

**Part III Form 2**

**Section 11. ANNUAL REPORT.**

<b>Drinking-Water System Number:</b>	210001665
<b>Drinking-Water System</b>	Dowling Wells and Distribution System
<b>Drinking-Water System Owner:</b>	City of Greater Sudbury
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Period being reported:</b>	From 2006-01-01 To 2006-12-31

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></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><b><u>Complete for all other Categories.</u></b></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

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
2006/02/09	UV	0	mj/cm <sup>2</sup>	Resample/Re-test;	2006/02/09
2006/03/17	Chlorine Residual	0	ppm	Resample/Re-test;	2006/03/17
2006/05/02	UV	38.30	mj/cm <sup>2</sup>	Disinfectant restored/increased;	2006/05/02
2006/08/17	Sodium	31.6	mg/L	Resample/Re-test;	2006/08/25

**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 Samples	Range of HPC Results (min #)-(max #)
<b>Raw: RIVERSIDE WELL#1</b>					
	53	0 to 0	0 to 0		
<b>Raw: LIONEL WELL#2</b>					
	50	0 to 0	0 to 0		
<b>Treated: LIONEL WELL</b>					
	51	0 to 0	0 to 0	13	0 to 10
<b>Treated: RIVERSIDE WELL</b>					
	51	0 to 0	0 to 0	13	0 to 20
<b>Distribution</b>					
	153	0 to 0	0 to 0	48	0 to 90

**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 #)
<b>Chlorine Residual Distribution System</b>	8,760	0.37 - 2.00

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

**LIONEL WELL**

<b>Turbidity</b>	8,760	0.00 - 0.90
<b>Chlorine</b>	8,760	0.30 - 1.99
<b>Fluoride (If the DWS provides fluoridation)</b>	8,760	0.20 - 1.19

**RIVERSIDE WELL**

<b>Turbidity</b>	8,760	0.00 - 2.00
<b>Chlorine</b>	8,760	0.41 - 1.99
<b>Fluoride (If the DWS provides fluoridation)</b>	8,760	0.20 - 1.17

*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	2006/02/23	0.001	mg/L	No

**LIONEL WELL**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2006/02/24	0.0005	mg/L	No
Arsenic	2006/02/24	0.001	mg/L	No
Barium	2006/02/24	0.014	mg/L	No
Boron	2006/02/24	0.02	mg/L	No
Cadmium	2006/02/24	0.0001	mg/L	No
Chromium	2006/02/24	0.003	mg/L	No
Mercury	2006/02/24	0.0001	mg/L	No
Selenium	2006/02/24	0.001	mg/L	No
Uranium	2006/02/24	0.001	mg/L	No
Fluoride	2004/01/19	0.56	mg/L	No
Nitrite	2006/02/24	0.05	mg/L	No
	2006/05/01	0.05	mg/L	No
	2006/09/19	0.05	mg/L	No
	2006/11/30	0.05	mg/L	No
Nitrate	2006/02/24	0.4	mg/L	No
	2006/05/01	0.4	mg/L	No
	2006/09/19	0.53	mg/L	No
	2006/11/30	0.45	mg/L	No
Sodium	2006/08/22	28.10	mg/L	Yes

**RIVERSIDE WELL**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2006/02/23	0.0005	mg/L	No
Arsenic	2006/02/23	0.001	mg/L	No
Barium	2006/02/23	0.016	mg/L	No
Boron	2006/02/23	0.008	mg/L	No
Cadmium	2006/02/23	0.0001	mg/L	No
Chromium	2006/02/23	0.003	mg/L	No
Mercury	2006/02/23	0.0001	mg/L	No
Selenium	2006/02/23	0.001	mg/L	No
Uranium	2006/02/23	0.001	mg/L	No
Fluoride	2004/01/19	0.64	mg/L	No
Nitrite	2006/02/23	0.05	mg/L	No
	2006/05/01	0.05	mg/L	No
	2006/09/19	0.05	mg/L	No
	2006/11/30	0.05	mg/L	No
Nitrate	2006/02/23	0.5	mg/L	No
	2006/05/01	0.4	mg/L	No
	2006/09/19	0.55	mg/L	No
	2006/11/30	0.28	mg/L	No
Sodium	2005/12/14	14.10	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)	2006	0.0046	mg/L	No

