

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	250002207
Drinking-Water System	Skead Heritage Homes Inc. System
Drinking-Water System Owner:	Skead Heritage Homes Inc.
Drinking-Water System Category:	Non-Municipal Year Round Residential
Period being reported:	From 2010-01-01 To 2010-12-29

<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**

Describe your Drinking-Water System

In June of 2006, by Provincial Order, the City of Greater Sudbury was required to take over operation of a municipal drinking water system owned by Skead Heritage Homes Inc. The drinking water system supplied water to fourteen (14) homes and fell under O. Reg. 170/03. In June 2008, by Provincial Order, the CGS was to provide a long term solution for the system and underwent the process of fragmenting the drinking water system on behalf of Skead Heritage Homes Inc. In early 2009, six new wells were drilled on the property, owned by Skead Heritage Homes Inc., to determine the potential for fragmentation of the existing communal well supply system. Subsequently, the MOE issued the Consent to Fragment, with the system having the following breakdown of supply: 4 homes on individual wells and 5 homes on each of 2 wells (10 homes in total). Individual point of entry treatment systems, including filtration and UV disinfection were also required and installed on the 10 homes serviced by the 2 shared wells. The two wells that supply 5 homes each became effective Aug 5, 2010. The appropriate readings are labeled by Well number and date in the appropriate sections below. The original well was abandoned in accordance with appropriate regulations. On January 10, 2011, the MOE confirmed that “the Skead Heritage Homes Inc. Drinking Water System is now fragmented and no longer subject to the requirements of O. Reg. 170/03 under the Safe Drinking Water Act, 2002 (SDWA). The City of Greater Sudbury has fully complied with the Order and as per Section 114, (7) (d) of the SDWA, is no longer required to operate and maintain the Skead Heritage Homes Inc. Drinking Water System.”

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite UN#1791

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

The capital expenditures in 2009 – 2010 for this project totaled \$260,000.

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
2010/01/24	Pressure	20	psi	Resample/Re-test;	2010/01/28
2010/08/05	Pressure	0	psi	Users advised to boil/seek alternate;	2010/08/13
2010/08/07	Total Coliform	2	cfu	Resample/Re-test;	2010/08/13
2010/08/08	Pressure	0	psi	Users advised to boil/seek alternate;	2010/08/08
2010/08/18	Pressure	18	psi	PRESSURE RESTORED	2010/08/18
2010/08/22	Pressure	0	psi	Resample/Re-test;	2010/08/25
2010/08/25	Chlorine Residual	0.04	mg/L	Disinfectant restored/increased;	2010/09/02
2010/08/25	TC	1	cfu	Users advised to boil/seek alternate;	2010/09/03
2010/09/17	Pressure	0	psi	Bacti samples Sept.20, 21/10 #5 pressure restored after mtce	2010/09/28
2010/10/06	Pressure	<20	psi	Disinfectant restored/increased;	2010/10/06
2010/10/06	Turbidity	>1.0	NTU	Disinfectant restored/increased;	2010/10/14
2010/10/16	Pressure	0	psi	Users advised to boil/seek alternate;	2010/10/22
2010/11/29	POE UV fail & shutdown. Cautionary BW issued by CGS			Resample/Re-test;	2010/12/15
2010/11/30	POE UV fail & shutdown. Cautionary BW issued by CGS			Resample/Re-test;	2010/12/13
2010/12/02	Turbidity	2.4	NTU	Resample/Re-test;	2010/12/07
2010/12/06	Turbidity	2.2	NTU	Flushing mains/pipes;	2010/12/06
2010/12/06	UV	off		Users advised to boil/seek alternate;	2010/12/14
2010/12/07	Turbidity	1.66	NTU	pump to waste	2010/12/14
2010/12/08	Turbidity	2.6	NTU	pump to waste , bacti samples	
2010/12/09	Turbidity	2.6	NTU	bacti sample taken Well # 6 off Well # 5 supplying all	2010/12/14

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: SKEAD WELL #1					
	151	0 to 200	0 to 200		
Treated: PUMP HOUSE					
	102	0 to 0	0 to 2	99	0 to 790
Distribution	133	0 to 0	0 to 0	1	0 to 0

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

Skead Well #1 : Jan 1, 2011 - Aug 5, 2011

	Number of Grab Samples	Range of Results (min #) - (max #)
Chlorine Residual Distribution System	61	0.47 - 2.28

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

Turbidity	216	0.10 - 0.46
Chlorine	216	0.49 - 2.40

Skead Well #5 :Aug 5, 2011 - Dec 29, 2011 - Fragmented

	Number of Grab Samples	Range of Results (min #) - (max #)
Chlorine Residual Distribution System	32	0.41 - 2.98

Turbidity	78	0.16 - 1.14
Chlorine	78	0.51 - 3.80

Skead Well #6 :Aug 5, 2011 - Dec 29, 2011 - Fragmented

	Number of Grab Samples	Range of Results (min #) - (max #)
Chlorine Residual Distribution System	34	0.42 - 2.24

