

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	210001665
Drinking-Water System	Dowling Drinking Water System
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2010-01-01 To 2010-12-31

<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>
--	---

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/Citizen Service Centre
- Public access/notice via other method

Describe your Drinking-Water System

The Dowling Wells and Distribution System encompass all municipal distribution within Dowling. The system includes Dowling well #1 (Riverside) located on Riverside Dr., Dowling well #2 (Lionel) located on Lionel Avenue and the Dowling Tank located off of Hwy. 144. Each of the wells is housed in individual structures. The wells take water from an unconfined aquifer in a primarily sand and gravel formation. The discharge at each well site undergoes treatment in the form of disinfection by chlorination, Ultra-Violet irradiation and fluoridation before it enters the distribution system. Continuous analyzers for free chlorine residual, fluoride, turbidity and UV equipment are monitored by an onsite PLC. A standby power generator with an automatic transfer switch is located at Lionel well and supplies power to both wells. The entire water system is in compliance with O. Reg. 170/03 and is monitored 24/7 from the Wanapitei WTP.

List all water treatment chemicals used over this reporting period

Chlorine Gas UN#1017, Hydrofluosilicic Acid 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
2010/09/14	Sodium	35.9 / 22.2	mg/L	Resample/Re-test;	2010/10/12

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 #)
Raw: LIONEL WELL#2					
	52	0 to 0	0 to 0		
Raw: RIVERSIDE WELL#1					
	52	0 to 0	0 to 1		
Treated: LIONEL WELL					
	52	0 to 0	0 to 0	52	0 to 10
Treated: RIVERSIDE WELL					
	52	0 to 0	0 to 0	52	0 to 10
Distribution					
	161	0 to 0	0 to 0	41	0 to 10

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	0.44 - 3.52

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

LIONEL WELL

Turbidity	8,760	0.02 - 2.00	NTU
Chlorine	8,760	0.49 - 2.45	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.18	mg/L

RIVERSIDE WELL

Turbidity	8,760	0.03 - 1.99	NTU
Chlorine	8,760	0.34 - 3.09	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.26	mg/L

***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	2010/12/13	0.001	mg/L	No

LIONEL WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2010/12/16	0.002	mg/L	No
Arsenic	2010/12/16	0.001	mg/L	No
Barium	2010/12/16	0.0152	mg/L	No
Boron	2010/12/16	0.018	mg/L	No
Cadmium	2010/12/16	0.0001	mg/L	No
Chromium	2010/12/16	0.001	mg/L	No
Mercury	2010/12/16	0.00001	mg/L	No
Selenium	2010/12/16	0.001	mg/L	No
Uranium	2010/12/16	0.001	mg/L	No
Nitrite	2010/03/19	0.05	mg/L	No
	2010/06/17	0.05	mg/L	No
	2010/09/14	0.03	mg/L	No
	2010/12/16	0.05	mg/L	No
Nitrate	2010/03/19	0.42	mg/L	No
	2010/06/17	0.41	mg/L	No
	2010/09/14	0.35	mg/L	No
	2010/12/16	0.42	mg/L	No
Sodium	2010/09/14	22.20	mg/L	Yes
	2010/09/30	20.00	mg/L	No

RIVERSIDE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2010/12/16	0.0005	mg/L	No
Arsenic	2010/12/16	0.001	mg/L	No
Barium	2010/12/16	0.01	mg/L	No
Boron	2010/12/16	0.0063	mg/L	No
Cadmium	2010/12/16	0.0001	mg/L	No
Chromium	2010/12/16	0.001	mg/L	No
Mercury	2010/12/16	0.00001	mg/L	No
Selenium	2010/12/16	0.001	mg/L	No
Uranium	2010/12/16	0.001	mg/L	No
Nitrite	2010/03/19	0.05	mg/L	No
	2010/06/16	0.05	mg/L	No
	2010/09/14	0.03	mg/L	No
	2010/12/16	0.05	mg/L	No

Drinking-Water Systems Regulation O. Reg. 170/03

Nitrate	2010/03/19	0.1	mg/L	No
	2010/06/16	0.5	mg/L	No
	2010/09/14	0.56	mg/L	No
	2010/12/16	0.23	mg/L	No
Sodium	2010/09/14	35.90	mg/L	Yes
	2010/09/29	31.40	mg/L	Yes

Summary of lead testing under Schedule 15.1 during this reporting period.

