

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	24000020
Drinking-Water System	Falconbridge Well Supply
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2010-02-18 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>
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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/Citizen Service Centre**
 - Public access/notice via other method**
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Describe your Drinking-Water System

In April 2009, the City of Greater Sudbury purchased the Falconbridge Wells and Storage Tank from Xstrata. The Falconbridge system consists of: 3 drilled wells, Numbers 5, 6, and 7, located north of the Sudbury Airport. All three wells share a common treatment building that includes stand-by power, chlorine gas for disinfection and chemical addition for corrosion control. Continuous analyzers for free chlorine residual and turbidity are monitored by an onsite PLC. Water is supplied south to the Town of Falconbridge and north to the Nickel Rim Mine reservoir and the Sudbury Airport. An Elevated Storage Tank, a Fluoridation building, Booster Pumping Station and a Pressure Regulating Valve make up the rest of the system. The City sells water to Xstrata and two industrial clients along the South transmission line and fluoridates the water before it enters the Falconbridge Municipal distribution system. 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, Phosphate, 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

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

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
2010/02/18	Chlorine Residual	0	mg/L	Disinfectant restored/increased;	2010/02/18
2010/02/20	Chlorine Residual	0	mg/L	Disinfectant restored/increased;	2010/02/20
2010/02/21	Chlorine Residual	<0.05	mg/L	Disinfectant restored/increased;	2010/03/26
2010/05/19	Chlorine Residual	0	mg/L	Disinfectant restored/increased;	2010/05/19
2010/06/28	Chlorine Residual	0	mg/L	Disinfectant restored/increased;	2010/07/06
2010/07/08	Cl ₂	0	mg/l	Resample/Re-test;	2010/07/07
2010/08/03	Total Coliform	1	cfu	Resample/Re-test	2010/08/05
2010/09/28	Sodium	22.8/22.4/28.2	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: FALCONBRIDGE WELL #5					
	45	0 to 0	0 to 0		
Raw: FALCONBRIDGE WELL #6					
	45	0 to 0	0 to 0		
Raw: FALCONBRIDGE WELL #7					
	46	0 to 0	0 to 0		
Treated: FALCONBRIDGE WELLS TREATED					
	137	0 to 0	0 to 0	136	0 to 2140
Distribution					
	187	0 to 0	0 to 1	51	0 to 30

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	0.36 - 3.14
Fluoride	8,760	0.20 - 1.16

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

FALCONBRIDGE WELLS

Turbidity	8,760	0.01 - 5.16	NTU
Chlorine	8,760	0.00 - 5.00	mg/L
Fluoride (If the DWS provides fluoridation)			

*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

FALCONBRIDGE WELLS TREATED

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2009/01/12	0.00002	mg/L	No
Arsenic	2009/01/12	0.002	mg/L	No
Barium	2009/01/12	0.00664	mg/L	No
Boron	2009/01/12	0.006	mg/L	No
Cadmium	2009/01/12	0.000003	mg/L	No
Chromium	2009/01/12	0.0011	mg/L	No
Mercury	2009/01/12	0.00002	mg/L	No
Selenium	2009/01/12	0.001	mg/L	No
Uranium	2009/01/12	0.000239	mg/L	No

Nitrite	2010/03/18	0.05	mg/L	No
	2010/06/15	0.05	mg/L	No
	2010/09/14	0.03	mg/L	No
	2010/12/13	0.05	mg/L	No
Nitrate	2010/03/18	0.1	mg/L	No
	2010/06/15	0.14	mg/L	No
	2010/09/14	0.1	mg/L	No
	2010/12/13	0.17	mg/L	No
Sodium	2010/09/14	22.40	mg/L	Yes
	2010/09/14	22.80	mg/L	Yes
	2010/09/14	28.80	mg/L	Yes
	2010/09/29	20.70	mg/L	Yes
	2010/09/29	21.50	mg/L	Yes