Turbidity	77	0.14 - 2.01
Chlorine	77	0.49 - 3.20

*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

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Lead	2010/12/14	0.001	mg/L	No

PUMP HOUSE

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2006/07/12	0.0005	mg/L	No
Arsenic	2006/07/12	0.001	mg/L	No
Barium	2006/07/12	0.0044	mg/L	No
Boron	2006/07/12	0.0054	mg/L	No
Cadmium	2006/07/12	0.0001	mg/L	No
Chromium	2006/07/12	0.001	mg/L	No
Mercury	2006/07/12	0.0001	mg/L	No
Selenium	2006/07/12	0.001	mg/L	No
Uranium	2006/07/12	0.001	mg/L	No
Nitrite	2010/03/16	0.05	mg/L	No
	2010/06/14	0.05	mg/L	No
	2010/09/15	0.03	mg/L	No
	2010/12/20	0.05	mg/L	No
Nitrate	2010/03/16	0.1	mg/L	No
	2010/06/14	0.1	mg/L	No
	2010/09/15	0.1	mg/L	No
	2010/12/20	0.1	mg/L	No
Sodium	2006/07/12	5.07	mg/L	No

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	0.0109	mg/L	No

PUMP HOUSE

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2006/07/12	0.0005	mg/L	No
Aldicarb	2006/07/12	0.0005	mg/L	No
Aldrin + Dieldrin	2006/07/12	0.000004	mg/L	No
Atrazine + N-dealkylated metabolites	2006/07/12	0.0009	mg/L	No
Azinphos-methyl	2006/07/12	0.001	mg/L	No
Bendiocarb	2006/07/12	0.002	mg/L	No
Benzene	2006/07/12	0.00025	mg/L	No

Benzo(a)pyrene	2006/07/12	0.000009	mg/L	No
Bromoxynil	2006/07/12	0.0005	mg/L	No
Carbaryl	2006/07/12	0.005	mg/L	No
Carbofuran	2006/07/12	0.005	mg/L	No
Carbon Tetrachloride	2006/07/12	0.00025	mg/L	No
Chlordane (Total)	2006/07/12	0.000004	mg/L	No
Chlorpyrifos	2006/07/12	0.001	mg/L	No
Cyanazine	2006/07/12	0.001	mg/L	No
Diazinon	2006/07/12	0.001	mg/L	No
Dicamba	2006/07/12	0.001	mg/L	No
1,2-Dichlorobenzene	2006/07/12	0.00025	mg/L	No
1,4-Dichlorobenzene	2006/07/12	0.00025	mg/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	2006/07/12	0.000005	mg/L	No
1,2-Dichloroethane	2006/07/12	0.00025	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2006/07/12	0.00025	mg/L	No
Dichloromethane	2006/07/12	0.00025	mg/L	No
2-4 Dichlorophenol	2006/07/12	0.001	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2006/07/12	0.001	mg/L	No
Diclofop-methyl	2006/07/12	0.0009	mg/L	No
Dimethoate	2006/07/12	0.0025	mg/L	No
Dinoseb	2006/07/12	0.001	mg/L	No
Diquat	2006/07/12	0.007	mg/L	No
Diuron	2006/07/12	0.01	mg/L	No
Glyphosate	2006/07/12	0.01	mg/L	No
Heptachlor + Heptachlor Epoxide	2006/07/12	0.000004	mg/L	No
Linadane (Total)	2006/07/12	0.0000015	mg/L	No
Malathion	2006/07/12	0.001	mg/L	No
Methoxychlor	2006/07/12	0.0000041	mg/L	No
Metolachlor	2006/07/12	0.0005	mg/L	No
Metribuzin	2006/07/12	0.005	mg/L	No
Monochlorobenzene	2006/07/12	0.00025	mg/L	No
Paraquat	2006/07/12	0.01	mg/L	No
Parathion	2006/07/12	0.001	mg/L	No
Pentachlorophenol	2006/07/12	0.0005	mg/L	No
Phorate	2006/07/12	0.0005	mg/L	No
Picloram	2006/07/12	0.005	mg/L	No
Polychlorinated Biphenyls(PCB)	2006/07/12	0.00025	mg/L	No
Prometryne	2006/07/12	0.00025	mg/L	No
Simazine	2006/07/12	0.001	mg/L	No
Temephos	2006/07/12	0.01	mg/L	No
Terbufos	2006/07/12	0.0007	mg/L	No
Tetrachloroethylene	2006/07/12	0.00025	mg/L	No
2,3,4,6-Tetrachlorophenol	2006/07/12	0.0005	mg/L	No
Triallate	2006/07/12	0.001	mg/L	No
Trichloroethylene	2006/07/12	0.00025	mg/L	No
2,4,6-Trichlorophenol	2006/07/12	0.0005	mg/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	2006/07/12	0.001	mg/L	No
Trifluralin	2006/07/12	0.001	mg/L	No
Vinyl Chloride	2006/07/12	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)