



2020 Annual Water Quality Reports

Ontario Regulation 170/03, s. 11 (1);
Ontario Regulation 247/06, s. 10 (1)





2020 Annual Water Quality Report

V.3

Reviewed by:

A handwritten signature in black ink that reads 'FRIEL'.

February 24, 2021

Julie Friel
Manager Water Treatment

Date

Approved by:

A handwritten signature in black ink that reads 'ML'.

February 24, 2021

Michael Loken, P. Eng. for
Mike Jensen
Director, Water/Wastewater Treatment &
Compliance

Date



2020 Annual Water Quality Report

Table of Contents

Dowling Drinking Water System	Section 1
Falconbridge Drinking Water System	Section 2
Onaping/Levack Drinking Water System	Section 3
Sudbury Drinking Water System - Garson	Section 4
Sudbury Drinking Water System - David St.	Section 5
Sudbury Drinking Water System - Wanapitei	Section 6
Bleazard Valley – Capreol Drinking Water System	Section 7
Vermilion Distribution System	Section 8



Section 1

Dowling Drinking Water System

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	210001665
Drinking-Water System Name:	Dowling Drinking Water System
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2020-01-01 To 2020-12-31

<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>
--	---

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

The Dowling Drinking Water System encompasses all municipal water distribution within Dowling. The system includes Dowling Well #1 (Riverside) located on Riverside Dr., Dowling Well #2 (Lionel) located on Lionel Avenue and the Dowling Tank located off of Hwy. 144. Each of the wells is housed in individual structures. The wells pump water from an unconfined aquifer within a primarily sand and gravel formation. The discharge at each well site undergoes primary treatment in the form of Ultra-Violet irradiation, secondary disinfection by chlorination, and fluoridation before it enters the distribution system. Continuous analyzers for free chlorine residual, fluoride, turbidity and UV equipment are monitored by an onsite PLC. A standby power generator with an automatic transfer switch is located at Lionel well and supplies power to both wells. The distribution system includes an online continuous free chlorine analyzer. 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, 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

AWQI #	Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
153194	2020/12/03	Sodium	33.8	mg/L	Resample	2020/12/03
153195	2020/12/03	Sodium	40.4	mg/L	Resample	2020/12/03

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: LIONEL WELL#2					
	53	0 to 0	0 to 0		
Raw: RIVERSIDE WELL#1					
	53	0 to 0	0 to 1		
Treated: LIONEL WELL					
	53	0 to 0	0 to 0	53	10 to 20
Treated: RIVERSIDE WELL					
	53	0 to 0	0 to 0	53	10 to 30
Distribution					
	158	0 to 0	0 to 0	39	10 to 930

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	0.14 - 2.59

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

LIONEL WELL

Turbidity	8,760	0.01 - 0.46	NTU
Chlorine	8,760	0.59 - 3.40	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 0.85	mg/L

RIVERSIDE WELL

Turbidity	8,760	0.03 - 0.58	NTU
Chlorine	8,760	0.62 - 3.25	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.35	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
NA				

LIONEL WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/03	0.0005	mg/L	No
Arsenic	2020/12/03	0.001	mg/L	No
Barium	2020/12/03	0.0229	mg/L	No
Boron	2020/12/03	0.0064	mg/L	No
Cadmium	2020/12/03	0.0001	mg/L	No
Chromium	2020/12/03	0.001	mg/L	No
Mercury	2020/12/03	0.0001	mg/L	No
Selenium	2020/12/03	0.0006	mg/L	No
Uranium	2020/12/03	0.001	mg/L	No
Nitrite	2020/03/03	0.05	mg/L	No
	2020/06/02	0.05	mg/L	No
	2020/09/01	0.05	mg/L	No
	2020/12/03	0.05	mg/L	No

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

Nitrate	2020/03/03	0.609	mg/L	No
	2020/06/02	0.621	mg/L	No
	2020/09/01	0.61	mg/L	No
	2020/12/03	0.717	mg/L	No
Sodium	2020/12/03	40.40	mg/L	Yes

RIVERSIDE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/03	0.0005	mg/L	No
Arsenic	2020/12/03	0.001	mg/L	No
Barium	2020/12/03	0.0164	mg/L	No
Boron	2020/12/03	0.0044	mg/L	No
Cadmium	2020/12/03	0.0001	mg/L	No
Chromium	2020/12/03	0.001	mg/L	No
Mercury	2020/12/03	0.0001	mg/L	No
Selenium	2020/12/03	0.00021	mg/L	No
Uranium	2020/12/03	0.001	mg/L	No
Nitrite	2020/03/03	0.05	mg/L	No
	2020/06/02	0.05	mg/L	No
	2020/09/01	0.05	mg/L	No
	2020/12/03	0.05	mg/L	No
Nitrate	2020/03/03	0.793	mg/L	No
	2020/06/02	0.765	mg/L	No
	2020/09/01	0.941	mg/L	No
	2020/12/03	0.587	mg/L	No
Sodium	2020/12/03	33.80	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		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)	2020	0.0055	mg/L	No

LIONEL WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/03	0.000239	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/03	0.0005	mg/L	No
Azinphos-methyl	2020/12/03	0.00018	mg/L	No

Benzene	2020/12/03	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/03	0.00001	mg/L	No
Bromoxynil	2020/12/03	0.0000916	mg/L	No
Carbaryl	2020/12/03	0.002	mg/L	No
Carbofuran	2020/12/03	0.003	mg/L	No
Carbon Tetrachloride	2020/12/03	0.0002	mg/L	No
Chlorpyrifos	2020/12/03	0.00018	mg/L	No
Diazinon	2020/12/03	0.00018	mg/L	No
Dicamba	2020/12/03	0.0000802	mg/L	No
1,2-Dichlorobenzene	2020/12/03	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/03	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/03	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/03	0.0003	mg/L	No
Dichloromethane	2020/12/03	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/03	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/03	0.000344	mg/L	No
Diclofop-methyl	2020/12/03	0.000115	mg/L	No
Dimethoate	2020/12/03	0.00018	mg/L	No
Diquat	2020/12/03	0.0002	mg/L	No
Diuron	2020/12/03	0.009	mg/L	No
Glyphosate	2020/12/03	0.02	mg/L	No
Malathion	2020/12/03	0.00018	mg/L	No
Metolachlor	2020/12/03	0.00012	mg/L	No
Metribuzin	2020/12/03	0.00012	mg/L	No
Monochlorobenzene	2020/12/03	0.0005	mg/L	No
Paraquat	2020/12/03	0.0002	mg/L	No
Pentachlorophenol	2020/12/03	0.0003	mg/L	No
Phorate	2020/12/03	0.00012	mg/L	No
Picloram	2020/12/03	0.0000802	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/03	0.00006	mg/L	No
Prometryne	2020/12/03	0.0000598	mg/L	No
Simazine	2020/12/03	0.00018	mg/L	No
Terbufos	2020/12/03	0.00012	mg/L	No
Tetrachloroethylene	2020/12/03	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/03	0.0003	mg/L	No
Triallate	2020/12/03	0.00012	mg/L	No
Trichloroethylene	2020/12/03	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/03	0.0002	mg/L	No
Trifluralin	2020/12/03	0.00012	mg/L	No
Vinyl Chloride	2020/12/03	0.0001	mg/L	No
MCPA	2020/12/03	0.00573	mg/L	No

RIVERSIDE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/03	0.000242	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/03	0.0005	mg/L	No
Azinphos-methyl	2020/12/03	0.000181	mg/L	No
Benzene	2020/12/03	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/03	0.00001	mg/L	No
Bromoxynil	2020/12/03	0.0000931	mg/L	No
Carbaryl	2020/12/03	0.001	mg/L	No

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

Carbofuran	2020/12/03	0.002	mg/L	No
Carbon Tetrachloride	2020/12/03	0.0002	mg/L	No
Chlorpyrifos	2020/12/03	0.000181	mg/L	No
Diazinon	2020/12/03	0.000181	mg/L	No
Dicamba	2020/12/03	0.0000814	mg/L	No
1,2-Dichlorobenzene	2020/12/03	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/03	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/03	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/03	0.0003	mg/L	No
Dichloromethane	2020/12/03	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/03	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/03	0.000349	mg/L	No
Diclofop-methyl	2020/12/03	0.000116	mg/L	No
Dimethoate	2020/12/03	0.000181	mg/L	No
Diquat	2020/12/03	0.0002	mg/L	No
Diuron	2020/12/03	0.006	mg/L	No
Glyphosate	2020/12/03	0.02	mg/L	No
Malathion	2020/12/03	0.000181	mg/L	No
Metolachlor	2020/12/03	0.000121	mg/L	No
Metribuzin	2020/12/03	0.000121	mg/L	No
Monochlorobenzene	2020/12/03	0.0005	mg/L	No
Paraquat	2020/12/03	0.0002	mg/L	No
Pentachlorophenol	2020/12/03	0.0003	mg/L	No
Phorate	2020/12/03	0.000121	mg/L	No
Picloram	2020/12/03	0.0000814	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/03	0.00006	mg/L	No
Prometryne	2020/12/03	0.0000604	mg/L	No
Simazine	2020/12/03	0.000181	mg/L	No
Terbufos	2020/12/03	0.000121	mg/L	No
Tetrachloroethylene	2020/12/03	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/03	0.0003	mg/L	No
Triallate	2020/12/03	0.000121	mg/L	No
Trichloroethylene	2020/12/03	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/03	0.0002	mg/L	No
Trifluralin	2020/12/03	0.000121	mg/L	No
Vinyl Chloride	2020/12/03	0.0001	mg/L	No
MCPA	2020/12/03	0.00582	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	UOM	Date of Sample	Location

(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)



Section 2

Falconbridge Drinking Water System

Part III Form 2
Section 11. ANNUAL REPORT.

Drinking-Water System Number:	240000020
Drinking-Water System Name:	Falconbridge Well Supply
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2020-01-01 To 2020-12-31

<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>
--	---

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

The Falconbridge system consists of three drilled wells, Numbers 5, 6, and 7, located north of the Sudbury Airport. All three wells share a common treatment building that includes a stand-by power generator, chlorine gas for disinfection and chemical addition for corrosion control. Continuous analyzers for free chlorine residual and turbidity are monitored by an onsite PLC. Fluoride is added to the water before it enters the Falconbridge Municipal distribution system at a designated fluoridation building. Water is supplied south to the Town of Falconbridge and north to the Nickel Rim Mine reservoir and the Sudbury Airport. The remainder of the system consists of an Elevated Storage Tank, Booster Pumping Station and a Pressure Regulating Valve, all located within the town of Falconbridge. The City provides water to Glencore and two industrial clients along the South transmission line. The distribution system includes an online continuous free chlorine analyzer and fluoride analyzer. 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, Polyphosphate, 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

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

AWQI #	Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
153165	2020/11/30	Sodium	25.6	mg/L	Resample	2020/12/04

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					
	52	0 to 0	0 to 0		
Raw: FALCONBRIDGE WELL #6					
	38	0 to 0	0 to 1		
Raw: FALCONBRIDGE WELL #7					
	52	0 to 0	0 to 0		
Treated: FALCONBRIDGE WELL #5					
	52	0 to 0	0 to 0	52	10 to 10
Treated: FALCONBRIDGE WELL #6					
	38	0 to 0	0 to 0	38	10 to 20
Treated: FALCONBRIDGE WELL #7					
	52	0 to 0	0 to 0	52	10 to 10
Treated: FALCONBRIDGE WELLS TREATED					
	0			0	
Distribution					
	203	0 to 0	0 to 0	51	10 to 10

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	1.13 - 3.35

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

FALCONBRIDGE WELLS TREATED

Turbidity	8,760	0.00 - 5.11	NTU
Chlorine	8,760	0.20 - 5.00	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.22	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

FALCONBRIDGE WELL #5

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/01	0.0005	mg/L	No
Arsenic	2020/12/01	0.0022	mg/L	No
Barium	2020/12/01	0.0065	mg/L	No
Boron	2020/12/01	0.0045	mg/L	No
Cadmium	2020/12/01	0.0001	mg/L	No
Chromium	2020/12/01	0.0013	mg/L	No
Mercury	2020/12/01	0.0001	mg/L	No
Selenium	2020/12/01	0.00033	mg/L	No
Uranium	2020/12/01	0.001	mg/L	No
Nitrite	2020/03/02	0.05	mg/L	No
	2020/06/01	0.05	mg/L	No
	2020/08/31	0.05	mg/L	No
	2020/12/01	0.05	mg/L	No
Nitrate	2020/03/02	0.062	mg/L	No
	2020/06/01	0.16	mg/L	No
	2020/08/31	0.17	mg/L	No
	2020/12/01	0.17	mg/L	No
Sodium	2020/12/01	22.80	mg/L	Yes

