

**Part III Form 2
Section 11. ANNUAL REPORT.**

Drinking-Water System Number:	260011648
Drinking-Water System Name:	Kettleby 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

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [] No [x]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [x] No []</p> <p>Location where Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; display: inline-block; padding: 2px 10px;">1</div> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [x] No [..]</p> <p>Number of Interested Authorities you report to: <div style="border: 1px solid black; display: inline-block; padding: 2px 10px;">1</div></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [x] No [..]</p>
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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
Kettleby PS	260011648

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.

- Public access/notice via the web**
- Public access/notice via Government Office**
- Public access/notice via a newspaper**
- Public access/notice via Public Request**
- Public access/notice via a Public Library**
- Public access/notice via other method:**

Describe your Drinking-Water System

Kettleby PS is served by an onsite well water supply located on the north side of the school. The well is drilled to a depth of 24.82 meters below grade where water is obtained from a confined clay aquifer. An ultraviolet disinfection system is used in order to comply with minimum treatment requirements (please note a new ultraviolet disinfection system was installed in 2010). As an extra precaution, chlorine feed equipment and turbidity meter were installed even though not required by the regulation. A UPS power back up unit was 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 event of a power failure. Automatic shut off valves were installed which stops water flow in the event the UV disinfection system alarms due to loss of intensity. This prevents the untreated water from being distributed to the system when the UV cannot provide adequate disinfection. A professional engineer hired by the Board in 2010 to complete an evaluation and provided certification that the water works at the school meets minimum treatment requirements set forth in the regulation. In 2011, the Board installed three additional filter housing units in parallel to increase filtration capacity and an addendum was added to the Engineering Evaluation Report.

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 \$18,567.00.

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
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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	13	0 - 0	0 - 0		
Treated	26	0 - 0	0 - 0	26	0 - 4
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	31/01/2022	.0006	mg/L	No
Arsenic	31/01/2022	.0011	mg/L	No
Barium	31/01/2022	.0857	mg/L	No
Boron	31/01/2022	.037	mg/L	No
Cadmium	31/01/2022	.000003	mg/L	No
Chromium	31/01/2022	.00011	mg/L	No
Fluoride	31/01/2022	.18	mg/L	No
Lead (Standing Sample)	24/07/2022	0.0015	mg/L	No
Lead (Flushed Sample)	24/07/2022	0	mg/L	No
Mercury	31/01/2022	.00001	mg/L	No

Nitrate	25/03/2024	.028	mg/L	No
Nitrate	02/01/2024	.019	mg/L	No
Nitrate	10/10/2023	.021	mg/L	No
Nitrate	17/07/2023	.032	mg/L	No
Nitrate	24/04/2023	.022	mg/L	No
Nitrite	25/03/2024	.003	mg/L	No
Nitrite	02/01/2024	.003	mg/L	No
Nitrite	10/10/2023	.003	mg/L	No
Nitrite	17/07/2023	.003	mg/L	No
Nitrite	24/04/2023	.003	mg/L	No
Selenium	31/01/2022	.00004	mg/L	No
Sodium	31/01/2022	18.8	mg/L	No
Uranium	31/01/2022	.000031	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	31/01/2022	.00033	mg/L	No
1,2-Dichlorobenzene	31/01/2022	.00041	mg/L	No
1,2-Dichloroethane	31/01/2022	.00035	mg/L	No
1,4-Dichlorobenzene	31/01/2022	.00036	mg/L	No
2,3,4,6-Tetrachlorophenol	31/01/2022	.0002	mg/L	No
2,4,6-Trichlorophenol	31/01/2022	.00025	mg/L	No
2,4-D	31/01/2022	.00019	mg/L	No
2,4-Dichlorophenol	31/01/2022	.00015	mg/L	No
2-methyl-4-chlorophenoxyacetic acid (MCPA)	31/01/2022	.00012	mg/L	No
Alachlor	31/01/2022	.00002	mg/L	No
Atrazine + N-dealkylated metabolites	31/01/2022	.00001	mg/L	No
Azinphos-methyl	31/01/2022	.00005	mg/L	No
Benzene	31/01/2022	.00032	mg/L	No
Benzo(a)pyrene	31/01/2022	.000004	mg/L	No
Bromoxynil	31/01/2022	.00033	mg/L	No
Carbaryl	31/01/2022	.00005	mg/L	No
Carbofuran	31/01/2022	.00001	mg/L	No
Carbon Tetrachloride	31/01/2022	.00017	mg/L	No
Chlorpyrifos	31/01/2022	.00002	mg/L	No
Diazinon	31/01/2022	.00002	mg/L	No
Dicamba	31/01/2022	.0002	mg/L	No
Dichloromethane	31/01/2022	.00035	mg/L	No
Diclofop-methyl	31/01/2022	.0004	mg/L	No
Dimethoate	31/01/2022	.00006	mg/L	No
Diquat	31/01/2022	.001	mg/L	No
Diuron	31/01/2022	.00003	mg/L	No
Glyphosate	31/01/2022	.001	mg/L	No
Malathion	31/01/2022	.00002	mg/L	No
Metolachlor	31/01/2022	.00001	mg/L	No
Metribuzin	31/01/2022	.00002	mg/L	No
Monochlorobenzene	31/01/2022	.0003	mg/L	No
Paraquat	31/01/2022	.001	mg/L	No
PCB	31/01/2022	.00004	mg/L	No

Pentachlorophenol	31/01/2022	.00015	mg/L	No
Phorate	31/01/2022	.00001	mg/L	No
Picloram	31/01/2022	.001	mg/L	No
Prometryne	31/01/2022	.00003	mg/L	No
Simazine	31/01/2022	.00001	mg/L	No
Terbufos	31/01/2022	.00001	mg/L	No
Tetrachloroethylene	31/01/2022	.00035	mg/L	No
Triallate	31/01/2022	.00001	mg/L	No
Trichloroethylene	31/01/2022	.00044	mg/L	No
Trifluralin	31/01/2022	.00002	mg/L	No
Vinyl Chloride	31/01/2022	.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)