

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	210001665
Drinking-Water System	Dowling Wells and Distribution System
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2005-01-01 To 2005-12-31

<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 <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <p>www.greatersudbury.ca TDS-Engineering Department</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Number of Interested Authorities you report to: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></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

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 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

The Dowling Wells and Distribution System encompasses all municipal distribution within Dowling. The distribution includes Dowling well #1 (Riverside) located on the north side of Riverside Dr. approximately 145m east of Lionel Avenue, Dowling well #2 (Lionel) located on the northwest corner of the intersection of Riverside Dr. and Lionel Avenue and Dowling Tank located on the south side of Hwy. 144, approximately 200m east of Houle St. The wells take water from an unconfined aquifer in a primarily sand and gravel formation. The water is disinfected (Chlorine) and Ultra-Violet Irradiation then fluoridated (Hydrofluosilicic acid) at each well site before it enters the distribution system.

List all water treatment chemicals used over this reporting period

Chlorine Gas UN#1017, Hydrofluosilicic Acid (20-30%) UN#1778,

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

UV irradiation was required to meet proper Log removal requirements due to the limited contact time of the water before it enters the distribution networks from the well points.

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
2005/05/31	Chromium	51.8	ppm	Resample/Re-test;	2005/06/01
2005/05/25	Chlorine	0.04	ppm	Resample/Re-test;	2005/05/25

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/Background Samples	Range of HPC/Background Results (min #)-(max #)
Raw: RIVERSIDE WELL#1					
	52	0 to 0	0 to 1	52	0 to 2
Raw: LIONEL WELL#2					
	52	0 to 0	0 to 0	52	0 to 1
Treated: LIONEL WELL					
	51	0 to 0	0 to 0	51	0 to 0
Treated: RIVERSIDE WELL					
	52	0 to 0	0 to 0	52	0 to 1
Distribution	147	0 to 0	0 to 0	147	0 to 1

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 #)
Chlorine Residual Distribution System	8,760	0.04 - 2.00

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

LIONEL WELL

Turbidity	8,760	0.00 - 1.87
Chlorine	8,760	0.06 - 1.16
Fluoride (If the DWS provides fluoridation)	8,760	0.15 - 1.41

RIVERSIDE WELL

Turbidity	8,760	0.00 - 1.61
Chlorine	8,760	0.36 - 1.52
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.42

*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 or 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 most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Lead	2005/01/20	0.0013	mg/L	No

LIONEL WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2004/01/19	0.005	mg/L	No
Arsenic	2004/01/19	0.003	mg/L	No
Barium	2004/01/19	0.06	mg/L	No
Boron	2004/01/19	0.05	mg/L	No
Cadmium	2004/01/19	0.0001	mg/L	No
Chromium	2004/01/19	0.001	mg/L	No
Mercury	2004/01/19	0.0000001	mg/L	No
Selenium	2004/01/19	0.005	mg/L	No
Uranium	2004/01/19	0.005	mg/L	No
Fluoride	2004/01/19	0.56	mg/L	No
Nitrite	2005/01/17	0.05	mg/L	No
	2005/05/03	0.05	mg/L	No
	2005/09/14	0.05	mg/L	No
	2005/12/14	0.05	mg/L	No
Nitrate	2005/01/17	0.53	mg/L	No
	2005/05/03	0.53	mg/L	No
	2005/09/14	0.49	mg/L	No
	2005/12/14	0.38	mg/L	No
Sodium	2005/12/14	18.8	mg/L	No

RIVERSIDE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2004/01/19	0.001	mg/L	No
Arsenic	2004/01/19	0.001	mg/L	No
Barium	2004/01/19	0.02	mg/L	No
Boron	2004/01/19	0.05	mg/L	No
Cadmium	2004/01/19	0.0001	mg/L	No
Chromium	2005/06/01	0.0022	mg/L	No
Mercury	2004/01/19	0.0000001	mg/L	No
Selenium	2004/01/19	0.005	mg/L	No
Uranium	2004/01/19	0.005	mg/L	No
Fluoride	2004/01/19	0.64	mg/L	No
Nitrite	2005/01/17	0.05	mg/L	No
	2005/05/03	0.05	mg/L	No
	2005/09/14	0.05	mg/L	No
	2005/12/14	0.05	mg/L	No
Nitrate	2005/01/17	0.43	mg/L	No
	2005/05/03	0.4	mg/L	No
	2005/09/14	0.66	mg/L	No
	2005/12/14	0.27	mg/L	No
Sodium	2005/12/14	14.1	mg/L	No

