in the future, this activity is prohibited where it would be a significant threat, and therefore is designated for the purpose of Section 57 (Prohibition) under the Clean Water Act.   |
| PC-14         | The St. Lawrence Seaway Management Corporation is requested not to permit the establishment of any new national airports on lands they own or control within the Port Colborne IPZ-1, in order to prevent stormwater runoff that contains chemicals used in the de-icing of aircraft from becoming a significant threat in future.  |

Table 4.8 Footnote 1: Fertilizer application to land is currently not considered a significant threat in the Port Colborne IPZ-1. This activity could only become a significant threat if major changes in land usage across the IPZ-1 occur. This is unlikely to happen. For more detailed information please refer to the Explanatory Document.

#### 4.4.2 Intake Protection Zone 2

The following policy applies to the Port Colborne Intake Protection Zone 2 (IPZ-2) where the significant threat has been identified as presented on Schedules PC2.

Table 4.9 Policies for Port Colborne Intake Protection Zone 2

| Policy Number | Port Colborne IPZ-2 Significant Threat Policy   |
|---------------|---|
| PC-15         | No new waste disposal sites for the application of untreated septage to land shall be permitted within the Port Colborne IPZ-2. |

### 4.4.3 Intake Protection Zones 1 and 2

The following policies apply to the Port Colborne Intake Protection Zone 1 (IPZ-1) and 2 (IPZ-2) where significant threats have been identified as presented on Schedules PC2.

Table 4.10 Policies for the Port Colborne IPZ-1 and IPZ-2

| Policy Number | Port Colborne IPZ-1 and IPZ-2 Significant Threat Policy  |
|---------------|--|
| PC-16         | <p>Where an existing or future stormwater management system is in the Port Colborne IPZ-1 or IPZ-2 and the activity is, or would be, a significant drinking water threat, the Ministry of the Environment shall ensure that the Environmental Compliance Approval that governs the stormwater management system includes appropriate terms and conditions to ensure that the stormwater management system:</p> <ul style="list-style-type: none"> <li>a) Existing, ceases to be a significant drinking water threat; or</li> <li>b) Future, never becomes a significant drinking threat.</li> </ul>  |
| PC-17         | <p>Within the Port Colborne IPZ-1 and IPZ-2 Niagara Region and the City of Port Colborne shall ensure that stormwater runoff volume and pollutant loadings from future land development are reduced by:</p> <ul style="list-style-type: none"> <li>(a) encouraging implementation of a treatment train approach and reliance on a hierarchy of source, lot-level, conveyance and end-of-pipe controls;</li> <li>(b) encouraging the implementation of innovative stormwater management measures;</li> <li>(c) allowing for flexibility in development standards to incorporate alternative community design and stormwater techniques, such as those related to site plan design, lot grading, ditches and curbing, road widths, road and driveway surfaces, and the use of open space as temporary detention ponds; and</li> <li>(d) supporting implementation of source control programs, which are targeted to existing areas that lack adequate stormwater controls.</li> </ul> <p>Municipalities shall require that an application for commercial or industrial development or the expansion, extension, or alteration of existing stormwater management facilities or the expansion of an existing commercial or industrial development within the Port Colborne IPZ-1 and IPZ-2 shall be accompanied by a stormwater management plan that demonstrates consistency with these stormwater management measures and any Best Management Practices identified in the stormwater Management Master Plan (PC-18).</p> |
| PC-18         | <p>In consideration of existing or future significant threats related to stormwater discharges, the City of Port Colborne shall, within five years from the date the Source Protection Plan comes into effect, prepare and implement a comprehensive stormwater management master plan for the catchments out-letting to the Port Colborne IPZ-1 and IPZ-2. The stormwater management master plan will be prepared in accordance with the Municipal Class Environmental Assessment and will include:</p> <ul style="list-style-type: none"> <li>(a) an evaluation of the cumulative environmental impact of stormwater from existing and planned <i>development</i>;</li> </ul>  |

