



# The Regional Municipality of Durham

## COUNCIL INFORMATION PACKAGE

### February 14, 2020

#### **Information Reports**

- 2020-INFO-9 Commissioner of Works – re: Blackstock Landfill Mining Pilot Project
- 2020-INFO-10 Commissioner of Works – re: 2019 Source Water Protection Annual Report
- 2020-INFO-11 Commissioner and Medical Officer of Health – re: Program Reports

#### **Early Release Reports**

There are no Early Release Reports

#### **Staff Correspondence**

1. Memorandum from Dr. R. Kyle, Commissioner and Medical Officer of Health – re: Health Information Update – February 7, 2020

#### **Durham Municipalities Correspondence**

1. Township of Scugog – re: Resolution passed at their General Purpose and Administration meeting held on February 3, 2020, regarding Building Permit Activity Review 2019

#### **Other Municipalities Correspondence/Resolutions**

1. Village of Merrickville-Wolford – re: Resolution passed at their Council meeting held on January 27, 2020, regarding Provincially Significant Wetlands Designation

#### **Miscellaneous Correspondence**

There is no Miscellaneous Correspondence

#### **Advisory Committee Minutes**

There are no Advisory Committee Minutes

Members of Council – Please advise the Regional Clerk at [clerks@durham.ca](mailto:clerks@durham.ca), if you wish to pull an item from this CIP and include on the next regular agenda of the appropriate Standing Committee. Items will be added to the agenda if the Regional Clerk is advised by Wednesday noon the week prior to the meeting, otherwise the item will be included on the agenda for the next regularly scheduled meeting of the applicable Committee.

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# The Regional Municipality of Durham Information Report

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From: Commissioner of Works  
Report: #2020-INFO-9  
Date: February 14, 2020

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**Subject:**

Blackstock Landfill Mining Pilot Project

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**Recommendation:**

Receive for information.

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**Report:**

**1. Purpose**

- 1.1 The purpose of this report is to provide information on the Blackstock Landfill Mining pilot project. The primary objectives of the mining project were to reduce the environmental risks associated with the closed landfill, assess the feasibility of recovering energy from previously landfilled waste at the Durham-York Energy Centre (DYEC), and to improve the surface conditions at the landfill, improving habitat potential, and ultimately allowing for reduced monitoring and management of the site.
- 1.2 This project is eligible for a Green Municipal Fund (GMF) grant. As noted in the grant application, this report containing a technical, financial, and environmental analysis must be submitted to Council following the completion of the mining activities.

**2. Site Background**

- 2.1 The Regional Municipality of Durham (Region) has seven (7) landfills under its jurisdiction. Each of these landfills can be classified as a “legacy/historical” landfill. The landfills predated many provincial regulations, contain older waste, and have

minimal or no engineered controls in place to mitigate potential environmental effects associated with leachate and greenhouse gas generation and migration.

- 2.2 The Blackstock landfill is located on Edgerton Road east of Regional Road 57, near Blackstock, in the Township of Scugog. It is approximately two hectares (4.9 acres) in size and was estimated to contain approximately 30,000 cubic metres (m<sup>3</sup>) of waste. The site was capped when waste disposal operations ended in 1975. A transfer station was operated at the site by the Region until 2004. A groundwater and surface water monitoring program was initiated by the Region in 2003 with annual reporting to the Ministry of the Environment, Conservation and Parks (MECP).

### **3. Landfill Mining Overview**

- 3.1 The Landfill mining process involves the excavation of previously landfilled waste for mechanical separation and screening. Excavated material is placed into a mobile screening plant, which contains a rotating trommel (perforated drum) that separates the soils from the waste. The soils, which contain small pieces of wood, glass, and plastic, fall through the trommel onto a conveyor that discharges the soil into a stockpile, to be used to regrade the site. The larger waste materials that remain in the trommel are eventually discharged out the open end of the trommel onto the ground, forming waste stockpiles which are loaded into bins for transport off-site.

### **4. Preliminary Sub-Surface Investigations**

- 4.1 Fifteen test pits were excavated to gather additional information on sub-surface conditions. Electromagnetic and Ground Penetrating Radar surveys were performed to delineate the waste fill area by mapping buried metallic objects. No hazardous materials were identified.

### **5. Environmental Compliance Approval**

- 5.1 An amended ECA was issued on July 4, 2016 to allow the project to proceed, with conditions to provide the MECP district office with sampling programs for soil and surface water to be approved by the MECP district office prior to start of waste mining activity.

## **6. Blackstock Landfill Mining Project Summary**

- 6.1 Construction started on October 15, 2018. Preliminary work included removal of the remaining transfer station infrastructure and removal and stockpiling of the topsoil and interim soil cover layers over the waste footprint.
- 6.2 The landfill screening and excavation period commenced on November 1, 2018 and ended on January 24, 2019. The daily screening production rate was approximately 500 m<sup>3</sup> per working day, which resulted in a daily waste tonnage rate of approximately 100 tonnes. A total of 4,796 metric tonnes of waste was excavated from the site: 2,849 metric tonnes were processed at the DYEC and 1,947 metric tonnes of waste that contained high volumes of non-combustible material (e.g. rocks) was diverted to the Twin Creeks Landfill for disposal.
- 6.3 Concrete and scrap metal picked from the excavated waste and from the demolition of the transfer station infrastructure totaled 257.88 metric tonnes: 160 metric tonnes of concrete was hauled to the Lafarge pit in Orono and 97.88 metric tonnes of scrap metal was sent to the Langille scrap metal yard in Port Perry for recycling.
- 6.4 Approximately 80 m<sup>3</sup> of tires (around 450 tires) were separated and stockpiled during excavation. A portion of the tires were processed into crumb rubber for the manufacture of blue box lids for the Region's Blue Box Litter Mitigation Project.
- 6.5 Based on the size of the stockpiles, an estimated volume of 200 m<sup>3</sup> of logs and tree stumps were excavated from the landfill. The logs and tree stumps will be used in a future integrated naturalization project to improve water quality and habitat at the site.
- 6.6 Due to frost conditions during the winter, re-grading and final contour was rescheduled and completed on July 5, 2019. Once the site was backfilled and the final grades established, a final application of topsoil and hydro-seed was placed and completed on October 29, 2019, to establish a natural, vegetated cover. To date, the vegetated cover has been effective in controlling soil erosion at the site.

## **7. Health and Safety**

- 7.1 A project specific Health and Safety Plan (HASP) was developed by the contractor and submitted to the Region. The plan addressed hazard identification, safe operating procedures, personal protective equipment, and emergency procedures.

No hazardous materials (drums, chemical canisters, etc.) were encountered during the mining period.

## **8. Odour Control**

- 8.1 Operational procedures were put in place to minimize potential odour impacts during excavation; however, since no readily biodegradable material was observed during excavation, odour was not an operational issue and advanced controls were not required.

## **9. Durham York Energy Centre (DYEC)**

- 9.1 Landfill waste from the Blackstock landfill was transported to the Waste Management Transfer Station in Courtice and blended with curbside waste from the Region, prior to delivery to the DYEC. Further mixing of the landfill waste with curbside waste from Durham and York Regions in the pit resulted in an approximate 12:1 ratio of total waste to landfill waste processed at the DYEC between November 13, 2018 and February 1, 2019. No variation in emissions at the DYEC was observed during this period.
- 9.2 During this period, the monthly average for ferrous metal recovery increased to 413.3 tonnes from the preceding January to October monthly average of 232.4 tonnes; the monthly average for non-ferrous metal recovery increased to 39.3 tonnes from the preceding January to October monthly average of 33.8 tonnes; and there was an average monthly increase of 100 tonnes of bottom ash generated during the receipt of mixed waste.

## **10. Project Environmental Benefits**

- 10.1 The decomposition of landfilled waste generates methane (CH<sub>4</sub>) and carbon dioxide (CO<sub>2</sub>), which are greenhouse gases (GHG). As per the Region's corporate GHG emissions inventory, the estimated annual CO<sub>2</sub>e emissions from the Blackstock landfill for 2018 was 339 tonnes. With the completion of waste screening operations in late January of 2019, the CO<sub>2</sub>e emissions calculation for 2019 is 81 tonnes. With the removal of the waste from the site, the GHG emissions from 2020 onward is now estimated to be zero.
- 10.2 In 2014 an assessment for a Contaminant Attenuation Zone (CAZ) along the eastern landfill property boundary was completed. A CAZ is an area of land required to attenuate a contaminant plume in the groundwater to levels below provincial water quality standards and guidelines (Guideline B-7). Based on the

assessment, the required attenuation length for the site is 251 metres from the toe of the landfill's east slope. Establishing this zone would have required obtaining ownership and/or water rights for additional property. With the removal of the groundwater source contaminants, it is anticipated that future short-term groundwater monitoring will confirm compliance within the existing property boundary, which will reduce or eliminate the need to acquire a CAZ.

- 10.3 As per condition 2.7 of the ECA, the Region can request changes to the monitoring program as it is anticipated that with removal of the waste, improved groundwater quality will allow for a reduction in monitoring and reporting frequency at the site.
- 10.4 This project presents the unique benefit of converting landfilled waste that poses long-term environmental risks into a resource for energy recovery at the DYEC. It also removes the site as a potential environmental liability, as legacy landfills always have the potential to trigger immediate remedial action.
- 10.5 This pilot project will inform the Region's strategy and assessment of potential future mining projects for the remaining Region landfill sites that continue to pose environmental risks.

## 11. Project Financials

- 11.1 Project costs for the reclamation pilot (2016 to 2019) were as follows:

Company	Final Cost (\$)
Arrow Scale Inc (weigh scale relocation)	4,800
Golder Associates Ltd. (Consulting)	144,249
Ground Force Environmental Inc. (Reclamation)	1,091,010
<b>Total Reclamation Expenditures</b>	<b>\$1,240,059</b>

- 11.2 In a letter dated August 1, 2017, the Federation of Canadian Municipalities confirmed that the Region is eligible for a Green Municipal Fund (GMF) grant of up to \$350,000 for the landfill mining project, subject to completion and confirmation of eligible project costs (currently underway). This grant, anticipated to be received

in the Spring of 2020, will reduce the Regional cost of the Blackstock Landfill Mining pilot project to approximately \$890,059.

11.3 The Blackstock Landfill Mining Project Pilot was deemed a success from a business case and environmental perspective. The pilot is expected to transform a long-term financial liability into land with an associated residual value and it is anticipated that lifecycle costs following the pilot project implementation will be lower and temporary in comparison to the perpetual monitoring and maintenance costs with a business-as-usual approach. With 20-year benefits off-setting the Region's capital expenditures (2016 to 2019) on a discounted cash flow basis, the following value-added enhancements can be considered:

- Elimination of the 40-year Blackstock Landfill closure and post-closure financial liability;
- Elimination of requirements for more significant longer-term continuous monitoring of ground and surface water, and ongoing maintenance and reporting costs (risk and operational cost avoidance);
- Elimination of the previously identified capital need, in the absence of the reclamation project, for two additional monitoring wells and additional land for a CAZ to meet regulatory compliance (capital cost avoidance);
- The benefit to be realized in re-claiming and re-purposing the weigh scale at the closed site (tangible capital asset cost avoidance);
- Revenues and value-added from reusable and/or marketable materials recovered from the site;
- Energy recovery power revenues from the 2,849 tonnes of garbage residue processed at the DYEC; and,
- An enhanced land value for approximately 4.94 acres which can be sold or re-purposed at a higher valued purpose, after confirmation of improved groundwater quality via the approved monitoring program.

## 12. Conclusion

12.1 In summary, landfill mining presents an option and opportunity to address environmental concerns associated with old landfills, while also: recovering energy from reclaimed waste; recycling previously landfilled materials (metals, concrete, and tires); reducing or eliminating the need for longer-term groundwater monitoring or requirements to establish a CAZ to meet regulatory compliance; improving groundwater quality; removing Regionally owned landfill sites from the Corporate Greenhouse Gas Emissions Inventory and from the Regional Municipality of

Durham's annually reported landfill closure and post-closure liabilities; and, reclaiming Regionally owned land for sale or other higher value-added uses.

- 12.2 Lessons learned from the 2019 Blackstock landfill mining project are being used for investigative work on a potential landfill mining project at the Regional Municipality of Durham's Scott landfill in the Township of Uxbridge. This project is included within the 2020 Solid Waste Management preliminary capital program (an estimated \$4.2 million in 2021) and is subject to additional review, refinement and Council approval.
- 12.3 For additional information, please contact Gioseph Anello, Manager of Waste Planning and Technical Services, at 905-668-7711, extension 3445.

Respectfully submitted,

**Original signed by:**

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Susan Siopis, P.Eng.  
Commissioner of Works

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 3540.



# The Regional Municipality of Durham Information Report

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From: Commissioner of Works  
Report: #2019-INFO-10  
Date: February 14, 2020

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**Subject:**

2019 Source Water Protection Annual Report

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**Recommendation:**

Receive for information.

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**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 provide a summary of the implementation efforts and activities undertaken in 2019. Each report has been submitted to the corresponding Source Protection Authority by the due date of February 1, 2020.

**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 2019 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 has a duty to 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 with an effective date of 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 with an effective date of 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 with an effective date of 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 specific Source Protection Plan.

### **3. Implementation**

- 3.1 All of 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 17 risk management plans in total 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. Nine risk management plans have been negotiated to date.
- 3.2 During negotiation, it was found that approximately 90 per cent of the risk management measures contained in the risk management plans included best management practices which 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 implementation of 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 Region of Peel as members of the Lake Ontario Collaborative Group. The group is currently working under a Memorandum of Understanding to develop a 3-D hydrodynamic model of western Lake Ontario to support decision making and emergency response. The model will use existing data inputs from partners such as Ontario Power Generation, Toronto Region Conservation Authority, Ministry of the Environment, Conservation and Parks as well as specialized equipment that will be procured as part of this project. This work is being completed to satisfy the Lake Ontario policies in the approved CTC Source Protection Plan.
- 3.6 Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review. Planning Act applications received by the Region are being screened to ensure the requirements of the Source Protection Plans are being implemented.

#### **4. Conclusion**

- 4.1 The attached reports provide a summary of the implementation efforts and activities undertaken in 2019.
- 4.2 For additional information, please contact Greg Lymer, Risk Management Official, at (905) 668-7711 ext. 3500.

#### **5. Attachments**

Attachment #1: Risk Management Official Annual Report – Credit Valley – Toronto and Region – Central Lake Ontario Source Protection Region – January 1, 2019 to December 31, 2019

Attachment #2: Risk Management Official Annual Report – South Georgian Bay  
Lake Simcoe Source Protection Region – January 1, 2019 to  
December 31, 2019

Attachment #3: Risk Management Official Annual Report – Trent Conservation  
Coalition Source Protection Region – January 1, 2019 to  
December 31, 2019

Respectfully submitted,

**Original signed by:**

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Susan Siopis, P.Eng.  
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 2019 – December 31 2019

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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

**SPA Staff Contact:** Don Ford

**Submitted By:** Greg Lymer, Risk Management Official

**Date Submitted:** January 31, 2020

## 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 2019 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	May 2016	May 2016
Beata Golas	Risk Management Official	October 2016	October 2016
Tavis Nimmo	Risk Management Inspector	December 2016	November 2017
Colin Hall	Risk Management Inspector	November 2017	November 2017

## 5. Risk Management Office

5.1. Provide an overview of work planned for 2020

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. Staff will continue to attend community events to promote source water protection.
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
5	5	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.
Risk Management Official Forum	<input type="checkbox"/>	
Resource Catalogue / Campaign in a Box toolkit	<input checked="" type="checkbox"/>	Assisting in development of E&O materials.
Education & Outreach webinar	<input checked="" type="checkbox"/>	Assisting in development of E&O materials.