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (NOTE: show latest annual average)	2005	0.0043	mg/L	No

LIONEL WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2004/01/19	0.0001	mg/L	No
Aldicarb	2004/01/19	0.009	mg/L	No
Aldrin + Dieldrin	2004/01/19	0.00004	mg/L	No
Atrazine + N-dealkylated metabolites	2004/01/19	0.00002	mg/L	No
Azinphos-methyl	2004/01/19	0.0001	mg/L	No
Bendiocarb	2004/01/19	0.0002	mg/L	No
Benzene	2004/01/22	0.0005	mg/L	No
Benzo(a)pyrene	2004/01/19	0.00001	mg/L	No
Bromoxynil	2004/01/19	0.0002	mg/L	No
Carbaryl	2004/01/19	0.0002	mg/L	No
Carbofuran	2004/01/19	0.0002	mg/L	No
Carbon Tetrachloride	2004/01/22	0.0005	mg/L	No
Chlordane (Total)	2004/01/19	0.0003	mg/L	No
Chlorpyrifos	2004/01/19	0.0001	mg/L	No
Cyanazine	2004/01/19	0.0001	mg/L	No
Diazinon	2004/01/19	0.0001	mg/L	No
Dicamba	2004/01/19	0.0002	mg/L	No
1,2-Dichlorobenzene	2004/01/22	0.0005	mg/L	No
1,4-Dichlorobenzene	2004/01/22	0.0005	mg/L	No

Dichlorodiphenyltrichloroethane (DDT) + metabolites	2004/01/19	0.0004	mg/L	No
1,2-Dichloroethane	2004/01/22	0.0005	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2004/01/22	0.0005	mg/L	No
Dichloromethane	2004/01/22	0.0005	mg/L	No
2-4 Dichlorophenol	2004/01/19	0.0005	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2004/01/19	0.0002	mg/L	No
Diclofop-methyl	2004/01/19	0.0001	mg/L	No
Dimethoate	2004/01/19	0.0001	mg/L	No
Dinoseb	2004/01/19	0.0002	mg/L	No
Diquat	2004/01/19	0.007	mg/L	No
Diuron	2004/01/19	0.01	mg/L	No
Glyphosate	2004/01/19	0.01	mg/L	No
Heptachlor + Heptachlor Epoxide	2004/01/19	0.0002	mg/L	No
Linadane (Total)	2004/01/19	0.0001	mg/L	No
Malathion	2004/01/19	0.0001	mg/L	No
Methoxychlor	2004/01/19	0.0001	mg/L	No
Metolachlor	2004/01/19	0.0001	mg/L	No
Metribuzin	2004/01/19	0.0001	mg/L	No
Monochlorobenzene	2004/01/22	0.0005	mg/L	No
Paraquat	2004/01/19	0.001	mg/L	No
Parathion	2004/01/19	0.0001	mg/L	No
Pentachlorophenol	2004/01/19	0.0005	mg/L	No
Phorate	2004/01/19	0.0001	mg/L	No
Picloram	2004/01/19	0.0002	mg/L	No
Polychlorinated Biphenyls(PCB)	2004/01/19	0.00006	mg/L	No
Prometryne	2004/01/19	0.0001	mg/L	No
Simazine	2004/01/19	0.0001	mg/L	No
Temephos	2004/01/19	0.0001	mg/L	No
Terbufos	2004/01/19	0.0002	mg/L	No
Tetrachloroethylene	2004/01/22	0.0005	mg/L	No
2,3,4,6-Tetrachlorophenol	2004/01/19	0.0005	mg/L	No
Triallate	2004/01/19	0.0001	mg/L	No
Trichloroethylene	2004/01/22	0.0005	mg/L	No
2,4,6-Trichlorophenol	2004/01/19	0.0005	mg/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	2004/01/19	0.0002	mg/L	No
Trifluralin	2004/01/19	0.0001	mg/L	No
Vinyl Chloride	2004/01/22	0.0005	mg/L	No

