#### MASSASSAUGA-REDNERSVILLE PUBLIC SCHOOL ANNUAL REPORT

Drinking water system number: **260014014** 

Drinking water system name: Massassauga\_Rednersville Public School

Drinking water system owner: Hastings and Prince Edward District School Board

Drinking water system category: Small Non-Municipal Non-Residential

Period Being Reported: April 1, 2020 - March 31, 2021

Number of Designated Facilities Served:	3
Copies provided of annual report to all designated facilities	YES
served:	
Number of interested authorities you report to:	3
Copies provided of annual report to all interested authorities	YES
for each designated facility served:	
List all drinking water systems (if any) which receive all of	Massassauga_Rednersville Public School and
their drinking water from your system:	YMCA Kids Club-Mass-Red Site
	(DWIS#500104586) and The Hub Child &
	Family Centre (500141220)
Copies provided of annual report to all drinking water system	YES
owners to whom you provide all of its drinking water:	
Indicate method of notifying system users of annual report	Website and Public Request
availability free of charge:	

#### Description of Drinking Water System:

The Massassaga-Rednersville Public School drinking water system consists of one in ground storage tank equipped with a submersible pump (replaced Fall 2019) that supplies hauled water to the water treatment system. Water from a facility meeting the requirement of O. Reg.170/03 is hauled to the school to serve as the drinking water source. The treated water system begins with a cartridge style sediment filter, passes through a UV Pro 20 disinfection system and then is injected with chlorine (supplemental chlorination) prior to being distributed to plumbing. The system is equipped with a solenoid valve that shuts down water in instances of poor water quality or loss or power; the solenoid is tested weekly. Chlorine residual is measured each day the school is open.

A service contract is in place with Culligan Water, Belleville, to maintain the treatment system.

To satisfy treatment requirements as described in Ontario Regulation 170/03, Ultraviolet disinfection equipment is used as primary disinfection. In addition to meeting the minimum treatment requirement we add chlorination as a means of secondary disinfection, though it is not required in this system. The free chlorine residual is sampled and recorded on a daily basis and the UV solenoid is tested for proper functioning on a weekly basis.

A professional engineer hired by the Board certified that the water supply and works do meet the minimum standards set out in the Ontario Regulation 170/03. The engineer also certified that the minimum treatment laid out in Schedule 2 of the regulations is being complied with and that all equipment required by Schedule 6 and Schedule 9 of the regulations is provided.

### Water treatement chemicals used over this reporting period:

12% Sodium hypochlorite solution

## Significant Expenses incurred included (0=N/A, X=APPLICABLE):

- 0 Install Required Equipment
- X Repair Required Equipment
- 0 Replace Required Equipment

#### Description and breakdown of monetary expenses incurred:

April 1, 2020 - March 31, 2021

#### Water system upgrades and replacements:

No upgrades or replacements of equipment were completed during this year;

replacement parts only

\$920.10

#### Routine system maintenance (Including service contracts):

Regular maintenance includes monthly checks of the water treatment system. Where components are replaced as regular maintenace (ie filters), that cost is noted under upgrades/replacements/part repair. The costs for regular maintenance on water

treatment equipment was: \$2,824.18

#### Water sampling and analysis:

The cost for microbiological and chemical water sampling by Greer Galloway and

analytical fees was: \$2,793.66

#### **Staff Training:**

Costs for required training of staff under Ontario Regulation 170/03 was: \$84.62

Details on notices submitted in accordance with subsection 18(1) of the SDWA or section 16-4 of Schedule 16 of O.Reg. 170/03 and reported to SAC:

April 1, 2020 - March 31, 2021

			Unit of		Corrective action
<b>Incident Date</b>	Parameter	Result	Measure	Corrective Action	date
No incidents.					