FALCONBRIDGE WELL #6

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/01	0.0005	mg/L	No
Arsenic	2020/12/01	0.0019	mg/L	No
Barium	2020/12/01	0.0076	mg/L	No
Boron	2020/12/01	0.0042	mg/L	No
Cadmium	2020/12/01	0.0001	mg/L	No
Chromium	2020/12/01	0.0012	mg/L	No
Mercury	2020/12/01	0.0001	mg/L	No
Selenium	2020/12/01	0.00043	mg/L	No
Uranium	2020/12/01	0.001	mg/L	No
Nitrite	2020/06/01	0.05	mg/L	No
	2020/08/31	0.05	mg/L	No
	2020/12/01	0.05	mg/L	No
Nitrate	2020/06/01	0.15	mg/L	No
	2020/08/31	0.16	mg/L	No
	2020/12/01	0.17	mg/L	No
Sodium	2020/12/01	22.80	mg/L	Yes

FALCONBRIDGE WELL #7

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/01	0.0005	mg/L	No
Arsenic	2020/12/01	0.0035	mg/L	No
Barium	2020/12/01	0.0062	mg/L	No
Boron	2020/12/01	0.0042	mg/L	No
Cadmium	2020/12/01	0.0001	mg/L	No
Chromium	2020/12/01	0.0014	mg/L	No
Mercury	2020/12/01	0.0001	mg/L	No
Selenium	2020/12/01	0.00033	mg/L	No
Uranium	2020/12/01	0.001	mg/L	No
Nitrite	2020/03/02	0.05	mg/L	No
	2020/06/01	0.05	mg/L	No
	2020/08/31	0.05	mg/L	No
	2020/12/01	0.05	mg/L	No
Nitrate	2020/03/02	0.05	mg/L	No
	2020/06/01	0.094	mg/L	No
	2020/08/31	0.12	mg/L	No
	2020/12/01	0.17	mg/L	No
Sodium	2020/12/01	25.60	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		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)	2020	0.0027	mg/L	No

FALCONBRIDGE WELL #5

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/01	0.000244	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/01	0.0005	mg/L	No
Azinphos-methyl	2020/12/01	0.000183	mg/L	No
Benzene	2020/12/01	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/01	0.00001	mg/L	No
Bromoxynil	2020/12/01	0.0000939	mg/L	No
Carbaryl	2020/12/01	0.002	mg/L	No
Carbofuran	2020/12/01	0.003	mg/L	No
Carbon Tetrachloride	2020/12/01	0.0002	mg/L	No
Chlorpyrifos	2020/12/01	0.000183	mg/L	No
Diazinon	2020/12/01	0.000183	mg/L	No
Dicamba	2020/12/01	0.000352	mg/L	No
1,2-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/01	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/01	0.0003	mg/L	No
Dichloromethane	2020/12/01	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/01	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/01	0.000352	mg/L	No
Diclofop-methyl	2020/12/01	0.000117	mg/L	No
Dimethoate	2020/12/01	0.000183	mg/L	No
Diquat	2020/12/01	0.0003	mg/L	No
Diuron	2020/12/01	0.009	mg/L	No
Glyphosate	2020/12/01	0.02	mg/L	No
Malathion	2020/12/01	0.000183	mg/L	No
Metolachlor	2020/12/01	0.000122	mg/L	No
Metribuzin	2020/12/01	0.000122	mg/L	No
Monochlorobenzene	2020/12/01	0.0005	mg/L	No
Paraquat	2020/12/01	0.0003	mg/L	No
Pentachlorophenol	2020/12/01	0.0003	mg/L	No
Phorate	2020/12/01	0.000122	mg/L	No

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

Picloram	2020/12/01	0.0000821	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/01	0.00007	mg/L	No
Prometryne	2020/12/01	0.0000609	mg/L	No
Simazine	2020/12/01	0.000183	mg/L	No
Terbufos	2020/12/01	0.000122	mg/L	No
Tetrachloroethylene	2020/12/01	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/01	0.0003	mg/L	No
Triallate	2020/12/01	0.000122	mg/L	No
Trichloroethylene	2020/12/01	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/01	0.0002	mg/L	No
Trifluralin	2020/12/01	0.000122	mg/L	No
Vinyl Chloride	2020/12/01	0.0001	mg/L	No
MCPA	2020/12/01	0.00587	mg/L	No

FALCONBRIDGE WELL #6

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/01	0.00023	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/01	0.0005	mg/L	No
Azinphos-methyl	2020/12/01	0.000173	mg/L	No
Benzene	2020/12/01	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/01	0.00001	mg/L	No
Bromoxynil	2020/12/01	0.0000908	mg/L	No
Carbaryl	2020/12/01	0.001	mg/L	No
Carbofuran	2020/12/01	0.002	mg/L	No
Carbon Tetrachloride	2020/12/01	0.0002	mg/L	No
Chlorpyrifos	2020/12/01	0.000173	mg/L	No
Diazinon	2020/12/01	0.000173	mg/L	No
Dicamba	2020/12/01	0.000227	mg/L	No
1,2-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/01	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/01	0.0003	mg/L	No
Dichloromethane	2020/12/01	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/01	0.0003	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/01	0.000341	mg/L	No
Diclofop-methyl	2020/12/01	0.000114	mg/L	No
Dimethoate	2020/12/01	0.000173	mg/L	No
Diquat	2020/12/01	0.0002	mg/L	No
Diuron	2020/12/01	0.007	mg/L	No
Glyphosate	2020/12/01	0.02	mg/L	No
Malathion	2020/12/01	0.000173	mg/L	No
Metolachlor	2020/12/01	0.000115	mg/L	No
Metribuzin	2020/12/01	0.000115	mg/L	No
Monochlorobenzene	2020/12/01	0.0005	mg/L	No
Paraquat	2020/12/01	0.0002	mg/L	No
Pentachlorophenol	2020/12/01	0.0003	mg/L	No
Phorate	2020/12/01	0.000115	mg/L	No
Picloram	2020/12/01	0.0000795	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/01	0.00006	mg/L	No
Prometryne	2020/12/01	0.0000575	mg/L	No
Simazine	2020/12/01	0.000173	mg/L	No

Terbufos	2020/12/01	0.000115	mg/L	No
Tetrachloroethylene	2020/12/01	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/01	0.0003	mg/L	No
Triallate	2020/12/01	0.000115	mg/L	No
Trichloroethylene	2020/12/01	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/01	0.0003	mg/L	No
Trifluralin	2020/12/01	0.000115	mg/L	No
Vinyl Chloride	2020/12/01	0.0001	mg/L	No
MCPA	2020/12/01	0.00568	mg/L	No

FALCONBRIDGE WELL #7

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/01	0.000228	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/01	0.0005	mg/L	No
Azinphos-methyl	2020/12/01	0.000171	mg/L	No
Benzene	2020/12/01	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/01	0.00001	mg/L	No
Bromoxynil	2020/12/01	0.0000925	mg/L	No
Carbaryl	2020/12/01	0.002	mg/L	No
Carbofuran	2020/12/01	0.003	mg/L	No
Carbon Tetrachloride	2020/12/01	0.0002	mg/L	No
Chlorpyrifos	2020/12/01	0.000171	mg/L	No
Diazinon	2020/12/01	0.000171	mg/L	No
Dicamba	2020/12/01	0.000081	mg/L	No
1,2-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/01	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/01	0.0003	mg/L	No
Dichloromethane	2020/12/01	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/01	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/01	0.000347	mg/L	No
Diclofop-methyl	2020/12/01	0.000116	mg/L	No
Dimethoate	2020/12/01	0.000171	mg/L	No
Diquat	2020/12/01	0.0002	mg/L	No
Diuron	2020/12/01	0.009	mg/L	No
Glyphosate	2020/12/01	0.02	mg/L	No
Malathion	2020/12/01	0.000171	mg/L	No
Metolachlor	2020/12/01	0.000114	mg/L	No
Metribuzin	2020/12/01	0.000114	mg/L	No
Monochlorobenzene	2020/12/01	0.0005	mg/L	No
Paraquat	2020/12/01	0.0002	mg/L	No
Pentachlorophenol	2020/12/01	0.0003	mg/L	No
Phorate	2020/12/01	0.000114	mg/L	No
Picloram	2020/12/01	0.000081	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/01	0.00006	mg/L	No
Prometryne	2020/12/01	0.0000571	mg/L	No
Simazine	2020/12/01	0.000171	mg/L	No
Terbufos	2020/12/01	0.000114	mg/L	No
Tetrachloroethylene	2020/12/01	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/01	0.0003	mg/L	No
Triallate	2020/12/01	0.000114	mg/L	No

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

Trichloroethylene	2020/12/01	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/01	0.0002	mg/L	No
Trifluralin	2020/12/01	0.000114	mg/L	No
Vinyl Chloride	2020/12/01	0.0001	mg/L	No
MCPA	2020/12/01	0.00578	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	UOM	Date of Sample	Location

(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)



Section 3

Onaping/Levack Drinking Water System

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	220003519
Drinking-Water System Name:	Onaping-Levack Well Supply
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2020-01-01 To 2020-12-31

<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>
--	---

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

The Onaping/Levack system includes three drilled wells, Numbers 3, 4 and 5 with a common treatment building. Well pumps 3 and 4 are housed in a separate building while well pump 5 is situated in the treatment building. The treatment building provides chlorine gas injection for disinfection, fluoridation, chemical addition for corrosion control, Sodium Hydroxide for pH control and a stand-by power generator. Continuous analyzers for free chlorine residual, fluoride, turbidity and pH are monitored by an onsite PLC. The system is equipped with an elevated storage tank having re-chlorination capabilities, a Pressure Control /Booster building with stand-by power, a pressure sustaining valve, a distribution online continuous free chlorine analyzer and the distribution piping. 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, Hydrofluosilicic Acid UN#1778, Polyphosphate, Sodium Hydroxide UN#1824

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

AWQI #	Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
153213	2020/12/04	Sodium	109	mg/L	Resample	2020/12/04

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: WICKWAS WELL #3					
	53	0 to 0	0 to 2		
Raw: WICKWAS WELL #4					
	53	0 to 0	0 to 1		
Raw: WICKWAS WELL #5					
	53	0 to 0	0 to 0		
Treated: WICKWAS TREATED PUMPHOUSE					
	53	0 to 0	0 to 0	53	10 to 30
Distribution					
	166	0 to 0	0 to 0	44	10 to 20

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	0.66 - 3.95

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

WICKWAS TREATED PUMPHOUSE

Turbidity	8,760	0.01 - 10.0	NTU
Chlorine	8,760	0.63 - 3.98	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.04 - 1.30	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
2009/03/09	Sodium	2020/01/07	58.8	mg/L
2009/03/09	Sodium	2020/01/07	66.3	mg/L
2009/03/09	Sodium	2020/01/07	71.1	mg/L
2009/03/09	Sodium	2020/02/04	74.7	mg/L
2009/03/09	Sodium	2020/02/04	73.8	mg/L
2009/03/09	Sodium	2020/02/04	92.6	mg/L
2009/03/09	Sodium	2020/03/03	61	mg/L
2009/03/09	Sodium	2020/03/03	59.3	mg/L
2009/03/09	Sodium	2020/03/03	77	mg/L
2009/03/09	Sodium	2020/04/07	72.4	mg/L
2009/03/09	Sodium	2020/04/07	82.2	mg/L
2009/03/09	Sodium	2020/04/07	67.7	mg/L
2009/03/09	Sodium	2020/05/05	50.5	mg/L
2009/03/09	Sodium	2020/05/05	54.9	mg/L
2009/03/09	Sodium	2020/05/05	62.3	mg/L
2009/03/09	Sodium	2020/06/02	64.3	mg/L
2009/03/09	Sodium	2020/06/02	59.3	mg/L
2009/03/09	Sodium	2020/06/02	80.9	mg/L
2009/03/09	Sodium	2020/07/08	72.7	mg/L
2009/03/09	Sodium	2020/07/08	73.3	mg/L
2009/03/09	Sodium	2020/07/08	90.5	mg/L
2009/03/09	Sodium	2020/08/06	64.4	mg/L
2009/03/09	Sodium	2020/08/06	83.5	mg/L
2009/03/09	Sodium	2020/09/15	81.5	mg/L
2009/03/09	Sodium	2020/09/15	123	mg/L
2009/03/09	Sodium	2020/09/15	101	mg/L
2009/03/09	Sodium	2020/10/06	67.6	mg/L
2009/03/09	Sodium	2020/10/06	88.4	mg/L
2009/03/09	Sodium	2020/10/06	73.4	mg/L
2009/03/09	Sodium	2020/11/02	60.9	mg/L
2009/03/09	Sodium	2020/11/02	63.5	mg/L
2009/03/09	Sodium	2020/11/02	65.8	mg/L
2009/03/09	Sodium	2020/12/08	63.7	mg/L
2009/03/09	Sodium	2020/12/08	62.6	mg/L
2009/03/09	Sodium	2020/12/08	82.9	mg/L

