



Source Water Protection Electronic Annual Report City of Ottawa - 2023

Report Id	Completed	Question	Category
5	True	Please provide contact information for the staff member completing the report (include full name, email address, phone number, title)	Other reporting items
Answer:		Tessa Di Iorio, Risk Management Official/Inspector, Hydrogeologist City of Ottawa, Infrastructure and Water Services Department tessa.diiorio@ottawa.ca 613-580-2424 x17658	
Comment:			



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Report Id	Completed	Question		Answer
2213	True	SALT-6 Non Legally Binding: Has your municipality completed the Smart About Salt training and promoted it to contractors?		
Response				Answer
Completed				Yes
We have considered it, but will not be doing this				No
We will be doing this				No
Comment: The City of Ottawa implements an internally-developed winter road maintenance and salt management training program which is similar to (and more comprehensive than) the Smart about Salt certificate program. The City's program includes full training regarding salting practices and the City's Road Salt Management Plan; best management practices; environmental concerns related to road salt; freezing point deprivation; applicable legislation; and road design and construction related to winter road maintenance. The City trains over 600 roads and parking staff annually and requires training for all contractors hired by the City for winter road maintenance. In addition, 11 City staff are trained as champions in road salt management, these staff are accessible to respond to operator inquiries and provide additional training as needed.				



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Report Id	Completed	Question	Category
2215	True	SEW-6-LB Sanitary Sewer Maintenance Program has been initiated and sanitary sewers are inspected every 5 years	Implementation status of source protection plan policies
Answer:	Yes		

Comment:

The current sanitary sewer maintenance program within the Mississippi-Rideau area is as follows:

- Infrastructure Services has identified the relevant pipes of interest, information is shared through a layer within the City's GIS program.
- Wastewater Collection Crews deploy a contractor, under their supervision, to clean the indicated pipes. This work is followed by the capture of CCTV footage, all completed under PACP certification. Footage is reviewed by city staff and any deficiencies are identified and repaired.
- In compliance with the Source Protection Plan, these areas will be cleaned and camera work completed at 5 year intervals going forward.
- An automated preventative maintenance program has been set up within the City's MMS to trigger the start of this work every five years.

• The sanitary sewer maintenance program was first implemented in 2015/2016. Identified sewers within the Mississippi-Rideau Source Protection Region were cleaned as part of the work contract and had CCTV inspections completed following cleaning of the sewers (within the regions of Carp, Munster, and Richmond).

• The second round of maintenance work was completed in 2021 (Richmond: between May 1st and 14th, 2021; Carp between July 1st and July 15th, 2021; Munster between October 1st and November 25th, 2021). City staff completed a review the completeness of the 2021 CCTV inspections in early 2022, no deficiencies were detected.



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Report Id	Completed	Question	Category
2216	True	SEW-4-LB Mandatory Connection to Sewer Services--In areas where on-site sewage systems are a significant drinking water threat, the municipality through their powers under the Municipal Act must require connection to municipal services(capacity permitting and within designated serviced areas) where services are available at the property line inthe following situations:• Where an existing system has failed a Phase II Maintenance Inspection and/or an order has been issued toreplace or do significant upgrades• When the Principal Authority has deemed an existing system inadequate to service a proposedredevelopment / renovation• For new development	Implementatio n status of source protection plan policies

Answer: Yes

Comment: The Sewer Connection By-Law is currently being updated at the City. The project has been delayed, however the update is expected to be complete by the end of 2024.

The update includes the following:

The City shall require connection to the Public Sewage Works in areas where the on-site sewage system is a significant drinking water threat as described in the Clean Water Act, as amended, and associated Technical Rules, as amended, (capacity permitting) where services are available at the property line in the following situations:

- (1) where an existing system has failed a Phase II Maintenance Inspection and/or an order has been issued to replace or do significant upgrades; or
- (2) when the Principle Authority has deemed an existing system inadequate to service a proposed redevelopment or renovation; or
- (3) for new development or existing vacant lots of record.

