

MEMO / NOTE DE SERVICE



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**TO: Chair and Members of Standing Committee on Environmental Protection,
Water and Waste Management**

**DESTINATAIRE : Président et membres du Comité permanent de la protection de
l'environnement, de l'eau et de la gestion des déchets**

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DATE: February 18, 2020

18 février 2020

FILE NUMBER: ACS2020-PIE-IS-0001

SUBJECT: Annual Drinking Water Source Protection Status Update - 2019

**OBJET : Compte rendu annuel concernant la protection des sources d'eau
potable - 2019**

Purpose

The purpose of this memorandum is to provide Members of the Standing Committee on Environmental Protection, Water and Waste Management with an annual status update on the Drinking Water Source Protection Program.

Source Protection Municipal Implementation and Risk Management Official (RMO) reports are required to be submitted to the Source Protection Authorities (Conservation Authorities) by February 1 of each calendar year, as specified in the *Clean Water Act*.

Background

Drinking Water Source Protection safeguards public health from drinking water threats by raising awareness and protecting our groundwater and surface water resources. Ontario's *Clean Water Act* requires municipalities to implement Source Protection Plans to protect existing and future sources of municipal drinking water from various threats.

The City of Ottawa lies within two Source Protection Regions, each with their own locally-developed, science-based source protection plans that contain policies to protect municipal drinking water resources:

- [Mississippi-Rideau Source Protection Plan](#) (effective date January 1, 2015); contains policies related to the Intake Protection Zone for the Britannia and Lemieux Island surface water systems and the Wellhead Protection Areas for the groundwater wells at Carp, Munster, Richmond - King's Park Subdivision and Richmond West.
- [Raisin-South Nation Source Protection Plan](#) (effective date April 1, 2015); contains policies related to the Wellhead Protection Areas for the groundwater wells Vars and Greely - Shadow Ridge Subdivision.
- See Document 1 that shows the locations of the City of Ottawa's Drinking Water Protection Zones.

A notable change to the City's Source Protection Program in 2019 was the addition of a new drinking water system in Richmond. The Richmond West Municipal Well System will service all of the Western Development Lands north and south of Perth and Ottawa Streets within the village of Richmond as defined by the Richmond Secondary Plan. The Rideau Valley Source Protection Assessment report and Mississippi-Rideau Source Protection Plan were updated with new Wellhead Protection Zone mapping and threats assessments for the Richmond West Municipal Well System. Groundwater pumping at new well system also affects two existing Wellhead Protection Areas for the King's Park Municipal Well System in Richmond and the Munster Municipal Well System. This amendment to the Mississippi-Rideau Source Protection Plan and the Rideau Valley Assessment report was approved on March 11, 2019 by the Ministry of Environment,

Conservation and Parks (MECP). The approved amendment took effect on March 25, 2019.

The City has a proactive approach to raising public awareness and managing threats to drinking water resources as part of the Source Water Protection Program, this includes developing risk management plans for existing or new activities that may be a threat to drinking water resources as well as outreach and communications to impacted residents.

More information about Drinking Water Source Protection and the City's Source Protection Program can be found at: www.Ottawa.ca/SourceProtection.

2019 Annual Reports

In accordance with the regulations of the *Clean Water Act*, the City is obligated to provide an annual report to local Source Protection Authorities describing Source Protection Plan implementation. More specifically the reports must include updates of the following:

- 1) Activities performed by the City's Risk Management Official; which include screening development applications for potential significant threat activities or working with landowners to develop risk management plans for existing significant threat activities, for example fuel storage.
- 2) Source Protection Plan policies that include actions directed at municipalities; this includes actions the City must undertake at its physical plants and sanitary sewer infrastructure, operational practices as well as outreach and education efforts.

As required, attached are the Risk Management Official's reports and Municipal Implementation reports for the 2019 reporting period, to be submitted to the Source Protection Authorities by February 1, 2020.

Overview of Reports

The implementation of Risk Management Official activities and municipal activities is ongoing, and the City is compliant with Source Protection Plan policies. Negotiation of Risk Management Plans with private landowners engaged in significant drinking water threat activities is expected to be complete in 2020.

The Risk Management Official Annual report for the Mississippi-Rideau Source Protection Region (Document 4) identifies two Risk Management Plans negotiated by the Risk Management Officer for storage of fuel (home heating oil) located at 1 Temple Street in Richmond and 14 Butterwick Street in Munster; which are located near municipal supply wells. In both instances and as required by the Mississippi-Rideau Source Protection Plan and the *Clean Water Act*, the Risk Management Plan requires the fuel storage tank to be maintained to a certain standard, tanks should be inspected annually and records maintained, and a replacement timeline for the fuel tank is identified. Storage of home heating oil is a common occurrence in the province, often in homes that have not yet converted to or have access to Natural Gas.

The Annual Report to the South Nation Source Protection Authority (see Document 5) identifies two *Planning Act* or *Building Code Act* applications screened by the Risk Management Office. In both instances, no potential drinking water threats were identified with the proposed activity associated with the development applications.

Please note the report style varies between the two Source Protection Regions, as report templates were provided to maintain consistency within each region.