WICKWAS TREATED PUMPHOUSE

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/04	0.0005	mg/L	No
Arsenic	2020/12/04	0.0013	mg/L	No
Barium	2020/12/04	0.0686	mg/L	No
Boron	2020/12/04	0.0098	mg/L	No
Cadmium	2020/12/04	0.0001	mg/L	No
Chromium	2020/12/04	0.001	mg/L	No
Mercury	2020/12/04	0.0001	mg/L	No
Selenium	2020/12/04	0.00065	mg/L	No
Uranium	2020/12/04	0.001	mg/L	No

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

Nitrite	2020/03/03	0.05	mg/L	No
	2020/06/02	0.05	mg/L	No
	2020/09/01	0.05	mg/L	No
	2020/12/04	0.05	mg/L	No
Nitrate	2020/03/03	0.93	mg/L	No
	2020/06/02	0.725	mg/L	No
	2020/09/01	0.78	mg/L	No
	2020/12/04	0.05	mg/L	No
Sodium	2020/12/04	109.00	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		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)	2020	0.0044	mg/L	No

WICKWAS TREATED PUMPHOUSE

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/04	0.000231	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/04	0.0005	mg/L	No
Azinphos-methyl	2020/12/04	0.000173	mg/L	No
Benzene	2020/12/04	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/04	0.00001	mg/L	No
Bromoxynil	2020/12/04	0.0000929	mg/L	No
Carbaryl	2020/12/04	0.002	mg/L	No
Carbofuran	2020/12/04	0.002	mg/L	No
Carbon Tetrachloride	2020/12/04	0.0002	mg/L	No
Chlorpyrifos	2020/12/04	0.000173	mg/L	No
Diazinon	2020/12/04	0.000173	mg/L	No
Dicamba	2020/12/04	0.0000813	mg/L	No
1,2-Dichlorobenzene	2020/12/04	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/04	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/04	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/04	0.0003	mg/L	No
Dichloromethane	2020/12/04	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/04	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/04	0.000349	mg/L	No

Diclofop-methyl	2020/12/04	0.000116	mg/L	No
Dimethoate	2020/12/04	0.000173	mg/L	No
Diquat	2020/12/04	0.0003	mg/L	No
Diuron	2020/12/04	0.008	mg/L	No
Glyphosate	2020/12/04	0.02	mg/L	No
Malathion	2020/12/04	0.000173	mg/L	No
Metolachlor	2020/12/04	0.000116	mg/L	No
Metribuzin	2020/12/04	0.000116	mg/L	No
Monochlorobenzene	2020/12/04	0.0005	mg/L	No
Paraquat	2020/12/04	0.0003	mg/L	No
Pentachlorophenol	2020/12/04	0.0003	mg/L	No
Phorate	2020/12/04	0.000116	mg/L	No
Picloram	2020/12/04	0.0000813	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/04	0.00006	mg/L	No
Prometryne	2020/12/04	0.0000578	mg/L	No
Simazine	2020/12/04	0.000173	mg/L	No
Terbufos	2020/12/04	0.000116	mg/L	No
Tetrachloroethylene	2020/12/04	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/04	0.0003	mg/L	No
Triallate	2020/12/04	0.000116	mg/L	No
Trichloroethylene	2020/12/04	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/04	0.0002	mg/L	No
Trifluralin	2020/12/04	0.000116	mg/L	No
Vinyl Chloride	2020/12/04	0.0001	mg/L	No
MCPA	2020/12/04	0.00581	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	UOM	Date of Sample	Location

(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)



Section 4

Sudbury Drinking Water System - Garson

Part III Form 2
Section 11. ANNUAL REPORT.

Drinking-Water System Number:	220003485
Drinking-Water System Name:	Sudbury Drinking Water System -Garson
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2020-01-01 To 2020-12-31

<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>
--	---

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

The Garson system includes three wells, Garson Well #2 located near the intersection of Spruce St. and Falconbridge Hwy., plus Garson Wells #1 & 3 located on Falconbridge Hwy. The system's wells take water from an unconfined aquifer in a sand and gravel formation at Garson Well #2, and a sand, gravel, boulder formation at Garson #1 & 3. All the well groundwater is disinfected by chlorination and fluoridated at the well sites before it enters the distribution system. A common chemical room and a chlorine contact chamber is installed at the Garson #1 & 3 site. Garson Well #2 includes an oversized pipe on discharge that provides chlorine contact time. Continuous analyzers for free chlorine residual, fluoride and turbidity are monitored by an onsite PLC. A standby power generator with an automatic transfer switch is located at the Garson #1 & 3 site. 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 distribution system includes an online continuous chlorine analyzer. In the case of a complete system failure, a pressure sustaining valve, at the corner of O'Neil Drive W. and Falconbridge Hwy, ensures a water supply to Garson by connecting the Garson and Sudbury/Wanapitei Systems. 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

Sodium Hypochlorite UN#1791, 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

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

AWQI #	Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
153193	2020/12/03	Sodium	67.7	mg/L	Resample	2020/12/03

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: GARSON WELL #1					
	52	0 to 0	0 to 0		
Raw: GARSON WELL #2					
	52	0 to 0	0 to 0		
Raw: GARSON WELL #3					
	52	0 to 0	0 to 0		
Treated: GARSON #1 & #3 WELL TREATED					
	52	0 to 0	0 to 0	52	10 to 10
Treated: GARSON #2 WELL TREATED					
	52	0 to 0	0 to 0	52	10 to 10
Distribution					
	213	0 to 0	0 to 0	51	10 to 370

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	0.08 - 2.95

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

GARSON #1 & #3 WELL TREATED

Turbidity	8,760	0.01 - 2.00	NTU
Chlorine	8,760	0.70 - 5.00	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.23 - 1.19	mg/L

GARSON #2 WELL TREATED

Turbidity	8,760	0.03 - 2.00	NTU
Chlorine	8,760	0.53 - 3.57	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.22	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

GARSON #1 & #3 WELL TREATED

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/03	0.0005	mg/L	No
Arsenic	2020/12/03	0.0027	mg/L	No
Barium	2020/12/03	0.0367	mg/L	No
Boron	2020/12/03	0.0059	mg/L	No
Cadmium	2020/12/03	0.0001	mg/L	No
Chromium	2020/12/03	0.001	mg/L	No
Mercury	2020/12/03	0.0001	mg/L	No
Selenium	2020/12/03	0.00027	mg/L	No
Uranium	2020/12/03	0.0013	mg/L	No
Nitrite	2020/03/02	0.05	mg/L	No
	2020/06/01	0.05	mg/L	No
	2020/08/31	0.05	mg/L	No
	2020/12/03	0.05	mg/L	No

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

Nitrate	2020/03/02	0.551	mg/L	No
	2020/06/01	0.676	mg/L	No
	2020/08/31	0.634	mg/L	No
	2020/12/03	0.582	mg/L	No
Sodium	2020/12/03	18.50	mg/L	No

GARSON #2 WELL TREATED

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/03	0.0005	mg/L	No
Arsenic	2020/12/03	0.0022	mg/L	No
Barium	2020/12/03	0.0382	mg/L	No
Boron	2020/12/03	0.0098	mg/L	No
Cadmium	2020/12/03	0.0001	mg/L	No
Chromium	2020/12/03	0.001	mg/L	No
Mercury	2020/12/03	0.0001	mg/L	No
Selenium	2020/12/03	0.0005	mg/L	No
Uranium	2020/12/03	0.0011	mg/L	No
Nitrite	2020/03/02	0.05	mg/L	No
	2020/06/01	0.05	mg/L	No
	2020/08/31	0.05	mg/L	No
	2020/12/03	0.05	mg/L	No
Nitrate	2020/03/02	0.919	mg/L	No
	2020/06/01	0.852	mg/L	No
	2020/08/31	0.853	mg/L	No
	2020/12/03	0.846	mg/L	No
Sodium	2020/12/03	67.70	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		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)	2020	0.0031	mg/L	No

GARSON #2 WELL TREATED

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/03	0.000236	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/03	0.0005	mg/L	No
Azinphos-methyl	2020/12/03	0.000177	mg/L	No

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

Benzene	2020/12/03	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/03	0.00001	mg/L	No
Bromoxynil	2020/12/03	0.000094	mg/L	No
Carbaryl	2020/12/03	0.002	mg/L	No
Carbofuran	2020/12/03	0.003	mg/L	No
Carbon Tetrachloride	2020/12/03	0.0002	mg/L	No
Chlorpyrifos	2020/12/03	0.000177	mg/L	No
Diazinon	2020/12/03	0.000177	mg/L	No
Dicamba	2020/12/03	0.0000822	mg/L	No
1,2-Dichlorobenzene	2020/12/03	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/03	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/03	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/03	0.0003	mg/L	No
Dichloromethane	2020/12/03	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/03	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/03	0.000352	mg/L	No
Diclofop-methyl	2020/12/03	0.000117	mg/L	No
Dimethoate	2020/12/03	0.000177	mg/L	No
Diquat	2020/12/03	0.0002	mg/L	No
Diuron	2020/12/03	0.01	mg/L	No
Glyphosate	2020/12/03	0.02	mg/L	No
Malathion	2020/12/03	0.000177	mg/L	No
Metolachlor	2020/12/03	0.000118	mg/L	No
Metribuzin	2020/12/03	0.000118	mg/L	No
Monochlorobenzene	2020/12/03	0.0005	mg/L	No
Paraquat	2020/12/03	0.0002	mg/L	No
Pentachlorophenol	2020/12/03	0.0003	mg/L	No
Phorate	2020/12/03	0.000118	mg/L	No
Picloram	2020/12/03	0.000176	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/03	0.00006	mg/L	No
Prometryne	2020/12/03	0.0000591	mg/L	No
Simazine	2020/12/03	0.000177	mg/L	No
Terbufos	2020/12/03	0.000118	mg/L	No
Tetrachloroethylene	2020/12/03	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/03	0.0003	mg/L	No
Triallate	2020/12/03	0.000118	mg/L	No
Trichloroethylene	2020/12/03	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/03	0.0002	mg/L	No
Trifluralin	2020/12/03	0.000118	mg/L	No
Vinyl Chloride	2020/12/03	0.0001	mg/L	No
MCPA	2020/12/03	0.00587	mg/L	No

GARSON #1 & #3 WELL TREATED

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/03	0.000251	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/03	0.0005	mg/L	No
Azinphos-methyl	2020/12/03	0.000188	mg/L	No
Benzene	2020/12/03	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/03	0.00001	mg/L	No
Bromoxynil	2020/12/03	0.0000966	mg/L	No
Carbaryl	2020/12/03	0.001	mg/L	No

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

Carbofuran	2020/12/03	0.002	mg/L	No
Carbon Tetrachloride	2020/12/03	0.0002	mg/L	No
Chlorpyrifos	2020/12/03	0.000188	mg/L	No
Diazinon	2020/12/03	0.000188	mg/L	No
Dicamba	2020/12/03	0.0000845	mg/L	No
1,2-Dichlorobenzene	2020/12/03	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/03	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/03	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/03	0.0003	mg/L	No
Dichloromethane	2020/12/03	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/03	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/03	0.000362	mg/L	No
Diclofop-methyl	2020/12/03	0.000121	mg/L	No
Dimethoate	2020/12/03	0.000188	mg/L	No
Diquat	2020/12/03	0.0002	mg/L	No
Diuron	2020/12/03	0.006	mg/L	No
Glyphosate	2020/12/03	0.02	mg/L	No
Malathion	2020/12/03	0.000188	mg/L	No
Metolachlor	2020/12/03	0.000125	mg/L	No
Metribuzin	2020/12/03	0.000125	mg/L	No
Monochlorobenzene	2020/12/03	0.0005	mg/L	No
Paraquat	2020/12/03	0.0002	mg/L	No
Pentachlorophenol	2020/12/03	0.0003	mg/L	No
Phorate	2020/12/03	0.000125	mg/L	No
Picloram	2020/12/03	0.0000845	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/03	0.00006	mg/L	No
Prometryne	2020/12/03	0.0000627	mg/L	No
Simazine	2020/12/03	0.000188	mg/L	No
Terbufos	2020/12/03	0.000125	mg/L	No
Tetrachloroethylene	2020/12/03	0.0027	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/03	0.0003	mg/L	No
Triallate	2020/12/03	0.000125	mg/L	No
Trichloroethylene	2020/12/03	0.0007	mg/L	No
2,4,6-Trichlorophenol	2020/12/03	0.0002	mg/L	No
Trifluralin	2020/12/03	0.000125	mg/L	No
Vinyl Chloride	2020/12/03	0.0001	mg/L	No
MCPA	2020/12/03	0.00604	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	UOM	Date of Sample	Location

(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)



