

ANNUAL DRINKING WATER REPORT 2014-2015

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, 2014-March 31, 2015.

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 @ 613-732-8534 or school principal **Melissa Carroll-Dubeau** @ 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 2014-2015

The cost of treatment equipment, weekly testing and the consultant was **approximately \$4050.68**

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.

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Adverse water quality notifications and corrective actions

On May 23, 2013 there was one detection of Nitrate (N) at 3.9 mg/L however, the combined Nitrate & Nitrite was 3.9 mg/L so no notification was required as it must exceed 10 mg/L combined.

There was one notice submitted on July 24, 2013 to the Ministry of the Environment and the local Medical Officer of Health indicating samples with adverse water quality for coliform. In this case, the school was notified to seek or boil alternate water, water signs were posted, fountains covered, lines were flushed and the faucet cleaned prior to re-sampling. Samples were re-taken on July 24, 2013. A notice of issue resolution was sent out to the Ministry of the Environment and the local Medical Officer of Health on July 30, 2013.

There was one notice submitted on August 28, 2013 to the Ministry of the Environment and the local Medical Officer of Health indicating samples with adverse water quality for coliform. In this case, the school was notified to seek or boil alternate water, water signs were posted, fountains covered, lines were flushed and the faucet cleaned prior to re-sampling. Samples were re-taken on August 28, 2013. A notice of issue resolution was sent out to the Ministry of the Environment and the local Medical Officer of Health on September 3, 2013.

On August 27, 2013 there was one detection of Nitrate (N) at 1.7 mg/L however, the combined Nitrate & Nitrite was 1.7 mg/L so no notification was required as it must exceed 10 mg/L combined.

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.

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*Summary of Results for Microbiological Parameters
April 1, 2014-March 31, 2015*

Parameter	Sample Type	Frequency	# of samples Yearly	Amount Detected	# of exceedances
Total Coliforms (per 100 mL)	Raw Water	Monthly	12	15	N/A
Total Coliforms (per 100 mL)	Treated Water	Monthly	12		
Total Coliforms (per 100 mL)	Distribution Line	Monthly	12		
E.coli (per 100 mL)	Raw Water	Monthly	12	ND	N/A
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	3.5mg/L 2.1 mg/L mg/L mg/L	0

***ND – non detectable**

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*Summary of Results for Chemical Parameters
(Collected May 16, 2012)*

Parameter	M.D.L.	Staff Room Treated	Kitchen
Antimony	0.0001	<0.0001	--
Arsenic	0.0001	0.0003	--
Barium	0.001	0.104	--
Boron	0.005	0.039	--
Cadmium	0.00002	<0.00002	--
Chromium	0.002	<0.002	--
Lead	0.00002	--	0.00071
Mercury	0.00002	<0.00002	--
Selenium	0.001	0.001	--
Sodium	0.2	68.2	--
Uranium	0.00005	0.00045	--
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	0.3	--
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	--

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Parameter	M.D.L.	Staff Room Treated	Kitchen
Diquat	5	<5	--
Diuron	5	<5	--
Glyphosate	25	<25	--
Heptachlor + Heptachlor Epoxide	0.1	<0.1	--
Lindane (Hexachlorocyclohexane, Gamma)	0.1	<0.1	--
Malathion	5	<5	--
Methozechlor	0.1	<0.1	--
Metolachlor	3	<3	--
Metribuzin	3	<3	--
Paraquat	1	<1	--
Paranthion	3	<3	--
Pentachlorophenol	0.1	<0.1	--
Phorate	0.3	<0.3	--
Picloram	5	<5	--
Poly-Chlorinated Biphenyls (PCB's)	0.05	<0.05	--
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)