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The Regional Municipality of Durham Information Report

From: Acting Commissioner of Works
Report: #2024-INFO-03
Date: February 2, 2024

Subject:

2023 Source Water Protection Annual Report

Recommendation:

Receive for information.

Report:

1. Purpose

1.1 This report is being provided with a copy of each Source Water Protection Annual Report (Attachments #1 to #3) required by the Clean Water Act, 2006. The attached reports summarize the implementation efforts and activities undertaken in 2023. Each report will be submitted to the corresponding Source Protection Authority by February 1, 2024.

2. Background

2.1 The Regional Municipality of Durham (Region) is divided into three Source Protection Regions: The Credit Valley, Toronto and Region, Central Lake Ontario Source Protection Region (CTC), the South Georgian Bay Lake Simcoe Source Protection Region (SGBLS) and the Trent Conservation Coalition Source Protection Region (TCC).

2.2 The attached reports summarize the legislated and voluntary proactive activities the Region has undertaken in 2023 to comply with the Clean Water Act, 2006 and Source Protection Plans. Local Source Protection Plans contain policies that set out the reporting requirements for the Region. These reporting requirements have been developed by the Source Protection Committees and vary between Source Protection Regions. In addition to the local reporting requirements, the Region must report the actions taken by Risk Management Officials and Risk

Management Inspectors to the respective Source Protection Authority under the Clean Water Act, 2006.

- 2.3 On October 31, 2014, the TCC Source Protection Plan received approval from the Ministry of the Environment, Conservation and Parks (MECP). The TCC Source Protection Plan was approved effective January 1, 2015.
- 2.4 On January 26, 2015, the SGBLS Source Protection Plan received approval from the MECP. The SGBLS Source Protection Plan was approved effective July 1, 2015.
- 2.5 On January 28, 2015, the CTC Source Protection Plan received approval from the MECP. The CTC Source Protection Plan was approved effective December 31, 2015.
- 2.6 The annual report includes information on the management of existing drinking water threats, development of Risk Management Plans, education and outreach initiatives, and planning implications under each Source Protection Plan.

3. Implementation

- 3.1 All the properties and landowners with significant drinking water threats have met or corresponded with Regional staff regarding the activities occurring on their properties. Based on current information, it is estimated that approximately 14 risk management plans are required to address significant drinking water threats in the Region. The Source Water Protection Plans require risk management plans to be negotiated and implemented within five years of approval. Eleven risk management plans have been negotiated to date.
- 3.2 During negotiations, it was found that approximately 90 per cent of the risk management measures contained in the risk management plans included best management practices that were already in place at each location. These practices included:
 - Employee training records
 - Inspection records
 - Health and safety inspections
 - Spill prevention
 - Work instructions
 - Proper chemical handling; and
 - Storage and regulated waste disposal

- 3.3 The education and outreach component of source water protection is being implemented through social media posts, new website content, hard copy materials and staff presentations.
- 3.4 Regional staff continue to participate in several working groups with other municipalities, conservation authorities and the Province to collaborate on implementing risk management measures, risk management plans, municipal guidance documents and education and outreach.
- 3.5 Regional staff continue to work in partnership with the City of Toronto and the Region of Peel as members of the Lake Ontario Collaborative Group. The group is currently working with a project team, including DHI Group and WSP (formerly Golder and Associates), to continue the development of the Decision Support System and 3-D hydrodynamic model for western Lake Ontario. This model supports decision making and emergency spill response. The model uses existing data inputs from partners such as Ontario Power Generation, Toronto and Region Conservation Authority, Ministry of the Environment, Conservation and Parks and specialized monitoring equipment that will be procured for this project. This work program is being completed to satisfy the Lake Ontario policies in the approved CTC Source Protection Plan.
- 3.6 Phase 1 of the Lake Ontario Water Quality Forecasting System has been completed. The system is currently operational, with data validation completed in 2022. Phase 2 work is currently underway, including improvements to model calibration and tributary time of travel, as well as the incorporation of ECO lab and additional lake monitoring equipment. Cybersecurity enhancements were made to the application in 2023 as part of the Phase 2 work.
- 3.7 The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval. Planning Act applications received by the Region are being screened to ensure the requirements of the Source Protection Plans are being implemented.

4. Updated Groundwater Modelling Project

- 4.1 In 2018, work commenced to update the groundwater modelling for the Regional municipal wells. Groundwater modelling for 27 municipal wells throughout the Region's eight well systems was updated to reflect new Wellhead Protection Areas. The update is expected to change the shape of the Wellhead Protection Areas surrounding the municipal wells. This anticipated change, specifically in the community of Cannington in the Township of Brock, may affect which properties

are impacted by Source Protection Plan policies. For this reason, staff have delayed the negotiation of four Risk Management Plans in Cannington to ensure only those properties captured by the new modelling are required to adhere to Source Protection Plan policies.

- 4.2 On December 22, 2023, the SGBLS received approval from the MECP for the Section 34 Amendments for the Cannington and Sunderland drinking water systems. The amendments include updating the vulnerability mapping within the Assessment Report to reflect the addition of Cannington Wells 9 and 10 and the official update of Sunderland Well 3.

5. Relationship to Strategic Plan

- 5.1 This report aligns with the following strategic goals and priorities in the Durham Region Strategic Plan:
- a. Goal 1 Environmental Sustainability - To protect the environment for the future by demonstrating leadership in sustainability and addressing climate change.
 - Protect, preserve and restore the natural environment, including green spaces, waterways, parks, trails and farmland.
 - b. Goal 2 Community Vitality - To foster an exceptional quality of life with services that contribute to strong neighbourhoods, vibrant and diverse communities, and influence our safety and well-being.
 - Enhance community safety and well-being.
 - c. Goal 5 Service Excellence - To provide exceptional value to Durham taxpayers through responsive, effective and fiscally sustainable service delivery.
 - Demonstrate commitment to continuous quality improvement and communicating results.

6. Conclusion

- 6.1 The attached reports summarize the implementation efforts and activities undertaken in 2023.
- 6.2 For additional information, please contact Tavis Nimmo, Risk Management Official, at (905) 668-7711 ext. 3737.

