

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	220003537
Drinking-Water System	David Street Water Treatment Plant and Distribution System
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2007-01-01 To 2007-12-31

<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 checked="" type="checkbox"/> No <input 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
Wanapitei Water Treatment Plant and Distribution System	210001111

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 David St. WTP is a surface water plant which draws water from Ramsey Lake. Proportionally, the plant services approximately 40% of Sudbury, however, most of the water produced at the David St. WTP is normally delivered to the south, west and downtown areas of Sudbury. The plant is over 100 years old and has undergone numerous upgrades to meet changing needs and regulations. The plant is in full treatment compliance with O. Reg. 170/03 with the new upgrades. Treatment incorporated is in the form of membrane ultrafiltration, disinfection by chlorination, Ultra-Violet irradiation, fluoridation, pH adjustment and corrosion control with a polyphosphate, Aquamag. The distribution system supplied by the David Street WTP includes parts of downtown Sudbury, the South End and the West End of Sudbury. In addition, the Ellis Reservoir is part of the distribution network for Sudbury.

List all water treatment chemicals used over this reporting period

Hydrofluosilicic Acid (20-30%) UN#1778, Polyphosphate, Sodium Hydroxide, Sodium Hypochlorite, Sodium Bisulfate, Citric Acid.

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
2007/06/01	Total Coliform	1	CFU/100mL	Resample/Re-test;	2007/06/01
2007/07/16	Pressure	1.06	psi	Resample/Re-test;	2007/07/16
2007/07/19	Total Coliform	7	CFU/100mL	Resample/Re-test;	2007/07/23
2007/09/05	Chlorine Residual	0.03	mg/L	Disinfectant restored/increased;	2007/09/05

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: RAMSEY LAKE					
	57	0 to 31	0 to 55		
Treated: SUDBURY (DAVID ST) Water Treatment Plant					
	181	0 to 0	0 to 0	63	0 to 190
Distribution					
	1,677	0 to 0	0 to 7	389	0 to 500

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	0.03 - 1.99

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

SUDBURY (DAVID ST) Water Treatment Plant

Turbidity	8,760	0.02 - 5.01
Chlorine	8,760	0.72 - 2.32
Fluoride (If the DWS provides fluoridation)	8,760	0.03 - 1.24

*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	2007/12/21	0.0016	mg/L	No

SUDBURY (DAVID ST) Water Treatment Plant

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2007/01/30	0.0005	mg/L	No
Arsenic	2007/01/30	0.0018	mg/L	No
Barium	2007/01/30	0.0139	mg/L	No
Boron	2007/01/30	0.01	mg/L	No
Cadmium	2007/01/30	0.0001	mg/L	No
Chromium	2007/01/30	0.0012	mg/L	No
Mercury	2007/01/30	0.0001	mg/L	No
Selenium	2007/01/30	0.0011	mg/L	No
Uranium	2007/01/30	0.001	mg/L	No
Fluoride	2004/01/19	0.1	mg/L	No
Nitrate	2007/01/30	0.10	mg/L	No
	2007/04/10	0.10	mg/L	No
	2007/06/18	0.10	mg/L	No
	2007/08/27	0.10	mg/L	No
	2007/11/05	0.10	mg/L	No
Nitrite	2007/01/30	0.05	mg/L	No
	2007/04/10	0.05	mg/L	No
	2007/06/18	0.05	mg/L	No
	2007/08/27	0.05	mg/L	No
	2007/11/05	0.05	mg/L	No
Sodium	2006/10/23	48.70	mg/L	Yes

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)	2007	0.0632	mg/L	No

SUDBURY (DAVID ST) Water Treatment Plant

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2007/01/30	0.0004	mg/L	No
Aldicarb	2007/01/30	0.00065	mg/L	No
Aldrin + Dieldrin	2007/01/30	0.000004	mg/L	No
Atrazine + N-dealkylated metabolites	2007/01/30	0.0009	mg/L	No
Azinphos-methyl	2007/01/30	0.0003	mg/L	No
Bendiocarb	2007/01/30	0.0013	mg/L	No
Benzene	2007/01/30	0.00025	mg/L	No
Benzo(a)pyrene	2007/01/30	0.00001	mg/L	No
Bromoxynil	2007/01/30	0.0005	mg/L	No
Carbaryl	2007/01/30	0.0013	mg/L	No
Carbofuran	2007/01/30	0.0013	mg/L	No
Carbon Tetrachloride	2007/01/30	0.00025	mg/L	No
Chlordane (Total)	2007/01/30	0.000004	mg/L	No

Chlorpyrifos	2007/01/30	0.0003	mg/L	No
Cyanazine	2007/01/30	0.0003	mg/L	No
Diazinon	2007/01/30	0.0003	mg/L	No
Dicamba	2007/01/30	0.0002	mg/L	No
1,2-Dichlorobenzene	2007/01/30	0.00025	mg/L	No
1,4-Dichlorobenzene	2007/01/30	0.00025	mg/L	No
(DDT) + metabolites	2007/01/30	0.000005	mg/L	No
1,2-Dichloroethane	2007/01/30	0.00025	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2007/01/30	0.00025	mg/L	No
Dichloromethane	2007/01/30	0.00025	mg/L	No
2-4 Dichlorophenol	2007/01/30	0.000055	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2007/01/30	0.0002	mg/L	No
Diclofop-methyl	2007/01/30	0.0002	mg/L	No
Dimethoate	2007/01/30	0.0003	mg/L	No
Dinoseb	2007/01/30	0.00005	mg/L	No
Diquat	2007/01/30	0.007	mg/L	No
Diuron	2007/01/30	0.0065	mg/L	No
Glyphosate	2007/01/30	0.01	mg/L	No
Heptachlor + Heptachlor Epoxide	2007/01/30	0.000004	mg/L	No
Linadane (Total)	2007/01/30	0.00000036	mg/L	No
Malathion	2007/01/30	0.0003	mg/L	No
Methoxychlor	2007/01/30	0.00000096	mg/L	No
Metolachlor	2007/01/30	0.0002	mg/L	No
Metribuzin	2007/01/30	0.0002	mg/L	No
Monochlorobenzene	2007/01/30	0.00025	mg/L	No
Paraquat	2007/01/30	0.001	mg/L	No
Parathion	2007/01/30	0.0002	mg/L	No
Pentachlorophenol	2007/01/30	0.000055	mg/L	No
Phorate	2007/01/30	0.0003	mg/L	No
Picloram	2007/01/30	0.00005	mg/L	No
Polychlorinated Biphenyls(PCB)	2007/01/30	0.00006	mg/L	No
Prometryne	2007/01/30	0.0002	mg/L	No
Simazine	2007/01/30	0.0003	mg/L	No
Temephos	2007/01/30	0.018	mg/L	No
Terbufos	2007/01/30	0.0002	mg/L	No
Tetrachloroethylene	2007/01/30	0.00025	mg/L	No
2,3,4,6-Tetrachlorophenol	2007/01/30	0.000055	mg/L	No
Triallate	2007/01/30	0.0002	mg/L	No
Trichloroethylene	2007/01/30	0.00025	mg/L	No
2,4,6-Trichlorophenol	2007/01/30	0.000055	mg/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	2007/01/30	0.00005	mg/L	No
Trifluralin	2007/01/30	0.0002	mg/L	No
Vinyl Chloride	2007/01/30	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

(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)