Tool / Resource		Comments and Suggestions
Education & Outreach community of practice	<input type="checkbox"/>	
Guidance Materials (fact sheets, information bulletins)	<input checked="" type="checkbox"/>	Assisting 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.

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 Agreed to 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) &amp; (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 Inspection Program

Item	Description
Required Inspections	Uxville (3)
Lead Authority	Laura Freeland, 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	All required properties have been inspected. Re-inspections to be conducted again in 2020.

## 9. Source Protection Plan Policy Reporting Requirements

### 9.1. RMO Policy Reporting Requirements

SDWT	Policy ID	Status	Details
General	GEN-1	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
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.
	WST-6	Not Applicable	No PCB storage or disposal threats.
Agricultural Source Material	ASM-2	Not Applicable	No ASM application threats.
	ASM-4	Not Applicable	No ASM storage threats.
Non-Agricultural Source Material	NASM-1	Not Applicable	No NASM application threats.
	NASM-2	Not Applicable	No NASM storage threats.
Livestock Grazing	LIV-1	Not Applicable	No livestock grazing threats.
	LIV-3	Not Applicable	No outdoor confinement or farm-animal yard threats.
Fertilizer	FER-2	Not Applicable	No application of fertilizer threats.
	FER-3	Not Applicable	No handling and storage of fertilizer threats.
Pesticide	PES-1	Not Applicable	No application of pesticide threats.
	PES-2	Not Applicable	No handling and storage of pesticide threats.
Road Salt	SAL-1	Not Applicable	No application of road salt threats.
	SAL-2	Not Applicable	No application of road salt threats.
	SAL-7	Not Applicable	No handling of road salts threats.

SDWT	Policy ID	Status	Details
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 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 in order to include on site in staff training. One property identified in AR as a threat was inspected and removed due to the absence of DNAPLs.
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 on site in staff training.
Recharge	REC-2	Complete	Staff conducted screenings of all new applications for construction in wellhead protection area. No quantity threats identified.

## 9.2. Municipality Policy Reporting Requirements

SDWT	Policy ID	Status	Details
General	GEN-1	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	GEN-2	Complete	One RMP established. Annual Inspections to be conducted to ensure conformity.
	GEN-5	Complete	Cost of septic inspections was covered by the Region.
	GEN-7	Not Applicable	Only applicable in ICA.
	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 2019.
Waste	WST-2	Complete	Exempt wastes have not been found to date.
Sewage	SWG-1	Complete	Septic inspection program completed in 2015.
	SWG-2	Complete	E&O materials developed in collaboration with area municipalities. To be delivered as needed.
	SWG-6	Complete	Regional council passed amendment to by-law #89-2003 requiring mandatory connection on December 16, 2015.
	SWG-7	Not Applicable	Only applicable in ICA.

SDWT	Policy ID	Status	Details
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	Terms of reference have been completed. Memorandum of Understanding has been completed. Staff continue to participate in the Lake Ontario Collaborative Group.
Demand	DEM-4	In Progress	Began working with consultant in 2017 to update previous draft of conservation plan. Funding for completion in 2019 budget.
	DEM-5	Complete	E&O materials developed in collaboration with area municipalities. To be delivered as needed.
	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	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
Sewage	SWG-3	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	SWG-4	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	SWG-9	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	SWG-12	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated

SDWT	Policy ID	Status	Details
			and will be completed as part of the Municipal Comprehensive Review.
	SWG-14	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	SWG-16	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	SWG-18	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
Road Salt	SAL-3	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
Demand	DEM-2	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
Recharge	REC-1	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.

## 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					
<b>Total</b>	<b>14</b>		<b>5</b>	<b>9</b>	<b>0</b>

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 2019 – December 31 2019

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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 Systems:** Cannington, Sunderland, Uxbridge

**SPA Staff Contact:** Bill Thompson

**Submitted By:** Greg Lymer, Risk Management Official

**Date Submitted:** January 31, 2020

## 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 2019 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	May 2016	May 2016
Beata Golas	Risk Management Official	October 2016	October 2016
Tavis Nimmo	Risk Management Inspector	December 2016	November 2017
Colin Hall	Risk Management Inspector	November 2017	November 2017

## 5. Risk Management Office

5.1. Provide an overview of work planned for 2020

Item	Description
Threat Verification	Threat verification complete. Threat enumeration can be found in Appendix A.
RMPs	Continue RMP negotiation with property owners in vulnerable areas that have verified agricultural SDWTs.
E&O	Staff will continue distributing Education and outreach materials in areas with low and moderate threat levels. Staff will continue to attend community events to promote source water protection.
Application Review and Section 59 Notices	Continue to review Planning Act/Building Permit applications.
Incentives	Will continue to work with property owners to guide funding opportunities.

## 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	60
Fertilizer	FERT(App)-1 FERT(H&S)-1,2	Complete	100
Pesticide	PEST(App)-1 PEST(H&S)-1,2	In Progress	70
Fuel	FUEL-1,2	In Progress	100
DNAPL	DNAPL-1,2	In Progress	90
Organic Solvents	SOLV-1	In Progress	90
Livestock Grazing	LSTOCK-1,2,3	In Progress	50
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
1	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
2	2	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"/>	Assisting in development of E&O materials.
Education & Outreach webinar	<input checked="" type="checkbox"/>	Assisting in development of E&O materials.
Education & Outreach community of practice	<input type="checkbox"/>	
Guidance Materials (fact sheets, information bulletins)	<input checked="" type="checkbox"/>	Assisting 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 Agreed to Under Section 58(5) of CWA

#	Township	WHPA or IPZ	SDWT Activity
1	Cannington	WHPA-B	Waste disposal site, DNAPL, Organic solvent
2	Uxbridge	WHPA-A	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	Cannington	WHPA-B	Waste Disposal Site, DNAPL, Organic Solvent
2	Uxbridge	WHPA-A	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

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 (1) Cannington (18)
Lead Authority	Laura Freeland, 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 is detected then further inspection is conducted.
Inspection Progress	All required properties have been inspected. Re-inspections to be conducted again in 2020.

## 9. New, Altered, or Decommissioned Drinking Water Systems

Location	Description
Sunderland	Sunderland Municipal Well 3 granted emergency status by the MECP. Director notification issued on September 3 <sup>rd</sup> , 2019.

## 10. Source Protection Plan Policy Reporting Requirements

### 10.1. 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.
	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 2019.
Agricultural Source Material	ASM(App)-1	In Progress	Threat verification complete. RMPs will continue to be negotiated in 2019.
	ASM(App)-2	Not Applicable	No future threats found in 2019.
	ASM(Store)-1	Not Applicable	No existing storage threats.
	ASM(Store)-2	Not Applicable	No future storage threats.
Non-agricultural Source Material	NASM(App)-1	Not Applicable	No NASM threats.
	NASM(App)-2	Not Applicable	
	NASM(H&S)-1	Not Applicable	
	NASM(H&S)-2	Not Applicable	
Fertilizer	FERT(App)-1	Not Applicable	Fertilizer threats previously thought to exist are not significant in accordance with the table of circumstances.
	FERT(H&S)-1	Not Applicable	No handling and storage threats.
	FERT(H&S)-2	Not Applicable	

SDWT	Policy Number	Status	Details
Pesticide	PEST(App)-1	In Progress	RMPs to be negotiated in 2019. RMP dependent on type of pesticide being applied.
	PEST(H&S)-1	Not Applicable	No handling and storage threats.
	PEST(H&S)-2	Not Applicable	
Road Salt	SALT(App)-1	Not Applicable	No application threats in vulnerable areas.
	SALT(H&S)-1	Not Applicable	No handling and storage threats.
Snow Storage	SNOW-1	Not Applicable	No snow threats.
	SNOW-2	Not Applicable	
Fuel	FUEL-1	Complete	No fuel threats found through verification efforts.
	FUEL-2	Not Applicable	No threats found in 2019.
Dense Non-Aqueous Phase Liquids	DNAPL-1	In Progress	One RMP currently being negotiated for added threat missed during initial verification efforts.
	DNAPL-2	Not Applicable	No threats found in 2019.
Organic Solvents	SOLV-1	In Progress	One RMP currently being negotiated for added threat missed during initial verification efforts.
Livestock Grazing	LSTOCK-1	In Progress	Verification efforts complete. RMP dependent on livestock density on two properties.
	LSTOCK-2	Not Applicable	No outdoor confinement areas or farm animal yard threats.
	LSTOCK-3	Not Applicable	
Restricted Land Use	RLU-1	In Progress	Amendments to the Durham Region Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.

#### 10.2. 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.
	SEWG(c)- 3	Complete	Region council passed amendment to by-law #89-2003 requiring mandatory connection on December 16, 2015.
	SEWG(c)- 4	Not Applicable	Area municipality responsibility.

SDWT	Policy Number	Status	Details
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.
Organic Solvents	SOLV-2	Complete	No threats found in 2019.
Demand	DEMD-3	In Progress	Began working with consultant in 2017 to update previous draft of conservation plan. Funding for completion in 2019 budget.
E&O	EDU-11	Complete	Signage installed prior to plan approval.
Incentive	INCENT- 3	Not Applicable	Area municipality responsibility.
	INCENT- 4	Not Applicable	Area municipality responsibility.

### 10.3. Planning Approval Authority Policy Reporting Requirements

SDWT	Policy Number	Status	Details
Land Use Planning	LUP-1	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-2	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-3	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-4	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-5	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-6	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-7	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-8	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and

SDWT	Policy Number	Status	Details
			will be completed as part of the Municipal Comprehensive Review.
	LUP-10	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-11	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-12	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-13	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	LUP-15	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.

## 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	3	20	0
The application of agricultural source material to land.	11		7		4
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		3
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	4	24	0
The handling and storage of a dense non-aqueous phase liquid	15	1	13	2	1
The handling and storage of an organic solvent	1	3	1	2	1
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					
<b>Total</b>	<b>85</b>	<b>12</b>	<b>37</b>	<b>49</b>	<b>11</b>

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 2019 – December 31 2019

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## 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:** Greg Lymer, Risk Management Official

**Date Submitted:** January 31, 2020

## 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 2019 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	May 2016	May 2016
Beata Golas	Risk Management Official	October 2016	October 2016
Tavis Nimmo	Risk Management Inspector	December 2016	November 2017
Colin Hall	Risk Management Inspector	November 2017	November 2017

## 5. Risk Management Office

5.1. Provide an overview of work planned for 2020

Item	Description
Threat Verification	Threat verification complete. Threat enumeration can be found in Appendix A.
RMPs	Continue RMP negotiation with property owners in vulnerable areas that have verified agricultural SDWTs.
E&O	Staff will continue distributing Education and outreach materials in areas with low and moderate threat levels. Staff will continue to attend community events to promote source water protection.
Application Review and Section 59 Notices	Continue to review Planning Act/Building Permit applications.
Incentives	Will continue to work with property owners to guide funding opportunities.

## 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)	In Progress	95
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
Application of ASM	Notice of conformity with Nutrient Management Plan

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
5	5	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.

Tool / Resource		Comments and Suggestions
Education & Outreach community of practice	<input type="checkbox"/>	
Guidance Materials (fact sheets, information bulletins)	<input checked="" type="checkbox"/>	Assisting 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. Conservation authorities providing input for funding opportunities. Speaking to certified crop advisors and nutrient management specialists.

## 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

### 7.2. 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

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	Laura Freeland, 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	All required properties have been inspected. Re-inspections to be conducted again in 2020.

## 9. Source Protection Plan Reporting Requirements

## 9.1. RMO Reporting Requirements

Type	Policy No.	Status	Details
General	G8(1)	In Progress	Implementation of source protection plan and negotiation of RMPs underway.
	G8(2)	In Progress	Threats on agricultural properties are the only remaining RMPs that require establishment.
	G8(3)	In Progress	The miscellaneous provisions required by this policy have been established in the RMP process.
Sewage	S9	Complete	Septic inspections completed in 2015.
	S10	Not Applicable	Section 59 screening tool will be used for future threat verification.
Agriculture	A1(1)	In Progress	Threat verification almost complete. Only one property requires SDWT verification. Two agricultural RMPs in the negotiation process. RMPs will continue to be negotiated and established in 2020. RMO will also review existing prescribed instruments and funding that can be applied to satisfy the policy.
	A1(2)	In Progress	Applicable prescribed instruments will be considered, as appropriate. Consultation with certified crop advisors will be conducted.
	A1(3)	Not Applicable	No handling and storage of pesticide threats present.
	A4(1)	Not Applicable	No future threats requiring prohibition found in 2019.

Type	Policy No.	Status	Details
	A4(2)	Not Applicable	No future threats requiring RMP found in 2019.
	A4(3)	Not Applicable	No future threats requiring a prescribed instrument found in 2019.
Fuel	F1	Not Applicable	No futures threats requiring prohibition found in 2019.
	F2(1)	Complete	Fuel threat RMPs have been negotiated and established.
	F2(2)	Complete	Annual inspection required as part of negotiated RMP.
Road Salt	R1(1)	Not Applicable	No road salt threats.
	R1(2)	Not Applicable	No road salt application threats.
	R5	Not Applicable	No road salt storage threats.
	R6	Not Applicable	No road salt storage threats.
Waste Disposal Site	W3	Not Applicable	No waste disposal site threats.
	W4(1)	Not Applicable	No waste disposal site threats.
	W4(2)	Not Applicable	No waste disposal site threats.
DNAPL	D1	Not Applicable	No DNAPL threats.
	D2	Not Applicable	No DNAPL threats.
	D3(1)	Not Applicable	No DNAPL threats.
	D3(2)	Not Applicable	No DNAPL threats.
Non-Agricultural Source Material	N2	Not Applicable	No NASM application, storage or handling threats.
	N3	Not Applicable	No NASM application, storage or handling threats.
Snow Storage	O1(3)	Not Applicable	No snow storage threats.
	O2	Not Applicable	No snow storage threats.
Aquaculture	Q1	Not Applicable	No aquaculture threats.
	Q2	Not Applicable	No aquaculture threats.
Aircraft De-icing	P1(1)	Not Applicable	No De-icing threats.
	P1(4)	Not Applicable	No De-icing threats.
Monitoring for Nitrate	I1	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	G3(1)	Not Applicable	No properties purchased in 2019.
	G5(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.