7. Attachments

- Attachment #1: Risk Management Official Annual Report – Credit Valley – Toronto and Region – Central Lake Ontario Source Protection Region – January 1, 2023, to December 31, 2023
- Attachment #2: Risk Management Official Annual Report – South Georgian Bay Lake Simcoe Source Protection Region – January 1, 2023, to December 31, 2023
- Attachment #3: Risk Management Official Annual Report – Trent Conservation Coalition Source Protection Region – January 1, 2023, to December 31, 2023

Respectfully submitted,

Original signed by:

Ramesh Jagannathan, MBA, M.Eng., P.Eng., PTOE
Acting Commissioner of Works

The Regional Municipality of Durham

Risk Management Official Annual Report

Credit Valley – Toronto and Region – Central Lake Ontario Source Protection Region

January 1, 2023 – December 31, 2023

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1. List of Abbreviations and Acronyms

AR	Assessment Report
BMP	Best Management Practice
CA	Conservation Authority
CWA	Clean Water Act, 2006
DNAPL	Dense Non-Aqueous Phase Liquid
E&O	Education and Outreach
ID	Identification
IPZ	Intake Protection Zone
MECP	Ministry of the Environment, Conservation, and Parks
OFEC	Ontario Farm Environmental Coalition
OMAFRA	Ontario Ministry of Agriculture, Food and Rural Affairs
PI	Prescribed Instrument
RMI	Risk Management Inspector
RMM	Risk Management Measures
RMO	Risk Management Official
RMP	Risk Management Plan
SDWT	Significant Drinking Water Threat
SPA	Source Protection Authority
WHPA	Wellhead Protection Area

2. Report Information

Name of Municipality	The Regional Municipality of Durham
Source Protection Authority	Credit Valley-Toronto and Region-Central Lake Ontario
Water Supply System	Uxville Industrial Park
SPA Staff Contact	Don Ford
Submitted By	Tavis Nimmo, Risk Management Official
Date Submitted	January 31, 2024

3. Annual Report

This annual report is provided in accordance with Section 81 of the *Clean Water Act, 2006*. It outlines the activities undertaken by the Regional Municipality of Durham in 2023 that were required by legislation as well as a summary of progress to date in implementing the Source Protection Plan.

4. Risk Management Officials, Inspectors and Training

RMO/RMI require renewal course every five years.

Name	Title	RMO/RMI Training Date	Property Entry Training Date
Beata Golas	Risk Management Official	December 2021	December 2021
Tavis Nimmo	Risk Management Official	December 2021	December 2021
Colin Hall	Risk Management Inspector	September 2022	September 2022
Maureen Bianchet	Risk Management Inspector	December 2019	February 2019
Ashley Brettell	Risk Management Inspector	December 2019	November 2019
Carly Graham	Risk Management Inspector	November 2022	November 2022

5. Risk Management Office

5.1. Provide an overview of work planned for 2024

Item	Description
Threat Verification	Threat verification complete.
RMPs	RMPs have all been completed.
E&O	Staff will continue distributing education and outreach materials in areas with low and moderate threat levels as rules permit.
Application Review and Section 59 Notices	Continue to review Planning Act/Building Permit applications.
Incentives	Reviewed and determined there is no need for incentives in this period.

6. Annual Progress Report as per Section 46(1) Clean Water Act, 2006 and Section 52(1) O.Reg 287/07

6.1. Provide an update for applicable RMO implementer policies

SDWT Type	Policy ID	Status	Existing Percent Complete
Waste Disposal Site	WST-1, WST-6	Complete	100
DNAPL	DNAP-1	Complete	100
Organic Solvents	OS-1	Complete	100

6.2. Provide the number and type of Section 59 notices issued. The risk management office reviews planning/building applications in vulnerable areas to determine if potential land use activities pose a threat to the quality or quantity of municipal drinking water sources.

Number of Section 59 Notices Where No Prohibition or No RMP Required	Number of Section 59 Notices Where RMP Required
0	0

6.3. Provide the number of instances the RMO received a notice and/or copy of the PI that states the PI conforms to SDWT policies.

SDWT	Prescribed Instrument
0	N/A

6.4. Provide the number of inspections for prohibited activities

Total Inspections for Prohibited Activities	Properties Inspected for Prohibited Activities	Properties Where Prohibited Activities Were Taking Place
0	0	0

6.5. Provide the number of inspections for activities requiring a risk management plan

Total Inspections for Activities Requiring an RMP	Total Properties Inspected Where an RMP is in Place	Properties Inspected that were in Contravention of their RMP
1	1	0

6.6. RMO tools and resources evaluation

Tool / Resource		Comments and Suggestions
Source Protection Interactive Mapping Tool	<input checked="" type="checkbox"/>	Assists both Durham and area municipality in locating properties of interest and determining policy requirements.
Risk Management Official Forum	<input type="checkbox"/>	
Resource Catalogue /	<input checked="" type="checkbox"/>	Assisted in development of E&O materials.

Campaign in a Box toolkit		
Education & Outreach webinar	<input checked="" type="checkbox"/>	Assisted in development of E&O materials.
Education & Outreach community of practice	<input type="checkbox"/>	
Guidance Materials (fact sheets, information bulletins)	<input checked="" type="checkbox"/>	Assisted in development of E&O materials.
MECP Training (e.g., RMO Certification, property entry)	<input checked="" type="checkbox"/>	Reference material
OMAFRA/OFEC information sessions	<input checked="" type="checkbox"/>	Assisted with development of agricultural materials and establishing dialogue.
Other: Please Specify:	<input checked="" type="checkbox"/>	Source Water Protection table of threats and circumstances tool aids in threat verification.

6.7. Provide a list of SDWT. See appendix A for a detailed summary of SDWT by type.

Municipality or Township	Zone	Score	Threat Type
Uxville	WHPA-A	10	Waste Disposal Site
	WHPA-A	10	DNAPL
	WHPA-A	10	Organic Solvent

7. Legislated Annual Reporting Requirements as per Section 81 Clean Water Act, 2006 and Section 65 O.Reg 287/07

7.1. Risk Management Plans to Date Agreed Under Section 58(5) of CWA

#	Township	WHPA or IPZ	SDWT Activity
1	Uxville	WHPA-A	Waste Disposal Site, DNAPL, Organic Solvent

7.2. Risk Management Plans Established by Order Under Section 58(10) Of CWA

#	Township	WHPA or IPZ	SDWT Activity
0	-	-	-

7.3. Risk Management Plans Established by Order Under Section 58(12) Of CWA

#	Township	WHPA or IPZ	SDWT Activity	Reason for Refusal
0	-	-	-	-

7.4. Risk Management Plans RMO Refused to Agree to or Establish Under Section 58(16) or Section 58(15) of CWA

#	Township	WHPA or IPZ	SDWT Activity	Circumstances
0	-	-	-	-

7.5. Orders Issued by RMO Under Part IV of CWA

#	Township	WHPA or IPZ	SDWT Activity	Circumstances
0	-	-	-	-

7.6. Notices Received from a Person Engaged in an Activity, Notifying RMO of Their Possession/Intent to Obtain Prescribed Instrument Under Section 61(2) & (7) Of CWA

#	Township	WHPA or IPZ	SDWT Activity	Prescribed Instrument
0	-	-	-	-

7.7. Notices Issued by RMO Under Section 61(6) & (8) of CWA Notifying a Person Engaged in a SDWT Activity of the Termination of an Exemption Under Section 61(1)