Report Id	Completed	Question
300	True	Number of risk management plans agreed to or established, within your municipality, in this reporting period (i.e., annual total).

Agency	Current Year	Cumulative Count
Mississippi Rideau SPR	1	11
Provincial Total	1	11

Comment: na



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Report Id	Completed	Question		
310	True	Number of properties (i.e., parcels) with risk management plans agreed to or established in this reporting period.		
Agency			Current Year	Cumulative Count
Mississippi Rideau SPR			1	1
Provincial Total			1	1
Comment: na				

Report Id	Completed	Question		
320	True	How many existing* significant drinking water threats have been managed through the established risk management plans in this reporting period (* meaning engaged in OR enumerated as existing significant threats)?		
Agency			Current Year	Cumulative Count
Mississippi Rideau SPR			1	1
Provincial Total			1	1
Comment:				



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Report Id	Completed	Question									
330	True	Number of outstanding risk management plans required to address EXISTING significant drinking water threats, as of the end of this reporting year.									
<table border="1"> <thead> <tr> <th>Agency</th> <th>Current Year</th> <th>Cumulative Count</th> </tr> </thead> <tbody> <tr> <td>Mississippi Rideau SPR</td> <td>1</td> <td>6</td> </tr> <tr> <td>Provincial Total</td> <td>1</td> <td>6</td> </tr> </tbody> </table>			Agency	Current Year	Cumulative Count	Mississippi Rideau SPR	1	6	Provincial Total	1	6
Agency	Current Year	Cumulative Count									
Mississippi Rideau SPR	1	6									
Provincial Total	1	6									
<p>Comment: In 2022 there were 5 outstanding RMPs required to address existing residential fuel tanks within the Mississippi-Rideau SPR. A Fuel Tank Incentive Program was approved by the City Council in May 2022. The program offers financial incentives to remove existing fuel oil tanks that are located near municipal wells and replace them with an alternate heating source (air source heat pump or natural gas), that are not considered a significant drinking water threat. Additional incentives were included to support a green energy option (air source heat pump), to coincide with the City's climate change initiatives. The goal of the fuel tank incentive program is to eliminate existing fuel threats and protect rural communal drinking water resources. The Fuel Tank Incentive Program was developed during fall 2022 through spring 2023; the program launched in June 2023.</p> <p>2023 Results:</p> <ul style="list-style-type: none"> •Of the 5 residents in the Mississippi-Rideau Source Protection Region who did not have RMPs for their fuel tanks: four residents had converted to natural gas heating proactively prior to the start of the program and all were included in the Fuel Tank Incentive Program and received a rebate; and one resident has applied to participate in the program and plans convert remove their fuel oil tank and convert to natural gas heating in 2024. 											

Report Id	Completed	Question									
340	True	Since their establishment, were any risk management plans cancelled within the source protection region/area because of updates or amendments or other changes? If yes, please state how many. If no, please enter "0". Note: This count should be the cumulative count of all risk management plans that have been cancelled over any of the previous reporting years. See guidance for more details.									
<table border="1"> <thead> <tr> <th>Agency</th> <th>Current Year</th> <th>Cumulative Count</th> </tr> </thead> <tbody> <tr> <td>Mississippi Rideau SPR</td> <td>2</td> <td>2</td> </tr> <tr> <td>Provincial Total</td> <td>2</td> <td>2</td> </tr> </tbody> </table>			Agency	Current Year	Cumulative Count	Mississippi Rideau SPR	2	2	Provincial Total	2	2
Agency	Current Year	Cumulative Count									
Mississippi Rideau SPR	2	2									
Provincial Total	2	2									
<p>Comment: Two RMPs related to fuel storage (home heating oil) were cancelled since the homeowner removed the oil tank and converted to natural gas heating; the homewoners received a rebate from the City of Ottawa for the conversion away from home heating oil through the City's Fuel Tank Incentive Program.</p>											