Original signed by

Carina Duclos

SUPPORTING DOCUMENTATION

Document 1 Map of Drinking Water Protection Zones in the City of Ottawa

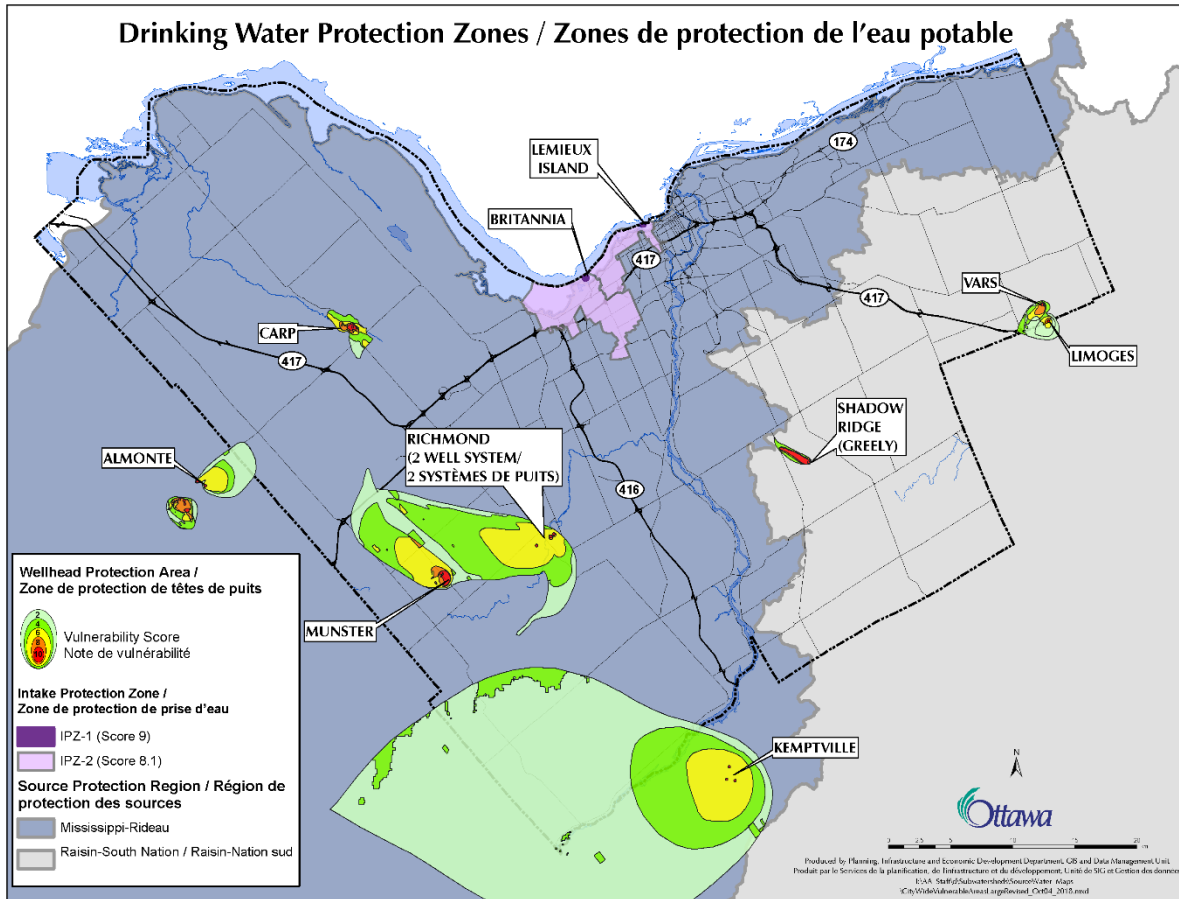
Document 2 Mississippi-Rideau Source Protection Plan Annual Report from the Municipality

Document 3 Risk Management Official Annual Report – Mississippi Source Protection Area

Document 4 Risk Management Official Annual Report – Rideau Valley Source Protection Area

Document 5 Annual Report to the South Nation Source Protection Authority (include Municipal Implementation and Risk Management official report)

Document 1 – Map of Drinking Water Protection Zones in the City of Ottawa



Document 3 – Risk Management Official Annual Report – Mississippi Source Protection Area

**Risk Management Official Annual Report
for the Mississippi-Rideau Source Protection Region**

Required under Section 81 of the *Clean Water Act*

Risk Management Official (RMO): Tessa Di Iorio, M.Sc., P.Geo.

Period: January 1- December 31, 2019

Source Protection Region: Mississippi-Rideau

Source Protection Area: Mississippi

Municipality: The City of Ottawa

Required Report Content (under section 65 of O. Reg. 287/07)		Number	Details
1	Risk Management Plans agreed to by the RMO under subsection 56(1) or 58(5) of the Act and the number of plans established by the RMO under subsection 56(6), 58(10) or (12) of the Act	0	n/a
2	Risk Management Plans the RMO refused to agree to or to establish under Subsection 56(9), 58(15) or (16)	0	n/a
3	Orders issued under Part IV of the Act	0	n/a
4	Notices given to or by the RMO under subsection 61(2), (7) and (10)	0	n/a
5	Inspections carried out under section 62 of the Act (for the purpose of enforcement)	0	n/a
6	Risk assessments submitted under section 60 of the Act	0	n/a
7	RMO caused a thing to be done under section 64 of the Act	0	n/a
8	Prosecutions and convictions under section 106 of the Act	0	n/a

The City of Ottawa Risk Management Office implements Part IV policies, including:

- review of development applications within vulnerable areas made under the *Planning Act* related to new activities;
- Section 59 internal screening procedures for *Planning Act* and *Building Code Act* applications will be amended following the enactment of a Section 59 By-law, which is being developed as part of the Official Plan and Zoning By-law conformity updates;
- initial development of an RMO database to facilitate threats verification and RMP management for existing activities.

Rideau-Mississippi Source Protection staff was retained by the City to support Part IV policy implementation related to existing significant drinking water threat activities (fuel and agriculture), which includes verification of existing threats and if necessary, negotiating Risk Management Plans in vulnerable areas to safeguard drinking water sources. The Source Protection Support contract is being extended into 2020 to include existing DNAPL threats and complete the threats verification and RMP development related to fuel storage.