#	Township	WHPA or IPZ	SDWT Activity	Prescribed Instrument
0	-	-	-	-

7.8. Section 61 (1) Exemptions Granted

#	Township	WHPA or IPZ	SDWT Activity	Prescribed Instrument
0	-	-	-	-

7.9. Inspections Carried Out Under a Risk Management Plan

#	Township	WHPA or IPZ	SDWT Activity
1	Uxville	WHPA-A	Waste Disposal Site, DNAPL, Organic Solvent

7.10. Inspections Resulting in Non-Compliance with a Risk Management Plan

#	Township	WHPA or IPZ	SDWT Activity
0	-	-	-

7.11. Inspections Conducted on Prohibited Activities

#	Township	WHPA or IPZ	SDWT Activity
0	-	-	-

7.12. Cases Where Prohibited Activities Were Being Engaged in During Inspections

Description of Circumstances
N/A

7.13. Risk Assessments Submitted, Accepted and Not Accepted Under Section 60

#	Township	WHPA or IPZ	SDWT Activity
0	-	-	-

7.14. Instances Where RMO Caused a Thing to be Done Under Section 64 of CWA

#	Township	WHPA or IPZ	SDWT Activity
0	-	-	-

7.15. Prosecutions Made Under Section 106 of CWA

#	Township	WHPA or IPZ	SDWT Activity
0	-	-	-

7.16. Prosecutions Made Under Section 106 of CWA Resulting in Conviction

#	Township	WHPA or IPZ	SDWT Activity
0	-	-	-

8. Septic Re-Inspection Program

Item	Description
Required Inspections	Uxville (3)
Lead Authority	Greg Annis, Manager, Durham Region Environmental Health, Chief Building Official.
Inspection Protocol	A visual inspection is conducted on the property and the site is recorded by GPS then entered into a database. If a potential malfunction of the septic system is detected, then further inspection is conducted.
Inspection Progress	Re-inspections conducted in 2021. Due again in 2026.

9. Source Protection Plan Policy Reporting Requirements

9.1. RMO Policy Reporting Requirements

SDWT	Policy ID	Status	Details
General	GEN-1	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Waste	WST-1	Complete	One RMP negotiated to deal with disposal of waste oil and lubricants. Best management practices in place prior to RMP included safe handling, spill prevention and response and staff training. Property owner provided with source water overview to include in on site staff training.
Waste	WST-6	Not Applicable	No PCB storage or disposal threats.
ASM	ASM-2	Not Applicable	No ASM application threats.
ASM	ASM-4	Not Applicable	No ASM storage threats.
NASM	NASM-1	Not Applicable	No NASM application threats.
NASM	NASM-2	Not Applicable	No NASM storage threats.
Livestock Grazing	LIV-1	Not Applicable	No livestock grazing threats.
Livestock Grazing	LIV-3	Not Applicable	No outdoor confinement or farm-animal yard threats.
Fertilizer	FER-2	Not Applicable	No application of fertilizer threats.

Fertilizer	FER-3	Not Applicable	No handling and storage of fertilizer threats.
Pesticide	PES-1	Not Applicable	No application of pesticide threats.
Pesticide	PES-2	Not Applicable	No handling and storage of pesticide threats.
Road Salt	SAL-1	Not Applicable	No application of road salt threats.
Road Salt	SAL-2	Not Applicable	No application of road salt threats.
Road Salt	SAL-7	Not Applicable	No handling of road salts threats.
Snow Storage	SNO-1	Not Applicable	No storage of snow threats.
Fuel	FUEL-3	Not Applicable	No fuel threats.
DNAPL	DNAP-1	Complete	One RMP negotiated to deal with potential DNAPLs. Best management practices in place prior to RMP included safe handling, spill prevention and response, and staff training. Property owner provided with source water overview to include in staff training.
Organic Solvent	OS-1	Complete	One RMP negotiated to deal with organic solvents. Best management practices in place prior to RMP included safe handling, spill prevention and response, and staff training. Property owner provided with source water overview to include in staff training.
Recharge	REC-2	Complete	No quantity threats identified.

9.2. Municipality Policy Reporting Requirements

SDWT	Policy ID	Status	Details
General	GEN-1	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
General	GEN-2	Complete	One RMP established. Annual inspections to be conducted to ensure conformity.
General	GEN-5	Complete	Cost of septic inspections was covered by the Region. Completed in 2021 and due again in 2026.
General	GEN-7	Not Applicable	Only applicable in ICA.
General	GEN-8	In Progress	Municipality has engaged and provided E&O materials to properties with significant threats. Low and moderate threats targeted for distribution in 2024.
Waste	WST-2	Complete	Exempt wastes have not been found to date.
Sewage	SWG-1	Complete	Septic inspection program completed in 2021.
Sewage	SWG-2	Complete	E&O materials developed in collaboration with area municipalities. To be delivered as needed.
Sewage	SWG-6	Complete	Regional council passed amendment to by-law #89-2003 requiring mandatory connection on October 23, 2019.

Sewage	SWG-7	Not Applicable	Only applicable in ICA.
Fertilizer	FER-4	Not Applicable	No fertilizer threats.
Pesticide	PES-4	Not Applicable	No pesticide threats.
Road Salt	SAL-8	Not Applicable	No significant road salt threats.
Fuel	FUEL-4	Not Applicable	No fuel threats.
DNAPL	DNAP-2	Complete	E&O materials developed in collaboration with area municipalities. To be delivered as needed.
Organic Solvent	OS-2	Complete	E&O materials developed in collaboration with area municipalities. To be delivered as needed.
Lake Ontario	LO-G-3	In Progress	Phase 1 of the Lake Ontario Water Quality Forecasting System has been completed. The system is currently operational, with data validation completed in 2022. Phase 2 work is currently underway which includes improvements to model calibration and tributary time of travel, as well as the incorporation of ECO lab and additional lake monitoring equipment. Cybersecurity enhancements were made to the application in 2023 as part of the Phase 2 work
Demand	DEM-4	Complete	Water conservation plan finalized in April 2020.
Demand	DEM-5	Complete	E&O materials developed in collaboration with area municipalities. To be delivered as needed.
Demand	DEM-9	Complete	Water sources outside WHPA-Q1 to reduce quantity demand have been assessed.
Recharge	REC-3	Complete	Screening tool developed to assist with property and threat verification. E&O materials developed in collaboration with local municipalities. Incentives have been reviewed and determined they are not needed.

9.3. Planning Approval Authority Policy Reporting Requirements

SDWT	Policy ID	Status	Details
Waste Disposal Site	WST-5	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Sewage	SWG-3	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Sewage	SWG-4	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.

Sewage	SWG-9	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Sewage	SWG-12	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Sewage	SWG-14	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Sewage	SWG-16	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Sewage	SWG-18	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Road Salt	SAL-3	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Demand	DEM-2	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Recharge	REC-1	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.

