Drinking-Water Systems Regulation O.Reg. 170/03

MAYNOOTH PUBLIC SCHOOL ANNUAL REPORT

Drinking water system number:	**260014027**
Drinking water system name:	**Maynooth 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:	2
Copies provided of annual report to all designated facilities served:	YES
Number of interested authorities you report to:	3
Copies provided of annual report to all interested authorities for each designated facility served:	YES
List all drinking water systems (if any) which receive all of their drinking water from your system:	Maynooth Public School and North Hastings Children's Services (DWS#500122760)
Copies provided of annual report to all drinking water system owners to whom you provide all of its drinking water:	YES
Indicate method of notifying system users of annual report availability free of charge:	Website and Public Request

Description of Drinking Water System:

The Maynooth Public School drinking water system consists of one well, drilled in July 2011. The well is located at the east side of the parking lot of the school, and is equipped with a submersible pump that supplies raw water to a mechanical room in the basement of the school. The water is chlorinated and then passes through two cartridge style sediment filter and then through an Ultraviolet Pro 20 disinfection system which 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. The pressure system and other miscellaneous pipes and fittings are located in the same room.

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.

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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 **$1,466.82**

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

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective action date
No incidents.					

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

April 1, 2020 - March 31, 2021

	Number of samples	Range of E.Coli or Fecal Results (min-max)	Range of TC Results (min-max)
Raw	10	0-0	0-0
Treated- Staff Kitchen	17	0-0	0-0
Distribution	17	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	17	0.09 - 0.48
Chlorine	180	0.09 - 0.71

Inorganic testing done during this reporting period or most recent sample results:

Parameter		Sample Date	Result Value	Unit of Measure	Exceedance
Antimony		5-Jan-17	<0.0001	mg/L	No
Arsenic		5-Jan-17	0.0006	mg/L	No
Barium		5-Jan-17	0.013	mg/L	No
Boron		5-Jan-17	0.014	mg/L	No
Cadmium		5-Jan-17	0.00004	mg/L	No
Chromium		5-Jan-17	<0.002	mg/L	No
***Lead**	**STANDING**	29-Sep-20	0.00109	mg/L	No
	FLUSHED	29-Sep-20	0.00076	mg/L	No
Mercury		5-Jan-17	<0.00002	mg/L	No
Selenium		5-Jan-17	<0.001	mg/L	No
Sodium		5-Jan-17	15.2	mg/L	No
Uranium		5-Jan-17	0.0176	mg/L	No
Fluoride		5-Jan-17	0.3	mg/L	No
Nitrite - 4th quarter result		Mar-21	0.2	mg/L	No
Nitrate - 4th quarter result		Mar-21	<0.1	mg/L	No

Organic testing done during this reporting period or most recent sample results:

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	5-Jan-17	<0.0003	mg/L	No
Atrazine + N-dealkylated metobolites	5-Jan-17	<0.0005	mg/L	No
Azinphos-methyl	5-Jan-17	<0.001	mg/L	No
Benzene	5-Jan-17	<0.0005	mg/L	No
Benzo(a)pyrene	5-Jan-17	<0.000005	mg/L	No

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Bromoxynil	5-Jan-17	<0.0003	mg/L	No
Carbaryl	5-Jan-17	<0.003	mg/L	No
Carbofuran	5-Jan-17	<0.001	mg/L	No
Carbon Tetrachloride	5-Jan-17	<0.0002	mg/L	No
Chlorpyrifos	5-Jan-17	<0.0005	mg/L	No
Diazinon	5-Jan-17	<0.001	mg/L	No
Dicamba	5-Jan-17	<0.005	mg/L	No
1,2-Dichlorobenzene	5-Jan-17	<0.0002	mg/L	No
1,4-Dichlorobenzene	5-Jan-17	<0.0001	mg/L	No
1,2-Dichloroethane	5-Jan-17	<0.0001	mg/L	No
1,1-Dichloroethene (vinylidene chloride)	5-Jan-17	<0.0001	mg/L	No
Dichlormethane	5-Jan-17	<0.0003	mg/L	No
2,4-Dichlorophenol	5-Jan-17	<0.0001	mg/L	No
2,4-Dichlorophenoxyacetic acid (2,4-D)	5-Jan-17	<0.005	mg/L	No
Diclofop-methyl	5-Jan-17	<0.0005	mg/L	No
Dimethoate	5-Jan-17	<0.001	mg/L	No
Diquat	5-Jan-17	<0.005	mg/L	No
Diuron	5-Jan-17	<0.005	mg/L	No
Glyphosate	5-Jan-17	<0.025	mg/L	No
MCPA 2-Methyl-4-chlorophenoxyacetic Acid	5-Jan-17	<0.00012	mg/L	No
Malathion	5-Jan-17	<0.005	mg/L	No
Metolachlor	5-Jan-17	<0.003	mg/L	No
Metribuzin	5-Jan-17	<0.003	mg/L	No
Monochlorobenzene	5-Jan-17	<0.0002	mg/L	No
Paraquat	5-Jan-17	<0.001	mg/L	No
Pentachlorophenol	5-Jan-17	<0.0001	mg/L	No
Phorate	5-Jan-17	<0.0003	mg/L	No
Picloram	5-Jan-17	<0.005	mg/L	No
PolyChlorinated Biphenyls (PCB)	5-Jan-17	<0.00005	mg/L	No
Prometryne	5-Jan-17	<0.0001	mg/L	No
Simazine	5-Jan-17	<0.0005	mg/L	No
THM	1-Sep-20	<0.006	mg/L	No
Terbufos	5-Jan-17	<0.0003	mg/L	No
Tetrachloroethylene	5-Jan-17	<0.0002	mg/L	No
2,3,4,6-Tetrachlorophenol	5-Jan-17	<0.0001	mg/L	No
Triallate	5-Jan-17	<0.01	mg/L	No
Trichloroethylene	5-Jan-17	<0.0001	mg/L	No
2,4,6-Trichlorophenol	5-Jan-17	<0.0001	mg/L	No
Trifluarlin	5-Jan-17	<0.0005	mg/L	No
Vinyl Chloride	5-Jan-17	<0.0002	mg/L	No

Inorganic or Organic Parameter(s) that exceed half the standard prescribed in Schedule 2 of ODWQS:				
Parameter	**Result Value**	**Unit of Measure**	**Date of Sample**	Notes:
None.				