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

Part III Form 2
Section 11. ANNUAL REPORT.

Drinking-Water System Number:	260011622
Drinking-Water System Name:	Deer Park PS
Drinking-Water System Owner:	York Region District School Board
Drinking-Water System Category:	Small Non-Municipal Non-Residential
Period being reported:	01/04/2023 to 31/03/2024

Complete if your Category is Large Municipal Residential or Small Municipal Residential	***Complete for all other Categories.***
Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [x] **Is your annual report available to the public at no charge on a web site on the Internet? Yes [x] No [ ]** **Location where Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.**	**Number of Designated Facilities served:** **1** **Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [x] No [..]** **Number of Interested Authorities you report to:** **1** **Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [x] No [..]**

Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Deer Park PS	260011622

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water? Yes [x] No [..]

Indicate how you notified system users that your annual report is available, and is free of charge.

[x**] Public access/notice via the web**
[..] Public access/notice via Government Office
[..] Public access/notice via a newspaper
[x**] Public access/notice via Public Request**
[..] Public access/notice via a Public Library
[..] Public access/notice via other method:

Describe your Drinking-Water System

Deer Park P.S. is served by an on-site well water supply located on the north side of the school. The well is drilled to a depth of 92.96 metres below grade where water is obtained from a bedrock/confined clay aquifer. In order to comply with minimum treatment requirements, ultraviolet disinfection equipment was installed at this school. As an extra precaution, chlorine feed equipment and turbidity meter were installed even though they were not required by the regulation. A professional engineer hired by the Board provided certification that the water works at the school meets minimum treatment requirements set forth in the regulation. This engineering assessment and certification is a mandatory part of the regulation. In 2007 UPS power back up units were installed for the turbidity meter, chlorine analyzer, chessell recorder and UV system to provide power to the water treatment system for up to three hours in the case of power failure. Automatic shut off valves were installed which stop water flow in the event the UV disinfection unit alarms due to loss of intensity. This prevents the untreated water from being distributed to the system when the UV cannot provide an adequate level of disinfection. In 2013, a new UV unit (UVMaxPro 30) was installed to replace the previous UV unit. Filtration is provided via a 5 micron cartridge filter located prior to UV disinfection. A water softener is also installed for the reduction of hardness and iron in the raw water.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite (12% Chlorine solution)

Were any significant expenses incurred to?

[..] Install required equipment
[..] Repair required equipment
[..] Replace required equipment

Please provide a brief description and a breakdown of monetary expenses incurred

The cost to install, repair and replace required equipment, as well as the contractor to service the equipment and test the water is approximately $11,139.25.

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre?

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
28/09/2023	Turbidity	>1.0	NTU	AWI 163657 A notice of adverse water was sent on Sept 28, 2023 due to high turbidity (>1.0 NTU) and filters clogging from the well water. Drinking sources were bagged and signed and alternate drinking water supplied. On November 29, 2023, the well contractor reviewed the well and chlorinated and turbidity readings stabilized. Turbidity was monitored for a period of time until readings proved to be stable (throughout December and early January). Notice of issue resolution was sent Jan 10, 2024 and drinking water placed back into service.	28/09/2023

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	Number of Samples	Range of E.Coli or Fecal Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw	15	0 - 0	0 - 0		
Treated	27	0 - 0	0 - 0	27	0 - 137
Distribution					

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (min #)-(max #)
Turbidity	n/a	n/a
Chlorine	n/a	n/a
Fluoride (If the DWS provides fluoridation)	n/a	n/a