Appendix A

Significant Drinking Water Threats	A	B	C	D	Remaining SDWTs to be Addressed (A+B-C=D)
The establishment, operation, or maintenance of a waste disposal site within the meaning of Part V of the <i>Environmental Protection Act</i> .	3		2	1	0
The establishment, operation or maintenance of a system that collects, stores, transmits, treats, or disposes of sewage.	6			6	0
The application of agricultural source material to land.					
The storage of agricultural source material					
The management of agricultural source material					
The application of non-agricultural source material to land					
The handling and storage of non-agricultural source material					
The application of commercial fertilizer to land					
The handling and storage of commercial fertilizer					
The application of pesticide to land					
The handling and storage of pesticide					
The application of road salt					
The handling and storage of road salt					
The storage of snow					
The handling and storage of fuel	1		1		0
The handling and storage of a dense non-aqueous phase liquid	3		2	1	0
The handling and storage of an organic solvent	1			1	0
The management of runoff that contains chemicals used in the de-icing of aircraft					
The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard O. Reg. 385/08, Section 3.					
Water taking from an aquifer without returning the water to the same aquifer or surface water body					
Reducing recharge of an aquifer					
Total	14		5	9	0

A = Original estimate of SDWT in the Approved Assessment Report

B = Additional SDWT identified after SPP approved as a result of field verification

C = SDWT included in enumeration estimates at time of plan approval but subsequently determined through field verification that: (i) it was **not** actually engaged in at a particular location after all or (ii) it was **no longer** engaged in at the location

D = SDWT addressed through policy implementation.

The Regional Municipality of Durham

Risk Management Official Annual Report

South Georgian Bay Lake Simcoe Source Protection Region

January 1, 2023 – December 31, 2023

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1. List of Abbreviations and Acronyms

AR	Assessment Report
ASM	Agricultural Source Material
BMP	Best Management Practice
CA	Conservation Authority
CWA	Clean Water Act, 2006
DNAPL	Dense Non-Aqueous Phase Liquid
E&O	Education and Outreach
ID	Identification
IPZ	Intake Protection Zone
MECP	Ministry of the Environment, Conservation, and Parks
OFEC	Ontario Farm Environmental Coalition
OMAFRA	Ontario Ministry of Agriculture, Food and Rural Affairs
PI	Prescribed Instrument
RMI	Risk Management Inspector
RMM	Risk Management Measures
RMO	Risk Management Official
RMP	Risk Management Plan
SDWT	Significant Drinking Water Threat
SPA	Source Protection Authority
WHPA	Wellhead Protection Area

2. Report Information

Name of Municipality	The Regional Municipality of Durham
Source Protection Authority	South Georgian Bay Lake Simcoe
Water Supply Systems	Cannington, Sunderland, Uxbridge
SPA Staff Contact	Bill Thompson
Submitted by	Tavis Nimmo, Risk Management Official
Date Submitted	January 31, 2024

3. Annual Report

This annual report is provided in accordance with Section 81 of the *Clean Water Act, 2006*. It outlines the activities undertaken by the Regional Municipality of Durham in 2023 that were required by legislation as well as a summary of progress to date in implementing the Source Protection Plan.

4. Risk Management Officials, Inspectors and Training

RMO/RMI require renewal course every five years.

Name	Title	RMO/RMI Training Date	Property Entry Training Date
Beata Golas	Risk Management Official	December 2021	December 2021
Tavis Nimmo	Risk Management Official	December 2021	December 2021
Colin Hall	Risk Management Inspector	September 2022	September 2022
Maureen Bianchet	Risk Management Inspector	December 2019	February 2019
Ashley Brettell	Risk Management Inspector	December 2019	November 2019
Carly Graham	Risk Management Inspector	November 2022	November 2022

5. Risk Management Office

5.1. Provide an overview of work planned for 2024

Item	Description
Threat Verification	Threat verification will be completed once the new wellhead protection area maps receive Provincial approval.
RMPs	Risk management plans will be negotiated, if required since the new wellhead protection area maps received Provincial approval.
E&O	Staff will continue distributing education and outreach materials in areas with low and moderate threat levels.
Application Review and Section 59 Notices	Continue to review Planning Act/Building Permit applications.
Incentives	Reviewed and determined there is no need for incentives in this period.

6. Annual Progress Report as per Section 46(1) Clean Water Act, 2006 and Section 52(1) O.Reg 287/07

6.1. Provide an update for applicable RMO implementer policies

SDWT	Policy Number	Status	Existing Percent Complete
Waste Disposal Site	WAST(b)-1,2	Complete	100
Sewage	SEWG(b)-1	Complete	100
Agriculture	ASM(App)-1,2 ASM(Store)-1,2	In Progress	75
Fertilizer	FERT(App)-1 FERT(H&S)-1,2	Complete	100
Pesticide	PEST(App)-1 PEST(H&S)-1,2	In Progress	75
Fuel	FUEL-1,2	Complete	100
DNAPL	DNAPL-1,2	Complete	100
Organic Solvents	SOLV-1	Complete	100
Livestock Grazing	LSTOCK-1,2,3	Complete	100
Restricted Land Use	RLU-1	Complete	100

6.2. Provide the number and type of Section 59 notices issued. The risk management office reviews planning/building applications in vulnerable areas to determine if potential land use activities pose a threat to the quality or quantity of municipal drinking water sources.

Number of Section 59 Notices Where no Prohibition or no RMP Required	Number of Section 59 Notices Where RMP Required
2	0

6.3. Provide the number and type of any prescribed instrument the RMO received in order to conform to a SDWT policy.

SDWT	Prescribed Instrument
0	N/A

6.4. Provide the number of inspections for prohibited activities

Total Inspections for Prohibited Activities	Properties Inspected for Prohibited Activities	Properties Where Prohibited Activities Were Taking Place
0	0	0

6.5. Provide the number of inspections for activities requiring a risk management plan

Total Inspections for Activities Requiring an RMP	Total Properties Inspected Where an RMP is in Place	Properties Inspected that were in Contravention of their RMP
1	1	0

6.6. RMO tools and resources evaluation

Tool / Resource		Comments and Suggestions
Source protection Interactive Mapping Tool	<input checked="" type="checkbox"/>	Assists both Durham and area municipality in locating properties impacted by source water protection.
Risk Management Official Forum	<input type="checkbox"/>	
Resource Catalogue / Campaign in a Box toolkit	<input checked="" type="checkbox"/>	Assisted in development of E&O materials.
Education & Outreach webinar	<input checked="" type="checkbox"/>	Assisted in development of E&O materials.
Education & Outreach community of practice	<input type="checkbox"/>	
Guidance Materials (fact sheets, information bulletins)	<input checked="" type="checkbox"/>	Assisted in development of E&O materials.
MECP Training (e.g., RMO Certification, property entry)	<input checked="" type="checkbox"/>	Reference material
OMAFRA/OFEC information sessions	<input checked="" type="checkbox"/>	Assisting with development of agricultural materials and establishing dialogue
Other: Please Specify:	<input checked="" type="checkbox"/>	Source Water Protection table of threats and circumstances tool aids in threat verification.

