

## **ANNUAL DRINKING WATER REPORT 2016-2017**

### **ST. MICHAEL'S CATHOLIC SCHOOL, DOUGLAS**

#### **Introduction**

The Renfrew County Catholic District School Board is pleased to present to the parents and students of St. Michael's, Douglas its annual drinking water report. The province's Drinking Water Protection Regulation for Smaller Water Works Serving Designated Facilities requires that we publish this report for your information. Here you will find the water quality and other information that we were required to collect for the annual period April 1, 2015-March 31, 2016.

If you have a question about the St. Michael's, Douglas water supply or this report, please call the Community Use of Schools/Plant Services Officer @ 613-735- 1031 Ext 273, Health and Safety Officer @ 613.-735-1031 Ext 343 or Acting School Mary Catherine @ 613-649-2254 during business hours.

#### **Water System Information**

St. Michael's has been served by an on-site well drilled in December 1999. The well was drilled @ 43.3 meters when water was encountered and further drilled to a depth of 50.3 meters with water flow 135 liters per minute. In order to comply with the minimum treatment requirements contained in the regulation, ultraviolet disinfection equipment was installed in the spring of 2002. A professional engineer hired by the Board provided certification that the water works at the school meets the minimum requirements set forth in the regulation. This engineering assessment and certification is a mandatory requirement of the regulation.

#### **Equipment Costs Incurred in 2016-2017**

The cost of treatment equipment, weekly testing and the consultant was approximately \$12321.14

#### **Summary of notices and reports**

As required by the regulation, the Renfrew County Catholic District School Board submitted a notice to the Ministry of the Environment and to the interested authority (the Ministry of Education) advising it that the water supply at the school did not meet the minimum treatment requirements. The notice of non-compliance also advised that the Board had retained the services of an engineering consultant and planned to be in compliance by March 2002.

In March 2002, after the new water works commenced operation, the Board submitted its engineer's report to the Ministry of the Environment and the interested authority (the Ministry of Education) as required by the regulation. The report certified that St. Michael's School, Douglas water works met all requirements.

On November 8, 2012 a Ministry of the Environment Drinking Water Inspection was completed. There were no ACTION required items in this report. All information in this report can be viewed at the request of an individual at St. Michael's Catholic School.

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**Adverse water quality notifications and corrective actions**

There were no notices submitted to the Ministry of Environment and the local Medical Officer of Health indicating samples with adverse water quality as no adverse readings were found.

**Summary of water quality**

The regulation requires the Board to sample for various types of water quality parameters at prescribed frequencies. The results are presented below, followed by some definitions you may find useful.

***Summary of Results for Microbiological Parameters  
April 1, 2016-March 31, 2017***

Parameter	Sample Type	Frequency	# of samples Yearly	Amount Detected	# of exceedances
Total Coliforms (per 100 mL)	Raw Water	Monthly	12	ND	0
Total Coliforms (per 100 mL)	Treated Water	Monthly	12	ND	0
Total Coliforms (per 100 mL)	Distribution Line	Monthly	12	ND	0
E.coli (per 100 mL)	Raw Water	Monthly	12	ND	0
E.coli (per 100 mL)	Treated Water	Monthly	12	ND	0
E.coli (per 100 mL)	Distribution Line	Monthly	12	ND	0
Nitrites/Nitrates (N)	Treated	Quarterly	4	ND	0

**\*ND – non detectable**

***Summary of Results for Chemical Parameters  
(Collected May 22, 2012)***

Parameter	M.D.L	Custodial Room Treated	Kitchen/Staff Room
Antimony	0.0001	<0.0001	--
Arsenic	0.0001	0.0001	--
Barium	0.001	0.108	--
Boron	0.005	0.151	--
Cadmium	0.00002	<0.00002	--
Chromium	0.002	<0.002	--
Lead	0.00002	--	0.00023

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Mercury	0.00002	<0.00002	--
Selenium	0.001	<0.001	--
Sodium	0.2	32.7	--
Uranium	0.00005	0.00036	--
Benzene	0.5	<0.5	--
Carbon Tetrachloride	0.2	<0.2	--
Dichlorobenzene 1, 2-	0.1	<0.1	--
Dichlorobenzene 1, 4-	0.2	<0.2	--
Dichloroethane 1, 2-	0.1	<0.1	--
Dichloroethene 1, 1-	0.1	<0.1	--
Dichloromethane (Methylene Chloride)	0.3	<0.3	--
Monochlorobenzene (Chlorobenzene)	0.2	<0.2	--
Tetrachloroethylene	0.2	<0.2	--
Trichloroethylene	0.1	<0.1	--
Vinyl Chloride	0.2	<0.2	--
Fluoride	0.1	0.6	--
Alachlor	0.3	<0.3	--
Aldicarb	3	<3	--
Aldrin + Deildrin	0.02	<0.02	--
Atrazine + Metabolites	0.5	<0.5	--
Azinphos-methyl	1	<1	--
Bendiocarb	3	<3	--
Benzo(A)pyrene	0.005	<0.005	--
Bromozynil	0.3	<0.3	--
Carbaryl	3	<3	--
Carbofuran	1	<1	--
Chlordane (Total)	0.04	<0.04	--
Chlorpyrifos	0.5	<0.5	--
Cyanazine	0.5	<0.5	--
DDT + Metabolites	0.01	<0.01	--
Diazinon	1	<1	--
Dicamba	5	<5	--
Dichlorophenol 2, 4-	0.1	<0.1	--
Dichlorophenoxy acetic acid 2, 4- (2,4-D)	5	<5	--
Diclofop-methyl	0.5	<0.5	--
Dimethoate	1	<1	--
Dinoseb	0.5	<0.5	--
Diquat	5	<5	--
Diuron	5	<5	--
Glyphosate	25	<25	--
Heptachlor + Heptachlor Epoxide	0.1	<0.1	--
<b>Parameter</b>	<b>M.D.L.</b>	<b>Custodial Room Treated</b>	<b>Kitchen/Staff Room</b>
Lindane (Hexachlorocyclohexane, Gamma)	0.1	<0.1	--
Malathion	5	<5	--
Methozechlor	0.1	<0.1	--
Metolachlor	3	<3	--
Metribuzin	3	<3	--
Paraquat	1	<1	--
Parathion	3	<3	--
Pentachlorophenol	0.1	<0.1	--
Phorate	0.3	<0.3	--
Picloram	5	<5	--
Poly-Chlorinated Biphenyls (PCB's)	0.05	<0.05	--

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Prometryne	0.1	<0.1	--
Simazine	0.5	<0.5	--
Temephos	10	<10	--
Terbufos	0.3	<0.3	--
Tetrachlorophenol, 2, 3, 4, 6-	0.1	<0.1	--
Triallate	10	<10	--
Trichlorophenol 2, 4, 6-	0.1	<0.1	--
Trichlorophenoxy acetic acid 2,4, 5-	10	<10	--
Trifluralin	0.5	<0.5	--

**Note: Sampling frequency is once per five years.**

***MDL – Minimum Detectable Limit (micrograms)***