# Microbiological testing done under the Schedule 10, 11 or 12 of O.Reg 170/03:

April 1, 2020 - March 31, 2021

	Number of	Range of	Range of TC
	samples	E.Coli or	Results
		<b>Fecal Results</b>	
		(min-max)	(min-max)
Cistern	10	0-0	0-0
Treated- Staff Kitchen	10	0-0	0-0
Distribution	10	0-0	0-0

# Operational testing done under Schedule 7, 8 or 9 of O.Reg. 170/03:

April 1, 2020 - March 31, 2021

	Number of Grab Samples	Range of Results
		(min-max)
Turbidity	10	0.15 - 0.82
Chlorine	180	0.75 - >2.20

Inorganic tes	norganic testing done during this reporting period or most recent sample results:				
				Unit of	
Parameter		Sample Date	<b>Result Value</b>	Measure	Exceedance
Antimony		N/A		mg/L	N/A
Arsenic		N/A		mg/L	N/A
Barium		N/A		mg/L	N/A
Boron		N/A		mg/L	N/A
Cadmium		N/A		mg/L	N/A
Chromium		N/A		mg/L	N/A
*Lead	STANDING	25-Sep-20	0.0016	mg/L	No
	FLUSHED	25-Sep-20	0.00081	mg/L	No
Mercury		N/A		mg/L	N/A
Selenium		N/A		mg/L	N/A
Sodium		N/A		mg/L	N/A
Uranium		N/A		mg/L	N/A
Fluoride		N/A		mg/L	N/A
Nitrite - 4th c	Nitrite - 4th quarter result		0.1	mg/L	No
Nitrate - 4th	quarter result	Mar-21	0.3	mg/L	No

Organic testing done during this reporting period or most recent sample results:				
			Unit of	
Parameter	Sample Date	Result Value	Measure	Exceedance
Alachlor	N/A		mg/L	N/A
Atrazine + N-dealkylated metobolites	N/A		mg/L	N/A
Azinphos-methyl	N/A		mg/L	N/A
Benzene	N/A		mg/L	N/A
Benzo(a)pyrene	N/A		mg/L	N/A
Bromoxynil	N/A		mg/L	N/A
Carbaryl	N/A		mg/L	N/A
Carbofuran	N/A		mg/L	N/A
Carbon Tetrachloride	N/A		mg/L	N/A
Chlorpyrifos	N/A		mg/L	N/A
Diazinon	N/A		mg/L	N/A
Dicamba	N/A		mg/L	N/A
1,2-Dichlorobenzene	N/A		mg/L	N/A
1,4-Dichlorobenzene	N/A		mg/L	N/A
1,2-Dichloroethane	N/A		mg/L	N/A
1,1-Dichloroethene (vinylidene chloride)	N/A		mg/L	N/A
Dichlormethane	N/A		mg/L	N/A
2,4-Dichlorophenol	N/A		mg/L	N/A
2,4-Dichlorophenoxyacetic acid (2,4-D)	N/A		mg/L	N/A
Diclofop-methyl	N/A		mg/L	N/A
Dimethoate	N/A		mg/L	N/A
Diquat	N/A		mg/L	N/A
Diuron	N/A		mg/L	N/A

Glyphosate	N/A	mg/L	N/A
Malathion	N/A	mg/L	N/A
Metolachlor	N/A	mg/L	N/A
Metribuzin	N/A	mg/L	N/A
Monochlorobenzene	N/A	mg/L	N/A
Paraquat	N/A	mg/L	N/A
Pentachlorophenol	N/A	mg/L	N/A
Phorate	N/A	mg/L	N/A
Picloram	N/A	mg/L	N/A
PolyChlorinated Biphenyls (PCB)	N/A	mg/L	N/A
Prometryne	N/A	mg/L	N/A
Simazine	N/A	mg/L	N/A
тнм	2-Oct-20	0.069 mg/L	No
Terbufos	N/A	mg/L	N/A
Tetrachloroethylene	N/A	mg/L	N/A
2,3,4,6-Tetrachlorophenol	N/A	mg/L	N/A
Triallate	N/A	mg/L	N/A
Trichloroethylene	N/A	mg/L	N/A
2,4,6-Trichlorophenol	N/A	mg/L	N/A
Trifluarlin	N/A	mg/L	N/A
Vinyl Chloride	N/A	mg/L	N/A

Inorganic or Organic Parameter(s) that exceed half the standard prescribed in Schedule 2 of ODWQS:				
		Unit of		
Parameter	Result Value	Measure	Date of Sample	Notes:
THM - Voluntary Sampling	0.069	mg/L	2-Oct-20	Voluntary Sampling