| Policy Number | Port Colborne IPZ-1 and IPZ-2 Significant Threat Policy   |
|---------------|---|
|               | <p>(b) a determination of the effectiveness of existing stormwater management works at reducing the negative impacts of stormwater on the environment;</p> <p>(c) an examination of any stormwater retrofit opportunities that have already been identified for areas where stormwater is uncontrolled or inadequately controlled;</p> <p>(d) the identification of additional stormwater management retrofit opportunities or improvements to existing stormwater management works that could improve the level of treatment;</p> <p>(e) a description of existing or planned programs for regular maintenance of stormwater management works;</p> <p>(f) an identification of the recommended approaches for stormwater management; and</p> <p>(g) an implementation plan for the recommended approaches.</p> |
| PC-19         | <p>In consideration of existing or future significant threats related to stormwater discharges within the Port Colborne IPZ-1 or IPZ-2, an Outreach and Education program shall be established by the Niagara Peninsula Conservation Authority (NPCA) that promotes good stewardship of water resources and stormwater management systems. The Outreach and Education program should target local industries and residents located within the Port Colborne IPZ-1 and IPZ-2. This Outreach and Education program may be implemented by NPCA in combination with other Outreach and Education programs at its discretion.</p>  |
| PC-20         | <p>No new combined sewers, wastewater treatment facilities, or industrial effluent systems shall be permitted where they would be a significant threat within the Port Colborne IPZ-1 or IPZ-2.</p>   |
| PC-21         | <p>The St. Lawrence Seaway Management Corporation is requested not to permit new combined sewers, wastewater treatment facilities, or industrial effluent from facilities located on lands owned or controlled by it within the Port Colborne Intake IPZ-1 and IPZ-2.</p>   |
| PC-22         | <p>No new agricultural land uses are permitted within the Port Colborne IPZ-1 and IPZ-2.</p>  |
| PC-23         | <p>The St. Lawrence Seaway Management Corporation is requested not to permit new activities related to agricultural land uses on lands owned by it within the Port Colborne IPZ-1 and IPZ-2. (These activities include the application to land, and storage of agricultural source material; the application to land, and handling and storage of non-agricultural source material; and livestock grazing/pasturing, farm animal yards, and outdoor confinement areas.)</p>   |
| PC-24         | <p>No new Category 3 Non-Agricultural Source Material application, or handling and storage, shall be permitted within the Port Colborne IPZ-1 and IPZ-2.</p>  |
| PC-25         | <p>Where the application of pesticide is an existing significant threat, or could be in future in the Port Colborne IPZ-1 or IPZ-2, this activity is designated for the purposes of Section 58 (risk management plans) of the Clean Water Act. All new and existing occurrences of this activity shall require a Risk Management Plan which shall contain appropriate risk management measures.</p>   |

| Policy Number | Port Colborne IPZ-1 and IPZ-2 Significant Threat Policy  |
|---------------|--|
| PC-26         | All land uses except residential are designated for the purposes of Section 59 (restricted land uses) of the Clean Water Act in Port Colborne IPZ-1 or IPZ-2, where the application of pesticides would be an existing or future significant threat.   |
| PC-27         | Where the application of pesticide is an existing significant threat, or could be in future, within the Port Colborne IPZ-1 or IPZ-2, the St. Lawrence Seaway Management Corporation is requested to ensure that persons engaged in these activities on its lands do so in a way that safely manages the activities, so they cease to be, or never become significant threats, and that those persons be appropriately licensed. |

#### 4.4.4 Strategic Action Policies

The following policies apply to the Port Colborne Intake Protection Zones as denoted below. Schedule PC2 identifies where policies apply to IPZs 1 and 2. Policy PC-28 should also be considered for areas where local threat policies apply (as shown in Schedule PC3).

Table 4.11 Strategic Action Policies for Port Colborne WTP Intake

| Policy Number | Port Colborne IPZ-1 and IPZ-2 Strategic Action Policies   |
|---------------|---|
| PC-28         | <p>In accordance with Section 22 (7) of the Clean Water Act, the Ministry of Transportation, in collaboration with the Ministry of the Environment as well as in consultation with the Source Protection Authorities (SPAs), should design a sign to the appropriate Provincial standards, to identify the locations of Intake Protection zones.</p> <p>Niagara Region, in cooperation with the City of Port Colborne, will be responsible for the purchase, installation and maintenance of appropriate signs designed by the Province in collaboration with the SPA. These signs should be placed, at a minimum, where municipal arterial roads are located within the Port Colborne IPZ-1 and IPZ-2.</p> <p>This will be implemented as part of an overall education and outreach plan by Niagara Region. This policy should be implemented within two years from the date the Source Protection Plan comes into effect.</p> |
| PC-29         | Niagara Region is encouraged to undertake an outreach and education program to promote best management practices for road salt application. Niagara Region may wish to combine this initiative with the outreach program described under Policy PC-10. (See also Footnote 1 for Table 4.11)   |

Table 4.11 Footnote 1: Road salt application is currently not a significant threat according to the Technical Rules under the Clean Water Act, because the impervious area for the IPZ-1 is not above 80%. Please see Section 7.4 and Figure 7.1 of the Explanatory Document.

#### **4.4.5 Policies for Threats Identified by Event-Based Modelling and Transportation Threats**

The following policies apply to the Port Colborne Intake Protection Zones as listed in Table 1.4 (Section 1.2) and shown in Schedule PC3. For example, PC-30 and PC-31 only apply to the IPZ-1 for transportation threats. Policies PC-30, PC-31 and PC-32 however apply to diesel and gasoline threats in the IPZ-3, and the area of the IPZ-1 shown on Schedule PC3.

