

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	220003485
Drinking-Water System	Garson Wells 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 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
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 Garson Distribution System encompasses all municipal distribution in the north east part of Garson, east of the intersection of O'Neil Drive W. and Falconbridge Road and North to include the Old Skead Rd. area of Garson. The Garson System includes INCO Well #1 located approximately 275 m east of the intersection of Spruce St. and Falconbridge Hwy., Garson Wells 1&3 located at 3450 Falconbridge Hwy., a pressure sustaining valve at the corner of O'Neil Drive W. and Falconbridge Hwy. and a pressure regulating valve on Mine Road where the water from INCO Well #1 enters the distribution. In the case of an emergency, the pressure sustaining valve ensures a water supply to Garson by connecting the Garson and Sudbury/Wanapitei Systems. The system's wells take water from an unconfined aquifer in a sand and gravel formation at the Inco Well #1, and a sand, gravel, boulder formation at Garson 1&3. The water is disinfected by chlorination and fluoridated at the well sites before it enters the distribution systems. A common chemical room and a chlorine contact chamber is installed at the Garson 1&3 site.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite, Fluoride (hydrofluosilicic acid 20-30%)

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
2007/07/25	Total Coliform	1	cfu/100mL	Resample/Re-test;	2007/07/25
2007/08/29	Total Coliform	1	cfu/100mL	Resample/Re-test;	2007/08/31
2007/09/13	Chlorine Residual	0	mg/L	Disinfectant restored/increased;	2007/09/17
2007/09/25	Chlorine Residual	0.04	mg/L	Disinfectant restored/increased;	2007/09/28
2007/10/01	Chlorine Residual	0.14	mg/L	Resample/Re-test;	2007/10/03
2007/10/27	Chlorine Residual	0.05	mg/L	Flushing mains/pipes;	2007/10/29

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: ORELL ST. WELL#1					
	52	0 to 0	0 to 0		
Raw: ORELL ST. WELL #3					
	52	0 to 0	0 to 0		
Raw: INCO GARSON WELL#1					
	52	0 to 0	0 to 0		
Treated: GARSON INCO # 1 WELL TREATED					
	52	0 to 0	0 to 1	50	0 to 20
Treated: GARSON ORELL #1 & #3 WELL SUPPLY					
	53	0 to 0	0 to 0	51	0 to 10
Distribution					
	261	0 to 0	0 to 1	81	0 to 40

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	0.00 - 1.99

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

GARSON INCO # 1 WELL TREATED

Turbidity	8,760	0.00 - 1.97
Chlorine	8,760	0.15 - 1.98
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.17

GARSON ORELL #1 & #3 WELL SUPPLY

Turbidity	8,760	0.00 - 2.00
Chlorine	8,760	0.40 - 2.00
Fluoride (If the DWS provides fluoridation)	8,760	0.05 - 1.18

*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	2007/02/01	<0.001	mg/L	No

GARSON INCO # 1 WELL TREATED

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2007/06/05	0.0005	mg/L	No
Arsenic	2007/06/05	0.0029	mg/L	No
Barium	2007/06/05	0.0481	mg/L	No
Boron	2007/06/05	0.015	mg/L	No
Cadmium	2007/06/05	0.0001	mg/L	No
Chromium	2007/06/05	0.0016	mg/L	No
Mercury	2007/06/05	0.00026	mg/L	No
Selenium	2007/06/05	0.001	mg/L	No
Uranium	2007/06/05	0.001	mg/L	No
Fluoride	2004/01/19	0.1	mg/L	No
Nitrate	2007/04/10	0.93	mg/L	No
	2007/06/18	0.78	mg/L	No
	2007/08/27	0.82	mg/L	No
	2007/11/05	0.82	mg/L	No
Nitrite	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	2005/12/23	47.00	mg/L	Yes

GARSON ORELL #1 & #3 WELL SUPPLY

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2007/06/05	0.0005	mg/L	No
Arsenic	2007/06/05	0.003	mg/L	No
Barium	2007/06/05	0.0444	mg/L	No
Boron	2007/06/05	0.0074	mg/L	No
Cadmium	2007/06/05	0.00013	mg/L	No
Chromium	2007/06/05	0.0015	mg/L	No
Mercury	2007/06/05	0.00073	mg/L	No
Selenium	2007/06/05	0.0011	mg/L	No
Uranium	2007/06/05	0.001	mg/L	No
Fluoride	2004/01/19	0.1	mg/L	No
Nitrate	2007/04/10	0.67	mg/L	No
	2007/06/18	0.57	mg/L	No
	2007/08/28	0.60	mg/L	No
	2007/11/05	0.60	mg/L	No
Nitrite	2007/04/10	0.05	mg/L	No
	2007/06/18	0.05	mg/L	No
	2007/08/28	0.05	mg/L	No
	2007/11/05	0.05	mg/L	No
Sodium	2005/12/14	15.60	mg/L	No

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

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (NOTE: show latest annual average)	2007	0.0043	mg/L	No