Location Type	Number of Samples	Range of Lead Results (min#) - (max#)	Number of Exceedances
Plumbing		mg/L	
Distribution		mg/L	

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)	2010	0.0041	mg/L	No

LIONEL WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2010/12/16	0.0005	mg/L	No
Aldicarb	2010/12/16	0.00065	mg/L	No
Aldrin + Dieldrin	2010/12/16	0.000004	mg/L	No
Atrazine + N-dealkylated metabolites	2010/12/16	0.0009	mg/L	No
Azinphos-methyl	2010/12/16	0.00038	mg/L	No
Bendiocarb	2010/12/16	0.0013	mg/L	No
Benzene	2010/12/16	0.00025	mg/L	No
Benzo(a)pyrene	2010/12/16	0.000006	mg/L	No
Bromoxynil	2010/12/16	0.00067	mg/L	No
Carbaryl	2010/12/16	0.0013	mg/L	No
Carbofuran	2010/12/16	0.0013	mg/L	No
Carbon Tetrachloride	2010/12/16	0.00025	mg/L	No
Chlordane (Total)	2010/12/16	0.000004	mg/L	No
Chlorpyrifos	2010/12/16	0.00038	mg/L	No
Cyanazine	2010/12/16	0.00038	mg/L	No
Diazinon	2010/12/16	0.00038	mg/L	No
Dicamba	2010/12/16	0.00027	mg/L	No
1,2-Dichlorobenzene	2010/12/16	0.00025	mg/L	No
1,4-Dichlorobenzene	2010/12/16	0.00025	mg/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	2010/12/16	0.000005	mg/L	No
1,2-Dichloroethane	2010/12/16	0.00025	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2010/12/16	0.00025	mg/L	No
Dichloromethane	2010/12/16	0.00025	mg/L	No

2-4 Dichlorophenol	2010/12/16	0.000059	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2010/12/16	0.00027	mg/L	No
Diclofop-methyl	2010/12/16	0.00027	mg/L	No
Dimethoate	2010/12/16	0.00038	mg/L	No
Dinoseb	2010/12/16	0.000067	mg/L	No
Diquat	2010/12/16	0.007	mg/L	No
Diuron	2010/12/16	0.0065	mg/L	No
Glyphosate	2010/12/16	0.02	mg/L	No
Heptachlor + Heptachlor Epoxide	2010/12/16	0.000004	mg/L	No
Linadane (Total)	2010/12/16	0.00000056	mg/L	No
Malathion	2010/12/16	0.00038	mg/L	No
Methoxychlor	2010/12/16	0.0000015	mg/L	No
Metolachlor	2010/12/16	0.00025	mg/L	No
Metribuzin	2010/12/16	0.00025	mg/L	No
Monochlorobenzene	2010/12/16	0.00025	mg/L	No
Paraquat	2010/12/16	0.001	mg/L	No
Parathion	2010/12/16	0.00025	mg/L	No
Pentachlorophenol	2010/12/16	0.000059	mg/L	No
Phorate	2010/12/16	0.00038	mg/L	No
Picloram	2010/12/16	0.000067	mg/L	No
Polychlorinated Biphenyls(PCB)	2010/12/16	0.0000046	mg/L	No
Prometryne	2010/12/16	0.00025	mg/L	No
Simazine	2010/12/16	0.00038	mg/L	No
Temephos	2010/12/16	0.018	mg/L	No
Terbufos	2010/12/16	0.00025	mg/L	No
Tetrachloroethylene	2010/12/16	0.00025	mg/L	No
2,3,4,6-Tetrachlorophenol	2010/12/16	0.000059	mg/L	No
Triallate	2010/12/16	0.00025	mg/L	No
Trichloroethylene	2010/12/16	0.00025	mg/L	No
2,4,6-Trichlorophenol	2010/12/16	0.000059	mg/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	2010/12/16	0.000067	mg/L	No
Trifluralin	2010/12/16	0.00025	mg/L	No
Vinyl Chloride	2010/12/16	0.00025	mg/L	No