Table 4.12 Policies for Port Colborne Intake - Locally Added Threats

| <b>Policy Number</b> | <b>Port Colborne Event-based Modelling Policies and Transportation Threat Policies</b>  |
|----------------------|---|
| PC-30                | <p>Niagara Region, and the City of Port Colborne shall update their Emergency Response Plans (ERPs) to include the following:</p> <ul style="list-style-type: none"> <li>• Maps that show the locations of the Port Colborne Water Treatment Plant intake and the areas where this policy applies. (Schedule PC3).</li> <li>• An up-to-date communications protocol showing the structure of command of the various agencies that would be contacted.</li> </ul> <p>The ERPs should be updated within two years from the date the Source Protection Plan comes into effect.</p>   |
| PC-31                | <p>The St. Lawrence Seaway Management Corporation (SLSMC), and Ontario Ministry of Environment (MOE) Spills Action Centre (SAC) are requested to update their Emergency Response Plans (ERPs) to include the following:</p> <ul style="list-style-type: none"> <li>• Maps that show the locations of the Port Colborne Water Treatment Plant intake, and the areas where this policy applies. (Schedule PC3).</li> <li>• An up-to-date communications protocol showing the structure of command of the various agencies that would be contacted.</li> </ul> <p>As it relates to railway corridors, Transport Canada is requested to ensure Emergency Response Plans under their jurisdiction are updated accordingly.</p> <p>The ERP should be updated within two years from the date the Source Protection Plan comes into effect.</p> |
| PC-32                | <p>The St. Lawrence Seaway Management Corporation (SLSMC) is requested to implement the following Risk Management Measures to address the potential impacts of a fuel spill on the raw water supply for the Port Colborne Water Treatment Plant:</p> <ul style="list-style-type: none"> <li>• Require that persons handling fuel follow a protocol that uses best management practices to prevent spills from occurring.</li> <li>• Ensure that spill containment booms can be readily deployed in the event of a fuel spill.</li> </ul> <p>The risk management measures should be updated within two years from the date the Source Protection Plan comes into effect.</p>   |

## 4.5 Niagara Falls Threat Policies

The following policies apply to the Niagara Falls Intake Protection Zone 1 (IPZ-1) where significant threats have been identified as presented on Schedule NF1.

Table 4.13 Policies for the Niagara Falls IPZ-1

| <b>Policy Number</b> | <b>Niagara Falls IPZ-1 Significant Threat Policy</b>  |
|----------------------|---|
| NF-1                 | No new waste disposal sites for the application of untreated septage to land shall be permitted within the Niagara Falls IPZ-1.   |
| NF-2                 | No new combined sewers, wastewater treatment facilities, stormwater management facilities, or industrial effluent systems shall be permitted where they would be a significant threat within the Niagara Falls IPZ-1.   |
| NF-3                 | No new industrial or commercial land uses shall be permitted within the Niagara Falls IPZ-1, in order to prevent significant threats related to stormwater discharges.  |
| NF-4                 | In consideration of existing or future significant threats related to stormwater discharges within the Niagara Falls IPZ-1, an Outreach and Education program shall be established by the Niagara Peninsula Conservation Authority (NPCA) within one year from the date the Source Protection Plan comes into effect that promotes good stewardship of water resources and stormwater management systems. The Outreach and Education program should target local industries and residents located within the Niagara Falls IPZ-1. This Outreach and Education program may be implemented by NPCA in combination with other Outreach and Education programs at its discretion.   |
| NF-5                 | No new agricultural land uses are permitted within the Niagara Falls IPZ-1.   |
| NF-6                 | No new Category 3 Non-Agricultural Source Material application, or handling and storage, shall be permitted within the Niagara Falls IPZ-1.   |
|                      | <b>Niagara Falls IPZ-1 Signage Policy</b>   |
| NF-7                 | <p>In accordance with Section 22 (7) of the Clean Water Act, the Ministry of Transportation, in collaboration with the Ministry of the Environment as well as in consultation with the Source Protection Authorities (SPAs), should design a sign to the appropriate Provincial standards, to identify the locations of Intake Protection zones.</p> <p>Niagara Region, in cooperation with the City of Niagara Falls and the Niagara Parks Commission, will be responsible for the purchase, installation and maintenance of appropriate signs designed by the Province in collaboration with the SPA. These signs should be placed, at a minimum, where municipal arterial roads are located within the Niagara Falls IPZ-1.</p> <p>This policy will be implemented as part of an overall education and outreach plan by Niagara Region. This policy should be implemented within two years from the date the Source Protection Plan comes into effect.</p> |