Section 5

Sudbury Drinking Water System – David WTP

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	220003537
Drinking-Water System Name:	Sudbury Drinking Water System - David St.
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2020-01-01 To 2020-12-31

<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 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><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>
--	---

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
Sudbury Drinking Water System - Wanapitei	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 David St. Water Treatment Plant 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 as well as supplying water to the Ellis reservoir. 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 includes an online continuous chlorine analyzer & related appurtenances. The plant is in full treatment 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

Sodium Hypochlorite UN#1791, Hydrofluosilicic Acid UN#1778, Polyphosphate, Sodium Hydroxide UN#1824, Sodium Bisulfate UN#2693, Citric Acid UN#3625, Sodium Permanganate UN#3214

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

1)Pumps, Valves and UV System Repairs - \$121 500

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

AWQI #	Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
149897	2020/02/21	HFS	1.54	mg/L	Pump was off	2020/02/29
150013	2020/05/21	Chlorine Residual	0.03	mg/L	Flushed Hydrants	2020/05/22
153162	2020/11/30	Sodium	54.1	mg/L	Resample	2020/12/04
153326	2020/12/25	Pressure	>20	PSI	Flushed Hydrants	2020/12/25

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: RAMSEY LAKE					
	52	0 to 64	0 to 474		
Treated: SUDBURY (DAVID ST) Water Treatment Plant					
	52	0 to 0	0 to 0	52	10 to 10
Distribution					
	1,379	0 to 0	0 to 0	326	10 to 340

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	0.13 - 1.73

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

Drinking-Water Systems Regulation O. Reg. 170/03
SUDBURY (DAVID ST) Water Treatment Plant

Turbidity	8,760	0.01 - 5.00	NTU
Chlorine	5,760	0.67 - 2.89	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.06 - 2.02	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

SUDBURY (DAVID ST) Water Treatment Plant

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/11/30	0.0005	mg/L	No
Arsenic	2020/11/30	0.002	mg/L	No
Barium	2020/11/30	0.0137	mg/L	No
Boron	2020/11/30	0.0097	mg/L	No
Cadmium	2020/11/30	0.0001	mg/L	No
Chromium	2020/11/30	0.001	mg/L	No
Mercury	2020/11/30	0.0001	mg/L	No
Selenium	2020/11/30	0.001	mg/L	No
Uranium	2020/11/30	0.001	mg/L	No
Nitrite	2020/03/02	0.05	mg/L	No
	2020/06/01	0.05	mg/L	No
	2020/08/31	0.05	mg/L	No
	2020/11/30	0.05	mg/L	No
Nitrate	2020/03/02	0.05	mg/L	No
	2020/06/01	0.05	mg/L	No
	2020/08/31	0.084	mg/L	No
	2020/11/30	0.05	mg/L	No
Sodium	2020/01/13	52.20	mg/L	Yes
	2020/02/03	55.00	mg/L	Yes
	2020/02/10	57.80	mg/L	Yes
	2020/11/30	54.10	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	44	0.0001 - 0.0055 mg/L	0
Distribution	8	0.0001 - 0.0003 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)	2020	0.0707	mg/L	No

SUDBURY (DAVID ST) Water Treatment Plant

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/11/30	0.000248	mg/L	No
Atrazine + N-dealkylated metabolites	2020/11/30	0.0005	mg/L	No
Azinphos-methyl	2020/11/30	0.000186	mg/L	No
Benzene	2020/11/30	0.0001	mg/L	No
Benzo(a)pyrene	2020/11/30	0.000009	mg/L	No
Bromoxynil	2020/11/30	0.0000937	mg/L	No
Carbaryl	2020/11/30	0.001	mg/L	No
Carbofuran	2020/11/30	0.002	mg/L	No
Carbon Tetrachloride	2020/11/30	0.0002	mg/L	No
Chlorpyrifos	2020/11/30	0.000186	mg/L	No
Diazinon	2020/11/30	0.000186	mg/L	No
Dicamba	2020/11/30	0.000082	mg/L	No
1,2-Dichlorobenzene	2020/11/30	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/11/30	0.0003	mg/L	No
1,2-Dichloroethane	2020/11/30	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/11/30	0.0003	mg/L	No
Dichloromethane	2020/11/30	0.001	mg/L	No
2-4 Dichlorophenol	2020/11/30	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/11/30	0.000351	mg/L	No
Diclofop-methyl	2020/11/30	0.000117	mg/L	No
Dimethoate	2020/11/30	0.000186	mg/L	No
Diquat	2020/11/30	0.0002	mg/L	No
Diuron	2020/11/30	0.006	mg/L	No
Glyphosate	2020/11/30	0.02	mg/L	No
Malathion	2020/11/30	0.000186	mg/L	No
Metolachlor	2020/11/30	0.000124	mg/L	No
Metribuzin	2020/11/30	0.000124	mg/L	No
Monochlorobenzene	2020/11/30	0.0005	mg/L	No
Paraquat	2020/11/30	0.0002	mg/L	No
Pentachlorophenol	2020/11/30	0.0003	mg/L	No
Phorate	2020/11/30	0.000124	mg/L	No
Picloram	2020/11/30	0.000082	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/11/30	0.00006	mg/L	No
Prometryne	2020/11/30	0.0000621	mg/L	No
Simazine	2020/11/30	0.000186	mg/L	No
Terbufos	2020/11/30	0.000124	mg/L	No
Tetrachloroethylene	2020/11/30	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/11/30	0.0003	mg/L	No
Triallate	2020/11/30	0.000124	mg/L	No
Trichloroethylene	2020/11/30	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/11/30	0.0002	mg/L	No
Trifluralin	2020/11/30	0.000124	mg/L	No

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

Vinyl Chloride	2020/11/30	0.0001	mg/L	No
MCPA	2020/11/30	0.00586	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	UOM	Date of Sample	Location

(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)



Section 6

Sudbury Drinking Water System – Wanapitei WTP

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	210001111
Drinking-Water System Name:	Sudbury Drinking Water System - Wanapitei
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2020-01-01 To 2020-12-31

<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 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><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>
--	---

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
Markstay-Warren	220013606
Sudbury Drinking Water System - Garson	220003485
Sudbury Drinking Water System - David St.	220003537

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 Wanapitei Water Treatment Plant is a surface water plant which draws water from the Wanapitei River. Proportionally, the plant services approximately 60% of Sudbury, with the water being produced supplying the northeastern and northwestern areas of the City but includes Markstay, Coniston and parts of Garson (west of Falconbridge Road at O'Neil Drive) as well as supplying water to the Ellis Reservoir. The raw water is pumped from the Wanapitei River via the Wanapitei intake, a concrete intake structure that protrudes into the Wanapitei River. The raw intake pumphouse is situated north of Hwy. 17, in the community of Wahnapitae. The raw water passes through a coarse aluminum bar screen then through two finer stainless steel screens inside the station before being pumped to the treatment plant to the west. The Wanapitei WTP utilizes a conventional water treatment process complete with Coagulation / Flocculation, Sedimentation and Filtration by dual media filters. Chlorine and/or Chlorine Dioxide are used for disinfection purposes and Ultra-Violet irradiation was added to the end of the process in 2010. Corrosion control, pH adjustment plus the addition of fluoride complete the process. The distribution system includes an online continuous chlorine analyzer & various other appurtenances. The plant is in full treatment compliance with O. Reg. 170/03.

List all water treatment chemicals used over this reporting period

Chlorine Gas UN#1017, Hydrofluosilicic Acid UN#1778, Polyphosphate, Sodium Chlorite UN#1908, PAS-Aluminum Sulfate UN#3264, Hydrated Lime, Polyelectrolyte, Chlorine Dioxide (generated onsite)

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

- 1) Second Blower Installation - \$184 000
- 2) Reactivator Repair - \$29 200
- 3) Chemical and UV System Repairs - \$78 500

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

AWQI #	Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date

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: WANAPITEI RIVER					
	52	0 to 50	0 to 340		
Treated: HL PUMP STATION, Sudbury (Wanapitei) WTP					
	52	0 to 0	0 to 0	52	0 to 30
Distribution					
	1,379	0 to 10	0 to 110	326	10 to 60

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	0.13 - 1.73

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

HL PUMP STATION, Sudbury (Wanapitei) WTP

Turbidity	8,760	0.00 - 1.92	NTU
Chlorine	8,760	0.00 - 3.45	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.00 - 1.32	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

HL PUMP STATION, Sudbury (Wanapitei) WTP

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/01	0.0005	mg/L	No
Arsenic	2020/12/01	0.001	mg/L	No
Barium	2020/12/01	0.0123	mg/L	No
Boron	2020/12/01	0.0025	mg/L	No
Cadmium	2020/12/01	0.0001	mg/L	No
Chromium	2020/12/01	0.001	mg/L	No
Mercury	2020/12/01	0.0001	mg/L	No
Selenium	2020/12/01	0.0002	mg/L	No
Uranium	2020/12/01	0.001	mg/L	No
Nitrite	2020/03/03	0.05	mg/L	No
	2020/06/02	0.05	mg/L	No
	2020/08/31	0.05	mg/L	No
	2020/12/01	0.05	mg/L	No
Nitrate	2020/03/03	0.14	mg/L	No
	2020/06/02	0.13	mg/L	No
	2020/08/31	0.068	mg/L	No
	2020/12/01	0.16	mg/L	No
Sodium	2020/12/01	1.61	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	44	0.0001 - 0.0369 mg/L	1
Distribution	8	0.0001 - 0.00018 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)	2020	0.0555	mg/L	No

HL PUMP STATION, Sudbury (Wanapitei) WTP

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/01	0.000237	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/01	0.0005	mg/L	No
Azinphos-methyl	2020/12/01	0.000178	mg/L	No
Benzene	2020/12/01	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/01	0.00001	mg/L	No
Bromoxynil	2020/12/01	0.000119	mg/L	No
Carbaryl	2020/12/01	0.002	mg/L	No
Carbofuran	2020/12/01	0.003	mg/L	No
Carbon Tetrachloride	2020/12/01	0.0002	mg/L	No
Chlorpyrifos	2020/12/01	0.000178	mg/L	No
Diazinon	2020/12/01	0.000178	mg/L	No
Dicamba	2020/12/01	0.000083	mg/L	No
1,2-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/01	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/01	0.0003	mg/L	No
Dichloromethane	2020/12/01	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/01	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/01	0.000356	mg/L	No
Diclofop-methyl	2020/12/01	0.000119	mg/L	No
Dimethoate	2020/12/01	0.000178	mg/L	No
Diquat	2020/12/01	0.0002	mg/L	No
Diuron	2020/12/01	0.009	mg/L	No
Glyphosate	2020/12/01	0.02	mg/L	No
Malathion	2020/12/01	0.000178	mg/L	No
Metolachlor	2020/12/01	0.000119	mg/L	No
Metribuzin	2020/12/01	0.000119	mg/L	No
Monochlorobenzene	2020/12/01	0.0005	mg/L	No
Paraquat	2020/12/01	0.0002	mg/L	No
Pentachlorophenol	2020/12/01	0.0003	mg/L	No
Phorate	2020/12/01	0.000119	mg/L	No
Picloram	2020/12/01	0.000083	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/01	0.00006	mg/L	No
Prometryne	2020/12/01	0.0000593	mg/L	No
Simazine	2020/12/01	0.000178	mg/L	No
Terbufos	2020/12/01	0.000119	mg/L	No
Tetrachloroethylene	2020/12/01	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/01	0.0003	mg/L	No
Triallate	2020/12/01	0.000119	mg/L	No
Trichloroethylene	2020/12/01	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/01	0.0002	mg/L	No
Trifluralin	2020/12/01	0.000119	mg/L	No
Vinyl Chloride	2020/12/01	0.0001	mg/L	No
MCPA	2020/12/01	0.00593	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	UOM	Date of Sample	Location

(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)



Section 7

Bleazard Valley – Capreol Drinking Water System

Part III Form 2
Section 11. ANNUAL REPORT.