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Report Id	Completed	Question		
400	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?		
Agency			Current Year	Cumulative Count
Mississippi Rideau SPR			0	0
Provincial Total			0	0
Comment:				

Report Id	Completed	Question		
410	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?		
Agency			Current Year	Cumulative Count
Mississippi Rideau SPR			0	0
Provincial Total			0	0
Comment:				

Report Id	Completed	Question		
500	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 in this reporting period?		
Agency			Current Year	Cumulative Count
Mississippi Rideau SPR			0	0
Provincial Total			0	0
Comment:				



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Report Id	Completed	Question	Category
600	True	Provide a brief overview of inspections that were carried out for activities that are prohibited under section 57 or require a risk management plan under section 58 of the Clean Water Act. You may wish to include a brief summary of inspection results and an overall indication of compliance. If no inspections were conducted in the previous calendar year, please explain. [OPTIONAL]: If you wish to share any insights or feedback about the compliance process in general, please do so.	Part IV (Sections 57, 58 & Section 59)
Answer:		Not applicable	

Comment:

Report Id	Completed	Question
610	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 in this reporting period. NOTE: The term inspections refers to those conducted under the authority of section 62 of the Clean Water Act, 2006 related to an activity to which section 56, 57, or 58 of the Act applies. This includes inspections carried out for threat verification purposes. It does not include the delivery of documents such as notices or a signed risk management plan. The term contravention as used in the context of inspections refers to activities being undertaken that are in violation of sections 57 and 58 of the CWA relative to the policies noted in the SPP.

Agency	Current Year	Cumulative Count
Mississippi Rideau SPR	0	0
Provincial Total	0	0

Comment:



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Report Id	Completed	Question									
630	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 in this reporting period?									
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Mississippi Rideau SPR	0	0									
Provincial Total	0	0									
Comment: Not applicable											

Report Id	Completed	Question									
700	True	How many existing significant drinking water threats have been prohibited as a result of section 57 prohibitions in this reporting period?									
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Provincial Total	0	0									
Comment:											

Report Id	Completed	Question									
800	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 in this reporting period.									
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Provincial Total	0	0									
Comment:											



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Report Id	Completed	Question									
820	True	Among the inspections conducted for section 58, how many were in contravention with section 58 of the Clean Water Act in 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)?									
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Comment: Not applicable											

Report Id	Completed	Question									
830	True	Among the inspections for section 58, how many were in non-compliance with the specific contents of the risk management plan in this reporting period? (NOTE: Please only include those inspections that showed non-compliance with measures/conditions to manage the actual threat activity.)									
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Comment: Not applicable											

Report Id	Completed	Question									
840	True	State the total number of notices issued where there were cases of contraventions and/or non-compliance found with section 57 in this reporting period.									
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Report Id	Completed	Question									
860	True	State the total number of orders issued for contraventions and/or non-compliance found with section 57 in this reporting period.									
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870	True	State the total number of orders issued for contraventions and/or non-compliance found with section 58 in this reporting period.									
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Comment:											



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Report Id	Completed	Question	
2210	True	Has your municipality completed their required Official Plan update to include Source Protection Policies?	
		Response	Answer
		Completed	Yes
		Completed, but under appeal	No
		Needs updating to reflect amended SPP	No
		In progress	No
		Not started	No
		Not applicable	No
Comment: The new Official Plan was adopted by City Council on October 27, 2021. The Plan was approved by the Ministry of Municipal Affairs and Housing on November 4th, 2022 and is now in full force and effect. Source protection policies in the new Official Plan conform to local Source Protection Plans and can be found in Section 4.9.5 of under the heading, "Implement the policies of the Mississippi-Rideau Source Protection Plan and the Source Protection Plan for the Raisin-South Nation Source Protection Region". Source protection policies were developed in consultation with the local Source Protection Regions.			



