

**Part III Form 2**

**Section 11. ANNUAL REPORT.**

<b>Drinking-Water System Number:</b>	220003537
<b>Drinking-Water System</b>	David Street Water Treatment Plant 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 2008-01-01 To 2008-12-31

<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 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><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
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
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**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. 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**

Replaced two compressors , vacuum pump and completed maintenance on Intake Structure Total cost approximately \$30,000

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
2008/02/02	UV	<10	mj/cm <sup>2</sup>	Disinfectant restored/increased;	2008/02/02
2008/04/08	Total Coliform	1	cfu	Resample/Re-test;	2008/04/11
2008/05/16	UV	7.7	mj/cm <sup>2</sup>	Disinfectant restored/increased;	2008/05/16
2008/05/28	UV	7	mj/cm <sup>2</sup>	Disinfectant restored/increased;	2008/05/28
2008/08/15	Total Coliform	1	cfu	Resample/Re-test;	2008/08/18
2008/10/17	Chlorine Residual	0.03	mg/L	Resample/Re-test;	2008/10/31

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: RAMSEY LAKE</b>					
	56	0 to 46	0 to 71		
<b>Treated: SUDBURY (DAVID ST) Water Treatment Plant</b>					
	148	0 to 0	0 to 0	90	0 to 10
<b>Distribution</b>					
	1,616	0 to 0	0 to 1	382	0 to 1500

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 - 3.84 mg/L

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

**SUDBURY (DAVID ST) Water Treatment Plant**

<b>Turbidity</b>	8,760	0.01 - 2.05	NTU
<b>Chlorine</b>	8,760	0.40 - 1.89	mg/L
<b>Fluoride</b> (If the DWS provides fluoridation)	8,760	0.03 - 1.31	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	2008/12/23	0.001	mg/L	No

**SUDBURY (DAVID ST) Water Treatment Plant**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2008/12/22	0.0005	mg/L	No
Arsenic	2008/12/22	0.0023	mg/L	No
Barium	2008/12/22	0.0149	mg/L	No
Boron	2008/12/22	0.011	mg/L	No
Cadmium	2008/12/22	0.0001	mg/L	No
Chromium	2008/12/22	0.001	mg/L	No
Mercury	2008/12/22	0.0001	mg/L	No
Selenium	2008/12/22	0.001	mg/L	No
Uranium	2008/12/22	0.001	mg/L	No
Fluoride	2004/01/19	0.1	mg/L	No
Nitrate	2008/01/17	0.10	mg/L	No
	2008/03/25	0.10	mg/L	No
	2008/06/03	0.10	mg/L	No
	2008/08/11	0.10	mg/L	No
	2008/10/20	0.10	mg/L	No
	2008/12/22	0.10	mg/L	No
Nitrite	2008/01/17	0.05	mg/L	No
	2008/03/25	0.05	mg/L	No
	2008/06/03	0.05	mg/L	No
	2008/08/11	0.05	mg/L	No
	2008/10/20	0.05	mg/L	No
	2008/12/22	0.05	mg/L	No
Sodium	2006/10/23	48.70	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	139	0.001 - 0.0218 mg/L	1
Distribution	30	0.001 - 0.001 mg/L	0

**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)	2008	0.0620	mg/L	No

**SUDBURY (DAVID ST) Water Treatment Plant**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2008/12/22	0.00042	mg/L	No
Aldicarb	2008/12/22	0.00064	mg/L	No
Aldrin + Dieldrin	2008/12/22	0.000004	mg/L	No
Atrazine + N-dealkylated metabolites	2008/12/22	0.0009	mg/L	No
Azinphos-methyl	2008/12/22	0.00031	mg/L	No
Bendiocarb	2008/12/22	0.0013	mg/L	No
Benzene	2008/12/22	0.00025	mg/L	No
Benzo(a)pyrene	2008/12/22	0.0000099	mg/L	No
Bromoxynil	2008/12/22	0.00052	mg/L	No
Carbaryl	2008/12/22	0.0013	mg/L	No
Carbofuran	2008/12/22	0.0013	mg/L	No
Carbon Tetrachloride	2008/12/22	0.00025	mg/L	No
Chlordane (Total)	2008/12/22	0.000004	mg/L	No
Chlorpyrifos	2008/12/22	0.00031	mg/L	No
Cyanazine	2008/12/22	0.00031	mg/L	No
Diazinon	2008/12/22	0.00031	mg/L	No
Dicamba	2008/12/22	0.00021	mg/L	No
1,2-Dichlorobenzene	2008/12/22	0.00025	mg/L	No
1,4-Dichlorobenzene	2008/12/22	0.00025	mg/L	No
(DDT) + metabolites	2008/12/22	0.000005	mg/L	No
1,2-Dichloroethane	2008/12/22	0.00025	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2008/12/22	0.00025	mg/L	No
Dichloromethane	2008/12/22	0.00025	mg/L	No
2-4 Dichlorophenol	2008/12/22	0.000055	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2008/12/22	0.00021	mg/L	No
Diclofop-methyl	2008/12/22	0.00021	mg/L	No
Dimethoate	2008/12/22	0.00031	mg/L	No
Dinoseb	2008/12/22	0.000052	mg/L	No
Diquat	2008/12/22	0.007	mg/L	No
Diuron	2008/12/22	0.0064	mg/L	No
Glyphosate	2008/12/22	0.02	mg/L	No
Heptachlor + Heptachlor Epoxide	2008/12/22	0.000004	mg/L	No
Linadane (Total)	2008/12/22	0.00000032	mg/L	No

Malathion	2008/12/22	0.00031	mg/L	No
Methoxychlor	2008/12/22	0.0000085	mg/L	No
Metolachlor	2008/12/22	0.00021	mg/L	No
Metribuzin	2008/12/22	0.00021	mg/L	No
Monochlorobenzene	2008/12/22	0.00025	mg/L	No
Paraquat	2008/12/22	0.001	mg/L	No
Parathion	2008/12/22	0.00021	mg/L	No
Pentachlorophenol	2008/12/22	0.000055	mg/L	No
Phorate	2008/12/22	0.00031	mg/L	No
Picloram	2008/12/22	0.000052	mg/L	No
Polychlorinated Biphenyls(PCB)	2008/12/22	0.0000027	mg/L	No
Prometryne	2008/12/22	0.00021	mg/L	No
Simazine	2008/12/22	0.00031	mg/L	No
Temephos	2008/12/22	0.018	mg/L	No
Terbufos	2008/12/22	0.00021	mg/L	No
Tetrachloroethylene	2008/12/22	0.00025	mg/L	No
2,3,4,6-Tetrachlorophenol	2008/12/22	0.000055	mg/L	No
Triallate	2008/12/22	0.00021	mg/L	No
Trichloroethylene	2008/12/22	0.00025	mg/L	No
2,4,6-Trichlorophenol	2008/12/22	0.000055	mg/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	2008/12/22	0.000052	mg/L	No
Trifluralin	2008/12/22	0.00021	mg/L	No
Vinyl Chloride	2008/12/22	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
Selenium	0.0073	mg/L	2008/01/16

**(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)**