RIVERSIDE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2004/01/19	0.0001	mg/L	No
Aldicarb	2004/01/19	0.009	mg/L	No
Aldrin + Dieldrin	2004/01/19	0.00004	mg/L	No
Atrazine + N-dealkylated metabolites	2004/01/19	0.00002	mg/L	No
Azinphos-methyl	2004/01/19	0.0001	mg/L	No
Bendiocarb	2004/01/19	0.0002	mg/L	No
Benzene	2004/01/22	0.0005	mg/L	No
Benzo(a)pyrene	2004/01/19	0.00001	mg/L	No
Bromoxynil	2004/01/19	0.0002	mg/L	No
Carbaryl	2004/01/19	0.0002	mg/L	No

Carbofuran	2004/01/19	0.0002	mg/L	No
Carbon Tetrachloride	2004/01/22	0.0005	mg/L	No
Chlordane (Total)	2004/01/19	0.0003	mg/L	No
Chlorpyrifos	2004/01/19	0.0001	mg/L	No
Cyanazine	2004/01/19	0.0001	mg/L	No
Diazinon	2004/01/19	0.0001	mg/L	No
Dicamba	2004/01/19	0.0002	mg/L	No
1,2-Dichlorobenzene	2004/01/22	0.0005	mg/L	No
1,4-Dichlorobenzene	2004/01/22	0.0005	mg/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	2004/01/19	0.0004	mg/L	No
1,2-Dichloroethane	2004/01/22	0.0005	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2004/01/22	0.0005	mg/L	No
Dichloromethane	2004/01/22	0.0005	mg/L	No
2-4 Dichlorophenol	2004/01/19	0.0005	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2004/01/19	0.0002	mg/L	No
Diclofop-methyl	2004/01/19	0.0001	mg/L	No
Dimethoate	2004/01/19	0.0001	mg/L	No
Dinoseb	2004/01/19	0.0002	mg/L	No
Diquat	2004/01/19	0.007	mg/L	No
Diuron	2004/01/19	0.01	mg/L	No
Glyphosate	2004/01/19	0.01	mg/L	No
Heptachlor + Heptachlor Epoxide	2004/01/19	0.0002	mg/L	No
Linadane (Total)	2004/01/19	0.0001	mg/L	No
Malathion	2004/01/19	0.0001	mg/L	No
Methoxychlor	2004/01/19	0.0001	mg/L	No
Metolachlor	2004/01/19	0.0001	mg/L	No
Metribuzin	2004/01/19	0.0001	mg/L	No
Monochlorobenzene	2004/01/22	0.0005	mg/L	No
Paraquat	2004/01/19	0.001	mg/L	No
Parathion	2004/01/19	0.0001	mg/L	No
Pentachlorophenol	2004/01/19	0.0005	mg/L	No
Phorate	2004/01/19	0.0001	mg/L	No
Picloram	2004/01/19	0.0002	mg/L	No
Polychlorinated Biphenyls(PCB)	2004/01/19	0.00006	mg/L	No
Prometryne	2004/01/19	0.0001	mg/L	No
Simazine	2004/01/19	0.0001	mg/L	No
Temephos	2004/01/19	0.0001	mg/L	No
Terbufos	2004/01/19	0.0002	mg/L	No
Tetrachloroethylene	2004/01/22	0.0005	mg/L	No
2,3,4,6-Tetrachlorophenol	2004/01/19	0.0005	mg/L	No
Triallate	2004/01/19	0.0001	mg/L	No
Trichloroethylene	2004/01/22	0.0005	mg/L	No
2,4,6-Trichlorophenol	2004/01/19	0.0005	mg/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	2004/01/19	0.0002	mg/L	No
Trifluralin	2004/01/19	0.0001	mg/L	No
Vinyl Chloride	2004/01/22	0.0005	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

(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)