RIVERSIDE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2010/12/16	0.00052	mg/L	No
Aldicarb	2010/12/16	0.00056	mg/L	No
Aldrin + Dieldrin	2010/12/16	0.000004	mg/L	No
Atrazine + N-dealkylated metabolites	2010/12/16	0.0009	mg/L	No
Azinphos-methyl	2010/12/16	0.00039	mg/L	No
Bendiocarb	2010/12/16	0.0011	mg/L	No
Benzene	2010/12/16	0.00025	mg/L	No
Benzo(a)pyrene	2010/12/16	0.0000062	mg/L	No
Bromoxynil	2010/12/16	0.0005	mg/L	No
Carbaryl	2010/12/16	0.0011	mg/L	No
Carbofuran	2010/12/16	0.0011	mg/L	No
Carbon Tetrachloride	2010/12/16	0.00025	mg/L	No
Chlordane (Total)	2010/12/16	0.000004	mg/L	No
Chlorpyrifos	2010/12/16	0.00039	mg/L	No
Cyanazine	2010/12/16	0.00039	mg/L	No
Diazinon	2010/12/16	0.00039	mg/L	No

Dicamba	2010/12/16	0.0002	mg/L	No
1,2-Dichlorobenzene	2010/12/16	0.00025	mg/L	No
1,4-Dichlorobenzene	2010/12/16	0.00025	mg/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	2010/12/16	0.000005	mg/L	No
1,2-Dichloroethane	2010/12/16	0.00025	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2010/12/16	0.00025	mg/L	No
Dichloromethane	2010/12/16	0.00025	mg/L	No
2-4 Dichlorophenol	2010/12/16	0.000058	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2010/12/16	0.0002	mg/L	No
Diclofop-methyl	2010/12/16	0.0002	mg/L	No
Dimethoate	2010/12/16	0.00039	mg/L	No
Dinoseb	2010/12/16	0.00005	mg/L	No
Diquat	2010/12/16	0.007	mg/L	No
Diuron	2010/12/16	0.0056	mg/L	No
Glyphosate	2010/12/16	0.02	mg/L	No
Heptachlor + Heptachlor Epoxide	2010/12/16	0.000004	mg/L	No
Linadane (Total)	2010/12/16	0.00000062	mg/L	No
Malathion	2010/12/16	0.00039	mg/L	No
Methoxychlor	2010/12/16	0.0000017	mg/L	No
Metolachlor	2010/12/16	0.00026	mg/L	No
Metribuzin	2010/12/16	0.00026	mg/L	No
Monochlorobenzene	2010/12/16	0.00025	mg/L	No
Paraquat	2010/12/16	0.001	mg/L	No
Parathion	2010/12/16	0.00026	mg/L	No
Pentachlorophenol	2010/12/16	0.000058	mg/L	No
Phorate	2010/12/16	0.00039	mg/L	No
Picloram	2010/12/16	0.00005	mg/L	No
Polychlorinated Biphenyls(PCB)	2010/12/16	0.0000052	mg/L	No
Prometryne	2010/12/16	0.00026	mg/L	No
Simazine	2010/12/16	0.00039	mg/L	No
Temephos	2010/12/16	0.016	mg/L	No
Terbufos	2010/12/16	0.00026	mg/L	No
Tetrachloroethylene	2010/12/16	0.00025	mg/L	No
2,3,4,6-Tetrachlorophenol	2010/12/16	0.000058	mg/L	No
Triallate	2010/12/16	0.00026	mg/L	No
Trichloroethylene	2010/12/16	0.00025	mg/L	No
2,4,6-Trichlorophenol	2010/12/16	0.000058	mg/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	2010/12/16	0.00005	mg/L	No
Trifluralin	2010/12/16	0.00026	mg/L	No
Vinyl Chloride	2010/12/16	0.00025	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
Benzo(a)pyrene	6.2e-006	mg/L	2010/12/16

(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)