Type	Policy No.	Status	Details
	G 5(2)	Complete	Source water overview materials developed in collaboration with area municipalities. Additional targeted material developed to address low and moderate threats.
	G 5(3)	Complete	Durham taking lead role in E&O.
	G 5(4)	Complete	Durham taking lead role in E&O.
	G 5(5)	Complete	E&O program continues to be developed, materials include fact sheets and BMPs to eliminate threats to drinking water, this includes existing and future fuel threats.
	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.
	G 6(3)	Complete	Signs installed prior to plan approval.
	G 11(1)	Complete	All emergency response plans updated.
Sewage	S 1(1)	Complete	Septic inspections completed in 2015.
	S 4(1)	Complete	By-law requiring mandatory connection approved by council in 2015.
	S 6(1)	Complete	Emergency response plan updated.
	S-6(3)	Complete	Maintenance and asset management activities have been assessed and completed.
	S 8(2)	Not Applicable	Area municipality responsible for stormwater management.
Snow Storage	O 1(1)	Not Applicable	No snow storage threats.
	O 1(2)	Not Applicable	No snow storage threats.
Transportation Corridors	OT 1(1)	Complete	Spill response plan updated.
	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.
	OT 2(2)	Complete	By-law requiring elimination of transport pathways approved by council in 2015.
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.
	L-2(9)	Complete	Spills response for pipeline rupture updated to include source water protection.
	L-2(10)	Complete	No activation of emergency response plan in 2019.

Type	Policy No.	Status	Details
	L-2(11)	Complete	Emergency response plans reviewed annually and updated as needed.
Water Quantity Demand	Y-1(6)	Complete	Began working with consultant in 2017 to update previous draft of conservation plan.

## 9.3. Planning Approval Authority Reporting Requirements

Type	Policy No.	Status	Details
General	G-7(2)	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	G-10(1)	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
Sewage	S-3(2)	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	S-4(3)	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	S-5(1)	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	S-7(1)	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
Road Salt	R-4(3)	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
Waste	W-2(2)	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
Water Quantity	Y-1(2)	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.
	Z-1	In Progress	Amendments to the Durham Regional Official Plan to implement the policy have been initiated and will be completed as part of the Municipal Comprehensive Review.

## 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	62	27	0
The application of agricultural source material to land.	8		5	1	2
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		59	1	3
The handling and storage of commercial fertilizer	1		1		0
The application of pesticide to land	7		3	2	2
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	33	3	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	1	1
Water taking from an aquifer without returning the water to the same aquifer or surface water body					
Reducing recharge of an aquifer					
<b>Total</b>	<b>207</b>	<b>5</b>	<b>169</b>	<b>35</b>	<b>8</b>

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

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 3111



# The Regional Municipality of Durham Information Report

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From: Commissioner & Medical Officer of Health  
Report: #2020-INFO-11  
Date: February 14, 2020

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**Subject:**

Program Reports

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**Recommendation:**

Receive for information

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**Report:**

**1. Purpose**

1.1 To provide an update on Durham Region Health Department (DRHD) programs and services.

**2. Highlights**

2.1 DRHD reports for October – December 2019 include the following key highlights:

- a. Health Analytics, Research & Policy – Health Analytics Information Products;
- b. Health Protection – Food Safety, Healthy Environments, Part 8 Ontario Building Code (Sewage Systems) and Safe Water updates;
- c. Healthy Families – Durham Health Connection Line and Healthy Families (including Child and Youth, Healthy Babies Healthy Children, and Prenatal and Newborn) updates;
- d. Healthy Living – Healthy Living (including Chronic Disease Prevention, School Health, Substance Use, Tobacco Use Prevention, and Vaping) and *Smoke-Free Ontario Act, 2017* updates;
- e. Infectious Diseases – Immunization and Infectious Diseases Prevention and Control updates;
- f. Paramedic Services – Administration, Logistics, Operations and Quality and Development updates.

2.2 Boards of health are required to “superintend, provide or ensure the provision of the health programs and services required by the [Health Protection and Promotion] Act

and the regulations to the persons who reside in the health unit served by the board” (section 4, clause a, HPPA). In addition, medical officers of health are required to “[report] directly to the board of health on issues relating to public health concerns and to public health programs and services under this or any other Act” (sub-section 67.(1), HPPA). Accordingly, the Health Information Update is a component of the Health Department’s ‘Accountability Framework’, which also may include program and other reports, Health Plans, Quality Enhancement Plans, Durham Health Check-Ups (including performance reports), business plans and budgets; provincial performance indicators and targets, monitoring, compliance audits and assessments; RDPS certification; and accreditation by Accreditation Canada.

Respectfully submitted,

Original signed by

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R.J. Kyle, BSc, MD, MHSc, CCFP, FRCPC, FACPM  
Commissioner & Medical Officer of Health

## ABBREVIATIONS

- AEFI – Adverse Event Following Immunization
- AGCO – Alcohol and Gaming Commission of Ontario
- APECD – Ajax Pickering Early Childhood Development Coalition
- APL – Ajax Public Library
- AWQI – Adverse Water Quality Incident
- BBI – Blood-Borne Infection
- BCA – *Building Code Act*
- BHV – Blended Home Visiting
- BOH – Board of Health
- CBD – Cannabidiol
- CCC – Child Care Centre
- CCEYA – *Child Care and Early Years Act, 2014*
- CELHIN – Central East Local Health Integration Network
- CFA – Community Food Advisor
- CPE – Carbapenamase-producing Enterobacteriaceae
- CSTADS – Canadian Student Tobacco, Alcohol and Drugs Survey
- CWIS – Cold Warning and Information System
- DC – Durham College
- DCDSB – Durham Catholic District School Board
- DDSB – Durham District School Board
- DHCL – Durham Health Connection Line
- DO – Designated Officer
- DPHS – Diseases of Public Health Significance
- DRHD – Durham Region Health Department
- DRPS – Durham Regional Police Service
- DRSSD – Durham Region Social Services Department

- DTaP-IPV-Hib – Diphtheria, Tetanus, Pertussis, Polio and Haemophilus B
- DYDAC – Durham Youth Drug Awareness Committee
- ESW – Emergency Service Worker
- FASD – Fetal Alcohol Spectrum Disorder
- FHT – Food Handler Training
- FS – Food Safety
- FV – Family Visitor
- HART – Health Analytics and Research Team
- HBHC – Healthy Babies Healthy Children
- HC – Health Canada
- HCP – Healthcare Provider
- HCV – Hepatitis C Virus
- HIV – Human Immunodeficiency Virus
- HMCA – *Healthy Menu Choices Act, 2015*
- HMHU – Healthy Me Healthy Us
- HPD – Health Protection Division
- HPPA – *Health Protection and Promotion Act*
- HPV – Human Papillomavirus
- HRPE – Harm Reduction Program Enhancement
- HWIS – Heat Warning and Information System
- ICP – Infection Control Practitioner
- IDA – In-Depth Assessment
- iGAS – Invasive Group A Streptococcal Disease
- ISPA – *Immunization of School Pupils Act*
- IPAC – Infection Prevention and Control
- LD – Lyme Disease
- LH – Lakeridge Health
- LLA – *Liquor Licence Act*

- LTCH – Long-Term Care Home
- MBTA – *Mandatory Blood Testing Act, 2006*
- MGCY – Movement Guidelines for Children and Youth
- MMAH – Ontario Ministry of Municipal Affairs and Housing
- MMR – Measles, Mumps and Rubella
- MOF – Ontario Ministry of Finance
- MOH – Ontario Ministry of Health
- NAS – Neonatal Abstinence Syndrome
- NRT – Nicotine Replacement Therapy
- OBC – Ontario Building Code
- OHD – Oral Health Division
- OMAFRA – Ontario Ministry of Agriculture, Food and Rural Affairs
- OPH – Ottawa Public Health
- OPHS – *Ontario Public Health Standards: Requirements for Programs, Services, and Accountability*
- OSDUHS – Ontario Student Drug Use and Health Survey
- OUT – Ontario Tech University
- OVERT – Ontario Volunteer Emergency Response Team
- PCP – Primary Care Paramedic
- PHD – Population Health Division
- PHI – Public Health Inspector
- PHN – Public Health Nurse
- PHO – Public Health Ontario
- PHU – Public Health Unit
- PPH – Peel Public Health
- PSS – Personal Services Settings
- PVPC – Provincial Vaping Presentation Committee
- RDPS – Region of Durham Paramedic Services

- RHL – Racing to a Healthy Life
- RKES – Research and Knowledge Exchange Symposium
- RRFSS – Rapid Risk Factor Surveillance System
- RSV – Respiratory Syncytial Virus
- SDWS – Small Drinking Water Systems
- SFOA – *Smoke-Free Ontario Act, 2017*
- SHC – Sexual Health Clinic
- SMDHU – Simcoe Muskoka District Health Unit
- SSM – Sewage System Management
- STI – Sexually Transmitted Infection
- TCAN – Tobacco Control Area Network
- TEO – Tobacco Enforcement Officer
- THC – Tetrahydrocannabinol
- TPH – Toronto Public Health
- TU – Trent University
- VBD – Vector-Borne Diseases
- VPD – Vaccine Preventable Diseases
- VSDR – Victim Services of Durham Region
- VTEC – Verotoxin-producing *Escherichia coli*
- WHO – World Health Organization
- WNV – West Nile Virus
- YRPH – York Region Public Health



# Health Analytics, Research & Policy

Report for October – December 2019

## Health Analytics Information Products

### [Infectious Diseases at a Glance in Durham Region](#)

An updated Infectious Diseases at a Glance in Durham Region report was released in October 2019. Chlamydia was the most commonly reported infectious disease in Durham Region for both males and females in 2018. Although chlamydia rates decreased between 2011 and 2013 among females locally and in Ontario, and levelled off among males, rates increased again between 2014 and 2018. Incidence rates of gonorrhoea have been increasing since 2009 both locally and in Ontario, especially among males. There were more cases than expected in 2018 compared to the five-year average for chlamydia, gonorrhoea, legionellosis, invasive meningococcal disease, latent tuberculosis infection, and yersiniosis. There were fewer cases than expected for amebiasis.

### [The RRFSS Data Explorer](#)

The RRFSS Data Explorer was launched on [durham.ca/healthstats](http://durham.ca/healthstats). The Data Explorer provides an easy way to access and visualize important information collected in RRFSS, an ongoing health survey of Durham Region adults age 18 and older. The tool shows information across five categories: age, gender, income, municipality and trends over time. Indicators are organized across six topics: alcohol use, cannabis, disease prevention & health protection, general health, opioids and tobacco.

The RRFSS Data Explorer was developed in-house by HART to replace the creation of time-intensive PDF reports and provide information to the public that was previously only available to staff. The information will be updated as new RRFSS data become available.

Some of the local data available from this interactive tool are:

- 54 per cent of adults reported their general health as excellent or very good, and 66 per cent reported their mental health as excellent or very good in 2018.
- 63 per cent of adults were overweight or obese in 2018 – 55 per cent of females versus 72 per cent of males.
- 14 per cent of adults smoked cigarettes in 2018, but 45 per cent of smokers reported quitting smoking for at least a day in the last year.
- 90 per cent of adults living in Brock, Scugog or Uxbridge reported that they had a strong or very strong sense of belonging to the local community.
- 52 per cent of Whitby adults used active transportation – biking or walking for reasons other than recreation or fitness in the past year.

Respectfully submitted,

Original signed by

R.J. Kyle, BSc, MD, MHSc, CCFP, FRCPC, FACPM  
Commissioner & Medical Officer of Health



# Health Protection

Report for October – December 2019

## Food Safety

In the fourth quarter of 2019, PHIs completed **2,928** food safety inspections as required by the MOH, staff instructed **12** FHT courses and conducted **four** proctoring sessions. **Seven** (or 58 per cent) of these courses were taught in priority neighbourhoods. To expand services while minimizing the impact to resource levels, **five** community partners proctored exams in their own environments. Outside partner proctors conducted **12** proctoring sessions during this period.

Vlogs continue to be an engaging way to reach the community. A vlog on the HMCA was launched in October 2019 and has had over **4,300** views. Another vlog was filmed on proper handwashing and reached **4,300** views.

Food waste diversion continues to be a focus. A need was identified by the Salvation Army to educate food bank users on the difference between best before dates and expiry dates. **Five hundred** flyers detailing how long a food item is safe past the best before date were delivered with the Christmas hampers from the Oshawa location. Further collaboration with food banks will continue into 2020.

In 2019 the Office of the Auditor General of Ontario released its report on [Food Safety Inspection Programs](#), which included recommendations for the MOH, OMAFRA, and PHUs. Five PHUs (OPH, PPH, SMDHU, TPH and YRPH) were audited from April 2019 to August 2019. The PHUs were selected based on the number of food premises in their jurisdiction, population and total expenditures on food-safety programs. Overall, the five PHUs are responsible for approximately 49 per cent of all food premises and 50 per cent of the total MOH food-safety expenditures in Ontario. DRHD has reviewed the Auditor General's recommendations and is developing processes to ensure compliance. In

response to one of the recommendations, DRHD is working with the City of Oshawa and the Town of Whitby to develop a process to receive notice of new premises. DRHD plans to work with the remaining municipalities in the future to establish similar processes.

As of January 1, 2020, several regulatory changes that impact the Food Safety Program came into effect. Specifically, amendments to the HPPA regulations will reduce restrictions related to dogs in outdoor and certain indoor areas of food premises, such as patios and craft breweries that prepare and/or serve low-risk and pre-packaged ready-to-eat foods. Amendments will also exempt certain food premises, such as school snack programs or other community organizations that prepare low-risk foods and/or distribute pre-packaged foods, from specific structural requirements and food handler training. DRHD will be working closely with community partners to ensure proper application of the legislation once further details are received from the MOH including revised protocols and guidance documents.

## **Healthy Environments**

The CWIS was piloted during the 2018/19 winter with community partners that subscribed to receive extreme cold alert emails. Cold alerts are issued when the weather forecast reaches the criteria of -15°C or -20°C wind chill or colder. Alerts were also issued to community partners for extreme winter weather events such as blizzards and ice storms.

In December 2019, the CWIS was expanded to provide notification of cold alerts to the public through DRHD's [Extreme Cold](#) web page as well as through various social media channels. Members of the public can subscribe to receive updates to the webpage which includes issuance of extreme cold alerts as well as other valuable information such as health impacts of cold, tips on how to be prepared in the cold and links to shelter information for homeless and marginally housed residents.

DRHD's HWIS and CWIS meet the requirements of the OPHS.

## **Emergency Management**

In the OPHS, emergency management is identified as a foundational standard requiring BOHs to have the capacity and be ready to respond to and recover from emergencies with public health impacts. In accordance with the *Emergency Management Guideline*, BOHs are to develop and maintain networks of community partners for coordination and collaboration in the board's emergency management program activities.

DRHD and the DRSSD have a strong partnership and work closely together with community partners. On November 19, both Departments jointly hosted an Emergency Preparedness Stakeholder Symposium. The symposium brought together fire departments, local municipalities, RDPS, school boards, St. John Ambulance, OVERT and VSDR.

The event was an opportunity to network, share information, strengthen relationships, and for DRHD and DRSSD to thank their many community partners that assist in providing important services during emergencies.

The symposium also included guest speakers that shared their experiences in responding to community needs in an emergency. The day included an extreme weather event tabletop exercise which provided participants an opportunity to discuss their organization's role in an emergency and to learn from others. The event generated many inspiring discussions and DRHD looks forward to hosting future symposiums with community partners to support emergency preparedness efforts across the region.