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Report Id	Completed	Question	
2220	True	Has your municipality completed their required Zoning Bylaw update to include Source Protection Policies?	
		Response	Answer
		Completed	No
		Completed, but under appeal	No
		Needs updating to reflect amended SPP	No
		In progress	Yes
		Not started	No
		Not applicable	No
Comment: Following approval of the new Official Plan, the City has initiated the process of developing a new Zoning By-law to implement the policies in the new Official Plan, including implementing new zoning provisions to conform to source protection policies. An initial draft for the new zoning has been prepared and a process to review new development application within designated vulnerable areas was prepared in 2023; the Source Protection Regions are involved with the consultation process regarding new zoning by-law amendments related to source protection policies. An updated draft of the zoning by-law and related review process are expected for 2024.			



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Report Id	Completed	Question	
2300	True	Indicate the methods by which education and outreach policies have been/are being implemented in the municipality for the reporting period by all the relevant implementing bodies from the checklist below. Choose all that apply.	
Response			Answer
Development and distribution of educational materials for the general public			Yes
Development and distribution of educational materials for target audiences			Yes
In-person Workshops			No
Site visits			No
Source protection content for websites			Yes
Educational videos (e.g. YouTube)			No
Podcasts			No
Collaboration with other bodies (e.g. local organizations, Ministries)			Yes
Social media promotion (e.g. use of Facebook, Twitter, Instagram, etc.)			Yes
Traditional media advertising (e.g. print media, radio, television)			Yes
Integration with other outreach programs or campaigns			Yes
Articles in publications			No
Information kiosks at events / festivals			No
Other. Please specify:			No
Comment:			



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Report Id	Completed	Question	Category
2311	True	Briefly explain how education and outreach implementation success was evaluated and any results achieved	Education & Outreach
Answer:		<p>The City of Ottawa developed and maintains Outreach and Education materials including 19 factsheets and a City-hosted Source Protection website with an interactive map; please see Ottawa.ca/SourceProtection or Ottawa.ca/protectiondessources. Drinking Water Protection Zones are also included and maintained as a map layer on the City's interactive geoportal (GeoOttawa.ca).</p> <p>The City plans to implement a recurring social media campaign in 2024 to promote program awareness and safe practices to protect our shared drinking water resources. A review of the City of Ottawa's Source Protection education and outreach program is planned for 2024.</p>	
Comment:			

Report Id	Completed	Question									
2410	True	State the number of source water protection signs installed on municipal roads in the source protection region/area in this reporting period.									
Agency		<table border="1"> <thead> <tr> <th></th> <th>Current Year</th> <th>Cumulative Count</th> </tr> </thead> <tbody> <tr> <td>Mississippi Rideau SPR</td> <td>0</td> <td>0</td> </tr> <tr> <td>Provincial Total</td> <td>0</td> <td>0</td> </tr> </tbody> </table>		Current Year	Cumulative Count	Mississippi Rideau SPR	0	0	Provincial Total	0	0
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Comment:		<p>The City's primary goal has been the implementation of legally-binding source protection policies, following which non-legally binding policies will be evaluated and implemented as deemed appropriate.</p> <p>Funding has been secured to install source water protection signs on Municipal roads and waterways in 2024. The City will evaluate locations to install signs on Municipal roads and waterways, in consultation with the Source Protection Regions. An update will be provided to the Source Protection Region in the 2024 Annual Source Protection Update Report.</p>									



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Report Id	Completed	Question									
2420	True	State the number of source water protection signs installed at other locations (if applicable) in the source protection region/area in this reporting period.									
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Agency	Current Year	Cumulative Count									
Mississippi Rideau SPR	0	0									
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Comment:	The City's primary goal has been the implementation of legally-binding source protection policies, following which non-legally binding policies will be evaluated and implemented as deemed appropriate. Funding has been secured to install source water protection signs on Municipal roads and waterways in 2024. The City will evaluate locations to install signs on Municipal roads and waterways, in consultation with the Source Protection Regions. An update will be provided to the Source Protection Region in the 2024 Annual Source Protection Update Report.										

