

## **ANNUAL DRINKING WATER REPORT 2018-2019**

### **OUR LADY OF GRACE, WESTMEATH**

#### **Introduction**

The Renfrew County Catholic District School Board is pleased to present to the parents and students of Our Lady of Grace, Westmeath 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, 2018-March 31, 2019.

If you have a question about the Our Lady of Grace, Westmeath water supply or this report, please call the Community Use of Schools/Plant Services Officer @ 613-735-1031 Ext 273, Health and Safety/Plant Services Officer @ 613-735-1031 Ext 343 or school Terrance O'Grady @ 613-587-4837 during business hours.

#### **Water System Information**

Our Lady of Grace has been served by an on-site drilled well since school was built in 1962. The well is drilled to a depth of approximately 15 meters, where water is obtained from a gravel/sand aquifer. 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 2018-2019**

The cost of treatment equipment, monthly testing was approximately \$3879.75

#### **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 Our Lady of Grace School, Westmeath water works met all requirements.

On April 9, 2013 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 Our Lady of Grace Catholic School.

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**Adverse water quality notifications and corrective actions**

There was one notice submitted on May 16, 2017 to the Ministry of the Environment and the local Medical Officer of Health indicating samples with adverse water quality for Sodium. In this case, the tap was resampled with results still being high sodium. The school will continue to have signs posted adjacent to all fountains and all distribution water taps indicating high sodium. A notice of issue resolution was sent out to the Ministry of the Environment and the local Medical Officer of Health on May 16, 2017.

There was one notice submitted on October 25, 2018 to the Ministry of the Environment and the local Medical Officer of Health indicating samples with adverse water quality for Coliforms. In this case, the system was disinfected, mains flushed and the taps were resampled twice—first testing was done on October 30<sup>th</sup> and the second testing was done on October 31<sup>st</sup>, the fountains were covered, signs posted and notices sent out too. A notice of issue resolution was sent out to the Ministry of the Environment and the local Medical Officer of Health notice of issue resolution November 11, 2018.

**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, 2018-March 31, 2019***

Parameter	Sample Type	Frequency	# of samples Yearly	Amount Detected	# of exceedances
Total Coliforms (per 100 mL)	Raw Water	Monthly	12	19	1
Total Coliforms (per 100 mL)	Treated Water	Monthly	12	56	1
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	2.33 mg/L 1.10 mg/L 1.27 mg/L 1.57 mg/L	

**\*ND – non detectable**

**\*NDOGT – No Data, Overgrown with Target**

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*Summary of Results for Chemical Parameters  
(Collected May 11, 2017)*

Parameter	M.D.L	Pump Room Treated	Kitchen/Staff Room
Antimony	0.02	0.04	--
Arsenic	0.2	0.2<MDL	--
Barium	0.01	109	--
Boron	2	32	--
Cadmium	0.003	0.003	--
Chromium	0.03	0.68	--
Lead	0.01	--	Flushed Rm 5-- 0.65
Mercury	0.01	0.01<MDL	--
Selenium	0.04	0.50	--
Sodium	0.01	94.5 MAC	--
Uranium	0.002	0.526	--
Benzene	0.32	0.32<MDL	--
Carbon Tetrachloride	0.16	0.16<MDL	--
Dichlorobenzene 1, 2-	0.41	0.41<MDL	--
Dichlorobenzene 1, 4-	0.36	1.1<MDL	--
Dichloroethane 1, 2-	0.35	0.35<MDL	--
Dichloroethylene 1, 1-	0.33	0.33<MDL	--
Dichloromethane (Methylene Chloride)	0.35	0.35<MDL	--
Monochlorobenzene (Chlorobenzene)	0.30	0.3<MDL	--
Tetrachloroethylene	0.35	0.35<MDL	--
Trichloroethylene	0.44	0.44<MDL	--
Vinyl Chloride	0.17	0.17<MDL	--
Fluoride	0.06	0.18	--
Alachlor	0.02	0.02<MDL	--
Atrazine + Metabolites	0.01	0.01<MDL	--
Atrazine	0.01	0.01<MDL	--
Desethyl Atrazine	0.01	0.01<MDL	--
Azinphos-methyl	0.05	0.05<MDL	--
Benzo(A)pyrene	0.004	0.004<MDL	--
Bromozynil	0.33	0.33<MDL	--
Carbaryl	0.05	0.05<MDL	--
Carbofuran	0.01	0.01<MDL	--
Chlorpyrifos	0.02	0.02<MDL	--
Diazinon	0.02	0.02<MDL	--
Dicamba	0.20	0.20<MDL	--
Dichlorophenol 2, 4-	0.15	0.15<MDL	--
Dichlorophenoxyacetic acid 2, 4- (2,4-D)	0.19	0.19<MDL	--
Diclofop-methyl	0.40	0.40<MDL	--
Dimethoate	0.03	0.03<MDL	--
Diquat	1	1<MDL	--
Diuron	0.03	0.03<MDL	--
Glyphosate	1	1<MDL	--

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Malathion	0.02	0.02<MDL	--
Metolachlor	0.01	0.01<MDL	--
Metribuzin	0.02	0.02<MDL	--
MCPA	0.00012	0.00012<MDL	
Paraquat	1	1<MDL	--
Pentachlorophenol	0.15	0.15<MDL	--
<b>Parameter</b>	<b>M.D.L</b>	<b>Pump Rm Treated</b>	<b>Kitchen Staff Room</b>
Phorate	0.1	0.01<MDL	--
Picloram	1	1<MDL	--
Poly-Chlorinated Biphenyls (PCB's)	0.04	0.04<MDL	--
Prometryne	0.03	0.03<MDL	--
Simazine	0.01	0.01<MDL	--
Terbufos	0.01	0.01<MDL	--
Tetrachlorophenol, 2, 3, 4, 6-	0.2	0.20<MDL	--
Triallate	0.01	0.01<MDL	--
Trichlorophenol 2, 4, 6-	0.25	0.25<MDL	--
Trifluralin	0.02	0.02<MDL	--

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

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