## **Part 8 OBC (Sewage Systems)**

The BCA allows municipalities to enter into an agreement with a BOH having jurisdiction in the municipality for the enforcement of provisions of the BCA and the OBC related to sewage systems. As a result, DRHD has agreements with seven of eight local municipalities for the administration of Part 8 (Sewage Systems) of the OBC. SSM agreements are in place with the Towns of Ajax and Whitby, the Townships of Brock, Scugog and Uxbridge, the Municipality of Clarington and the City of Pickering.

The services provided under the SSM agreements include, but are not limited to; conducting inspections of any land which is to be divided by severance (where municipal services are not proposed) to ensure compliance with the Region's Drilled Well and Lot Sizing Policies, reviewing building permit applications for sewage systems for compliance with the OBC, issuing building permits for sewage systems, inspecting sewage systems to ascertain compliance with issued building permits, investigating complaints and malfunctioning sewage systems and where necessary, issuing orders and conducting inspections of land to determine the acceptability of applications as they relate to the existing and proposed sewage systems.

During 2019, DRHD issued **195** building permits for sewage systems, inspected **63** properties prior to the issuance of permits for building additions and reviewed **127** planning applications.

DRHD conducted **644** inspections related to: sewage system building permits and installations; and planning activities and applications. DRHD staff also attended **54** pre-consultation meetings in each municipality regarding planning applications.

## Safe Water

### Small Drinking Water Systems

The OPHS and related protocols along with Ontario Regulation 319/08 govern SDWS in Ontario. SDWS include public facilities with a non-municipal water supply such as: food service establishments, trailer parks/campgrounds, marinas, recreational camps, places of worship and any place where the public has access to a washroom. Within Durham Region there are approximately **245** SDWS. All SDWS have been inspected in accordance with the frequency articulated in the OPHS.

During 2019, DRHD inspected **73** SDWS and issued **45** warning notices to SDWS owners that were not in compliance with their directives. In 2018, **21** warning notices were issued which resulted in **three** convictions. When compliance is not achieved following the issuance of a warning notice, legal action is taken, and owners are charged under the regulation. In 2019, **10** offence notices were issued to **10** SDWS owners resulting in **five** convictions. As five of the offence notices were issued at the end of 2019, the resolution of these offence notices is not yet available.

The OPHS and the *Safe Drinking Water and Fluoride Monitoring Protocol* also require BOHs to receive reports and respond to adverse events such as reports of AWQI on drinking water systems governed under the HPPA.

In 2019, DRHD received and responded to **111** AWQI reports resulting in the issuing of **22** Boil Water Advisories/Boil Water Orders and Drinking Water Advisories.

The goal of this requirement under the OPHS is to enhance the level of awareness and knowledge of drinking water safety with owners/operators of drinking water systems and to address reports of AWQI by acting to ensure a safe and healthy environment for the users of these drinking water systems.

Respectfully submitted,

Original signed by

Lisa Fortuna  
Director, Health Protection Division



# Healthy Families

Report for October – December 2019

## Durham Health Connection Line

DRHD has harmonized the call centers of the HPD, OHD and PHD. This process improvement is designed to streamline the flow of all public health inquiries through one phone number and brand – DHCL. A social media poll was conducted to creatively engage our community with selecting a DHCL logo that resonates with them.

During the transition period the existing HPD, OHD and PHD primary contact phone numbers will continue to function to ensure that clients/customers are able to access public health services without disruption.

Promotion of this new initiative will begin early in 2020 through social and traditional media sources.

## Healthy Families

### Child and Youth

The APECD was formed in 2015 as a collaborative, community planning table to address vulnerabilities in early child development.

On October 5, 2019, the APECD hosted the 3rd annual HMHU event at the APL. This free health information day is for parents and caregivers of children 0 to 6 years of age who reside in the Ajax or Pickering community. **Eighteen** non-profit community partners participated and provided: health information; interactive educational displays; referrals to parenting programs and services; and resources.

There were **297** residents in attendance, comprised of grandparents, parents, caregivers and children. A total of 91 per cent of attendees reported the event as very good or excellent.

The HMHU event also wrapped up the mini passport program that launched June 27, 2019. This program encouraged families to obtain mini passports at participating community partner locations where programming is offered that supports early child development. Upon collecting six passport stamps through attending community programming, families were eligible to receive an incentive package of items including children's books, photo frame magnets and more. A total of **585** mini passports were distributed to families from June to October.

## **Healthy Babies Healthy Children**

The HBHC Program is a voluntary program administered by PHUs across Ontario and consists of universal screening with targeted assessments and interventions for families and children from the prenatal period until their transition to school. As part of the HBHC Program, PHNs and lay FVs provide supportive intervention to families identified with risk through a blended model of home visiting. PHNs and FVs work in partnership with identified families to develop and address goals related to healthy child development and effective parenting.

Between January 1 to November 30, **4,739** clients were screened and **2,620** (55 per cent) were identified "with risk" for compromised child development and/or parenting capacity. PHNs were able to reach **1,621** (62 per cent) of these clients on the phone to offer a home visit and IDA. **Seven hundred and twelve** (44 per cent) clients that were reached by phone agreed to the home visit. As well, **573** (80 per cent) of the IDAs were completed between January 1 and November 30, resulting in **357** (62 per cent) clients confirmed with risk following the IDA and offered referral to the BHV program.

PHNs and FVs work in partnership with identified families in the BHV program to address goals related to healthy child development and effective parenting. Currently there are **211** active clients enrolled in the program. Between January 1 and November 30, **6,152** home visits were made to clients by PHNs and/or lay FVs. For clients with active family service plans during this time, the top five chosen goals were: 1) Healthy Growth and Development; 2) Optimal Parental Health; 3) Healthy Attachment; 4) Positive Parenting; and 5) Parental Self-Care.

As part of the HBHC program clients participate in assessments and activities to foster parent-child interaction and attachment. Between January 1 and November 30, **394** assessments were completed. Following assessment, PHNs and FVs provide education

and hands-on activities aimed at strengthening the parent child interaction in areas where they did not score well on the assessment. During this time clients participated in **507** activities facilitated by FVs. Those clients who participated in a repeat assessment between January 1 and November 30 showed an average score improvement of three per cent for the feeding assessment and seven per cent for the teaching assessment over time.

Since January 1, **382** clients have completed their goals and been discharged from the program. Of the clients' family service plan goals, 74 per cent were achieved, 23 per cent were partially achieved and three per cent were not achieved.

## **Prenatal and Newborn**

Prenatal breastfeeding education targeting both mothers and co-parents has been found to improve breastfeeding outcomes however, little is known about the effectiveness of using eHealth resources with both populations.

DRHD collaborated with OTU to conduct a randomized controlled trial to evaluate the effectiveness of an eHealth breastfeeding co-parenting intervention on: breastfeeding rates; overcoming breastfeeding challenges as a team; and satisfaction with using the eHealth resource.

A total of **113** mothers and **104** co-parents enrolled in the study across Canada. Study findings at six months post partum indicate: 89 per cent of mothers were still breastfeeding; 60 per cent of mothers were exclusively breastfeeding; 91 per cent of mothers experienced breastfeeding challenges; and 84 per cent received help to overcome these challenges. Eighty-four per cent of participants agreed the eHealth resource was informative, interesting, current and useful.

Supporting mothers and their co-parents with eHealth breastfeeding resources has demonstrated effectiveness in supporting breastfeeding goals and the breastfeeding journey.

Respectfully submitted,

Original signed by

Jean Nesbitt  
Director, Population Health Division  
Chief Nursing Officer



# Healthy Living

Report for October – December 2019

## Healthy Living

### Chronic Disease Prevention

The goal of the CFA program is to improve food skills in individuals and groups by promoting safe and nutritious food selection, preparation and storage practices through access to reliable information and education. The CFA program was designed to: increase confidence, knowledge, and skills in food selection and food handling; increase community awareness and access to effective resources and education in healthy eating; develop partnerships between individuals, organizations and the Province based on community needs and resources; and increase leadership skills of individuals and organizations within communities.

CFAs are community members who have a passion for food and basic knowledge and skills in food handling. They are provided with technical and leadership training and upon completion, are certified to provide reliable information and education to promote safe and healthy food selection, preparation and storage practices. Groups who use the services of the CFAs include community organizations, food banks, libraries, places of worship, prenatal programs, recreation centres, schools, seniors' centres and workplaces. There are currently **22** active CFA volunteers.

In 2019, **102** requests for service were received. More than 50 per cent of these were for elementary and post-secondary schools and the remainder were for community organizations. Approximately 50 per cent of the service requests were provided to priority populations.

## School Health

For optimal health benefits, the 24-Hour MGCY (aged 5 to 17 years) recommend that children accumulate 60 minutes of heart pumping activity per day (Canadian Society for Exercise Physiology [CSEP], 2016).

ParticipACTION's 2018 Report Card on Physical Activity for Children and Youth gives Canadian kids a D+ for overall physical activity with only 35 per cent of 5 to 17-year-olds reaching their physical activity levels as outlined in the Canadian 24-Hour MGCY. In Durham Region, only 30 per cent of elementary school students are moderately physically active on a daily basis. Moderately physically active is defined as at least 60 minutes of physical activity that increases the heart rate and makes breathing hard some of the time (Public Health Monitoring of Risk Factors in Ontario – OSDUHS, 2012 to 2013).

For the past 11 years, DRHD has partnered with local recreation centres to offer the Grade 5 Action Pass Program, which provides all Grade 5 students in the region free access to public swimming, public skating, and other programs (such as racquetball and squash) at different recreation centres.

Grade 5 is the ideal time to offer this pass because levels of physical activity tend to drop for both boys and girls as they get older; after they pass Grade 5. Increasing opportunities for kids to keep active in Grade 5 can encourage them to remain physically active as they get older.

This year, **11** community recreation centres participated in the Grade 5 Action Pass program including all eight municipalities in Durham Region. PHNs actively promoted the Grade 5 Action Pass in elementary schools, and from September to December 2019, approximately **9,900** Grade 5 Action Pass postcards were distributed among Grade 5 students.

## Substance Use

### Alcohol

Alcohol is one of the most commonly used psychoactive substances in Ontario with approximately 78 per cent of adults reporting having consumed it in the past year. Evidence suggests that the purported health benefits of alcohol have been overstated and that the public is, for the most part, unaware of the range and scope of risks posed by alcohol. The International Agency for Research on Cancer has classified alcohol as a Group 1 carcinogen that is associated with seven different types of cancer (mouth, throat,

esophagus, female breast, liver, bowel and rectum). In fact, drinking as little as one drink of alcohol each day increases a person's risk of cancer. Currently, only 39 per cent of residents are aware of this risk (RRFSS, 2015). Throughout the fall, DRHD launched an awareness campaign to help increase awareness among residents that alcohol causes cancer. The campaign was promoted via **14** different media channels during the months of September and October.

There is also strong scientific evidence that alcohol use is associated with other health risks such as heart disease, stroke, type 2 diabetes, and it may contribute to mental health problems such as depression and suicide. Alcohol also impacts people's lives through serious negative effects including injuries and deaths caused by impaired driving, assaults, property damage, domestic violence, child neglect, abuse and FASD. In 2017, there were 41 deliveries of infants with NAS in the region for a rate of six for every 1,000 births. This represents a 300 per cent increase in the rate since 2008.

DRHD regularly utilizes social media to inform the public about the risks associated with alcohol use. In 2019, social media campaigns were implemented on six different occasions (March, June, July, August, October and November). Messages focused on: standard drink sizes, low-risk drinking guidelines, access and availability, World No Alcohol Day as well as alcohol and the holidays. Over **30,000** people were reached through the social media posts and high rates of engagement were achieved.

While new measures have been implemented across the province to make alcohol more accessible, research shows that increased access to alcohol results in increased consumption and alcohol related harms. This is a significant concern for public health, especially with respect to the impact on youth. To increase awareness about alcohol related harms DRHD implemented a knowledge exchange plan, which included:

- A written response to the Province's survey titled Have Your Say: Alcohol Choice and Convenience for the People.
- Attendance at the MOF consultation regarding the Modernization of Alcohol Sales in Ontario and the Government's proposed retail alcohol expansion plan.
- A written response to the Ontario Minister of Finance outlining recommendations for a public health approach to retail alcohol sales.
- A briefing note to Ken Hughes, Special Advisor for the Beverage Alcohol Review, outlining the burden of alcohol and public health recommendations to minimize alcohol-related harms in relation to the proposed changes of alcohol deregulation in Ontario.
- An information report to Regional Council outlining Bill 100 - An Act to implement Budget measures and to enact, amend and repeal various statutes. Schedule 38 of

Bill 100 amends the LLA to allow the council of a municipality, by by-law, to designate a public place (e.g., parks) where persons may have or consume liquor, subject to the regulations. The report included background information on alcohol, recommendations and evidence to consider regarding local policy options for lower and upper-tier municipalities.

- Launch of web-based information on durham.ca regarding municipal alcohol policies and actions that can assist local municipalities in their efforts to reduce alcohol related harms.

Evidence indicates that no one should begin drinking alcohol or drink more often based on potential health benefits. For many people, the possible benefits do not outweigh the risks and avoiding alcohol is the best option. Eating a healthy diet and being physically active have much greater health benefits and have been more extensively studied. HCPs are in a key position to advise their patients regarding the health risks associated with alcohol use and to help dispel current misconceptions. By dispelling myths about any perceived health benefits of alcohol, and providing evidence-based information, HCPs can assist their patients to make informed choices. To support HCPs in providing evidence-based information to their patients, DRHD developed and distributed an infographic outlining the health effects of alcohol consumption to over **250** HCPs across Durham Region.

## Cannabis

On June 14, the Government of Canada released the Regulations for the Production and Sale of Edible Cannabis, Cannabis Extracts and Cannabis Topicals. These regulations put restrictions and safeguards in place to protect public health and prevent youth from consuming cannabis products. The federal regulations include:

- A limit of 10 milligrams of THC per package of edible cannabis.
- Products and packaging must not be appealing to youth.
- Packaging that is plain, child-resistant and clearly labelled with the standardized cannabis symbol, THC/CBD content, the ingredient list and health warning messages.
- Edibles are to be manufactured in a separate plant, with no other food production.
- Products cannot make any claims regarding health or nutritional benefits.
- No added vitamins, minerals or alcohol.
- No nicotine and limits on caffeine.

On October 17, cannabis edibles, extracts and topicals became legal for sale in Canada; however, it will take time before these products become available for legal purchase. Federally-licensed processors can now submit applications to HC and authorization will

take approximately 60 days. Therefore, the new cannabis products will not be for sale online or at legal retail cannabis stores until mid-December at the earliest.

In October, DRHD launched a local cannabis health communication campaign titled “Talk Early, Talk Often.” The campaign was targeted to parents and caregivers of youth to increase their awareness of the health risks of cannabis use among youth and to share tips on how parents can talk to youth about cannabis. The campaign encouraged parents to talk with their children in open and non-judgmental ways about cannabis and promoted DRHD’s cannabis webpage, as well as other resources and community supports.