Drinking-Water System Number:	210000737
Drinking-Water System Name:	Blezard Valley - Capreol Well Supply
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2020-01-01 To 2020-12-31

<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 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><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>
--	---

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

The system includes nine Blezard Valley wells, which extend in a well field from Val Therese to Hanmer and two Capreol Wells adjacent to Greens Lake. All of the groundwater wells undergo primary treatment in the form of Ultra-Violet irradiation, secondary disinfection by chlorination, and fluoridation. The Capreol wells also include chemical addition for corrosion control. Continuous analyzers for free chlorine residual, fluoride, turbidity and UV equipment are monitored at each well by onsite PLC's. A standby power generator with an automatic transfer switch is located at several of the wells. In the event that the Capreol wells fail, the Valley wells can supply water to the Capreol Boosters located onsite. In the event that the entire system of wells and boosters fail, water will continue to be supplied from the three storage facilities, but at a reduced pressure. Three water storage tanks are situated in Azilda, Chelmsford and Val Caron and all distribution piping completes the system. The Blezard Valley distribution includes an online continuous chlorine analyzer and encompasses the communities of Chelmsford, Azilda, McCrea Heights, Blezard Valley, Val Caron, Val Therese, Hanmer and Capreol. 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, Hydrofluosilicic Acid UN#1778, Polyphosphate

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

1) Booster Station Upgrades - \$140 000
 2) Chlorine and UV Systems Repairs - \$126 000

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

AWQI #	Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
149630	2020/02/23	HFS	1.55	mg/L	Flush to Waste/Retest	2020/02/23
149972	2020/05/13	HFS	1.52	mg/L	Retest	2020/05/13
150071	2020/05/28	HFS	1.83	mg/L	Retest	2020/05/28
150552	2020/07/07	Pressure	>20	PSI	Test Chlorine Res	2020/07/07
150606	2020/07/10	HFS	2	mg/L	Retest	2020/07/10
152501	2020/10/08	HFS	1.95	mg/L	New PS Valve Installed	2020/10/08
152625	2020/10/20	HFS	1.71	mg/L	Lowered Dosage	2020/10/20
152767	2020/10/21	HFS	2	mg/L	Flushed/Lowered Dosage	2020/10/29
153163	2020/11/30	Sodium	26.1	mg/L	Resample	2020/12/04
153166	2020/12/01	Sodium	21.6	mg/L	Resample	2020/12/04
153122	2020/12/01	Pressure	>20	PSI	Flushed Hydrants/Retest	2020/12/01
153591	2020/12/02	Sodium	96.9	mg/L	Resample	2021/02/19
153176	2020/12/04	HFS	1.74	mg/L	Flushed to Waste	2020/12/04

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: WELL A -DESCHENE WELL					
	42	0 to 0	0 to 0		
Raw: WELL B- KENNETH WELL					
	52	0 to 0	0 to 0		
Raw: WELL C -PHILIPPE WELL					
	52	0 to 0	0 to 0		
Raw: WELL D -FROST WELL					
	52	0 to 0	0 to 0		
Raw: WELL E -NOTRE DAME					
	52	0 to 0	0 to 0		
Raw: WELL F -LINDEN WELL					
	53	0 to 0	0 to 0		
Raw: WELL G -PHARAND WELL					
	52	0 to 0	0 to 5		
Raw: WELL H -MICHELLE WELL					
	53	0 to 0	0 to 6		
Raw: WELL I -I WELL					
	0				
Raw: WELL J - GREEN LAKE					
	45	0 to 0	0 to 0		
Raw: WELL M - GREEN LAKE					
	49	0 to 0	0 to 1		
Raw: WELL Q - CHENIER					
	52	0 to 0	0 to 0		
Raw: WELL R					
	52	0 to 0	0 to 0		

Treated: CAPREOL WELL SUPPLY - WELL M&J					
	95	0 to 0	0 to 0	95	10 to 20
Treated: WELL A - DESCHENE WELL					
	42	0 to 0	0 to 0	42	10 to 110
Treated: WELL B - KENNETH WELL					
	52	0 to 0	0 to 0	52	10 to 20
Treated: WELL C - PHILIPPE WELL					
	52	0 to 0	0 to 0	52	10 to 10
Treated: WELL D - FROST WELL					
	52	0 to 0	0 to 0	52	10 to 10
Treated: WELL E - NOTRE DAME WELL					
	52	0 to 0	0 to 0	52	0 to 10
Treated: WELL F - LINDEN WELL					
	53	0 to 0	0 to 0	53	10 to 10
Treated: WELL G - PHARAND WELL					
	52	0 to 0	0 to 0	52	10 to 310
Treated: WELL H - MICHELLE WELL					
	53	0 to 0	0 to 0	53	10 to 10
Treated: WELL I - I WELL					
	0			0	
Treated: WELL Q- CHENIER					
	52	0 to 0	0 to 0	52	10 to 20
Treated: WELL R					
	52	0 to 0	0 to 0	52	0 to 30
Distribution					
	582	0 to 0	0 to 0	147	10 to 1740

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	0.31- 2.47

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

CAPREOL WELL SUPPLY - WELL M&J

Turbidity	8,760	0.00 - 2.00	NTU
Chlorine	8,760	0.00 - 5.00	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.00 - 2.00	mg/L

WELL A - DESCHENE WELL

Turbidity	8,760	0.02 - 2.00	NTU
Chlorine	8,760	0.55 - 3.89	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.71	mg/L

WELL B - KENNETH WELL

Turbidity	8,760	0.00 - 2.00	NTU
Chlorine	8,760	0.05 - 4.51	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 0.90	mg/L

WELL C - PHILIPPE WELL

Turbidity	8,760	0.02 - 0.62	NTU
Chlorine	8,760	0.55 - 4.76	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.01	mg/L

WELL D - FROST WELL

Turbidity	8,760	0.00 - 0.94	NTU
Chlorine	8,760	0.65 - 3.35	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.46	mg/L

WELL E - NOTRE DAME WELL

Turbidity	8,760	0.01 - 2.00	NTU
Chlorine	8,760	0.55 - 2.45	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.21	mg/L

WELL F - LINDEN WELL

Turbidity	8,760	0.02 - 2.00	NTU
Chlorine	8,760	0.54 - 5.00	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.95	mg/L

WELL G - PHARAND WELL

Turbidity	8,760	0.03 - 2.00	NTU
Chlorine	8,760	0.59 - 3.40	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.30	mg/L

WELL H - MICHELLE WELL

Turbidity	8,760	0.02 - 2.00	NTU
Chlorine	8,760	0.55 - 2.65	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.85	mg/L

WELL I - I WELL

Turbidity			
Chlorine			
Fluoride (If the DWS provides fluoridation)			

WELL Q- CHENIER

Turbidity	8,760	0.01 - 0.87	NTU
Chlorine	8,760	0.27 - 4.81	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.04 - 1.47	mg/L

WELL R

Turbidity	8,760	0.02 - 2.15	NTU
Chlorine	8,760	0.11 - 3.12	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.01 - 1.07	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

WELL A - DESCHENE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/01	0.0005	mg/L	No
Arsenic	2020/12/01	0.001	mg/L	No
Barium	2020/12/01	0.0146	mg/L	No
Boron	2020/12/01	0.013	mg/L	No
Cadmium	2020/12/01	0.0001	mg/L	No
Chromium	2020/12/01	0.0018	mg/L	No
Mercury	2020/12/01	0.0001	mg/L	No
Selenium	2020/12/01	0.0002	mg/L	No
Uranium	2020/12/01	0.001	mg/L	No
Nitrite	2020/03/02	0.05	mg/L	No
	2020/06/01	0.05	mg/L	No
	2020/08/31	0.05	mg/L	No
	2020/12/01	0.05	mg/L	No

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

Nitrate	2020/03/02	2.66	mg/L	No
	2020/06/01	2.25	mg/L	No
	2020/08/31	2.37	mg/L	No
	2020/12/01	2.85	mg/L	No
Sodium	2020/12/01	18.20	mg/L	No

WELL B - KENNETH WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/01	0.0005	mg/L	No
Arsenic	2020/12/01	0.001	mg/L	No
Barium	2020/12/01	0.0475	mg/L	No
Boron	2020/12/01	0.0223	mg/L	No
Cadmium	2020/12/01	0.0001	mg/L	No
Chromium	2020/12/01	0.002	mg/L	No
Mercury	2020/12/01	0.0001	mg/L	No
Selenium	2020/12/01	0.00021	mg/L	No
Uranium	2020/12/01	0.001	mg/L	No
Nitrite	2020/03/02	0.05	mg/L	No
	2020/06/01	0.05	mg/L	No
	2020/08/31	0.05	mg/L	No
	2020/12/01	0.05	mg/L	No
Nitrate	2020/03/02	0.41	mg/L	No
	2020/06/01	0.47	mg/L	No
	2020/08/31	0.48	mg/L	No
	2020/12/01	0.598	mg/L	No
Sodium	2020/12/01	21.60	mg/L	Yes

WELL C - PHILIPPE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/02	0.0005	mg/L	No
Arsenic	2020/12/02	0.0011	mg/L	No
Barium	2020/12/02	0.008	mg/L	No
Boron	2020/12/02	0.0037	mg/L	No
Cadmium	2020/12/02	0.0001	mg/L	No
Chromium	2020/12/02	0.001	mg/L	No
Mercury	2020/12/02	0.0001	mg/L	No
Selenium	2020/12/02	0.00027	mg/L	No
Uranium	2020/12/02	0.001	mg/L	No
Nitrite	2020/03/02	0.05	mg/L	No
	2020/06/01	0.05	mg/L	No
	2020/09/01	0.05	mg/L	No
	2020/12/02	0.05	mg/L	No
Nitrate	2020/03/02	0.29	mg/L	No
	2020/06/01	0.13	mg/L	No
	2020/09/01	0.28	mg/L	No
	2020/12/02	0.32	mg/L	No
Sodium	2020/12/02	11.70	mg/L	No

WELL D - FROST WELL

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/02	0.0005	mg/L	No
Arsenic	2020/12/02	0.0014	mg/L	No
Barium	2020/12/02	0.0353	mg/L	No
Boron	2020/12/02	0.0065	mg/L	No
Cadmium	2020/12/02	0.0001	mg/L	No
Chromium	2020/12/02	0.001	mg/L	No
Mercury	2020/12/02	0.0001	mg/L	No
Selenium	2020/12/02	0.0015	mg/L	No
Uranium	2020/12/02	0.001	mg/L	No
Nitrite	2020/03/02	0.05	mg/L	No
	2020/06/01	0.05	mg/L	No
	2020/09/01	0.05	mg/L	No
	2020/12/02	0.05	mg/L	No
Nitrate	2020/03/02	0.746	mg/L	No
	2020/06/01	0.719	mg/L	No
	2020/09/01	0.814	mg/L	No
	2020/12/02	0.791	mg/L	No
Sodium	2020/12/02	21.80	mg/L	Yes

WELL E - NOTRE DAME WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/11/30	0.0005	mg/L	No
Arsenic	2020/11/30	0.001	mg/L	No
Barium	2020/11/30	0.0149	mg/L	No
Boron	2020/11/30	0.0086	mg/L	No
Cadmium	2020/11/30	0.0001	mg/L	No
Chromium	2020/11/30	0.001	mg/L	No
Mercury	2020/11/30	0.0001	mg/L	No
Selenium	2020/11/30	0.00048	mg/L	No
Uranium	2020/11/30	0.001	mg/L	No
Nitrite	2020/03/03	0.05	mg/L	No
	2020/06/03	0.05	mg/L	No
	2020/09/01	0.05	mg/L	No
	2020/11/30	0.05	mg/L	No
Nitrate	2020/03/03	1.25	mg/L	No
	2020/06/03	1.59	mg/L	No
	2020/09/01	1.54	mg/L	No
	2020/11/30	2.13	mg/L	No
Sodium	2020/11/30	11.70	mg/L	No

WELL F - LINDEN WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
-----------	-------------	--------------	-----------------	------------

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

Antimony	2020/11/30	0.0005	mg/L	No
Arsenic	2020/11/30	0.0019	mg/L	No
Barium	2020/11/30	0.023	mg/L	No
Boron	2020/11/30	0.005	mg/L	No
Cadmium	2020/11/30	0.0001	mg/L	No
Chromium	2020/11/30	0.001	mg/L	No
Mercury	2020/11/30	0.0001	mg/L	No
Selenium	2020/11/30	0.00036	mg/L	No
Uranium	2020/11/30	0.001	mg/L	No
Nitrite	2020/03/03	0.05	mg/L	No
	2020/06/02	0.05	mg/L	No
	2020/09/03	0.05	mg/L	No
	2020/11/30	0.05	mg/L	No
Nitrate	2020/03/03	0.29	mg/L	No
	2020/06/02	0.28	mg/L	No
	2020/09/03	0.28	mg/L	No
	2020/11/30	0.32	mg/L	No
Sodium	2020/11/30	14.20	mg/L	No

WELL G - PHARAND WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/02	0.00084	mg/L	No
Arsenic	2020/12/02	0.001	mg/L	No
Barium	2020/12/02	0.0587	mg/L	No
Boron	2020/12/02	0.015	mg/L	No
Cadmium	2020/12/02	0.0001	mg/L	No
Chromium	2020/12/02	0.001	mg/L	No
Mercury	2020/12/02	0.0001	mg/L	No
Selenium	2020/12/02	0.00096	mg/L	No
Uranium	2020/12/02	0.001	mg/L	No
Nitrite	2020/03/03	0.05	mg/L	No
	2020/06/02	0.05	mg/L	No
	2020/09/01	0.05	mg/L	No
	2020/12/02	0.05	mg/L	No
Nitrate	2020/03/03	2.78	mg/L	No
	2020/06/02	3.42	mg/L	No
	2020/09/01	3.33	mg/L	No
	2020/12/02	4.1	mg/L	No
Sodium	2020/12/02	96.90	mg/L	Yes