* 2009 results for schedule 23/24 provided from previous DWS owner

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	0.0010	mg/L	No

FALCONBRIDGE WELLS TREATED

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2009/01/07	0.00011	mg/L	No
Aldicarb	2009/01/07	0.0003	mg/L	No
Aldrin + Dieldrin	2009/01/07	0.000067	mg/L	No
Atrazine + N-dealkylated metabolites	2009/01/07	0.00012	mg/L	No
Azinphos-methyl	2009/01/07	0.00021	mg/L	No
Bendiocarb	2009/01/07	0.00013	mg/L	No
Benzene	2009/01/07	0.00037	mg/L	No
Benzo(a)pyrene	2009/01/07	0.000004	mg/L	No
Bromoxynil	2009/01/07	0.00033	mg/L	No
Carbaryl	2009/01/07	0.0016	mg/L	No
Carbofuran	2009/01/07	0.00037	mg/L	No
Carbon Tetrachloride	2009/01/07	0.00041	mg/L	No
Chlordane (Total)	2009/01/07	0.00011	mg/L	No
Chlorpyrifos	2009/01/07	0.00018	mg/L	No
Cyanazine	2009/01/07	0.00018	mg/L	No

Diazinon	2009/01/07	0.000081	mg/L	No
Dicamba	2009/01/07	0.00020	mg/L	No
1,2-Dichlorobenzene	2009/01/07	0.0005	mg/L	No
1,4-Dichlorobenzene	2009/01/07	0.00021	mg/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	2009/01/07	0.00014	mg/L	No
1,2-Dichloroethane	2009/01/07	0.00043	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2009/01/07	0.00041	mg/L	No
Dichloromethane	2009/01/07	0.00034	mg/L	No
2-4 Dichlorophenol	2009/01/07	0.00015	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2009/01/07	0.00019	mg/L	No
Diclofop-methyl	2009/01/07	0.00040	mg/L	No
Dimethoate	2009/01/07	0.00012	mg/L	No
Dinoseb	2009/01/07	0.00036	mg/L	No
Diquat	2009/01/07	0.001	mg/L	No
Diuron	2009/01/07	0.000087	mg/L	No
Glyphosate	2009/01/07	0.006	mg/L	No
Heptachlor + Heptachlor Epoxide	2009/01/07	0.00011	mg/L	No
Linadane (Total)	2009/01/07	0.000056	mg/L	No
Malathion	2009/01/07	0.000091	mg/L	No
Methoxychlor	2009/01/07	0.00014	mg/L	No
Metolachlor	2009/01/07	0.000092	mg/L	No
Metribuzin	2009/01/07	0.00012	mg/L	No
Monochlorobenzene	2009/01/07	0.00058	mg/L	No
Paraquat	2009/01/07	0.001	mg/L	No
Parathion	2009/01/07	0.00018	mg/L	No
Pentachlorophenol	2009/01/07	0.00015	mg/L	No
Phorate	2009/01/07	0.00011	mg/L	No
Picloram	2009/01/07	0.00025	mg/L	No
Polychlorinated Biphenyls(PCB)	2009/01/07	0.00004	mg/L	No
Prometryne	2009/01/07	0.00023	mg/L	No
Simazine	2009/01/07	0.00015	mg/L	No
Temephos	2009/01/07	0.00031	mg/L	No
Terbufos	2009/01/07	0.00012	mg/L	No
Tetrachloroethylene	2009/01/07	0.00045	mg/L	No
2,3,4,6-Tetrachlorophenol	2009/01/07	0.00014	mg/L	No
Triallate	2009/01/07	0.00010	mg/L	No
Trichloroethylene	2009/01/07	0.00038	mg/L	No
2,4,6-Trichlorophenol	2009/01/07	0.00025	mg/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	2009/01/07	0.00022	mg/L	No
Trifluralin	2009/01/07	0.00012	mg/L	No
Vinyl Chloride	2009/01/07	0.00017	mg/L	No

* 2009 results for schedule 23/24 provided from previous DWS owner

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)