The campaign included three key health messages related to youth cannabis use including brain development, addiction and mental health issues. A variety of channels were used to promote the campaign including: a corporate newsletter submission, a media release, bus shelter ads, community displays, digital billboards, interior bus ads, movie theatre ads, online ads, posters in recreation facilities and libraries and social media posts.

The campaign resulted in the completion of a radio interview with Durham Radio on October 7. Online ads through Metroland, The Weather Network and Parent Source had a total of **1,264** clicks. Ads via DRHD’s social media channels had **2,938** engagements. DRHD’s social media platforms had **3,040** engagements (reactions, likes, comments, shares and post clicks) on Facebook, Instagram and Twitter during the month-long campaign.

## Opioids

In accordance with the HRPE mandate, DRHD is required to develop and implement a local opioid response plan related to opioid use and overdose. As part of this multifaceted strategy, DRHD has partnered with numerous community agencies to increase awareness of the impact that stigma has on individuals with opioid use disorder. **Stigma** (negative attitudes or beliefs) can have a major impact on the quality of life of people who use drugs, people who are in recovery and their friends and family.

Evidence shows that stigma is a significant factor that can prevent people from getting help as it creates barriers to accessing important health and social services. When people who use drugs face stigma in the community or health system, they are less likely to seek help or follow through on a treatment program out of fear they will face stigma again.

Between June and December 2019, DRHD promoted an information campaign entitled People Who Use Drugs are Real People - Get Informed, Get Involved, Get Help. This

campaign was promoted throughout the region using ads on billboards, bus and transit shelters, digital walls, as well as posters and social media platforms. To compliment this campaign, DRHD launched a new webpage to provide information and resources about opioid use and opioid use disorder.

As part of the campaign, a four-part video series was developed. The video series showcases stories from residents who have lived experience of opioid use, comments from Oshawa Mayor Carter, Paul Martin, Chief of Police, as well as representatives from various community partners including DRPS, local fire departments, and LH. The video series is available on durham.ca and through the following You Tube links: The Opioid Crisis in Durham Region; The Reality of the Opioid Crisis in Durham Region; The Importance of a Caring Community; and Finding a Solution to the Opioid Crisis Together.

The video series, which was promoted via social media between November 15 and December 9, has received a total of **129,452** views to date.

Additionally, DRHD continues to work closely with the CELHIN and LH on strategies to link HCPs with training to help reduce stigma within health care settings.

## Youth and Substance Use

Exposure to alcohol advertising influences young people's beliefs and attitudes about drinking and increases the likelihood that adolescents will start to use alcohol at an early age and will drink more if they are already using alcohol. The more exposure kids have to alcohol advertisements, the greater the amount of alcohol kids will consume. Current evidence indicates that children between 11 to 14 years of age are exposed to approximately **1,000** alcohol advertisements per year.

RRFSS is an ongoing telephone survey of adults aged 18 years and older that provides local data on a variety of health topics. To assess public support for alcohol policy that restricts advertising and marketing to kids, DRHD collaborated with SMDHU to develop a new RRFSS module focused on alcohol marketing. The module questions were asked to randomly selected residents from May to August 2019. Data are currently being analyzed and will be available in early 2020. Results from this new module will assist staff in program development.

According to the OSDUHS (CAMH, 2017), 70 per cent of secondary students said that getting access to alcohol was easy and 55 per cent said that they had used alcohol in the past year. Additionally, data indicate that 32 per cent of secondary students reported binge drinking while 19 per cent said they rode in a car when the driver had been using alcohol. To support education and awareness raising strategies for teens and their

parents, an infographic was developed to illustrate the current state of alcohol use among local students. The infographic provides evidence-based information regarding the health effects of alcohol and promotes the key role that parents play in shaping their children's attitudes about alcohol. The new infographic is available at [durham.ca](http://durham.ca), and has been widely promoted in local schools, parent networks and via social media.

When youth feel connected to their school and community, through participation in decision-making and social inclusion, they are less likely to experience negative risk factors including substance use and mental health problems. Students who participate in their school community have opportunities to: develop independence and confidence; improve decision-making skills; and develop their own social networks that include more peers who promote and exhibit positive behaviours.

Each year DYDAC engages youth from various secondary schools to share information about substance use, including: alcohol, cannabis, prescription drugs (opioids)/over the counter drugs, tobacco and vaping. As well, mental health, media literacy, health promotion strategies, as well as youth advocacy and activism are also discussed. DRHD is a member of DYDAC and PHNs actively work with the participating youth. Through the DYDAC experience students are engaged in the learning process and are led through a planning activity that helps them to develop youth led activities for their schools. The students who attend DYDAC then return to their schools to implement their plans and inform the broader school community about the harms of substance use.

Following are the 2019 DYDAC highlights:

- During the 2018/2019 school year approximately **12,469** students, staff and parents/guardians were reached through student led initiatives.
- Student activities included, but were not limited to: wellness events, awareness activities including videos and songs, posters, workshops, mental health nights, calming kits, cannabis awareness campaigns, graffiti fact walls, caring adult night, coping without cannabis discussions and related skill building activities.
- For the 2019/2020 school year, the fall DYDAC conference was held on October 22 with **126** students and educators from **20** secondary schools in attendance.
- To evaluate the impact of the event, a pre and post-test survey was completed by **75** students. Key survey results are as follows:
  - Vaping: Pretest results indicate that 68 per cent of students rated their knowledge of the health effects of vaping as good or very good while post test results indicate 82 per cent of students now rate their knowledge of the health effects of vaping as good or very good.
  - Cannabis: Pretest results indicate 54 per cent of students rated their knowledge of the health effects of cannabis as good or very good while post

- test results indicate 88 per cent of students rated their knowledge of the health effects of cannabis as good or very good.
- Mental Health: Pretest results indicate 62 per cent of students rated their knowledge of the link between substance use and mental health as good or very good while post test results indicate 93 per cent of students rated their knowledge of the link between mental health and substance use as good or very good.
  - 100 per cent of respondents believe the DYDAC event is a good way to engage students about the topic of substance use.
  - 100 per cent of respondents report that the DYDAC conference provided them with effective substance use prevention strategies that they can use in their schools.
  - 96 per cent of respondents felt confident about using many different strategies in their schools to promote information about health and the harms associated with substance use, as a result of DYDAC.
  - 100 per cent of respondents would recommend the DYDAC conference to other students.
- A DYDAC vlog (video blog) was created to highlight the student and educator experience, and the student voice at the conference.
  - A research poster highlighting the DYDAC community approach to a youth-led engagement strategy was presented at the Canadian Centre on Substance Use and Addiction national conference in Ottawa from November 25 to 27.

To prevent or delay substance use among youth it is important to provide public health interventions before youth start using substances. DRHD is a partner in the RHL project which is led by DCDSB and DDSB. The project goal is to increase awareness of substance use prevention and healthy living strategies among Grade 5 students and to provide Grade 7/8 students with leadership and mentorship opportunities.

DRHD is a member of the project steering committee and assists with the planning, implementation and evaluation of the overall initiative. PHNs work with the respective school teams to plan the event and train the youth leaders. For 2019, RHL events were hosted at **seven** different schools with a total of **30** schools in attendance. Approximately **1,405** Grade 5 students participated, and **241** Grade 7/8 student leaders received training and facilitated the sessions with Grade 5 students.

Evaluation results from the 2018/2019 school year found that: 87 per cent of students learned concepts that had not been covered in the classroom at the time of the event; 73 per cent of students retained key messages from the event up to four weeks post event; 71 per cent of teachers engaged their students in further discussions about health-related

topics because of the event; and 78 per cent of teachers connected the event to lessons they delivered in class following the event.

School educators play a key role in providing evidence-based information to youth regarding substance use. DRHD provides access to numerous curriculum support tools to assist educators. To ensure DRHD resources continue to meet the needs of educators, a needs assessment survey was conducted with elementary and secondary school educators (Grades 5 to 12) from DCDSB and DDSB. A total of **129** educators responded to the survey. Results are currently being reviewed and will be utilized to inform DRHD programming.

## **Tobacco Use Prevention**

In Ontario, tobacco is responsible for more than 13,000 deaths. Based on a 2016 survey, 12 per cent, or about **63,600** of local residents, are currently smokers. Young adults aged 18 to 24 years old have the highest rates of smoking.

Evidence suggests that campus-based interventions such as cessation programs on campuses (including provision of NRT, self-help materials and technology-based supports), smoke-free policies and comprehensive tobacco control strategies (including policies and programs, media campaigns and advertising bans) have shown to be effective to increase quit rates and decrease cigarette consumption, and could have a large impact on all Ontario school campuses (Evidence to Guide Action: Comprehensive tobacco control in Ontario, 2016).

DC, OTU, and TU, Durham campus have smoke-free policies in place. In addition to providing campuses with support on smoke-free policies, DRHD continues to provide support utilizing various tobacco control strategies. These include; 1 Day Stand event, educational displays and promotion of cessation services.

PHNs are currently collaborating with OTU and TU, Durham campus for support with their smoke-free policies. PHNs facilitated five meetings with OTU and three meetings with TU, Durham campus to discuss and provide on-going support for their smoke free policies and cessation supports for faculty, staff and students.

On September 5, a PHN provided an educational display promoting DRHD's cessation supports to students and staff during TU, Durham campus' orientation week.

On November 13, DRHD collaborated with OTU and TU, Durham campus in the implementation of the 1 Day stand event.

The 1 Day Stand event: provides a platform for continued promotion of the campus' smoke-free policy to encourage compliance; helps increase awareness of free cessation

supports available to students, faculty and staff; and provides the campus community with a channel for giving feedback related to the smoke-free campus policy, smoking and second-hand smoke on campus. PHNs, nursing students and TEOs engaged and delivered messages related to tobacco cessation, second-hand smoke, benefits of a smoke free policy and enforcement to students and staff. Approximately **50** students and staff visited the educational display at TU, Durham campus and approximately **80** students visited the educational displays at OTU.

## Vaping

Vaping is the act of inhaling and exhaling an aerosol produced by a vaping product, such as an electronic cigarette. Vaping does not require burning like cigarette smoking. The device heats a liquid into a vapour, which then turns into an aerosol. This vapour can contain substances such as flavourings including diacetyl, propylene glycol, vegetable glycerin, THC, the psychoactive component of cannabis, or nicotine. Vaping devices are usually battery-powered. They may come with removable parts and have many names and brands like JUUL and VYPE.

The liquid used in vapour products, also known as e-liquids or e-juices generally consists of propylene glycol, glycerin, water, nicotine and flavourings. Some e-juices may not contain nicotine and those that do can vary in strength. E-juices contain several chemicals that are known to be toxic (e.g., formaldehyde and acrolein). Currently, ingredients vary from brand to brand and are not regulated by the government.

Recent evidence indicates using an e-cigarette or vaping device can cause harm, especially to youth. Chemicals found in many e-juices have been linked to lung damage, heart disease and eye irritation. Many e-juices contain nicotine and students using them are at risk of becoming addicted. Nicotine can alter teen brain development and can affect memory and concentration. The health effects from exposure to second-hand vapour are still unknown. E-cigarette use increases the risk of smoking cigarettes among youth and young adults. Although health effects of e-cigarettes are uncertain, long term exposure to the e-cigarette vapour may be harmful to health.

Data regarding e-cigarette use among Ontario students show:

- 5 per cent of elementary students and 17 per cent of secondary students reported smoking e-cigarettes within the past year (OSDUHS, 2016-2017).
- 13 per cent of elementary and 9 per cent of secondary students felt there is no risk of harming themselves physically (OSDUHS, 2016-2017).
- 53 per cent of all students thought it would be "fairly easy" or "very easy" to get a vaping product such as e-cigarettes if they wanted one (CSTADS, 2016-2017).

- Among youth and young adults, vaping usage has increased by 74 per cent in one year (Hammond, 2019). Vaping continues to be on the rise among local students.

Ontario confirmed its first case of vaping-related pulmonary illness on September 18. The Minister of Health ordered hospitals in the province to report all cases of vaping-related pulmonary illness to the Chief Medical Officer of Health as per section 77.7.1 of the HPPA. A Fax About was issued to alert HCPs about the advisory and mandatory reporting ordered by the Minister.

DRHD is part of the PVPC which provides a forum for provincial partners to collaborate on a comprehensive, evidence-informed and coordinated approach to prevent the initiation and escalation of vaping among youth and young adults in the Central East TCAN and across Ontario. As part of the PVPC, DRHD has critiqued and reviewed three vaping curriculum supports for educators and assisted in the development of the provincial vaping campaign 'Not an Experiment' that targets students in Grades 7 to 12.

DRHD continues to provide educational support to staff and educators through various means, including the following:

- Staff facilitated a presentation with educators at DDSB.
- A letter outlining school board approved resources and helpful links was developed and shared with all school boards and provided to PHNs to use when supporting their schools.
- Social media posts on vaping highlighted the Consider the Consequences Health Canada vaping campaign, and levels of nicotine in e-juices.
- The Be in the Know Tobacco, Vaping and Cannabis resource was created in collaboration with TEOs for use with elementary and high schools.
- A meeting with DCDSB and DDSB was held in October to better understand the health concerns associated with vaping and to determine the best way to provide information and resources to schools.
- The 'Not an experiment' resource, for Grades 7 to 12 was presented at the DYDAC student conference.
- A presentation on vaping and the law was provided at RKES in November.

## ***Smoke-Free Ontario Act, 2017***

TEOs have completed youth test shopper surveillance in the region for the year. All tobacco and vapour product vendors are test shopped during the year by a student under the age of 19 who attempts to purchase products. If the vendor sells tobacco or vapour

products to the minor, the operator and owner of the store are subsequently charged with selling or supplying tobacco or vapour products to a person who is less than 19 years old. To date, **1,016** test shopper inspections have been completed with results indicating a 94 per cent compliance rate. In 2019 there were **25** charges issued for supplying vapes to minors compared to 2018 when **10** charges were issued. Additionally, TEOs have conducted **914** tobacco and e-cigarette display and promotion compliance inspections. In 2019, **121** charges were issued for SFOA related offences compared to 2018 when **77** charges were issued.

The new Regional Smoke and Vape By-law #28-2019 has been in effect since June 24, 2019. The new by-law expands the number of public places and workplaces in the Region where smoking or vaping of any substance, including cannabis, is prohibited. Prohibited places include, hookah and vape lounges, any public park and 20 m beyond the park, post-secondary campuses, and any municipal building and the property around it. A communication plan was implemented on September 16, which included a media release and a social media campaign. The purpose of the communication plan was to raise awareness and provide information on the requirements of the new by-law to both the public and other key stakeholders throughout the region. Information on the by-law is also posted on [durham.ca](http://durham.ca). TEOs continue to work with various local enforcement agencies to plan and implement an enforcement strategy for the by-law.

TEOs have been responding to a significant number of complaints and concerns regarding vaping by students within schools and on school property. To date, TEOs have investigated **194** complaints, issued **125** warnings and **46** charges to students vaping on school property. In 2018, DRHD only issued **nine** warnings and **one** charge and received **18** complaints regarding smoking and/or vaping on school property.