7. Legislated Annual Reporting Requirements as per section 81 Clean Water Act, 2006 and section 65 O.Reg 287/07

7.1. Risk Management Plans to Date Agreed to Under Section 58(5) of CWA

#	Township	WHPA or IPZ	SDWT Activity
1	Cannington	A	DNAPL Storage, Organic Solvent Storage, Waste Disposal Site
2	Cannington	B	Pesticide Application, ASM Application

7.2. Risk Management Plans Established by Order Under Section 58(10) Of CWA

#	Township	WHPA or IPZ	SDWT Activity
0	-	-	-

7.3. Risk Management Plans Established by Order Under Section 58(12) Of CWA

#	Township	WHPA or IPZ	SDWT Activity	Reason for Refusal
0	-	-	-	-

7.4. Risk Management Plans RMO Refused to Agree to or Establish Under Section 58(16) or Section 58(15) of CWA

#	Township	WHPA or IPZ	SDWT Activity	Circumstances
0	-	-	-	-

7.5. Orders Issued by RMO Under Part IV of CWA

#	Township	WHPA or IPZ	SDWT Activity	Circumstances
0	-	-	-	-

7.6. Notices Received from a Person Engaged in an Activity, Notifying RMO of Their Possession/Intent to Obtain Prescribed Instrument Under Section 61(2) & (7) Of CWA

#	Township	WHPA or IPZ	SDWT Activity	Prescribed Instrument
0	-	-	-	-

7.7. Notices Issued by RMO Under Section 61(6) & (8) of CWA Notifying a Person Engaged in a SDWT Activity of the Termination of an Exemption Under Section 61(1)

#	Township	WHPA or IPZ	SDWT Activity	Prescribed Instrument
0	-	-	-	-

7.8. Section 61 (1) Exemptions Granted

#	Township	WHPA or IPZ	SDWT Activity	Prescribed Instrument
0	-	-	-	-

7.9. Inspections Carried Out Under a Risk Management Plan

#	Township	WHPA or IPZ	SDWT Activity
1	Cannington	WHPA-A	Waste Disposal Site, DNAPL, Organic Solvent
2	Cannington	WHPA-B	Pesticide Application, ASM Application (unable to make contact in 2023. Efforts will continue in 2024)

7.10. Inspections Resulting in Non-Compliance with a Risk Management Plan

#	Township	WHPA or IPZ	SDWT Activity
0	-	-	-

7.11. Inspections Conducted on Prohibited Activities

#	Township	WHPA or IPZ	SDWT Activity
0	-	-	-

7.12. Cases Where Prohibited Activities Were Being Engaged in During Inspections

Description of Circumstances
N/A

7.13. Risk Assessments Submitted, Accepted and Not Accepted Under Section 60

#	Township	WHPA or IPZ	SDWT Activity
0	-	-	-

7.14. Instances Where RMO Caused a Thing to be Done Under Section 64 of CWA

#	Township	WHPA or IPZ	SDWT Activity
0	-	-	-

7.15. Prosecutions Made Under Section 106 of CWA

Description
N/A

7.16. Prosecutions Made Under Section 106 of CWA Resulting in Conviction

Description
N/A

8. Septic System Inspection Program

Item	Description
Required Inspections	Uxbridge (1) Sunderland (2) Cannington (17)
Lead Authority	Greg Annis, Manager, Durham Region Environmental Health, Chief Building Official.
Inspection Protocol	A visual inspection is conducted on the property and the site is recorded by GPS then entered into a database. If a potential malfunction of the septic system is detected, then further inspection is conducted.
Inspection Progress	Re-inspections conducted in 2021. Due again in 2026.

9. Source Protection Plan Policy Reporting Requirements

9.1. RMO Policy Reporting Requirements

SDWT	Policy Number	Status	Details
Waste Disposal Site	WAST(b)-1	Complete	One RMP negotiated to date to deal with disposal of waste oil and lubricants. Best management practices in place prior to RMP included safe handling, spill prevention and response and staff training. Property owner provided with source water overview in order to include in on site staff training.
Waste Disposal Site	WAST(b)-2	Not Applicable	No future threats seen through planning/building permit application.
Sewage	SEWG(b)-1	Not Applicable	No SDWTs requiring RMP in 2023.
ASM	ASM(App)-1	In Progress	Threat verification to be completed in 2024. RMPs to be negotiated in 2024 pending approval of the new WHPA by the Province.
ASM	ASM(App)-2	Not Applicable	No future threats.
ASM	ASM(Store)-1	Not Applicable	No existing storage threats.
ASM	ASM(Store)-2	Not Applicable	No future storage threats.
NASM	NASM(App)-1	Not Applicable	No NASM threats.
NASM	NASM(App)-2	Not Applicable	No NASM threats.
NASM	NASM(H&S)-1	Not Applicable	No NASM threats.
NASM	NASM(H&S)-2	Not Applicable	No NASM threats.
Fertilizer	FERT(App)-1	Not Applicable	No fertilizer threats.
Fertilizer	FERT(H&S)-1	Not Applicable	No handling and storage threats.
Fertilizer	FERT(H&S)-2	Not Applicable	No handling and storage threats.
Pesticides	PEST(App)-1	In Progress	RMPs to be negotiated in 2024 pending approval of the new WHPA by the Province.
Pesticides	PEST(H&S)-1	Not Applicable	No handling and storage threats.
Pesticides	PEST(H&S)-2	Not Applicable	No handling and storage threats.
Road Salt	SALT(App)-1	Not Applicable	No application threats in vulnerable areas.

SDWT	Policy Number	Status	Details
Road Salt	SALT(H&S)-1	Not Applicable	No handling and storage threats.
Snow Storage	SNOW-1	Not Applicable	No snow threats.
Snow Storage	SNOW-2	Not Applicable	No snow threats.
Fuel	FUEL-1	Complete	No fuel threats found through verification efforts.
Fuel	FUEL-2	Not Applicable	No threats found in 2023.
DNAPL	DNAPL-1	Complete	No DNAPL threats remain.
DNAPL	DNAPL-2	Not Applicable	No threats found in 2023.
Organic Solvents	SOLV-1	Complete	No organic solvent threats remain.
Livestock Grazing	LSTOCK-1	In Progress	Threat verification to be completed in 2024. RMPs to be negotiated in 2024 pending approval of the new WHPA by the Province
Livestock Grazing	LSTOCK-2	Not Applicable	No outdoor confinement areas or farm animal yard threats.
Livestock Grazing	LSTOCK-3	Not Applicable	No outdoor confinement areas or farm animal yard threats.
Restricted Land Use	RLU-1	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.