WELL H - MICHELLE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/02	0.00099	mg/L	No
Arsenic	2020/12/02	0.001	mg/L	No
Barium	2020/12/02	0.0182	mg/L	No
Boron	2020/12/02	0.007	mg/L	No
Cadmium	2020/12/02	0.0001	mg/L	No
Chromium	2020/12/02	0.001	mg/L	No
Mercury	2020/12/02	0.0001	mg/L	No
Selenium	2020/12/02	0.0015	mg/L	No

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

Uranium	2020/12/02	0.001	mg/L	No
Nitrite	2020/03/03	0.05	mg/L	No
	2020/06/02	0.05	mg/L	No
	2020/09/01	0.05	mg/L	No
	2020/12/02	0.05	mg/L	No
Nitrate	2020/03/03	1.52	mg/L	No
	2020/06/02	1.49	mg/L	No
	2020/09/01	1.4	mg/L	No
	2020/12/02	2.03	mg/L	No
Sodium	2020/12/02	37.50	mg/L	Yes

WELL I - I WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony				
Arsenic				
Barium				
Boron				
Cadmium				
Chromium				
Mercury				
Selenium				
Uranium				
Nitrite				
Nitrate				
Sodium				

WELL J - Capreol

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/08	0.0005	mg/L	No
Arsenic	2020/12/08	0.001	mg/L	No
Barium	2020/12/08	0.0152	mg/L	No
Boron	2020/12/08	0.0035	mg/L	No
Cadmium	2020/12/08	0.0001	mg/L	No
Chromium	2020/12/08	0.001	mg/L	No
Mercury	2020/12/08	0.0001	mg/L	No
Selenium	2020/12/08	0.00026	mg/L	No
Uranium	2020/12/08	0.001	mg/L	No
Nitrite	2020/03/03	0.05	mg/L	No
	2020/06/03	0.05	mg/L	No
	2020/09/02	0.05	mg/L	No
	2020/12/08	0.05	mg/L	No

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

Nitrate	2020/03/03	0.05	mg/L	No
	2020/06/03	0.05	mg/L	No
	2020/09/02	0.05	mg/L	No
	2020/12/08	0.05	mg/L	No
Sodium	2020/12/08	6.54	mg/L	No

WELL M - Capreol

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/08	0.00094	mg/L	No
Arsenic	2020/12/08	0.001	mg/L	No
Barium	2020/12/08	0.032	mg/L	No
Boron	2020/12/08	0.004	mg/L	No
Cadmium	2020/12/08	0.0001	mg/L	No
Chromium	2020/12/08	0.001	mg/L	No
Mercury	2020/12/08	0.0001	mg/L	No
Selenium	2020/12/08	0.00043	mg/L	No
Uranium	2020/12/08	0.001	mg/L	No
Nitrite	2020/03/03	0.05	mg/L	No
	2020/06/03	0.05	mg/L	No
	2020/09/02	0.05	mg/L	No
	2020/12/08	0.05	mg/L	No
Nitrate	2020/03/03	0.05	mg/L	No
	2020/06/03	0.05	mg/L	No
	2020/09/02	0.05	mg/L	No
	2020/12/08	0.05	mg/L	No
Sodium	2020/12/08	7.97	mg/L	No

WELL Q- CHENIER

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/11/30	0.0005	mg/L	No
Arsenic	2020/11/30	0.001	mg/L	No
Barium	2020/11/30	0.0242	mg/L	No
Boron	2020/11/30	0.0091	mg/L	No
Cadmium	2020/11/30	0.0001	mg/L	No
Chromium	2020/11/30	0.001	mg/L	No
Mercury	2020/11/30	0.0001	mg/L	No
Selenium	2020/11/30	0.00041	mg/L	No
Uranium	2020/11/30	0.001	mg/L	No
Nitrite	2020/03/03	0.05	mg/L	No
	2020/06/03	0.05	mg/L	No
	2020/09/01	0.05	mg/L	No
	2020/11/30	0.05	mg/L	No
Nitrate	2020/03/03	1.19	mg/L	No
	2020/06/03	1.42	mg/L	No
	2020/09/01	1.4	mg/L	No
	2020/11/30	1.75	mg/L	No
Sodium	2020/11/30	15.10	mg/L	No

WELL R

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/11/30	0.0005	mg/L	No
Arsenic	2020/11/30	0.001	mg/L	No
Barium	2020/11/30	0.023	mg/L	No
Boron	2020/11/30	0.0055	mg/L	No
Cadmium	2020/11/30	0.0001	mg/L	No
Chromium	2020/11/30	0.001	mg/L	No
Mercury	2020/11/30	0.0001	mg/L	No
Selenium	2020/11/30	0.00023	mg/L	No
Uranium	2020/11/30	0.001	mg/L	No
Nitrite	2020/03/03	0.05	mg/L	No
	2020/06/04	0.05	mg/L	No
	2020/09/02	0.05	mg/L	No
	2020/11/30	0.05	mg/L	No
Nitrate	2020/03/03	0.29	mg/L	No
	2020/06/04	0.31	mg/L	No
	2020/09/02	0.35	mg/L	No
	2020/11/30	0.33	mg/L	No
Sodium	2020/11/30	26.10	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		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)	2020	0.0111	mg/L	No

WELLA - DESCHENE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/01	0.000235	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/01	0.0005	mg/L	No
Azinphos-methyl	2020/12/01	0.000176	mg/L	No
Benzene	2020/12/01	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/01	0.00001	mg/L	No
Bromoxynil	2020/12/01	0.000127	mg/L	No
Carbaryl	2020/12/01	0.002	mg/L	No
Carbofuran	2020/12/01	0.003	mg/L	No
Carbon Tetrachloride	2020/12/01	0.0002	mg/L	No
Chlorpyrifos	2020/12/01	0.000176	mg/L	No
Diazinon	2020/12/01	0.000176	mg/L	No

Dicamba	2020/12/01	0.000317	mg/L	No
1,2-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/01	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/01	0.0003	mg/L	No
Dichloromethane	2020/12/01	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/01	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/01	0.00038	mg/L	No
Diclofop-methyl	2020/12/01	0.000127	mg/L	No
Dimethoate	2020/12/01	0.000176	mg/L	No
Diquat	2020/12/01	0.0002	mg/L	No
Diuron	2020/12/01	0.008	mg/L	No
Glyphosate	2020/12/01	0.02	mg/L	No
Malathion	2020/12/01	0.000176	mg/L	No
Metolachlor	2020/12/01	0.000117	mg/L	No
Metribuzin	2020/12/01	0.000117	mg/L	No
Monochlorobenzene	2020/12/01	0.0005	mg/L	No
Paraquat	2020/12/01	0.0002	mg/L	No
Pentachlorophenol	2020/12/01	0.0003	mg/L	No
Phorate	2020/12/01	0.000117	mg/L	No
Picloram	2020/12/01	0.0000888	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/01	0.00006	mg/L	No
Prometryne	2020/12/01	0.0000587	mg/L	No
Simazine	2020/12/01	0.000176	mg/L	No
Terbufos	2020/12/01	0.000117	mg/L	No
Tetrachloroethylene	2020/12/01	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/01	0.0003	mg/L	No
Triallate	2020/12/01	0.000117	mg/L	No
Trichloroethylene	2020/12/01	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/01	0.0002	mg/L	No
Trifluralin	2020/12/01	0.000117	mg/L	No
Vinyl Chloride	2020/12/01	0.0001	mg/L	No
MCPA	2020/12/01	0.00634	mg/L	No

WELL B - KENNETH WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/01	0.000236	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/01	0.0005	mg/L	No
Azinphos-methyl	2020/12/01	0.000177	mg/L	No
Benzene	2020/12/01	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/01	0.00001	mg/L	No
Bromoxynil	2020/12/01	0.000144	mg/L	No
Carbaryl	2020/12/01	0.001	mg/L	No
Carbofuran	2020/12/01	0.002	mg/L	No
Carbon Tetrachloride	2020/12/01	0.0002	mg/L	No
Chlorpyrifos	2020/12/01	0.000177	mg/L	No
Diazinon	2020/12/01	0.000177	mg/L	No
Dicamba	2020/12/01	0.00036	mg/L	No
1,2-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/01	0.0003	mg/L	No

1,1-Dichloroethylene (vinylidene chloride)	2020/12/01	0.0003	mg/L	No
Dichloromethane	2020/12/01	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/01	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/01	0.00036	mg/L	No
Diclofop-methyl	2020/12/01	0.00012	mg/L	No
Dimethoate	2020/12/01	0.000177	mg/L	No
Diquat	2020/12/01	0.0002	mg/L	No
Diuron	2020/12/01	0.007	mg/L	No
Glyphosate	2020/12/01	0.02	mg/L	No
Malathion	2020/12/01	0.000177	mg/L	No
Metolachlor	2020/12/01	0.000118	mg/L	No
Metribuzin	2020/12/01	0.000118	mg/L	No
Monochlorobenzene	2020/12/01	0.0005	mg/L	No
Paraquat	2020/12/01	0.0002	mg/L	No
Pentachlorophenol	2020/12/01	0.0003	mg/L	No
Phorate	2020/12/01	0.000118	mg/L	No
Picloram	2020/12/01	0.0000839	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/01	0.00006	mg/L	No
Prometryne	2020/12/01	0.000059	mg/L	No
Simazine	2020/12/01	0.000177	mg/L	No
Terbufos	2020/12/01	0.000118	mg/L	No
Tetrachloroethylene	2020/12/01	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/01	0.0003	mg/L	No
Triallate	2020/12/01	0.000118	mg/L	No
Trichloroethylene	2020/12/01	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/01	0.0002	mg/L	No
Trifluralin	2020/12/01	0.000118	mg/L	No
Vinyl Chloride	2020/12/01	0.0001	mg/L	No
MCPA	2020/12/01	0.00599	mg/L	No

WELL C - PHILIPPE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/02	0.00024	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/02	0.0005	mg/L	No
Azinphos-methyl	2020/12/02	0.00018	mg/L	No
Benzene	2020/12/02	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/02	0.00001	mg/L	No
Bromoxynil	2020/12/02	0.0000943	mg/L	No
Carbaryl	2020/12/02	0.002	mg/L	No
Carbofuran	2020/12/02	0.003	mg/L	No
Carbon Tetrachloride	2020/12/02	0.0002	mg/L	No
Chlorpyrifos	2020/12/02	0.00018	mg/L	No
Diazinon	2020/12/02	0.00018	mg/L	No
Dicamba	2020/12/02	0.0000825	mg/L	No
1,2-Dichlorobenzene	2020/12/02	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/02	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/02	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/02	0.0003	mg/L	No
Dichloromethane	2020/12/02	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/02	0.0002	mg/L	No

2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/02	0.000354	mg/L	No
Diclofop-methyl	2020/12/02	0.000118	mg/L	No
Dimethoate	2020/12/02	0.00018	mg/L	No
Diquat	2020/12/02	0.0002	mg/L	No
Diuron	2020/12/02	0.009	mg/L	No
Glyphosate	2020/12/02	0.02	mg/L	No
Malathion	2020/12/02	0.00018	mg/L	No
Metolachlor	2020/12/02	0.00012	mg/L	No
Metribuzin	2020/12/02	0.00012	mg/L	No
Monochlorobenzene	2020/12/02	0.0005	mg/L	No
Paraquat	2020/12/02	0.0002	mg/L	No
Pentachlorophenol	2020/12/02	0.0003	mg/L	No
Phorate	2020/12/02	0.00012	mg/L	No
Picloram	2020/12/02	0.0000825	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/02	0.00006	mg/L	No
Prometryne	2020/12/02	0.0000599	mg/L	No
Simazine	2020/12/02	0.00018	mg/L	No
Terbufos	2020/12/02	0.00012	mg/L	No
Tetrachloroethylene	2020/12/02	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/02	0.0003	mg/L	No
Triallate	2020/12/02	0.00012	mg/L	No
Trichloroethylene	2020/12/02	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/02	0.0002	mg/L	No
Trifluralin	2020/12/02	0.00012	mg/L	No
Vinyl Chloride	2020/12/02	0.0001	mg/L	No
MCPA	2020/12/02	0.00589	mg/L	No