To date two licensed cannabis retailers have opened in Ajax and Oshawa. The licensed cannabis retail outlets are licensed and inspected by the AGCO. TEOs have been directed by the MOH to only attend these premises in response to a complaint and to work in collaboration with the AGCO inspector during the complaint investigation. Effective January 6, 2020, topicals and edibles became available to purchase at licensed cannabis retail outlets and online on January 16, 2020.

Respectfully submitted,

Original signed by

Jean Nesbitt  
Director, Population Health Division  
Chief Nursing Officer

Original signed by

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# Infectious Diseases

Report for October – December 2019

## Immunization

### Adverse Events Following Immunization

An AEFI is defined as any untoward medical occurrence that follows immunization and does not necessarily have a causal relationship with the vaccine. Public health aims to provide AEFI surveillance to ensure monitoring of vaccine safety, with objectives developed in accordance with OPHS. By investigating AEFIs, individualized vaccine recommendations are provided to HCPs and clients. These recommendations may help to reduce vaccine hesitancy and continuation of immunization.

DRHD monitors, investigates and documents all suspected cases of AEFIs that meet provincial reporting criteria, and promotes reporting by HCPs throughout the region.

A total of **77** confirmed reports of AEFIs were submitted and investigated (as of November 22). A total of **45** cases were submitted by external HCPs, including physicians, nurses and pharmacists. Additionally, **18** reports were submitted that did not meet provincial reporting criteria. The highest number of reported AEFIs were related to the following routine vaccinations: DTaP-IPV-Hib and MMR.

Approximately half of all AEFIs investigated locally in 2019 were historical and happened greater than seven years ago. These AEFIs are often discovered by the DRHD during health history assessments, prior to immunization and/or during enforcement of ISPA. Without timely investigation and recommendations, vaccine choices may be influenced and could contribute to vaccine hesitancy. As a result, efforts are being made to identify knowledge gaps and address timely reporting of AEFIs through educational outreach to HCPs during annual vaccine fridge inspections.

## Child Care Settings

In accordance with the CCEYA, operators of licensed CCCs are required to ensure that up-to-date immunization records are available for each child enrolled in their centre. Immunization records must be provided to DRHD, where they are assessed in accordance with the Medical Officer of Health's immunization recommendations. Durham Region's Medical Officer of Health recommends that all children be immunized, consistent with [Publicly Funded Immunization Schedules for Ontario - December 2016](#).

Locally, immunization rates are maintained in the child care setting through DRHD's annual assessment of immunization status process. In addition, annual meetings with child care operators are conducted to review immunization recommendations and to provide strategies and resources. Each CCC has an assigned PHN to support immunization assessment and maintenance throughout the year.

In addition, CCC operators are required to provide enrollment and immunization records monthly. This process supports DRHD to accurately maintain records on the immunization status for children in CCCs throughout the region. This information is used in the event of a communicable disease outbreak to identify those who are at risk for VPDs and limit the spread of disease. This monthly collection of information also supports the annual assessment of the immunization status of children.

The immunization status of children in licensed CCCs is maintained through the annual immunization notice process, which this past year was implemented between May and September. Of the **7,757** children enrolled in **173** licensed CCCs **2,405** immunization notices were generated for children missing immunizations. PHNs assessed and resolved **686** of these notices resulting in **1,719** notices being distributed to the CCC operators compared to **1,363** notices sent last year. This is a 20 per cent increase, as the timing for the immunization notice process was moved from March to May to capture a greater number of children being part of the assessment and rigorous follow-up. Notices were sent to CCCs to distribute to parents/guardians of children missing immunizations. PHNs also met with CCC operators, as needed, to review the CCEYA process and the immunization status of children enrolled in their centre.

Of the **7,757** children enrolled in licensed CCCs, **26** children remained overdue for at least one vaccination at **nine** CCCs by the September 10 deadline. PHNs continued to follow up with CCC operators, and parents/guardians of children that were missing required vaccines to resolve their immunization status. By September 30 the immunization status of all children at all sites was resolved.

There were **108** immunization exemptions processed for children attending CCCs. Of these exemptions, **93** were for philosophical reasons, and **15** were for medical reasons. These numbers represent 1.4 per cent of children attending licensed CCCs. Compared to last year, this year there were **10** less philosophical exemptions and **seven** less medical exemptions.

The immunization status of children in CCCs is being explored to determine if additional immunization support is needed for those in priority neighbourhoods. During the immunization notice process, there were **30** licensed CCCs located within priority neighbourhoods, accounting for 17 per cent of all sites. Last cycle, the average number of notices to CCCs in priority neighbourhoods was **17.3**, and for this cycle the average number of notices to CCCs in priority neighbourhoods was **12.8** which is a reduction of **4.5** notices sent. In 2019, **383** notices were sent to sites in the priority neighbourhoods accounting for 5 per cent of all notices. Some strategies used with these sites included early follow up, tailored information, guidance for parents/guardians, and face to face visits with CCC staff to build capacity to respond to commonly asked questions from parents.

The ongoing annual assessment and maintenance of immunization status for children supports local immunization coverage rates. The combination of sending immunization notices and collaborating with CCC operators and families in the CCC setting help build a foundation of immunization throughout the lifespan.

## **Vaccine Hesitancy**

The principles of motivational interviewing were used to guide rather than direct discussions with parents/guardians of children enrolled in CCCs. PHNs provided evidence-based and meaningful information to clarify questions related to benefits of vaccines, safety of vaccines, questions related to immunity, herd immunity, and management of pain during vaccinations. These interactions integrated immunization requirements into the overall well-being of the child and guided their parents' decision making. These strategies were utilized to address the growing challenges that vaccine hesitancy poses.

Vaccine hesitancy is a delay in acceptance or a refusal of vaccines despite the availability of vaccination services (WHO, 2019). Three main reasons for vaccine hesitancy include lack of confidence, complacency and lack of convenience (Shen & Dubay, 2019). A trusting relationship between parents/guardians and HCPs can address all the above. When barriers such as lack of access to healthcare were identified, the parents/guardians were linked with community resources that could support the child's needs. In addition,

PHNs worked with HCPs to clarify specific immunization requirements for this age group and ensured timely access to vaccines.

## Infectious Diseases Prevention and Control

### Infectious Diseases

#### Designated Officer Education

The OPHS require public health staff to notify ESWs, including fire, police and paramedics, if an exposure to an infectious disease has occurred. Each emergency service site appoints DOs to receive and document reports of exposures.

PHNs also respond to ESWs or DOs 24/7 to assess risk of exposure, provide education and counselling on preventing transmission of disease as well as testing and treatment recommendations if required.

On October 25 PHNs provided a training session to **seven** DRPS DOs. Areas of key focus included: communication process with PHNs for consultation, education and counselling related to potential infectious disease exposures; risk assessment utilizing the Infectious Diseases Quick Reference Guide for Dos; the MBTA; managing blood-borne exposures; and DPHS.

#### Encounter

HPD staff were trained in Encounter at the beginning of November which went live on November 12. All sporadic investigations of DPHS are recorded in Encounter which becomes HPD's first electronic official record. Having an electronic way to document also gives management an easier way to track workload and case investigations.

#### Hepatitis C

HCV is a viral infection that attacks the liver. The virus is transmitted through blood to blood exchange. The onset of illness is vague, often with no signs or symptoms; often people do not know they are infected with HCV. If left untreated, people with HCV are more likely to develop chronic conditions like cirrhosis and liver cancer.

From 2013 to 2017, an average of **162** cases of HCV were reported each year in Durham Region. Approximately 53 per cent of cases diagnosed were individuals born between 1945 and 1965. Of the cases reported, 58 per cent were associated with a risk factor of injection drug use.

On October 24, DRHD, in collaboration with Gilead Sciences, presented an accredited workshop to HCPs to highlight HCV case management. The workshop, titled, A Primary Care Perspective on HCV Management was presented by Dr. Natalia Chkrebti, Infectious Disease Specialist from LH, Positive Care Clinic. The session, attended by **29** HCPs from across the region, highlighted strategies for identifying patients at risk for HCV infection as well as appropriate screening, case management and referral. Overall, evaluations of the workshop were positive with attendees reporting increased knowledge of HCV case management.

### **Infection Control Practitioner Outreach**

On October 23, PHNs conducted an educational outreach session with **nine** ICPs and the Manager and Director of IPAC at LH. The purpose of the session is to strengthen our partnership with ICPs to facilitate timely case and contact management for DPHS, and to limit the risk of transmission and disease outbreaks in the region.

The education session covered: the updated DPHS list; methods of communication to support timely reporting and efficient follow up of sporadic infectious diseases including after-hours contact information; new DRHD resources (disease infographics for invasive pneumococcal disease and iGAS); local infectious diseases statistics; and collaboration with local partners for improved outreach to priority and vulnerable populations.

### **Child Care Centres**

The fall/winter Wee Care newsletter went out electronically in mid-November. A revision of the Wee Care Manual has been completed. This will be the last hard copy manual being produced to save on printing costs and be more environmentally friendly. DRHD is exploring the development of an accessible on-line manual.

### **Diseases of Public Health Significance**

Between October to December, 222 DPHS were reported to HPD. These include in descending order: influenza (86), salmonella (38), campylobacter (33), LD (24), giardiasis (14), legionellosis (5), amebiasis (4), cryptosporidiosis (3), trichinosis (3), hepatitis A (2), shigellosis (2), yersinosis (2), and one each of CPE, Creutzfeldt-Jakob Disease all types, cyclosporiasis, listeriosis, typhoid fever, VTEC.

### **Flu Event**

The 21<sup>st</sup> Annual Flu Event was held on October 22 in LL-C once again. There was representation from 36 organizations including LTCHs, acute care facilities, retirement

homes and CELHIN representatives. Pre-ordered flu vaccine was distributed to the facilities; collecting the flu vaccine is one of the main reasons for attending the flu event. Our Friends of Health Award recipient, Dr. Bryna Warshawsky from PHO was once again the keynote speaker. There were opportunities during the morning for participants to share their successes and this was well received. Top Shots awards were given to the following organizations this year: Extendicare Oshawa, Hillsdale Estates and Port Perry Place for the highest staff immunization rates; and Markham Stouffville Hospital - Uxbridge site, Orchard Villa, ReachView Village LTCH, Sunnycrest Nursing Home and ThorntonView LTCH for an increase of 10 to 20 per cent in staff immunization rates from last season.

## **Infection Control**

Infection Control Week was Oct 14 to 18. DRHC created vlogs for handwashing, breaking the chain of transmission and preventing the flu. Staff participated in the DDSB Health & Safety week in September. The handwashing vlog had **440** views, preventing the flu had **365** views and breaking the chain of transmission had **22** views. The breaking the chain of transmission vlog was the only one not promoted on Facebook. DRHD will ensure using Facebook for promotion in the future.

## **Infection Prevention and Control Lapses**

There were **16** IPAC lapses in PSS in 2019, which is the leading setting being investigated for complaints. There were **three** lapses in healthcare facilities. For PSS the most common infractions were improper cleaning and disinfection, single use items not discarded after use, and items not in good repair. Healthcare facilities' common infractions were improper reprocessing and sterilization and improper record keeping.

## **Outbreak Summary**

Between October to December, **24** outbreak investigations were conducted; 17 of these were respiratory outbreaks and seven were enteric. The number of outbreaks by type of facility is: 14 in CCCs, six in retirement homes, two in hospitals and two in LTCHs. Some confirmed causative agents identified included: coronavirus, influenza A, norovirus, parainfluenza, rhinovirus and RSV.

The staff worked with all facilities to educate them on infection and outbreak control measures to prepare for the coming influenza season.

## Rabies Prevention and Control

During 2019, DRHD collaborated with local veterinarians on **seven** low-cost rabies vaccination clinics for local pet owners. Clinics were held in Ajax (one), Oshawa (two), Pickering (one), and Whitby (three). DRHD focuses on locations within priority neighbourhoods. The increased availability of low-cost rabies vaccination clinics may have contributed to a 17 per cent increase in the number of vaccinated animals involved in reported animal exposure incidents since 2017. The number of animal owners convicted for failing to immunize their pets against rabies has increased from **four** convictions in 2017 and 2018 to **15** convictions in 2019. This is a result of DRHD's ongoing diligence in the enforcement of the Rabies Immunization Regulation 567/90.

Regular communication, including social media and advertisements on rabies vaccination for pets, precautions to follow to avoid animal bites, and the requirement to report animal bites to DRHD were used throughout the year. Updates were also made to DRHD's rabies prevention and control webpage.

DRHD investigated **1,650** animal bite reports in 2019 which is a 16 per cent increase from the **1,426** reports investigated for the same time period in 2018. DRHD also issued **153** anti-rabies treatments to victims during the year, which is a 50 per cent increase from the **102** treatments issued for the same time period in 2018.

A total of **49** animals were submitted for rabies testing in 2019 compared to **39** submissions in 2018. There were also **three** specimens (bats) submitted in 2019 and testing positive for the rabies virus which is an increase from the single specimen (bat) that tested positive for the rabies virus the previous year.

Plans for 2020 include a continued focus on ensuring that animal exposure incidents are reported to DRHD by those identified in the legislation, including physicians, police officers, the public, registered nurses and veterinarians.

## Sexual Health

From January 1 to November 22, the DRHD SHCs in Oshawa and Pickering provided service to **2,673** new clients. This resulted in a total of **10,957** client interactions of which **1,353** occurred with individuals residing in priority neighbourhoods.

Testing for STIs included **4,642** urine tests, **255** throat swabs and **108** rectal swabs for chlamydia and gonorrhea. This identified **471** cases of chlamydia and **97** cases of gonorrhea. PHNs performed **1,208** blood tests to screen for hepatitis C, HIV and syphilis.

To prevent the spread of STIs and associated health risks, the SHC provides clients with treatment at no cost. To date, **799** chlamydia, **199** gonorrhea, **46** syphilis and **33** trichomoniasis treatments were administered. Additionally, **490** genital warts, **258** molluscum, **245** bacterial vaginosis and **58** herpes treatments were provided.

The SHC provides clients with the opportunity to receive vaccines that prevent BBIs and STIs including hepatitis A and B, and HPV. In the past three months **360** immunizations were provided.

## **Vector-Borne Diseases**

The WNV prevention and control program completed its seasonal activities in late September 2019. The program includes weekly surveillance of potential breeding sites for WNV vector mosquitoes which resulted in **3,259** site visits resulting in **677** larvicide treatments; this is a decrease when compared to 4,402 sites visited and 1,044 treatments the previous year. The scheduled three rounds of regional roadside catch basins was completed on July 30. A total of **166,842** roadside catch basins were treated during the summer. In addition, **87** private back yard catch basins were treated as well as **390** catch basins on regionally owned properties. The adult mosquito trapping activity resulted in a total of **28,404** mosquitoes captured resulting in **423** pools of mosquito tested and the identification of **one** positive mosquito trap site. In 2018 there were 357 pools of mosquitoes tested resulting in seven WNV positive mosquito sites. There have not been any human cases of WNV reported in the region this season compared to five human cases of WNV reported in 2018. A WNV infographic poster was developed, in collaboration with HART, during the 2019 season and was distributed to local HCPs and veterinarians.