9.2. Municipality Policy Reporting Requirements

SDWT	Policy Number	Status	Details
Waste Disposal Site	WAST(b)-5	Complete	The Region will continue to promote the safe disposal of household hazardous waste material.
Sewage	SEWG(b)-5	Complete	Durham Region Sewer Use By-law #55-2013 does not permit cross connections. Durham also has no combined sewer overflows.
Sewage	SEWG(c)-3	Complete	Region council passed amendment to by-law #89-2003 requiring mandatory connection on October 23, 2019
Sewage	SEWG(c)-4	Not Applicable	Area municipality responsibility.
Road Salt	SALT(H&S)-2	Not Applicable	No handling and storage threats.
Fuel	FUEL-4	Not Applicable	Area municipality responsibility through property standards by-law.

SDWT	Policy Number	Status	Details
Organic Solvents	SOLV-2	Complete	No threats found in 2023.
Demand	DEMD-3	Complete	Water conservation plan finalized in April 2020.
E&O	EDU-11	Complete	Signage installed prior to plan approval.
Incentive	INCENT-3	Not Applicable	Area municipality responsibility.
Incentive	INCENT-4	Not Applicable	Area municipality responsibility.

9.3. Planning Approval Authority Policy Reporting Requirements

SDWT	Policy Number	Status	Details
Land Use Planning	LUP-1	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Land Use Planning	LUP-2	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Land Use Planning	LUP-3	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Land Use Planning	LUP-4	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Land Use Planning	LUP-5	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Land Use Planning	LUP-6	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Land Use Planning	LUP-7	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Land Use Planning	LUP-8	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.

SDWT	Policy Number	Status	Details
Land Use Planning	LUP-10	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Land Use Planning	LUP-11	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Land Use Planning	LUP-12	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Land Use Planning	LUP-13	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Land Use Planning	LUP-15	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.

Appendix A

Significant Drinking Water Threats	A	B	C	D	Remaining SDWTs to be Addressed (A+B-C-D)
The establishment, operation, or maintenance of a waste disposal site within the meaning of Part V of the <i>Environmental Protection Act</i> .	1			1	0
The establishment, operation or maintenance of a system that collects, stores, transmits, treats, or disposes of sewage.	21	2	2	21	0
The application of agricultural source material to land.	11	0	6	2	3
The storage of agricultural source material					
The management of agricultural source material					
The application of non-agricultural source material to land					
The handling and storage of non-agricultural source material					
The application of commercial fertilizer to land		2	2		0
The handling and storage of commercial fertilizer					
The application of pesticide to land	9		6	2	1
The handling and storage of pesticide					
The application of road salt					
The handling and storage of road salt					
The storage of snow					
The handling and storage of fuel	27	1	5	23	0
The handling and storage of a dense non-aqueous phase liquid	15	1	15	1	0
The handling and storage of an organic solvent	1	3	3	1	0
The management of runoff that contains chemicals used in the de-icing of aircraft					
The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard O. Reg. 385/08, Section 3.		3	1		2
Water taking from an aquifer without returning the water to the same aquifer or surface water body					
Reducing recharge of an aquifer					
Total	85	12	40	51	6

A = Original estimate of SDWT in the Approved Assessment Report

B = Additional SDWT identified after SPP approved as a result of field verification

C = SDWT included in enumeration estimates at time of plan approval but subsequently determined through field verification that: (i) it was **not** actually engaged in at a particular location after all or (ii) it was **no longer** engaged in at the location

D = SDWT addressed through policy implementation

The Regional Municipality of Durham
Risk Management Official Annual Report
Trent Conservation Coalition Source Protection Region
January 1, 2023 – December 31, 2023

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Appendix A 13

1. List of Abbreviations and Acronyms

AR	Assessment Report
BMP	Best Management Practices
CA	Conservation Authority
CWA	Clean Water Act, 2006
DNAPL	Dense Non-Aqueous Phase Liquid
E&O	Education and Outreach
ID	Identification
IPZ	Intake Protection Zone
MECP	Ministry of the Environment, Conservation, and Parks
OFEC	Ontario Farm Environmental Coalition
OMAFRA	Ontario Ministry of Agriculture, Food and Rural Affairs
PI	Prescribed Instrument
RMI	Risk Management Inspector
RMM	Risk Management Measures
RMO	Risk Management Official
RMP	Risk Management Plan
SDWT	Significant Drinking Water Threat
SPA	Source Protection Authority
WHPA	Wellhead Protection Area

2. Report Information

Name of Municipality	The Regional Municipality of Durham
Source Protection Authority	Trent Conservation Coalition Source Protection Region
Water Systems	Blackstock, Greenbank, Port Perry, Orono, Newcastle
SPA Staff Contact	Jenna Stephens, Pam Lancaster
Submitted By	Tavis Nimmo, Risk Management Official
Date Submitted	January 31, 2024

3. Annual Report

This annual report is provided in accordance with Section 81 of the *Clean Water Act, 2006*. It outlines the activities undertaken by the Regional Municipality of Durham in 2023 that were required by legislation as well as a summary of progress to date in implementing the Source Protection Plan.

4. Risk Management Officials, Inspectors and Training

RMO/RMI require renewal course every five years.

Name	Title	RMO/RMI Training Date	Property Entry Training Date
Greg Lymer	Risk Management Official	February 2021	February 2021
Beata Golas	Risk Management Official	December 2021	December 2021
Tavis Nimmo	Risk Management Official	December 2021	December 2021
Colin Hall	Risk Management Inspector	September 2022	September 2022
Maureen Bianchet	Risk Management Inspector	December 2019	February 2019
Ashley Brettell	Risk Management Inspector	December 2019	November 2019
Carly Graham	Risk Management Inspector	November 2022	November 2022

5. Risk Management Office

5.1. Provide an overview of work planned for 2024

Item	Description
Threat Verification	Threat verification complete.
RMPs	RMPs complete.
E&O	Staff will continue distributing Education and Outreach materials in areas with low and moderate threat levels.
Application Review and Section 59 Notices	Continue to review Planning Act/Building Permit applications.
Incentives	Reviewed opportunities and no incentives are required due to completion of RMPs.

6. Annual Progress Report as per Section 46(1) Clean Water Act, 2006 and Section 52(1) O.Reg 287/07

6.1. Provide an update for applicable policy implementation

SDWT Type	Policy ID	Status	Existing Percent Complete
Sewage Systems	S-9; S-10	Complete	100
Agriculture	A-1(1-3); A-4(1-3)	Complete	100
Fuel	F-1; F-2(1-2)	Complete	100

6.2. Provide the number and type of Section 59 notices issued. The risk management office reviews planning/building applications in vulnerable areas to determine if potential land use activities pose a threat to the quality or quantity of municipal drinking water sources.