**LIONEL WELL**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2006/02/24	0.0006	mg/L	No
Aldicarb	2006/02/24	0.001	mg/L	No
Aldrin + Dieldrin	2006/02/24	0.000004	mg/L	No
Atrazine + N-dealkylated metabolites	2006/02/24	0.0009	mg/L	No
Azinphos-methyl	2006/02/24	0.0004	mg/L	No
Bendiocarb	2006/02/24	0.002	mg/L	No
Benzene	2006/02/24	0.0003	mg/L	No
Benzo(a)pyrene	2006/02/24	0.00001	mg/L	No
Bromoxynil	2006/02/24	0.001	mg/L	No
Carbaryl	2006/02/24	0.002	mg/L	No
Carbofuran	2006/02/24	0.002	mg/L	No
Carbon Tetrachloride	2006/02/24	0.0003	mg/L	No
Chlordane (Total)	2006/02/24	0.000004	mg/L	No
Chlorpyrifos	2006/02/24	0.0004	mg/L	No
Cyanazine	2006/02/24	0.0004	mg/L	No
Diazinon	2006/02/24	0.0004	mg/L	No
Dicamba	2006/02/24	0.0005	mg/L	No
1,2-Dichlorobenzene	2006/02/24	0.0003	mg/L	No
1,4-Dichlorobenzene	2006/02/24	0.0003	mg/L	No

(DDT) + metabolites	2006/02/24	0.000005	mg/L	No
1,2-Dichloroethane	2006/02/24	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2006/02/24	0.0003	mg/L	No
Dichloromethane	2006/02/24	0.0003	mg/L	No
2-4 Dichlorophenol	2006/02/24	0.001	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2006/02/24	0.0005	mg/L	No
Diclofop-methyl	2006/02/24	0.0005	mg/L	No
Dimethoate	2006/02/24	0.0004	mg/L	No
Dinoseb	2006/02/24	0.0001	mg/L	No
Diquat	2006/02/24	0.007	mg/L	No
Diuron	2006/02/24	0.001	mg/L	No
Glyphosate	2006/02/24	0.01	mg/L	No
Heptachlor + Heptachlor Epoxide	2006/02/24	0.000004	mg/L	No
Linadane (Total)	2006/02/24	0.000003	mg/L	No
Malathion	2006/02/24	0.0004	mg/L	No
Methoxychlor	2006/02/24	0.000007	mg/L	No
Metolachlor	2006/02/24	0.0003	mg/L	No
Metribuzin	2006/02/24	0.0003	mg/L	No
Monochlorobenzene	2006/02/24	0.0003	mg/L	No
Paraquat	2006/02/24	0.001	mg/L	No
Parathion	2006/02/24	0.0003	mg/L	No
Pentachlorophenol	2006/02/24	0.001	mg/L	No
Phorate	2006/02/24	0.0004	mg/L	No
Picloram	2006/02/24	0.0001	mg/L	No
Polychlorinated Biphenyls(PCB)	2006/02/24	0.0005	mg/L	No
Prometryne	2006/02/24	0.0003	mg/L	No
Simazine	2006/02/24	0.0004	mg/L	No
Temephos	2006/02/24	0.03	mg/L	No
Terbufos	2006/02/24	0.0003	mg/L	No
Tetrachloroethylene	2006/02/24	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2006/02/24	0.001	mg/L	No
Triallate	2006/02/24	0.0003	mg/L	No
Trichloroethylene	2006/02/24	0.0003	mg/L	No
2,4,6-Trichlorophenol	2006/02/24	0.001	mg/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	2006/02/24	0.0001	mg/L	No
Trifluralin	2006/02/24	0.0003	mg/L	No
Vinyl Chloride	2006/02/24	0.0003	mg/L	No