DRHD's LD activities for this past season resulted in a total of **194** ticks submitted from the public for identification and testing, **119** of which were confirmed as the black-legged tick and **19** of those ticks tested positive for the bacteria that causes LD. A total of **39** human cases of LD were reported involving local residents; in 2018, 37 human cases were reported. A significant amount of communication was sent out to stakeholders throughout the season, including regular media releases, a variety of social media platforms, as well as a weekly summary report on VBD activities in the region.

Respectfully submitted,

Original signed by

Jean Nesbitt  
Director, Population Health Division

Chief Nursing Officer

Original signed by

Lisa Fortuna

Director, Health Protection Division



# Paramedic Services

Report for October – December 2019

## Administration

RDPS is pleased to announce the successful applicants to the following roles. Rolie Pandey as a Clerk 2 in Data Management, Jennifer Ramsingh as a Clerk 2 in Reception and Denise Dulinski as a Clerk 3 in Payroll. RDPS wishes them much success in their new roles.

## Logistics

All new 2019 replacement ambulances are now in-service bringing RDPS up to a compliment of 30 front line ambulances.

RDPS is now fully staffed in logistics and would like to welcome Bryan Thuot and Shawn Tucker to the positions of General Maintenance and Repair persons.

## Operations

RDPS continues to experience off-load delays at local hospitals that impact its ability to get resources back on the road to service emergency calls. Flu season has once again had a negative impact on the hospitals' ability to move patients out of the Emergency Department. RDPS continues to work collaboratively with local hospital partners in determining acceptable solutions to these challenges.

## **Quality & Development**

RDPS is currently recruiting and has received 469 resumes for the positions of part-time PCP. The first phase of the competition process is a three-hour written exam. Candidates will start phase one next month.

Respectfully submitted,

Original signed by

Troy Cheseboro  
Chief/ Director



# Interoffice Memorandum

**Date:** February 14, 2020

**To:** Health & Social Services Committee

**From:** Dr. Robert Kyle

**Subject:** Health Information Update – February 7, 2020

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Health  
Department

Please find attached the latest links to health information from the Health Department and other key sources that you may find of interest. Links may need to be copied and pasted directly in your web browser to open, including the link below.

You may also wish to browse the online Health Department Reference Manual available at [Board of Health Manual](#), which is continually updated.

Boards of health are required to “superintend, provide or ensure the provision of the health programs and services required by the [Health Protection and Promotion] Act and the regulations to the persons who reside in the health unit served by the board” (section 4, clause a, HPPA). In addition, medical officers of health are required to “[report] directly to the board of health on issues relating to public health concerns and to public health programs and services under this or any other Act” (sub-section 67.(1), HPPA).

Accordingly, the Health Information Update is a component of the Health Department’s ‘Accountability Framework’, which also may include program and other reports, Health Plans, Quality Enhancement Plans, Durham Health Check-Ups, business plans and budgets; provincial performance indicators and targets, monitoring, compliance audits and assessments; RDPS certification; and accreditation by Accreditation Canada.

Respectfully submitted,

Original signed by

R.J. Kyle, BSc, MD, MHSc, CCFP, FRCPC, FACPM  
Commissioner & Medical Officer of Health

*“Service Excellence  
for our Communities*

A stylized graphic of a hand or a flame-like shape in shades of blue, positioned behind the text.

**UPDATES FOR HEALTH & SOCIAL SERVICES COMMITTEE**  
**February 7, 2020**

**Health Department Media Releases/Publications**

**<https://tinyurl.com/skwaok8>**

- Health Department celebrates National Non-Smoking Week Jan. 19 to 25 (Jan 10)

**<https://tinyurl.com/wanlyk3>**

- Discontinuation of Rabies Immune Globulin-Sparing Protocol (Jan 22)

**<https://tinyurl.com/rt5oz7w>**

- Novel Coronavirus (2019-nCoV) Update #1 (Jan 24)

**<https://tinyurl.com/rtv5u3h>**

- Health Department prepared to respond to local potential cases of Novel Coronavirus (Jan 28)

**<https://tinyurl.com/w4rjf76>**

- Novel Coronavirus (2019-nCoV) Update #2 (Jan 29)

**<https://tinyurl.com/sahouxxy>**

- Novel Coronavirus (2019-nCoV) Update #3 (Feb 4)

**GOVERNMENT OF CANADA**

**Canada Mortgage and Housing Corporation**

**<https://tinyurl.com/yx64zdbp>**

- Canada's national vacancy rate declines for a third year (Jan 15)

**Canadian Food Inspection Agency**

**<https://tinyurl.com/tvh4lrd>**

- New federal food safety requirements now in force for fresh fruits or vegetables (Jan 15)

**<https://tinyurl.com/rvom8zc>**

- Canadian Food Inspection Agency launches consultation on bringing food into Canada for personal use (Feb 6)

**Department of Justice Canada**

**<https://tinyurl.com/weeom6u>**

- Government of Canada consults Canadians on medical assistance in dying (Jan 13)

**Employment and Social Development Canada**

**<https://tinyurl.com/vrfj2c4>**

- More Canadians receiving the Canada Child Benefit than ever before (Jan 31)

**Environment and Climate Change Canada**

**<https://tinyurl.com/uw4yqzv>**

- Draft Science Assessment of Plastic Pollution confirms negative impact of plastic pollution on the environment in Canada (Jan 30)

### **Innovation, Science and Economic Development Canada**

<https://tinyurl.com/sw07qyo>

- Minister Bains announces new cybersecurity centre to help protect Canadians online (Jan 23)

### **Public Health Agency of Canada**

<https://tinyurl.com/sv4mhbt>

- Government of Canada announces funding to help LGBTQI2S+ young adults stop smoking (Jan 22)

<https://tinyurl.com/sofh5ab>

- Statement from the Council of Chief Medical Officers of Health on Nicotine Vaping in Canada (Jan 22)

<https://tinyurl.com/skuhn5j>

- Statement by the Minister of Health on the First Presumptive Confirmed Travel-Related Case of New Coronavirus in Canada (Jan 25)

### **Public Safety and Emergency Preparedness Canada**

<https://tinyurl.com/rcumy4e>

- Launch of New Therapy for Post-Traumatic Stress Injuries (Jan 29)

### **Transport Canada**

<https://tinyurl.com/vpst67g>

- Statement by Minister of Transport following the Canadian Pacific Rail accident in Guernsey, Saskatchewan on Feb 6, 2020 (Feb 6)

## **GOVERNMENT OF ONTARIO**

### **Ministry of Agriculture, Food and Rural Affairs**

<https://tinyurl.com/vyjdzp3>

- Governments of Canada and Ontario Take Steps to Improve Food Safety (Jan 16)

### **Ministry of Colleges and Universities**

<https://tinyurl.com/tkeclth>

- Ontario Government Takes Action on Campuses to Support Student Mental Health (Feb 3)

### **Ministry of Economic Development, Job Creation and Trade**

<https://tinyurl.com/sxmmxw6>

- Ontario Investing in Tools Needed to Drive a Strong Economy (Feb 6)

### **Ministry of the Environment, Conservation and Parks**

<https://tinyurl.com/udb968y>

- Ontario Helping to Build Healthier, Safer Communities Faster (Jan 16)

### **Ministry of Finance**

<https://tinyurl.com/vmnt74q>

- Ontario Maintains Commitment to Balanced Budget (Jan 30)

<https://tinyurl.com/vshgk3r>

- Ontario Government Holds Budget Consultation in Durham Region (Jan 31)

### **Ministry of Health**

<https://tinyurl.com/wtngnmt>

- Deputy Premier and Minister Christine Elliott's Speech at the 2020 Rural Ontario Municipal Association's Annual Conference (Jan 20)

<https://tinyurl.com/w84jhxu>

- Ontario Takes Steps to Safeguard the Health of the Public Against the Coronavirus (Jan 22)

<https://tinyurl.com/v3lpj56>

- Federal Government Increasing Measures to Monitor Wuhan Novel Coronavirus Risks at Canadian Airports, Including Pearson (Jan 24)

<https://tinyurl.com/vlj698g>

- Ontario Protecting Students from Emerging Issue of the Wuhan Novel Coronavirus (Jan 26)

<https://tinyurl.com/qndaoa4>

- Ontario Confirms Second Presumptive Case of Wuhan Novel Coronavirus (Jan 27)

<https://tinyurl.com/t6zucno>

- Ontario Government Protecting Students from Emerging Issue of the 2019 Novel Coronavirus (Jan 28)

<https://tinyurl.com/wmkj3yd>

- Bell's Let's Talk Day Highlights Mental Health is Health (Jan 29)

<https://tinyurl.com/qpaslez>

- Ontario Confirms Third Case of 2019 Novel Coronavirus (Jan 31)

<https://tinyurl.com/sva94o4>

- Ontario's Public Health System Keeping the Public Safe (Jan 31)

<https://tinyurl.com/wjfp4js>

- Ontario Improving Access to Care by Building More Hospice Beds in Durham (Feb 6)

### **Ministry of Labour, Training and Skills Development**

<https://tinyurl.com/tcokhdr>

- Ontario Construction Safety Blitz Begins (Feb 4)

### **Ministry for Seniors and Accessibility**

<https://tinyurl.com/yxxrj2ch>

- Ontario Establishes a New Framework to Continue Progress on Accessibility (Jan 28)

### **Ministry of the Solicitor General**

<https://tinyurl.com/tzxx4ah>

- Statement from the Solicitor General (Jan 12)

### **OTHER ORGANIZATIONS**

#### **Association of Local Public Health Agencies**

<https://tinyurl.com/td4kgj9>

- Public Health Modernization Response (Jan 30)

#### **Bell Canada**

<https://tinyurl.com/r6pnnmg>

- Your actions counted! Bell Let's Talk Day sets a new record with 154,387,425 messages of support for mental health, and \$7,719,371.25 more Bell funding for Canadian mental health (Jan 30)

#### **Campaign 2000**

<https://tinyurl.com/ujc8ta2>

- New National Report Card on Child and Family Poverty Sets the Stage for a Poverty-Free Canada (Jan 14)

#### **Canadian Coalition for Seniors' Mental Health**

<https://tinyurl.com/t9n2a6v>

- Release of First-Ever National Clinical Guidelines on Substance Use Disorders among Older Canadians (Jan 20)

#### **Canadian Institute of Climate Choices**

<https://tinyurl.com/svqgls0>

- National research institute launches to bring clarity to Canada's climate choices (Jan 21)

#### **Canadian Institute for Health Information**

<https://tinyurl.com/u3czm9g>

- Canadian family doctors providing better access to care, lagging behind in offering digital services (Jan 30)

#### **Canadian Institutes of Health Research**

<https://tinyurl.com/r2e4zqj>

- Government of Canada and partners invest \$18M in crucial microbiome research (Jan 30)

#### **Canadian Partnership Against Cancer**

<https://tinyurl.com/vzzunh5>

- Canada Acts to Meet WHO Call to Eliminate Cancer (Feb 4)

#### **Centre for Addiction and Mental Health**

<https://tinyurl.com/r5n22jx>

- CAMH launches First-of-its-Kind Workplace Mental Health Playbook (Jan 23)

### **Children's Mental Health Ontario**

<https://tinyurl.com/qojja57>

- 28,000 Ontario Children and Youth are Waiting for Community Mental Health Services (Jan 27)

### **Heart & Stroke Foundation**

<https://tinyurl.com/t4soh62>

- Giving her a fighting chance: New Heart & Stroke report shows funding for research on women is yielding results (Feb 6)

### **ICES**

<https://tinyurl.com/shww054>

- Controlled-release opioid may be leading to heart infections in persons who inject drugs (Jan 22)

<https://tinyurl.com/wy6vubv>

- More women than men are admitted to nursing homes after suffering a stroke and they have higher care needs (Jan 28)

### **Office of the Privacy Commissioner of Canada**

<https://tinyurl.com/t9m4yhs>

- OPC launches a privacy presentation package aimed to get Canadians talking on Data Privacy Day (Jan 28)

<https://tinyurl.com/vswvdng>

- Commissioner seeks input on protecting Canadians' rights as artificial intelligence expands (Jan 28)

### **Office of the Surgeon General**

<https://tinyurl.com/u4jaln3>

- Surgeon General Release First Report Focused on Smoking Cessation in Thirty Years (Jan 23)

### **Ombudsman Ontario**

<https://tinyurl.com/ts4dj89>

- Ombudsman appoints Kelly Burke as new French Language Services Commissioner (Jan 13)

### **Ontario Power Generation**

<https://tinyurl.com/sem7dh9>

- OPG committed to lasting solutions for nuclear waste (Jan 31)

### **Patented Medicine Prices Review Board**

<https://tinyurl.com/u9c4m6r>

- Upward trend in market entry of high-cost drugs for rare diseases shows no sign of abating (Jan 15)

### **SickKids**

<https://tinyurl.com/yx7kj8wn>

- SickKids and ICES study finds increase of intentional overdoses among Ontario youth (Jan 22)



February 5, 2020

Ralph Walton, Regional Clerk  
Region of Durham

Sent via email to: [clerks@durham.ca](mailto:clerks@durham.ca)

**Re: Building Permit Activity Review 2019**

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Dear Mr. Walton:

At the last regular General Purpose and Administration Committee meeting held February 3, 2019, the above captioned matter was discussed.

I wish to advise that the following resolution was passed which will be going forward for ratification at the February 10, 2020 Township of Scugog Council meeting:

**"THAT** Report DEV-2020-005, Building Permit Activity Review 2019, be received; and

**THAT** Report DEV-2020-005, Building Permit Activity Review 2019 be circulated to the Region of Durham, the Scugog Chamber of Commerce, the Port Perry BIA, the Economic Development and the Tourism Advisory Committees, the Durham Region Home Builders' Association, the Durham Catholic and Durham District School Boards, and the Building Industry and Land Development (BILD) Association of Greater Toronto."

A copy of the Staff Report DEV-2020-005 is enclosed for your records.

Yours sincerely,

v  
John Paul Newman  
Director of Corporate Services/Clerk

Encl.



# Township of Scugog Staff Report

To request an alternative accessible format, please contact the Clerks Department at 905-985-7346.

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**Report Number:** DEV-2020-005  
**Prepared by:** Lindsay Burnett, Administrative Assistant  
**Department:** Development Services - Building  
**Report To:** General Purpose and Administration Committee  
**Date:** February 3, 2020  
**Reference:** Strategic Direction #3 – Economic Development  
**Report Title:** **Building Permit Activity Review 2019**

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## Recommendation:

1. That Report DEV-2020-005, Building Permit Activity Review 2019, be received; and
  2. That Report DEV-2020-005, Building Permit Activity Review 2019 be circulated to the Region of Durham, the Scugog Chamber of Commerce, the Port Perry BIA, the Economic Development and the Tourism Advisory Committees, the Durham Region Home Builders' Association, the Durham Catholic and Durham District School Boards, and the Building Industry and Land Development (BILD) Association of Greater Toronto.
- 

## 1. Background:

This report presents the 2019 Building Permit Activity Review. It compares building statistics from this past year to the results from 2018. It also highlights key results for the second half of 2019, and includes building projections for 2020.