Number of Section 59 Notices Where No Prohibition or No RMP Required	Number of Section 59 Notices Where RMP Required
0	0

6.3. Provide the number and type of prescribed instrument the RMO received in order to conform to a SDWT policy.

SDWT	Prescribed Instrument
0	N/A

6.4. Provide the number of inspections for prohibited activities

Total Inspections for Prohibited Activities	Properties Inspected for Prohibited Activities	Properties Where Prohibited Activities Were Taking Place
0	0	0

6.5. Provide the number of inspections for activities requiring a risk management plan

Total Inspections for Activities Requiring an RMP	Total Properties Inspected Where an RMP is in Place	Properties Inspected that were in Contravention of their RMP
7	4	0

6.6. RMO tools and resources evaluation

Tool / Resource		Comments and Suggestions
Source protection Interactive Mapping Tool	<input checked="" type="checkbox"/>	Assists both Durham and area municipality in locating properties impacted by source water protection.
Risk Management Official Forum	<input type="checkbox"/>	
Resource Catalogue / Campaign in a Box toolkit	<input checked="" type="checkbox"/>	Assisted in development of E&O materials.
Education & Outreach webinar	<input checked="" type="checkbox"/>	Assisted in development of E&O materials.
Education & Outreach community of practice	<input type="checkbox"/>	

Guidance Materials (fact sheets, information bulletins)	<input checked="" type="checkbox"/>	Assisted in development of E&O materials.
MECP Training (e.g., RMO Certification, property entry)	<input checked="" type="checkbox"/>	Reference Material
OMAFRA/OFEC information sessions	<input checked="" type="checkbox"/>	Assisted with development of agricultural materials and establishing dialogue.
Other: Please Specify:	<input checked="" type="checkbox"/>	Source Water Protection table of threats and circumstances tool aids in threat verification.

7. Legislated Annual Reporting Requirements as per Section 81 Clean Water Act, 2006 and Section 65 O.Reg 287/07

7.1. Risk Management Plans to Date Agreed to Under Section 58(5) of CWA

#	Township	WHPA or IPZ	SDWT Activity
1	Port Perry	WHPA-A	Fuel Storage
2	Port Perry	WHPA-A	Use of Land for Livestock Grazing
3	Newcastle	IPZ-2	Fuel Storage
4	Greenbank	WHPA-A	ASM Application, Fertilizer Application
5	Greenbank	WHPA-A	Use of Land for Livestock Grazing
6	Orono	WHPA-A	Pesticide Application
7	Greenbank	WHPA-A	ASM Application, Fertilizer Application, Pesticide Application
8	Greenbank	WHPA-A	Fertilizer Application

7.2. Risk Management Plans Established by Order Under Section 58(10) Of CWA

#	Township	WHPA or IPZ	SDWT Activity
0	-	-	-

7.3. Risk Management Plans Established by Order Under Section 58(12) Of CWA

#	Township	WHPA or IPZ	SDWT Activity	Reason for Refusal
0	-	-	-	-

7.4. Risk Management Plans RMO Refused to Agree to or Establish Under Section 58(16) or Section 58(15) of CWA

#	Township	WHPA or IPZ	SDWT Activity	Circumstances
0	-	-	-	-

7.5. Orders Issued by RMO Under Part IV of CWA

#	Township	WHPA or IPZ	SDWT Activity	Circumstances
0	-	-	-	-

7.6. Notices Received from a Person Engaged in an Activity, Notifying RMO of Their Possession/Intent to Obtain Prescribed Instrument Under Section 61(2) & (7) Of CWA

#	Township	WHPA or IPZ	SDWT Activity	Prescribed Instrument
0	-	-	-	-

7.7. Notices Issued by RMO Under Section 61(6) & (8) of CWA Notifying a Person Engaged in a SDWT Activity of the Termination of an Exemption Under Section 61(1)

#	Township	WHPA or IPZ	SDWT Activity	Prescribed Instrument
0	-	-	-	-

7.8. Section 61 (1) Exemptions Granted

#	Township	WHPA or IPZ	SDWT Activity	Prescribed Instrument
0	-	-	-	-

7.9. Inspections Carried Out Under a Risk Management Plan

#	Township	WHPA or IPZ	SDWT Activity
1	Port Perry	WHPA-A	Fuel
2	Port Perry	WHPA-A	Livestock Grazing
3	Newcastle	IPZ-2	Fuel.
4	Greenbank	WHPA-A	ASM Application, Fertilizer Application
5	Greenbank	WHPA-A	Livestock Grazing
6	Orono	WHPA-A	Pesticide Application (unable to make contact in 2023. Efforts will continue in 2024)
7	Greenbank	WHPA-A	ASM Application, Fertilizer Application, Pesticide Application
8	Greenbank	WHPA-A	Fertilizer Application (unable to make contact in 2023. Efforts will continue in 2024)

7.10. Inspections Resulting in Non-Compliance with a Risk Management Plan

#	Township	WHPA or IPZ	SDWT Activity
0	-	-	-

7.11. Inspections Conducted on Prohibited Activities

#	Township	WHPA or IPZ	SDWT Activity
0	-	-	-

7.12. Cases Where Prohibited Activities Were Being Engaged in During Inspections

Description of Circumstances
N/A

7.13. Risk Assessments Submitted, Accepted and Not Accepted Under Section 60

#	Township	WHPA or IPZ	SDWT Activity
0	-	-	-

7.14. Instances Where RMO Caused a Thing to be Done Under Section 64 of CWA

#	Township	WHPA or IPZ	SDWT Activity
0	-	-	-

7.15. Prosecutions Made Under Section 106 of CWA

Description
N/A

7.16. Prosecutions Made Under Section 106 of CWA Resulting in Conviction

Description
N/A

8. Septic System Inspection Program

Item	Description
Required Inspections	Blackstock (5) Greenbank (17) Port Perry (3)
Lead Authority	Greg Annis, Manager, Durham Region Environmental Health, Chief Building Official.
Inspection Protocol	A visual inspection is conducted on the property and the site is recorded by GPS then entered into a database. If a potential malfunction of the septic system is detected, then further inspection is conducted.
Inspection Progress	Re-inspections conducted in 2021. Due again in 2026.

9. Source Protection Plan Reporting Requirements

9.1. RMO Reporting Requirements

Type	Policy No.	Status	Details
General	G-8(1)	Complete	Implementation of source protection plan and negotiation of RMPs complete.
General	G-8(2)	Complete	Prioritization and negotiation of RMPs complete.
General	G-8(3)	Complete	The miscellaneous provisions required by this policy have been established in the RMP process.
Sewage	S-9	Complete	
Sewage	S-10	Not Applicable	Section 59 screening tool will be used for future threat verification.
Agriculture	A-1(1)	Complete	RMPs complete.
Agriculture	A-1(2)	Complete	Applicable prescribed instruments will be considered, as appropriate.
Agriculture	A-1(3)	Not Applicable	No handling and storage of pesticide threats present.
Agriculture	A-4(1)	Not Applicable	No future threats.
Agriculture	A-4(2)	Not Applicable	No future threats.
Agriculture	A-4(3)	Not Applicable	No future threats.
Fuel	F-1	Not Applicable	No future threats.
Fuel	F-2(1)	Complete	Fuel threat RMPs have been negotiated and established.