WELL D - FROST WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/02	0.000238	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/02	0.0005	mg/L	No
Azinphos-methyl	2020/12/02	0.000179	mg/L	No
Benzene	2020/12/02	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/02	0.00001	mg/L	No
Bromoxynil	2020/12/02	0.0000953	mg/L	No
Carbaryl	2020/12/02	0.001	mg/L	No
Carbofuran	2020/12/02	0.002	mg/L	No
Carbon Tetrachloride	2020/12/02	0.0002	mg/L	No
Chlorpyrifos	2020/12/02	0.000179	mg/L	No
Diazinon	2020/12/02	0.000179	mg/L	No
Dicamba	2020/12/02	0.0000834	mg/L	No
1,2-Dichlorobenzene	2020/12/02	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/02	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/02	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/02	0.0003	mg/L	No
Dichloromethane	2020/12/02	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/02	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/02	0.000357	mg/L	No
Diclofop-methyl	2020/12/02	0.000119	mg/L	No
Dimethoate	2020/12/02	0.000179	mg/L	No

Diquat	2020/12/02	0.0002	mg/L	No
Diuron	2020/12/02	0.006	mg/L	No
Glyphosate	2020/12/02	0.02	mg/L	No
Malathion	2020/12/02	0.000179	mg/L	No
Metolachlor	2020/12/02	0.000119	mg/L	No
Metribuzin	2020/12/02	0.000119	mg/L	No
Monochlorobenzene	2020/12/02	0.0005	mg/L	No
Paraquat	2020/12/02	0.0002	mg/L	No
Pentachlorophenol	2020/12/02	0.0003	mg/L	No
Phorate	2020/12/02	0.000119	mg/L	No
Picloram	2020/12/02	0.0000834	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/02	0.00006	mg/L	No
Prometryne	2020/12/02	0.0000596	mg/L	No
Simazine	2020/12/02	0.000179	mg/L	No
Terbufos	2020/12/02	0.000119	mg/L	No
Tetrachloroethylene	2020/12/02	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/02	0.0003	mg/L	No
Triallate	2020/12/02	0.000119	mg/L	No
Trichloroethylene	2020/12/02	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/02	0.0002	mg/L	No
Trifluralin	2020/12/02	0.000119	mg/L	No
Vinyl Chloride	2020/12/02	0.0001	mg/L	No
MCPA	2020/12/02	0.00596	mg/L	No

WELL E - NOTRE DAME WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/11/30	0.000231	mg/L	No
Atrazine + N-dealkylated metabolites	2020/11/30	0.0005	mg/L	No
Azinphos-methyl	2020/11/30	0.000173	mg/L	No
Benzene	2020/11/30	0.0001	mg/L	No
Benzo(a)pyrene	2020/11/30	0.000009	mg/L	No
Bromoxynil	2020/11/30	0.0000881	mg/L	No
Carbaryl	2020/11/30	0.001	mg/L	No
Carbofuran	2020/11/30	0.002	mg/L	No
Carbon Tetrachloride	2020/11/30	0.0002	mg/L	No
Chlorpyrifos	2020/11/30	0.000173	mg/L	No
Diazinon	2020/11/30	0.000173	mg/L	No
Dicamba	2020/11/30	0.0000771	mg/L	No
1,2-Dichlorobenzene	2020/11/30	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/11/30	0.0003	mg/L	No
1,2-Dichloroethane	2020/11/30	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/11/30	0.0003	mg/L	No
Dichloromethane	2020/11/30	0.001	mg/L	No
2-4 Dichlorophenol	2020/11/30	0.0003	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/11/30	0.00033	mg/L	No
Diclofop-methyl	2020/11/30	0.00011	mg/L	No
Dimethoate	2020/11/30	0.000173	mg/L	No
Diquat	2020/11/30	0.0002	mg/L	No
Diuron	2020/11/30	0.007	mg/L	No
Glyphosate	2020/11/30	0.02	mg/L	No
Malathion	2020/11/30	0.000173	mg/L	No

Metolachlor	2020/11/30	0.000115	mg/L	No
Metribuzin	2020/11/30	0.000115	mg/L	No
Monochlorobenzene	2020/11/30	0.0005	mg/L	No
Paraquat	2020/11/30	0.0002	mg/L	No
Pentachlorophenol	2020/11/30	0.0003	mg/L	No
Phorate	2020/11/30	0.000115	mg/L	No
Picloram	2020/11/30	0.0000771	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/11/30	0.00006	mg/L	No
Prometryne	2020/11/30	0.0000577	mg/L	No
Simazine	2020/11/30	0.000173	mg/L	No
Terbufos	2020/11/30	0.000115	mg/L	No
Tetrachloroethylene	2020/11/30	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/11/30	0.0003	mg/L	No
Triallate	2020/11/30	0.000115	mg/L	No
Trichloroethylene	2020/11/30	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/11/30	0.0002	mg/L	No
Trifluralin	2020/11/30	0.000115	mg/L	No
Vinyl Chloride	2020/11/30	0.0001	mg/L	No
MCPA	2020/11/30	0.00551	mg/L	No

WELL F - LINDEN WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/11/30	0.000228	mg/L	No
Atrazine + N-dealkylated metabolites	2020/11/30	0.0005	mg/L	No
Azinphos-methyl	2020/11/30	0.000171	mg/L	No
Benzene	2020/11/30	0.0001	mg/L	No
Benzo(a)pyrene	2020/11/30	0.000009	mg/L	No
Bromoxynil	2020/11/30	0.0000909	mg/L	No
Carbaryl	2020/11/30	0.001	mg/L	No
Carbofuran	2020/11/30	0.002	mg/L	No
Carbon Tetrachloride	2020/11/30	0.0002	mg/L	No
Chlorpyrifos	2020/11/30	0.000171	mg/L	No
Diazinon	2020/11/30	0.000171	mg/L	No
Dicamba	2020/11/30	0.0000795	mg/L	No
1,2-Dichlorobenzene	2020/11/30	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/11/30	0.0003	mg/L	No
1,2-Dichloroethane	2020/11/30	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/11/30	0.0003	mg/L	No
Dichloromethane	2020/11/30	0.001	mg/L	No
2-4 Dichlorophenol	2020/11/30	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/11/30	0.000341	mg/L	No
Diclofop-methyl	2020/11/30	0.000114	mg/L	No
Dimethoate	2020/11/30	0.000171	mg/L	No
Diquat	2020/11/30	0.0002	mg/L	No
Diuron	2020/11/30	0.006	mg/L	No
Glyphosate	2020/11/30	0.02	mg/L	No
Malathion	2020/11/30	0.000171	mg/L	No
Metolachlor	2020/11/30	0.000114	mg/L	No
Metribuzin	2020/11/30	0.000114	mg/L	No
Monochlorobenzene	2020/11/30	0.0005	mg/L	No
Paraquat	2020/11/30	0.0003	mg/L	No

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

Pentachlorophenol	2020/11/30	0.0003	mg/L	No
Phorate	2020/11/30	0.000114	mg/L	No
Picloram	2020/11/30	0.0000795	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/11/30	0.00006	mg/L	No
Prometryne	2020/11/30	0.0000569	mg/L	No
Simazine	2020/11/30	0.000171	mg/L	No
Terbufos	2020/11/30	0.000114	mg/L	No
Tetrachloroethylene	2020/11/30	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/11/30	0.0003	mg/L	No
Triallate	2020/11/30	0.000114	mg/L	No
Trichloroethylene	2020/11/30	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/11/30	0.0002	mg/L	No
Trifluralin	2020/11/30	0.000114	mg/L	No
Vinyl Chloride	2020/11/30	0.0001	mg/L	No
MCPA	2020/11/30	0.00568	mg/L	No

WELL G - PHARAND WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/02	0.00024	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/02	0.0005	mg/L	No
Azinphos-methyl	2020/12/02	0.00018	mg/L	No
Benzene	2020/12/02	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/02	0.00001	mg/L	No
Bromoxynil	2020/12/02	0.00012	mg/L	No
Carbaryl	2020/12/02	0.001	mg/L	No
Carbofuran	2020/12/02	0.002	mg/L	No
Carbon Tetrachloride	2020/12/02	0.0002	mg/L	No
Chlorpyrifos	2020/12/02	0.00018	mg/L	No
Diazinon	2020/12/02	0.00018	mg/L	No
Dicamba	2020/12/02	0.000105	mg/L	No
1,2-Dichlorobenzene	2020/12/02	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/02	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/02	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/02	0.0003	mg/L	No
Dichloromethane	2020/12/02	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/02	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/02	0.000452	mg/L	No
Diclofop-methyl	2020/12/02	0.000151	mg/L	No
Dimethoate	2020/12/02	0.00018	mg/L	No
Diquat	2020/12/02	0.0002	mg/L	No
Diuron	2020/12/02	0.006	mg/L	No
Glyphosate	2020/12/02	0.02	mg/L	No
Malathion	2020/12/02	0.00018	mg/L	No
Metolachlor	2020/12/02	0.00012	mg/L	No
Metribuzin	2020/12/02	0.00012	mg/L	No
Monochlorobenzene	2020/12/02	0.0005	mg/L	No
Paraquat	2020/12/02	0.0002	mg/L	No
Pentachlorophenol	2020/12/02	0.0003	mg/L	No
Phorate	2020/12/02	0.00012	mg/L	No
Picloram	2020/12/02	0.000105	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/02	0.00006	mg/L	No

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

Prometryne	2020/12/02	0.0000601	mg/L	No
Simazine	2020/12/02	0.00018	mg/L	No
Terbufos	2020/12/02	0.00012	mg/L	No
Tetrachloroethylene	2020/12/02	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/02	0.0003	mg/L	No
Triallate	2020/12/02	0.00012	mg/L	No
Trichloroethylene	2020/12/02	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/02	0.0002	mg/L	No
Trifluralin	2020/12/02	0.00012	mg/L	No
Vinyl Chloride	2020/12/02	0.0001	mg/L	No
MCPA	2020/12/02	0.00753	mg/L	No

WELL H - MICHELLE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/02	0.000249	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/02	0.0005	mg/L	No
Azinphos-methyl	2020/12/02	0.000187	mg/L	No
Benzene	2020/12/02	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/02	0.00001	mg/L	No
Bromoxynil	2020/12/02	0.000117	mg/L	No
Carbaryl	2020/12/02	0.001	mg/L	No
Carbofuran	2020/12/02	0.002	mg/L	No
Carbon Tetrachloride	2020/12/02	0.0002	mg/L	No
Chlorpyrifos	2020/12/02	0.000187	mg/L	No
Diazinon	2020/12/02	0.000187	mg/L	No
Dicamba	2020/12/02	0.000103	mg/L	No
1,2-Dichlorobenzene	2020/12/02	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/02	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/02	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/02	0.0003	mg/L	No
Dichloromethane	2020/12/02	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/02	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/02	0.00044	mg/L	No
Diclofop-methyl	2020/12/02	0.000147	mg/L	No
Dimethoate	2020/12/02	0.000187	mg/L	No
Diquat	2020/12/02	0.0002	mg/L	No
Diuron	2020/12/02	0.006	mg/L	No
Glyphosate	2020/12/02	0.02	mg/L	No
Malathion	2020/12/02	0.000187	mg/L	No
Metolachlor	2020/12/02	0.000124	mg/L	No
Metribuzin	2020/12/02	0.000124	mg/L	No
Monochlorobenzene	2020/12/02	0.0005	mg/L	No
Paraquat	2020/12/02	0.0002	mg/L	No
Pentachlorophenol	2020/12/02	0.0003	mg/L	No
Phorate	2020/12/02	0.000124	mg/L	No
Picloram	2020/12/02	0.000103	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/02	0.00006	mg/L	No
Prometryne	2020/12/02	0.0000622	mg/L	No
Simazine	2020/12/02	0.000187	mg/L	No
Terbufos	2020/12/02	0.000124	mg/L	No
Tetrachloroethylene	2020/12/02	0.0003	mg/L	No

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

2,3,4,6-Tetrachlorophenol	2020/12/02	0.0003	mg/L	No
Triallate	2020/12/02	0.000124	mg/L	No
Trichloroethylene	2020/12/02	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/02	0.0002	mg/L	No
Trifluralin	2020/12/02	0.000124	mg/L	No
Vinyl Chloride	2020/12/02	0.0001	mg/L	No
MCPA	2020/12/02	0.00734	mg/L	No

WELL I - I WELL no production in 2020

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor				
Atrazine + N-dealkylated metabolites				
Azinphos-methyl				
Benzene				
Benzo(a)pyrene				
Bromoxynil				
Carbaryl				
Carbofuran				
Carbon Tetrachloride				
Chlorpyrifos				
Diazinon				
Dicamba				
1,2-Dichlorobenzene				
1,4-Dichlorobenzene				
1,2-Dichloroethane				
1,1-Dichloroethylene (vinylidene chloride)				
Dichloromethane				
2-4 Dichlorophenol				
2,4-Dichlorophenoxy acetic acid (2,4-D)				
Diclofop-methyl				
Dimethoate				
Diquat				
Diuron				
Glyphosate				
Malathion				
Metolachlor				
Metribuzin				
Monochlorobenzene				
Paraquat				
Pentachlorophenol				
Phorate				
Picloram				
Polychlorinated Biphenyls(PCB)				
Prometryne				
Simazine				
Terbufos				
Tetrachloroethylene				
2,3,4,6-Tetrachlorophenol				
Triallate				
Trichloroethylene				
2,4,6-Trichlorophenol				

