

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	220003519
Drinking-Water System Name:	Onaping Potable Water Supply
Drinking-Water System Owner:	Xstrata Ltd, Sudbury Mine/Mill Business Unit (SMMBU) – Under Xstrata Nickel Sudbury Operations
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1 2009 to December 31 st 2009

<u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u> Does your Drinking-Water System serve more than 10,000 people? Yes [] No [X] Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No [] Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection. City Of Greater Sudbury Website: WWW.city.greatersudbury.on.ca Can also be obtained through Xstrata Nickel Mines/Mill- Environment & Occ. Hygiene Services At (705) 966-3411 ext 6426 or 6344	<u>Complete for all other Categories.</u> Number of Designated Facilities served: Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No [] Number of Interested Authorities you report to: Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []
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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
Onaping Distribution Works	260006503

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 [X] 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

☐ Public access/notice via other method _____

Describe your Drinking-Water System

The Onaping Potable Water System (OPWS) was constructed in 1971. This system uses chlorine gas injection for disinfection. The Operators of the water supply system are licensed Water Distribution System Level III Operators. The water is supplied to the Town of Onaping, which is within the City of Greater Sudbury, and to Xstrata Ltd Onaping/Craig Mines. A 1000 cubic meter storage tank located in the Townsite of Onaping is used to maintain water pressure throughout the system and to store sufficient water for use during peak demand hours. Water for the OPWS is pumped from two groundwater wells. The pumps operate automatically to maintain a minimum level in the potable water storage tank. The water supply is constant and of excellent quality.

List all water treatment chemicals used over this reporting period

Chlorine gas

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
Sept. 21/09	HPC	1500	CFU/10 0mL	Flushed and re-sample	Sept 25/09

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 Total Coliform Background Samples	Range of Total Coliform Background Results (min #)-(max #)
Raw	104	0	0	104	0
Treated	104	0	0	104	0
Distribution	52	0	0	52	0

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 #)
Turbidity	8760	0.020-0.20
Chlorine	8760	0.88-1.26
Fluoride (If the DWS provides fluoridation)	N/A	N/A

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

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, 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 the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	23 Jan 09	0.02 <MDL	µg/L	No
Arsenic	23 Jan 09	0.2 <MDL	µg/L	No
Barium	23 Jan 09	69.6	µg/L	No
Boron	23 Jan 09	14.9	µg/L	No
Cadmium	23 Jan 09	0.003 <MDL	µg/L	No
Chromium	23 Jan 09	0.5 <MDL	µg/L	No
Lead @ Distribution	23 Jan 09	0.02	µg/L	No
Mercury	23 Jan 09	0.02<MDL	µg/L	No
Selenium	23 Jan 09	1 <MDL	µg/L	No
Sodium	23 Jan 09	53.6	mg/l	No

Uranium	23 Jan 09	0.149	µg/L	No
Fluoride	23 Jan 09	0.06 <MDL	mg/l	No
Nitrite	23 Jan 09	0.005 <MDL	mg/l	No
Nitrate	23 Jan 09	1.37	mg/l	No

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	23 Jan 09	0.11<MDL	µg/L	No
Aldicarb	23 Jan 09	0.30<MDL	µg/L	No
Aldrin + Dieldrin	23 Jan 09	0.067<MDL	µg/L	No
Atrazine + N-dealkylated metabolites	23 Jan 09	0.12<MDL	µg/L	No
Azinphos-methyl	23 Jan 09	0.21<MDL	µg/L	No
Bendiocarb	23 Jan 09	0.13<MDL	µg/L	No
Benzene	23 Jan 09	0.37<MDL	µg/L	No
Benzo(a)pyrene	23 Jan 09	0.004<MDL	µg/L	No
Bromoxynil	23 Jan 09	0.094<MDL	µg/L	No
Carbaryl	23 Jan 09	0.16<MDL	µg/L	No
Carbofuran	23 Jan 09	0.37<MDL	µg/L	No
Carbon Tetrachloride	23 Jan 09	0.26<MDL	µg/L	No
Chlordane (Total)	23 Jan 09	0.11<MDL	µg/L	No
Chlorpyrifos	23 Jan 09	0.18<MDL	µg/L	No
Cyanazine	23 Jan 09	0.18<MDL	µg/L	No
Diazinon	23 Jan 09	0.081<MDL	µg/L	No
Dicamba	23 Jan 09	0.17<MDL	µg/L	No
1,2-Dichlorobenzene	23 Jan 09	0.50<MDL	µg/L	No
1,4-Dichlorobenzene	23 Jan 09	0.20<MDL	µg/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	23 Jan 09	0.14<MDL	µg/L	No
1,2-Dichloroethane	23 Jan 09	0.43<MDL	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	23 Jan 09	0.41<MDL	µg/L	No
Dichloromethane	23 Jan 09	0.32<MDL	µg/L	No
2-4 Dichlorophenol	23 Jan 09	0.15<MDL	µg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	23 Jan 09	0.19<MDL	µg/L	No
Diclofop-methyl	23 Jan 09	0.13<MDL	µg/L	No
Dimethoate	23 Jan 09	0.12<MDL	µg/L	No
Dinoseb	23 Jan 09	0.084<MDL	µg/L	No
Diquat	23 Jan 09	1<MDL	µg/L	No
Diuron	23 Jan 09	0.087<MDL	µg/L	No
Glyphosate	23 Jan 09	6<MDL	µg/L	No
Heptachlor + Heptachlor Epoxide	23 Jan 09	0.11<MDL	µg/L	No
Lindane (Total)	23 Jan 09	0.056<MDL	µg/L	No
Malathion	23 Jan 09	0.091<MDL	µg/L	No

Methoxychlor	23 Jan 09	0.14<MDL	µg/L	No
Metolachlor	23 Jan 09	0.092<MDL	µg/L	No
Metribuzin	23 Jan 09	0.12<MDL	µg/L	No
Monochlorobenzene	23 Jan 09	0.58<MDL	µg/L	No
Paraquat	23 Jan 09	1<MDL	µg/L	No
Parathion	23 Jan 09	0.18<MDL	µg/L	No
Pentachlorophenol	23 Jan 09	0.15<MDL	µg/L	No
Phorate	23 Jan 09	0.11<MDL	µg/L	No
Picloram	23 Jan 09	0.20<MDL	µg/L	No
Polychlorinated Biphenyls(PCB)	23 Jan 09	0.04<MDL	µg/L	No
Prometryne	23 Jan 09	0.23<MDL	µg/L	No
Simazine	23 Jan 09	0.15<MDL	µg/L	No
THM (NOTE: show latest annual average)	23 Jan 09	3.078	µg/L	No
Temephos	23 Jan 09	0.31<MDL	µg/L	No
Terbufos	23 Jan 09	0.12<MDL	µg/L	No
Tetrachloroethylene	23 Jan 09	0.45<MDL	µg/L	No
2,3,4,6-Tetrachlorophenol	23 Jan 09	0.14<MDL	µg/L	No
Triallate	23 Jan 09	0.10<MDL	µg/L	No
Trichloroethylene	23 Jan 09	0.38<MDL	µg/L	No
2,4,6-Trichlorophenol	23 Jan 09	0.25<MDL	µg/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	23 Jan 09	0.14<MDL	µg/L	No
Trifluralin	23 Jan 09	0.12<MDL	µg/L	No
Vinyl Chloride	23 Jan 09	0.14<MDL	µg/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)