Fuel	F-2(2)	Complete	Annual inspection required as part of negotiated RMP.
Road Salt	R-1(1)	Not Applicable	No road salt threats.
Road Salt	R-1(2)	Not Applicable	No road salt application threats.
Road Salt	R-5	Not Applicable	No road salt storage threats.
Road Salt	R-6	Not Applicable	No road salt storage threats.
Waste Disposal Site	W-3	Not Applicable	No waste disposal site threats.
Waste Disposal Site	W-4(1)	Not Applicable	No waste disposal site threats.
Waste Disposal Site	W-4(2)	Not Applicable	No waste disposal site threats.
DNAPL	D-1	Not Applicable	No DNAPL threats.
DNAPL	D-2	Not Applicable	No DNAPL threats.
DNAPL	D-3(1)	Not Applicable	No DNAPL threats.
DNAPL	D-3(2)	Not Applicable	No DNAPL threats.
NASM	N-2	Not Applicable	No NASM application, storage or handling threats.
NASM	N-3	Not Applicable	No NASM application, storage or handling threats.
Snow Storage	O-1(3)	Not Applicable	No snow storage threats.
Snow Storage	O-2	Not Applicable	No snow storage threats.
Aquaculture	Q-1	Not Applicable	No aquaculture threats.
Aquaculture	Q-2	Not Applicable	No aquaculture threats.
Aircraft De-icing	P-1(1)	Not Applicable	No De-icing threats.
Aircraft De-icing	P-1(4)	Not Applicable	No De-icing threats.
Monitoring for Nitrate	I-1	Not Applicable	Blackstock Well 1 decommissioned to eliminate nitrate issue. Groundwater from MW8 continues to be monitored for nitrates, results are listed in the annual water quality report.

9.2. Municipality Reporting Requirements

Type	Policy No.	Status	Details
General	G-3(1)	Not Applicable	No properties purchased in 2023.
General	G-5(1)	Complete	Source water overview materials developed in collaboration with area municipalities. Additional targeted material developed to address low and moderate threats. E&O policy.
General	G-5(2)	Complete	Source water overview materials developed in collaboration with area municipalities. Additional targeted material developed to address low and moderate threats.

General	G-5(3)	Complete	Durham taking lead role in E&O.
General	G-5(4)	Complete	Durham taking lead role in E&O.
General	G-5(5)	Complete	E&O program continues to be developed, existing materials include fact sheets and BMPs to eliminate threats to drinking water, this includes existing and future fuel threats.
General	G-5(6)	Complete	Targeted materials developed. Materials include fact sheets and BMPs to eliminate threats to drinking water; this includes existing and future fuel threats.
General	G-6(3)	Complete	Signs installed prior to plan approval.
General	G-11(1)	Complete	All emergency response plans updated.
Sewage	S-1(1)	Complete	Septic inspections completed in 2021. Due again in 2026.
Sewage	S-4(1)	Complete	Regional council passed amendment to by-law #89-2003 requiring mandatory connection on October 23, 2019.
Sewage	S-6(1)	Complete	Emergency response plan updated.
Sewage	S-6(3)	Complete	Maintenance and asset management activities have been assessed and completed.
Sewage	S-8(2)	Not Applicable	Area municipality responsible for stormwater management.
Snow Storage	O-1(1)	Not Applicable	No snow storage threats.
Snow Storage	O-1(2)	Not Applicable	No snow storage threats.
Transportation Corridors	OT-1(1)	Complete	Spill response plan updated.
Transportation Corridors	OT-1(2)	Complete	Response plan reviewed and updated as needed annually.
Transport Pathways	OT-2(1)	Complete	Targeted materials developed. Materials include fact sheets and BMPs to eliminate threats to drinking water.
Transport Pathways	OT-2(2)	Complete	Regional council passed amendment to by-law #89-2003 to eliminate transport pathways on October 23, 2019.
Pipeline	L-2(8)	Complete	Spills response plan located at all plants and maintenance depots. Also available online in the Regions Integrated Management System. Includes notification of all applicable parties in the event of a spill.
Pipeline	L-2(9)	Complete	Spills response for pipeline rupture updated to include source water protection.
Pipeline	L-2(10)	Complete	No activation of emergency response plan in 2023.
Pipeline	L-2(11)	Complete	Emergency response plans reviewed annually and updated as needed.

Water Quantity Demand	Y-1(6)	Complete	Water conservation plan finalized in April 2020.
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9.3. Planning Approval Authority Reporting Requirements

Type	Policy No.	Status	Details
General	G-7(2)	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
General	G-10(1)	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Sewage	S-3(2)	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Sewage	S-4(3)	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Sewage	S-5(1)	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Sewage	S-7(1)	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Road Salt	R-4(3)	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Waste	W-2(2)	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
Water Quantity	Y-1(2)	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.

Water Quantity	Z-1	In Progress	The Durham Region Official Plan, which includes source water protection land use policies, has been adopted by Regional Council and is currently with the Province for approval.
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Appendix A

Significant Drinking Water Threats	A	B	C	D	Remaining SDWTs to be Addressed (A+B-C=D)
The establishment, operation, or maintenance of a waste disposal site within the meaning of Part V of the <i>Environmental Protection Act</i> .					
The establishment, operation or maintenance of a system that collects, stores, transmits, treats, or disposes of sewage.	88	1	64	25	0
The application of agricultural source material to land.	8		5	3	0
The storage of agricultural source material	1		1		0
The management of agricultural source material					
The application of non-agricultural source material to land	1		1		0
The handling and storage of non-agricultural source material					
The application of commercial fertilizer to land	63		60	3	0
The handling and storage of commercial fertilizer	1		1		0
The application of pesticide to land	7		4	3	0
The handling and storage of pesticide	1		1		0
The application of road salt					
The handling and storage of road salt					
The storage of snow					
The handling and storage of fuel	34	2	34	2	0
The handling and storage of a dense non-aqueous phase liquid	2		2		0
The handling and storage of an organic solvent					
The management of runoff that contains chemicals used in the de-icing of aircraft					
The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard O. Reg. 385/08, Section 3.	1	2	1	2	0
Water taking from an aquifer without returning the water to the same aquifer or surface water body					
Reducing recharge of an aquifer					
Total	207	5	174	38	0

A = Original estimate of SDWT in the Approved Assessment Report

B = Additional SDWT identified after SPP approved as a result of field verification

C = SDWT included in enumeration estimates at time of plan approval but subsequently determined through field verification that: (i) it was **not** actually engaged in at a particular location after all or (ii) it was **no longer** engaged in at the location

D = SDWT addressed through policy implementation