GARSON INCO # 1 WELL TREATED

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2006/02/23	0.0008	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	0.0006	mg/L	No
Bendiocarb	2006/02/23	0.002	mg/L	No
Benzene	2007/06/05	0.00025	mg/L	No
Benzo(a)pyrene	2006/02/23	0.00001	mg/L	No
Bromoxynil	2006/02/23	0.0005	mg/L	No
Carbaryl	2006/02/23	0.002	mg/L	No
Carbofuran	2006/02/23	0.002	mg/L	No
Carbon Tetrachloride	2007/06/05	0.00025	mg/L	No
Chlordane (Total)	2006/02/23	0.000004	mg/L	No
Chlorpyrifos	2006/02/23	0.0006	mg/L	No
Cyanazine	2006/02/23	0.0006	mg/L	No
Diazinon	2006/02/23	0.0006	mg/L	No
Dicamba	2006/02/23	0.0002	mg/L	No
1,2-Dichlorobenzene	2007/06/05	0.00025	mg/L	No
1,4-Dichlorobenzene	2007/06/05	0.00025	mg/L	No
(DDT) + metabolites	2006/02/23	0.000005	mg/L	No
1,2-Dichloroethane	2007/06/05	0.00025	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2007/06/05	0.00025	mg/L	No
Dichloromethane	2007/06/05	0.00025	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	0.0002	mg/L	No
Diclofop-methyl	2006/02/23	0.0002	mg/L	No
Dimethoate	2006/02/23	0.0006	mg/L	No
Dinoseb	2006/02/23	0.00005	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	0.000001	mg/L	No
Malathion	2006/02/23	0.0006	mg/L	No
Methoxychlor	2006/02/23	0.000004	mg/L	No
Metolachlor	2006/02/23	0.0004	mg/L	No
Metribuzin	2006/02/23	0.0004	mg/L	No
Monochlorobenzene	2007/06/05	0.00025	mg/L	No
Paraquat	2006/02/23	0.001	mg/L	No
Parathion	2006/02/23	0.0004	mg/L	No
Pentachlorophenol	2006/02/23	0.002	mg/L	No
Phorate	2006/02/23	0.0006	mg/L	No
Picloram	2006/02/23	0.00005	mg/L	No
Polychlorinated Biphenyls(PCB)	2006/02/23	0.0002	mg/L	No
Prometryne	2006/02/23	0.0004	mg/L	No

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

Simazine	2006/02/23	0.0006	mg/L	No
Temephos	2006/02/23	0.02	mg/L	No
Terbufos	2006/02/23	0.0004	mg/L	No
Tetrachloroethylene	2007/06/05	0.00025	mg/L	No
2,3,4,6-Tetrachlorophenol	2006/02/23	0.001	mg/L	No
Triallate	2006/02/23	0.0004	mg/L	No
Trichloroethylene	2007/06/05	0.00025	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	0.00005	mg/L	No
Trifluralin	2006/02/23	0.0004	mg/L	No
Vinyl Chloride	2007/06/05	0.00025	mg/L	No

GARSON ORELL #1 & #3 WELL SUPPLY

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2006/02/23	0.0005	mg/L	No
Aldicarb	2006/02/23	0.0007	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	0.0004	mg/L	No
Bendiocarb	2006/02/23	0.001	mg/L	No
Benzene	2007/06/05	0.00025	mg/L	No
Benzo(a)pyrene	2006/02/23	0.00001	mg/L	No
Bromoxynil	2006/02/23	0.0006	mg/L	No
Carbaryl	2006/02/23	0.001	mg/L	No
Carbofuran	2006/02/23	0.001	mg/L	No
Carbon Tetrachloride	2007/06/05	0.00025	mg/L	No
Chlordane (Total)	2006/02/23	0.000004	mg/L	No
Chlorpyrifos	2006/02/23	0.0004	mg/L	No
Cyanazine	2006/02/23	0.0004	mg/L	No
Diazinon	2006/02/23	0.0004	mg/L	No
Dicamba	2006/02/23	0.0002	mg/L	No
1,2-Dichlorobenzene	2007/06/05	0.00025	mg/L	No
1,4-Dichlorobenzene	2007/06/05	0.00025	mg/L	No
(DDT) + metabolites	2006/02/23	0.000005	mg/L	No
1,2-Dichloroethane	2007/06/05	0.00025	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2007/06/05	0.00025	mg/L	No
Dichloromethane	2007/06/05	0.00025	mg/L	No
2-4 Dichlorophenol	2006/02/23	0.002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2006/02/23	0.0002	mg/L	No
Diclofop-methyl	2006/02/23	0.0002	mg/L	No
Dimethoate	2006/02/23	0.0004	mg/L	No
Dinoseb	2006/02/23	0.00006	mg/L	No
Diquat	2006/02/23	0.007	mg/L	No
Diuron	2006/02/23	0.0007	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	0.000001	mg/L	No
Malathion	2006/02/23	0.0004	mg/L	No
Methoxychlor	2006/02/23	0.000003	mg/L	No
Metolachlor	2006/02/23	0.0003	mg/L	No

Metribuzin	2006/02/23	0.0003	mg/L	No
Monochlorobenzene	2007/06/05	0.00025	mg/L	No
Paraquat	2006/02/23	0.001	mg/L	No
Parathion	2006/02/23	0.0003	mg/L	No
Pentachlorophenol	2006/02/23	0.002	mg/L	No
Phorate	2006/02/23	0.0004	mg/L	No
Picloram	2006/02/23	0.00006	mg/L	No
Polychlorinated Biphenyls(PCB)	2006/02/23	0.0002	mg/L	No
Prometryne	2006/02/23	0.0003	mg/L	No
Simazine	2006/02/23	0.0004	mg/L	No
Temephos	2006/02/23	0.02	mg/L	No
Terbufos	2006/02/23	0.0003	mg/L	No
Tetrachloroethylene	2007/06/05	0.00269	mg/L	No
2,3,4,6-Tetrachlorophenol	2006/02/23	0.002	mg/L	No
Triallate	2006/02/23	0.0003	mg/L	No
Trichloroethylene	2007/06/05	0.00025	mg/L	No
2,4,6-Trichlorophenol	2006/02/23	0.002	mg/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	2006/02/23	0.00006	mg/L	No
Trifluralin	2006/02/23	0.0003	mg/L	No
Vinyl Chloride	2007/06/05	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
Mercury	0.00073	mg/L	2007/06/05

(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)