Trifluralin				
Vinyl Chloride				
MCPA				

WELL M - Capreol

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/08	0.000228	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/08	0.0005	mg/L	No
Azinphos-methyl	2020/12/08	0.000171	mg/L	No
Benzene	2020/12/08	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/08	0.00001	mg/L	No
Bromoxynil	2020/12/08	0.0000953	mg/L	No
Carbaryl	2020/12/08	0.001	mg/L	No
Carbofuran	2020/12/08	0.002	mg/L	No
Carbon Tetrachloride	2020/12/08	0.0002	mg/L	No
Chlorpyrifos	2020/12/08	0.000171	mg/L	No
Diazinon	2020/12/08	0.000171	mg/L	No
Dicamba	2020/12/08	0.0000834	mg/L	No
1,2-Dichlorobenzene	2020/12/08	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/08	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/08	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/08	0.0003	mg/L	No
Dichloromethane	2020/12/08	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/08	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/08	0.000357	mg/L	No
Diclofop-methyl	2020/12/08	0.000119	mg/L	No
Dimethoate	2020/12/08	0.000171	mg/L	No
Diquat	2020/12/08	0.0002	mg/L	No
Diuron	2020/12/08	0.006	mg/L	No
Glyphosate	2020/12/08	0.02	mg/L	No
Malathion	2020/12/08	0.000171	mg/L	No
Metolachlor	2020/12/08	0.000114	mg/L	No
Metribuzin	2020/12/08	0.000114	mg/L	No
Monochlorobenzene	2020/12/08	0.0005	mg/L	No
Paraquat	2020/12/08	0.0002	mg/L	No
Pentachlorophenol	2020/12/08	0.0003	mg/L	No
Phorate	2020/12/08	0.000114	mg/L	No
Picloram	2020/12/08	0.0000834	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/08	0.00006	mg/L	No
Prometryne	2020/12/08	0.000057	mg/L	No
Simazine	2020/12/08	0.000171	mg/L	No
Terbufos	2020/12/08	0.000114	mg/L	No
Tetrachloroethylene	2020/12/08	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/08	0.0003	mg/L	No
Triallate	2020/12/08	0.000114	mg/L	No
Trichloroethylene	2020/12/08	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/08	0.0002	mg/L	No
Trifluralin	2020/12/08	0.000114	mg/L	No
Vinyl Chloride	2020/12/08	0.0001	mg/L	No
MCPA	2020/12/08	0.00596	mg/L	No

WELL J - Capreol

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/08	0.000249	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/08	0.0005	mg/L	No
Azinphos-methyl	2020/12/08	0.000186	mg/L	No
Benzene	2020/12/08	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/08	0.00001	mg/L	No
Bromoxynil	2020/12/08	0.000102	mg/L	No
Carbaryl	2020/12/08	0.001	mg/L	No
Carbofuran	2020/12/08	0.002	mg/L	No
Carbon Tetrachloride	2020/12/08	0.0002	mg/L	No
Chlorpyrifos	2020/12/08	0.000186	mg/L	No
Diazinon	2020/12/08	0.000186	mg/L	No
Dicamba	2020/12/08	0.0000889	mg/L	No
1,2-Dichlorobenzene	2020/12/08	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/08	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/08	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/08	0.0003	mg/L	No
Dichloromethane	2020/12/08	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/08	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/08	0.000381	mg/L	No
Diclofop-methyl	2020/12/08	0.000127	mg/L	No
Dimethoate	2020/12/08	0.000186	mg/L	No
Diquat	2020/12/08	0.0002	mg/L	No
Diuron	2020/12/08	0.007	mg/L	No
Glyphosate	2020/12/08	0.02	mg/L	No
Malathion	2020/12/08	0.000186	mg/L	No
Metolachlor	2020/12/08	0.000124	mg/L	No
Metribuzin	2020/12/08	0.000124	mg/L	No
Monochlorobenzene	2020/12/08	0.0005	mg/L	No
Paraquat	2020/12/08	0.0002	mg/L	No
Pentachlorophenol	2020/12/08	0.0003	mg/L	No
Phorate	2020/12/08	0.000124	mg/L	No
Picloram	2020/12/08	0.0000889	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/08	0.00006	mg/L	No
Prometryne	2020/12/08	0.0000622	mg/L	No
Simazine	2020/12/08	0.000186	mg/L	No
Terbufos	2020/12/08	0.000124	mg/L	No
Tetrachloroethylene	2020/12/08	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/08	0.0003	mg/L	No
Triallate	2020/12/08	0.000124	mg/L	No
Trichloroethylene	2020/12/08	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/08	0.0002	mg/L	No
Trifluralin	2020/12/08	0.000124	mg/L	No
Vinyl Chloride	2020/12/08	0.0001	mg/L	No
MCPA	2020/12/08	0.00635	mg/L	No

WELL Q- CHENIER

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/11/30	0.000269	mg/L	No

Atrazine + N-dealkylated metabolites	2020/11/30	0.0005	mg/L	No
Azinphos-methyl	2020/11/30	0.000202	mg/L	No
Benzene	2020/11/30	0.0001	mg/L	No
Benzo(a)pyrene	2020/11/30	0.00001	mg/L	No
Bromoxynil	2020/11/30	0.0000939	mg/L	No
Carbaryl	2020/11/30	0.001	mg/L	No
Carbofuran	2020/11/30	0.002	mg/L	No
Carbon Tetrachloride	2020/11/30	0.0002	mg/L	No
Chlorpyrifos	2020/11/30	0.000202	mg/L	No
Diazinon	2020/11/30	0.000202	mg/L	No
Dicamba	2020/11/30	0.0000822	mg/L	No
1,2-Dichlorobenzene	2020/11/30	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/11/30	0.0003	mg/L	No
1,2-Dichloroethane	2020/11/30	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/11/30	0.0003	mg/L	No
Dichloromethane	2020/11/30	0.001	mg/L	No
2-4 Dichlorophenol	2020/11/30	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/11/30	0.000352	mg/L	No
Diclofop-methyl	2020/11/30	0.000117	mg/L	No
Dimethoate	2020/11/30	0.000202	mg/L	No
Diquat	2020/11/30	0.0003	mg/L	No
Diuron	2020/11/30	0.006	mg/L	No
Glyphosate	2020/11/30	0.02	mg/L	No
Malathion	2020/11/30	0.000202	mg/L	No
Metolachlor	2020/11/30	0.000134	mg/L	No
Metribuzin	2020/11/30	0.000134	mg/L	No
Monochlorobenzene	2020/11/30	0.0005	mg/L	No
Paraquat	2020/11/30	0.0003	mg/L	No
Pentachlorophenol	2020/11/30	0.0003	mg/L	No
Phorate	2020/11/30	0.000134	mg/L	No
Picloram	2020/11/30	0.0000822	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/11/30	0.00006	mg/L	No
Prometryne	2020/11/30	0.0000672	mg/L	No
Simazine	2020/11/30	0.000202	mg/L	No
Terbufos	2020/11/30	0.000134	mg/L	No
Tetrachloroethylene	2020/11/30	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/11/30	0.0003	mg/L	No
Triallate	2020/11/30	0.000134	mg/L	No
Trichloroethylene	2020/11/30	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/11/30	0.0002	mg/L	No
Trifluralin	2020/11/30	0.000134	mg/L	No
Vinyl Chloride	2020/11/30	0.0001	mg/L	No
MCPA	2020/11/30	0.00587	mg/L	No

WELL R

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/11/30	0.00023	mg/L	No
Atrazine + N-dealkylated metabolites	2020/11/30	0.0005	mg/L	No
Azinphos-methyl	2020/11/30	0.000172	mg/L	No
Benzene	2020/11/30	0.0001	mg/L	No
Benzo(a)pyrene	2020/11/30	0.000009	mg/L	No

Bromoxynil	2020/11/30	0.0000921	mg/L	No
Carbaryl	2020/11/30	0.001	mg/L	No
Carbofuran	2020/11/30	0.002	mg/L	No
Carbon Tetrachloride	2020/11/30	0.0002	mg/L	No
Chlorpyrifos	2020/11/30	0.000172	mg/L	No
Diazinon	2020/11/30	0.000172	mg/L	No
Dicamba	2020/11/30	0.0000806	mg/L	No
1,2-Dichlorobenzene	2020/11/30	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/11/30	0.0003	mg/L	No
1,2-Dichloroethane	2020/11/30	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/11/30	0.0003	mg/L	No
Dichloromethane	2020/11/30	0.001	mg/L	No
2-4 Dichlorophenol	2020/11/30	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/11/30	0.000345	mg/L	No
Diclofop-methyl	2020/11/30	0.000115	mg/L	No
Dimethoate	2020/11/30	0.000172	mg/L	No
Diquat	2020/11/30	0.0002	mg/L	No
Diuron	2020/11/30	0.007	mg/L	No
Glyphosate	2020/11/30	0.02	mg/L	No
Malathion	2020/11/30	0.000172	mg/L	No
Metolachlor	2020/11/30	0.000115	mg/L	No
Metribuzin	2020/11/30	0.000115	mg/L	No
Monochlorobenzene	2020/11/30	0.0005	mg/L	No
Paraquat	2020/11/30	0.0002	mg/L	No
Pentachlorophenol	2020/11/30	0.0003	mg/L	No
Phorate	2020/11/30	0.000115	mg/L	No
Picloram	2020/11/30	0.0000806	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/11/30	0.00006	mg/L	No
Prometryne	2020/11/30	0.0000574	mg/L	No
Simazine	2020/11/30	0.000172	mg/L	No
Terbufos	2020/11/30	0.000115	mg/L	No
Tetrachloroethylene	2020/11/30	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/11/30	0.0003	mg/L	No
Triallate	2020/11/30	0.000115	mg/L	No
Trichloroethylene	2020/11/30	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/11/30	0.0002	mg/L	No
Trifluralin	2020/11/30	0.000115	mg/L	No
Vinyl Chloride	2020/11/30	0.0001	mg/L	No
MCPA	2020/11/30	0.00575	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	UOM	Date of Sample	Location

(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)



Section 8

Vermilion Distribution Water System

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	260006789
Drinking-Water System Name:	Vermilion Distribution System
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2020-01-01 To 2020-12-31

<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>
--	---

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
Atikameksheng Anishnawbek	

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 City of Greater Sudbury purchases water from Vale to supply the Vermilion Distribution System. The City owned distribution system supplies the communities of Lively, Naughton, Whitefish and Copper Cliff. Additional service was provided in 2005 to supply Atikameksheng Anishnawbek, formerly known as the Whitefish First Nations Reserve. Water is treated by Vale at the Vermillion Water Treatment Plant to comply with O. Reg. 170/03. The City of Greater Sudbury has the responsibility of water quality monitoring within the Vermilion Distribution. The system includes the Walden water storage tank and Walden metering chamber; both located in the Walden Industrial Park and includes an online continuous chlorine analyzer.

List all water treatment chemicals used over this reporting period

No chemical addition. Distribution system only.

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

AWQI #	Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
151387	2020/08/13	Total Coliform	147	CFU/100 mL	Flushed Hydrant/Retest	2020/08/15

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 #)
Distribution	269	0 to 0	0 to 147	65	10 to 2000

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	0.18 - 4.54

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 or order or other legal instrument.

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony				
Arsenic				
Barium				
Boron				
Cadmium				
Chromium				
Mercury				
Selenium				
Uranium				
Nitrite				
Nitrate				
Sodium				

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			
Distribution			

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)	2020	0.0610	mg/L	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor				
Atrazine + N-dealkylated metabolites				
Azinphos-methyl				

Benzene				
Benzo(a)pyrene				
Bromoxynil				
Carbaryl				
Carbofuran				
Carbon Tetrachloride				
Chlorpyrifos				
Diazinon				
Dicamba				
1,2-Dichlorobenzene				
1,4-Dichlorobenzene				
1,2-Dichloroethane				
1,1-Dichloroethylene (vinylidene chloride)				
Dichloromethane				
2-4 Dichlorophenol				
2,4-Dichlorophenoxy acetic acid (2,4-D)				
Diclofop-methyl				
Dimethoate				
Diquat				
Diuron				
Glyphosate				
Malathion				
Metolachlor				
Metribuzin				
Monochlorobenzene				
Paraquat				
Pentachlorophenol				
Phorate				
Picloram				
Polychlorinated Biphenyls(PCB)				
Prometryne				
Simazine				
Terbufos				
Tetrachloroethylene				
2,3,4,6-Tetrachlorophenol				
Triallate				
Trichloroethylene				
2,4,6-Trichlorophenol				
Trifluralin				
Vinyl Chloride				
MCPA				

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	UOM	Date of Sample	Location

(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)