Report Id	Completed	Question	Category
2500	True	If applicable to the source protection region/area, in the response box below, briefly summarize the type of incentive(s) (e.g., prescribed instrument application fees waived, funding, other non-financial incentives, etc.) that was made available (whether as a policy in the source protection plan or not), the source that provided the incentive(s), the prescribed drinking water threat activity(ies) to which it relates, and the degree to which the incentive(s) assisted with the implementation of source protection plan policies that address significant drinking water threat activity(ies) (i.e., Full degree, Significant/large degree, Moderate degree, Some degree, or Limited degree) in your source protection region/area.	Incentives



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Answer:

Fuel Tank Incentive Program (2022-2024)

The City of Ottawa Fuel Tank Incentive Program was approved by City Council in May 2022 and is expected to be complete by 2024. The program offers financial incentives to remove existing fuel oil tanks that are located near municipal wells and replace them with an alternate heating source (air source heat pump or natural gas), that are not considered a significant drinking water threat. Additional incentives were included to support a green energy option (air source heat pump), to coincide with the City's climate change initiatives. The goal of the fuel tank incentive program is to eliminate existing fuel threats and protect rural communal drinking water resources.

Program eligibility includes 15 residences that had a fuel oil tank within a Wellhead Protection Area (vulnerability score 10) since 2017 when the City completed a source protection threats verification project. Of the 15 eligible residences, three residents had proactively converted to natural gas heating prior to 2022, and there were 12 recorded existing fuel oil tanks at the start of the program (within two Source Protection Regions). Of the 12 existing fuel tanks, RMPs had been negotiated for six existing fuel tanks and fuel threats were unmanaged at six residences with existing fuel tanks (no RMP) due to non-responsive or non-compliant landowners. Another goal of the fuel tank incentive program was to encourage compliance through an incentive (rebate) program.

Program organization began in fall 2022 with the development of program workplans, processes, communication materials, a program application form and legal agreements and financial procedures; which were complete by spring 2023. The City partnered with Rideau Conservation Authority who prepared landowner communication packages and delivered the program. The program launched in June 2023, with all eligible residents receiving program information and invitations to participate; in-person visits were scheduled interested residents. Most homeowners were very receptive to the program; 11 out of 15 eligible residents have either participated or have signed up to participate in the rebate program in 2024.

2023 Results - Removal or management of 12 existing Fuel tank threats near municipal wells (two Source Protection Regions):

- Of the six residents who had RMPs for their fuel tanks: three residents converted to natural gas (two converted as part of the program and one converted prior to the start of the program); one resident applied to participate in the program and plans to convert to natural gas in 2024; one resident has opted to retain their home heating oil system and will maintain their fuel oil tank through the negotiated RMP; and one resident has been non-responsive and staff will continue communication to encourage program participation in 2024.
- Of the 6 residents who did not have RMPs for their fuel tanks: five residents had converted to natural gas heating proactively prior to the start of the program and all were included in the Fuel Tank Incentive Program and received a rebate; and one resident has applied to participate in the program and plans convert remove their fuel oil tank and convert to natural gas heating in 2024.

In summary, of the 12 existing fuel tank threats: eight threats have been removed, two threats will be removed in 2024, and there are negotiated RMPs for the two remaining fuel tank threats, thus all fuel tank threats will be eliminated or managed by 2024.

Comment:



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Report Id	Completed	Question	Category
3300	True	Does the municipality have any other item(s) on which it wishes to report? If so, please explain.	Other reporting items
Answer:		The City can provide chloride data from municipal wells upon demand (as requested in previous years).	
Comment:			

Section 2 - Implementation Status Questions

Approver Name: _____

Title: _____

Date Signed: _____