**RIVERSIDE WELL**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2006/02/23	0.0009	mg/L	No
Aldicarb	2006/02/23	0.0008	mg/L	No
Aldrin + Dieldrin	2006/02/23	0.000004	mg/L	No
Atrazine + N-dealkylated metabolites	2006/02/23	0.0009	mg/L	No
Azinphos-methyl	2006/02/23	0.0007	mg/L	No
Bendiocarb	2006/02/23	0.002	mg/L	No
Benzene	2006/02/23	0.0003	mg/L	No
Benzo(a)pyrene	2006/02/23	0.00001	mg/L	No
Bromoxynil	2006/02/23	0.0008	mg/L	No
Carbaryl	2006/02/23	0.002	mg/L	No

Carbofuran	2006/02/23	0.002	mg/L	No
Carbon Tetrachloride	2006/02/23	0.0003	mg/L	No
Chlordane (Total)	2006/02/23	0.000004	mg/L	No
Chlorpyrifos	2006/02/23	0.0007	mg/L	No
Cyanazine	2006/02/23	0.0007	mg/L	No
Diazinon	2006/02/23	0.0007	mg/L	No
Dicamba	2006/02/23	0.0003	mg/L	No
1,2-Dichlorobenzene	2006/02/23	0.0003	mg/L	No
1,4-Dichlorobenzene	2006/02/23	0.0003	mg/L	No
(DDT) + metabolites	2006/02/23	0.000005	mg/L	No
1,2-Dichloroethane	2006/02/23	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2006/02/23	0.0003	mg/L	No
Dichloromethane	2006/02/23	0.0003	mg/L	No
2-4 Dichlorophenol	2006/02/23	0.001	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2006/02/23	0.0003	mg/L	No
Diclofop-methyl	2006/02/23	0.0003	mg/L	No
Dimethoate	2006/02/23	0.0007	mg/L	No
Dinoseb	2006/02/23	0.00008	mg/L	No
Diquat	2006/02/23	0.007	mg/L	No
Diuron	2006/02/23	0.0008	mg/L	No
Glyphosate	2006/02/23	0.01	mg/L	No
Heptachlor + Heptachlor Epoxide	2006/02/23	0.000004	mg/L	No
Linadane (Total)	2006/02/23	0.0000009	mg/L	No
Malathion	2006/02/23	0.0007	mg/L	No
Methoxychlor	2006/02/23	0.000003	mg/L	No
Metolachlor	2006/02/23	0.0005	mg/L	No
Metribuzin	2006/02/23	0.0005	mg/L	No
Monochlorobenzene	2006/02/23	0.0003	mg/L	No
Paraquat	2006/02/23	0.001	mg/L	No
Parathion	2006/02/23	0.0005	mg/L	No
Pentachlorophenol	2006/02/23	0.001	mg/L	No
Phorate	2006/02/23	0.0007	mg/L	No
Picloram	2006/02/23	0.00008	mg/L	No
Polychlorinated Biphenyls(PCB)	2006/02/23	0.0002	mg/L	No
Prometryne	2006/02/23	0.0005	mg/L	No
Simazine	2006/02/23	0.0007	mg/L	No
Temephos	2006/02/23	0.02	mg/L	No
Terbufos	2006/02/23	0.0005	mg/L	No
Tetrachloroethylene	2006/02/23	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2006/02/23	0.001	mg/L	No
Triallate	2006/02/23	0.0005	mg/L	No
Trichloroethylene	2006/02/23	0.0003	mg/L	No
2,4,6-Trichlorophenol	2006/02/23	0.001	mg/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	2006/02/23	0.00008	mg/L	No
Trifluralin	2006/02/23	0.0005	mg/L	No
Vinyl Chloride	2006/02/23	0.0003	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)**