__NOTE__: For continuous monitors use 8760 as the number of samples.

__NOTE__: Record the unit of measure if it is __not__ milligrams per litre.

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	01/02/2022	.0006	mg/L	No
Arsenic	01/02/2022	.0002	mg/L	No
Barium	01/02/2022	.0145	mg/L	No
Boron	01/02/2022	.169	mg/L	No
Cadmium	01/02/2022	.000003	mg/L	No
Chromium	01/02/2022	.00009	mg/L	No
Fluoride	01/02/2022	.13	mg/L	No
Lead (Standing Sample)	14/05/2022	0	mg/L	No
Lead (Flushed Sample)	14/05/2022	0	mg/L	No
Mercury	01/02/2022	.00001	mg/L	No
Nitrate	26/03/2024	.01	mg/L	No
Nitrate	03/01/2024	.05	mg/L	No
Nitrate	10/10/2023	.053	mg/L	No
Nitrate	18/07/2023	.034	mg/L	No
Nitrate	25/04/2023	.03	mg/L	No
Nitrite	26/03/2024	.003	mg/L	No
Nitrite	03/01/2024	.003	mg/L	No
Nitrite	10/10/2023	.012	mg/L	No
Nitrite	18/07/2023	.003	mg/L	No
Nitrite	25/04/2023	.003	mg/L	No
Selenium	01/02/2022	.00004	mg/L	No
Sodium	01/02/2022	75	mg/L	Yes
Sodium	14/02/2022	66.5	mg/L	Yes
Uranium	01/02/2022	.000011	mg/L	No

Summary of Organic parameters sampled during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
1,1-Dichloroethylene	01/02/2022	.00033	mg/L	No
1,2-Dichlorobenzene	01/02/2022	.00041	mg/L	No
1,2-Dichloroethane	01/02/2022	.00035	mg/L	No
1,4-Dichlorobenzene	01/02/2022	.00036	mg/L	No
2,3,4,6-Tetrachlorophenol	01/02/2022	.0002	mg/L	No
2,4,6-Trichlorophenol	01/02/2022	.00025	mg/L	No
2,4-D	01/02/2022	.00019	mg/L	No
2,4-Dichlorophenol	01/02/2022	.00015	mg/L	No
2-methyl-4-chlorophenoxyacetic acid (MCPA)	01/02/2022	.00012	mg/L	No
Alachlor	01/02/2022	.00002	mg/L	No
Atrazine + N-dealkylated metabolites	01/02/2022	.00001	mg/L	No
Azinphos-methyl	01/02/2022	.00005	mg/L	No
Benzene	01/02/2022	.00032	mg/L	No
Benzo(a)pyrene	01/02/2022	.000004	mg/L	No
Bromoxynil	01/02/2022	.00033	mg/L	No
Carbaryl	01/02/2022	.00005	mg/L	No
Carbofuran	01/02/2022	.00001	mg/L	No
Carbon Tetrachloride	01/02/2022	.00017	mg/L	No

Chlorpyrifos	01/02/2022	.00002	mg/L	No
Diazinon	01/02/2022	.00002	mg/L	No
Dicamba	01/02/2022	.0002	mg/L	No
Dichloromethane	01/02/2022	.00035	mg/L	No
Diclofop-methyl	01/02/2022	.0004	mg/L	No
Dimethoate	01/02/2022	.00006	mg/L	No
Diquat	01/02/2022	.001	mg/L	No
Diuron	01/02/2022	.00003	mg/L	No
Glyphosate	01/02/2022	.001	mg/L	No
Malathion	01/02/2022	.00002	mg/L	No
Metolachlor	01/02/2022	.00001	mg/L	No
Metribuzin	01/02/2022	.00002	mg/L	No
Monochlorobenzene	01/02/2022	.0003	mg/L	No
Paraquat	01/02/2022	.001	mg/L	No
PCB	01/02/2022	.00004	mg/L	No
Pentachlorophenol	01/02/2022	.00015	mg/L	No
Phorate	01/02/2022	.00001	mg/L	No
Picloram	01/02/2022	.001	mg/L	No
Prometryne	01/02/2022	.00003	mg/L	No
Simazine	01/02/2022	.00001	mg/L	No
Terbufos	01/02/2022	.00001	mg/L	No
Tetrachloroethylene	01/02/2022	.00035	mg/L	No
Triallate	01/02/2022	.00001	mg/L	No
Trichloroethylene	01/02/2022	.00044	mg/L	No
Trifluralin	01/02/2022	.00002	mg/L	No
Vinyl Chloride	01/02/2022	.00017	mg/L	No

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample
n/a	n/a	n/a	n/a

(Only if DWS category is large municipal residential, small municipal residential, large municipal non residential, non municipal year round residential, large non municipal non residential)