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## 2. Discussion:

### 2.1. Permit Activity

Table 1 summarizes the number of building permits issued in 2018 and 2019 by type of construction. The table shows that:

- The Township issued 265 permits in 2019, a decrease of 3% from the 2018 figure of 273 permits;
- Approximately 66% of the permits issued in 2019 were for residential construction (176) which is higher than the 150 permits issued in 2018 for residential construction ;
- The number of building permits issued for new residential units increased from 43 in 2018 to 52 in 2019;
- In 2019, two thirds of new residential units were constructed in the Port Perry urban area;
- 2 permits were issued for renovations within multi-unit dwellings;
- Twenty-seven percent of the permits issued in 2019 were for non-residential construction (71) whereas in 2018, 33% of the permits issued (89) were for non-residential construction.
- 7% of permits issued in 2019 were demolition permits (18);
- The total number of demolition permits issued (18) in 2019 was a decrease of 47% from 2018 (34).

Table 1 also compares the number of building permits issued in the second half of 2018 and 2019. It indicates that:

- Activity in the second half of 2019 (137 permits) was an increase of 7% from 2018 (127 permits);
- There were 6 building permits issued for new agricultural buildings in the second half of 2019 whereas there were 18 issued during the same time period in 2018; and
- The number of permits issued for non-residential construction decreased slightly from 46 in 2018 to 43 in 2019.

**Table 1 – Number of Building Permits Issued Semi-Annually and by Type of Construction**

Type of Construction		2019			2018		
		Jan. – Jun.	Jul. – Dec.	Total	Jan. – Jun.	Jul. – Dec.	Total
<b>Residential</b>							
<i>Single Detached</i>	New Construction - Urban	12	23	35	6	15	21
	New Construction - Rural	12	5	17	12	10	22
	Addition	11	10	21	16	6	22
	Renovation	26	10	36	24	11	35
<i>Multi-Dwelling</i>	New Construction	0	0	0	0	0	0
	Addition / Renovation	2	0	2	3	0	3
<i>Garages / Decks / Porches</i>	New Construction	14	28	42	15	25	40
	Addition	2	2	4	5	0	5
	Renovation	8	11	19	0	2	2
<b>Sub-Total</b>		<b>87</b>	<b>89</b>	<b>176</b>	<b>81</b>	<b>69</b>	<b>150</b>
<b>Non-Residential</b>							
<i>Commercial</i>	New Construction	2	1	3	3	2	5
	Addition	1	0	1	2	0	2
	Renovation	5	8	13	9	8	17
<i>Industrial</i>	New Construction	0	1	1	0	0	0
	Addition	1	0	1	0	0	0
	Renovation	0	0	0	1	0	1
<i>Agricultural</i>	New Construction	6	6	12	11	18	29
	Addition	0	1	1	0	1	1
	Renovation	1	0	1	6	1	7
<i>Government / Institutional</i>	New Construction	1	0	1	1	1	2
	Addition	2	0	2	0	0	0
	Renovation	3	2	5	4	3	7
<i>Misc. Structures</i>	New	3	21	24	4	6	10
	Temporary	2	3	5	2	6	8
<i>Signs</i>	All	1	0	1	0	0	0
<b>Sub-Total</b>		<b>28</b>	<b>43</b>	<b>71</b>	<b>42</b>	<b>46</b>	<b>89</b>
Demolition		13	5	18	22	12	34
<b>Total Number of Building Permits Issued</b>		<b>128</b>	<b>137</b>	<b>265</b>	<b>146</b>	<b>127</b>	<b>273</b>

Table 2 summarizes the building permits issued in 2019 for commercial, signs, miscellaneous structures and industrial construction.

**Table 2 – Building Permits Issued in 2019 for  
Non- Residential Construction (Industrial, Commercial, Signs and Misc.  
Structures)**

Permit Type	Owner	Project Description	Construction Value	Area (sq. ft.)
Commercial	Nestleton Store	Internal renovation	\$120,000	8,611
Sign	Wireless 4U	Wall Sign	\$900	21
Governmental / Institutional	Durham Board of Education (PPHS)	Library and office A/C upgrades	\$200,000	4,000
Governmental / Institutional	Township of Scugog (Town Hall 1873)	Removal of bell tower and replace with temp. roof	\$37,000	151
Governmental / Institutional	Region of Durham (Works Depot)	New wash bay	\$650,000	1,734
Governmental / Institutional	Durham Board of Education (PAPS)	Outdoor classroom	\$35,000	800
Commercial	THMR Development Inc.	Concrete pad	\$750,000	4,300
Governmental / Institutional	United Church of Canada	Accessible interior renovations	\$135,000	374
Commercial	Unity Investment Corp	Interior renovation	\$10,000	30
Misc. Structure	Nestleton Waters Inn	Temp. tent	\$1,500	5,000
Industrial	Bob Briere	Addition	\$340,000	6,400
Commercial	Grumble Hill Ltd. (PP Medical Associates)	Interior renovation	\$200,000	2,960
Commercial	695386 Ontario Limited	Interior renovation – Unit7	\$80,000	1,367
Governmental / Institutional	Region of Durham (Works Depot)	Addition for fleet on west side of Admin. building	\$2,200,000	3,834
Commercial	Canterbury Land Development Corp.	Renovation & expansion of existing building, including new pool	\$1,600,000	24,261
Misc. Structure	Adamson Development Inc.	Temporary tents x 2	\$22,000	13,500

Permit Type	Owner	Project Description	Construction Value	Area (sq. ft.)
Commercial	Woodland Mills	Warehouse and sales office	\$900,000	12,346
Commercial	2567811 Ontario Inc.	Interior Alterations	\$40,000	828
Government / Institutional	Hope Christian Reformed Church	Interior Renovations	\$100,000	1,332
Commercial	Grumble Hill Ltd.	Interior Renovation	\$200,000	2,691
Misc. Structure	Township of Scugog	Temporary Tents for Fair	\$4,600	6,700
Commercial	Maple Leaf Foods	Installation of push back racking in plant 1	\$88,000	5,447
Commercial	David Menzies	Interior Renovation for Coffee Shop	\$25,000	1,000
Commercial	Wayne Luke	Repair partition in existing masonry wall	\$1,000	9
Misc. Structure	Willowtree Farm	Temporary Tent	\$2,200	2,389
Commercial	Greenbank Chicken Coop	Relocating Range Hood	\$40,000	42
Commercial	Adamson Developments	Utility Building	\$93,000	1,033
Government / Institutional	Ontario Housing Corporation	Removal of Existing Hot Water Boiler & Tank and Relocate new Boiler and Tank	\$138,000	430
Government / Institutional	Oak Ridges Hospice	Foundation	\$1,000,000	12,755
Commercial	Cha Chin Yol.	Renovations to create apartments	\$50,000	3,143
Commercial	Caro-way Holdings Ltd	Re-install dividing wall between 199 & 201 Queen Street	\$10,000	331
<b>Total</b>			<b>\$9,073,200</b>	

\* For FOI reasons, the names of the residential owners are not provided

## 2.2 Construction Value by Sector

Table 3 compares the value of construction of building permits issued in 2019 and 2018 by sector. Of note:

- Total construction value decreased by 10% from \$38.5 million in 2018 to \$34.3 million in 2019;
- Non-residential construction value decreased by 21% from 2018 to 2019. This decrease can be attributed to a significant reduction in the number of new agricultural buildings built in 2019 (12) compared to 2018 (29), and
- Residential construction value decreased by 4% from \$23.7 million in 2018 to \$22.7 million in 2019.

**TABLE 3 – Construction Value by Sector**

Sector	2019	2018	% Change
<b>Residential</b>	<b>\$22,707,983</b>	<b>\$23,732,192</b>	<b>-4%</b>
Single Dwelling	\$20,784,763	\$21,889,692	-5%
Multiple Dwellings	\$30,000	\$88,000	-66%
Garage/Deck/Porch	\$1,893,220	\$1,754,500	8%
<b>Non-Residential</b>	<b>\$11,618,229</b>	<b>\$14,573,121</b>	<b>-21%</b>
Commercial	\$4,237,000	\$3,282,175	292%
Industrial	\$1,190,000	\$500,000	138%
Agriculture	1,353,000	\$9,522,000	-86%
Government/Institutional	\$3,405,000	\$1,124,600	203%
Signs	\$900	\$0	-
Misc. Structures	\$1,432,329	\$144,346	892%
<b>Total Value of Building Permits Issued</b>	<b>\$34,326,212</b>	<b>\$38,305,313</b>	<b>-10%</b>

### 2.3 Permit Revenue

Table 4 compares the building permit revenue for 2019 and 2018. Of note:

- Building Permit revenue increased in 2019 by 33%, or \$102,865 from 2018;
- Revenue for plumbing has been incorporated into building permit revenue when plumbing is included in a building permit, e.g. for a new residence, plumbing fixtures are included in the building permit revenue.

**TABLE 4 – Building Permit Revenue**

Building Permits		
Season	2019	2018
Jan. – June	\$223,195	\$190,021
July – Dec.	\$190,685	\$120,994
<b>Year End Total</b>	<b>\$413,880</b>	<b>\$311,015</b>
Budgeted Permit Revenue for the Year	\$300,000	\$300,000

**2.4 Township Development Charge Revenue**

Table 5 compares actual Development Charge revenue for 2019 and 2018. The table illustrates that Development Charge revenue was higher, by 99% in 2019 than 2018.

**TABLE 5 – Township Development Charge Revenue**

Development Charge Account	2019	2018
Gen. Gov. Levies	\$21,917	\$11,618
Fire Levies	\$56,783	\$35,218
Public Works Levies	\$42,065	\$18,146
Parks and Recreation Levies	\$180,167	\$94,078
Library Levies	\$12,762	\$8,899
Animal Control Levies	\$1,376	\$636
Engineering Levies	\$423,252	\$202,669
<b>Total</b>	<b>\$738,322</b>	<b>\$371,264</b>

**2.5 Future Building Projections:**

The Township’s population is projected to increase by 2,186 people during the next ten year forecast period. With that, the Township is also anticipating to see the number of households increase by 1,090. Staff will continue to regularly review the development forecast.

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**3. Financial Implications:** - N/A**4. Communication Considerations:**

Electronic copies of Staff Report No. DEV-2020-005 shall be circulated to the Region of Durham, the Scugog Chamber of Commerce, the Port Perry BIA, the Economic Development and the Tourism Advisory Committees, the Durham Region Home Builders' Association, the Durham Catholic and Durham District School Boards, and to the Building Industry and Land Development (BILD) Association of Greater Toronto.

**5. Conclusion:**

In 2019, the Township issued a total of 265 building permits with an estimated construction value of \$34.3 million. Residential development has accounted for 66% of the permits issued and \$22.7 million of the total construction value. Sixty-six percent of the new residential units were built within the Port Perry Urban area. Twenty-seven percent of the total building permits issued were for the non-residential sector, most of which experienced an increase in construction value over 2018. Overall, in 2019, the number of building permits issued decreased by 3%, and construction value also decreased over 2018 figures, by 10%. However, building permit revenue increased by 33%, and Development Charge revenue increased by 99%.

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Respectfully Submitted by:

Reviewed By:

Lindsay Burnett  
Administrative Assistant

Kevin C. Heritage, MES, MCIP, RPP  
Director of Development Services

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**Attachments:** - Nil

Established 1793  
Incorporated  
Wolford 1850  
Merrickville 1860  
Amalgamated 1998



Telephone (613) 269-4791  
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## VILLAGE OF MERRICKVILLE-WOLFORD

February 5, 2020

**The Honourable Doug Ford, Premier of Ontario**

Premier's Office, Room 281  
Legislative Building, Queen's Park  
Toronto, ON, M7A 1A1

Dear Premier Ford:

**Re: Provincially Significant Wetlands Designation**

Please find attached the Council of the Corporation of the Village of Merrickville-Wolford's Resolution No. R-029-20, with respect to the Village's concerns surrounding the Ministry of Natural Resources and Forestry's practices and procedures while implementing designations of Provincially Significant Wetlands.

While the attached resolution is tailored to a Village-specific issue, it is Council's position that the concerns expressed therein are being experienced by municipalities Province-wide.

Thank you in advance for the consideration that you give this matter.

Yours truly,

A handwritten signature in black ink, appearing to read "Doug Robertson".

CAO/Clerk/Director, Economic Development

c. Honourable John Yakabuski, Minister of Natural Resources and Forestry  
Honourable Steve Clark, Minister of Municipal Affairs and Housing  
Andy Brown, CAO of the United Counties of Leeds and Grenville  
Association of Municipalities of Ontario  
Rural Ontario Municipal Association  
All Ontario municipalities

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## VILLAGE OF MERRICKVILLE-WOLFORD

For Clerk's use only, if required:

**Recorded Vote Requested By:**

Cameron	Y	N
Foster	Y	N
Halpenny	Y	N
Molloy	Y	N
Struthers	Y	N

Resolution Number: R - 029 - 20

Date: January 27, 2020

Moved by: Cameron Foster Halpenny Molloy

Seconded by: Cameron Foster Halpenny Molloy

WHEREAS the Village of Merrickville-Wolford is endeavouring to adopt a new Official Plan as required per Section 17 of the *Planning Act* and the Village is required to incorporate the Provincial Policy Statements of the Act;

AND WHEREAS the Provincial Policy Statements require the Village to provide in its Official Plan the updated provisions of new and expanded Provincially Significant Wetlands designations;

AND WHEREAS the Council of the Corporation of the Village of Merrickville-Wolford is concerned that the expansion of these wetlands is detrimentally affecting certain landowners and the Village's assessment base;

AND WHEREAS the Council of the Corporation of the Village of Merrickville-Wolford is concerned that designations of Provincially Significant Wetlands have occurred throughout the Province of Ontario without the provision of supporting evidence;

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## VILLAGE OF MERRICKVILLE-WOLFORD

AND WHEREAS the Council of the Corporation of the Village of Merrickville-Wolford is concerned about the expansion of the Provincially Significant Wetlands in the Northeast quadrant of the Village;

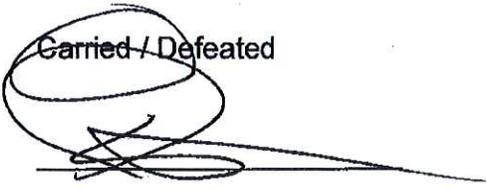
AND WHEREAS the Council of the Corporation of the Village of Merrickville-Wolford is concerned that these wetlands designations have been expanded without the Ministry of Natural Resources and Forestry having provided to the Village supporting evidence to justify said expansion;

NOW THEREFORE BE IT RESOLVED THAT the Council of the Corporation of the Village of Merrickville-Wolford does hereby respectfully request that the Ministry of Natural Resources and Forestry provide the Village with supporting evidence with respect to the expansion of these wetlands designations;

AND THAT the Ministry of Natural Resources and Forestry re-evaluate the subject properties without delay;

AND THAT a copy of this resolution be sent to the Honourable Premier Doug Ford, Minister of Natural Resources and Forestry, the Minister of Municipal Affairs and Housing, the United Counties of Leeds and Grenville, the Association of Municipalities of Ontario and the Rural Ontario Municipal Association and all Ontario municipalities.

Carried / Defeated

  
J. Douglas Struthers, Mayor