



2023
Annual Water Quality
Report



2023 Annual Water Quality Report

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Section 1

Dowling Drinking Water System

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

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	210001665
Drinking-Water System	Dowling Drinking Water System
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2023-01-01 To 2023-12-31

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes ☐ No ☒

Is your annual report available to the public at no charge on a web site on the Internet? Yes ☒ No ☐

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

www.greatersudbury.ca
TDS-Engineering Department

Complete for all other Categories.

Number of Designated Facilities served:

0

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes ☐ No ☒

Number of Interested Authorities you report to:

0

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?

Yes ☐ No ☒

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
NA	

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 ☐

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

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

Turbidity meters changed to new style \$ 12 000

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
163408	2023/08/28	Trending not completed	NA		trending completed	2023/09/13
164102	2023/11/21	Distribution chlorine analyzer communication	NA		testing on site	2023/11/21

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					
	52	0 to 0	0 to 0		
Raw: RIVERSIDE WELL#1					
	52	0 to 0	0 to 0		
Treated: LIONEL WELL					
	52	0 to 0	0 to 0	52	10 to 10
Treated: RIVERSIDE WELL					
	52	0 to 0	0 to 0	52	10 to 280
Distribution					
	157	0 to 0	0 to 0	39	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	0.00 - 2.44

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

LIONEL WELL

Turbidity	8,760	0.03 - 1.03	NTU
Chlorine	8,760	0.49 - 3.51	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.03	mg/L

RIVERSIDE WELL

Turbidity	8,760	0.03 - 0.90	NTU
Chlorine	8,760	0.13 - 5.00	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.12	mg/L

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

LIONEL WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2023/12/05	0.0005	mg/L	No
Arsenic	2023/12/05	0.001	mg/L	No
Barium	2023/12/05	0.02	mg/L	No
Boron	2023/12/05	0.002	mg/L	No
Cadmium	2023/12/05	0.0001	mg/L	No
Chromium	2023/12/05	0.0012	mg/L	No
Mercury	2023/12/05	0.0001	mg/L	No
Selenium	2023/12/05	0.0002	mg/L	No
Uranium	2023/12/05	0.001	mg/L	No
Nitrite	2023/03/08	0.05	mg/L	No
	2023/06/06	0.05	mg/L	No
	2023/09/06	0.05	mg/L	No
	2023/12/05	0.05	mg/L	No

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

Nitrate	2023/03/08	0.565	mg/L	No
	2023/06/06	0.619	mg/L	No
	2023/09/06	0.774	mg/L	No
	2023/12/05	0.727	mg/L	No
Sodium	2021/11/30	38.90	mg/L	Yes

RIVERSIDE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2023/12/05	0.0005	mg/L	No
Arsenic	2023/12/05	0.001	mg/L	No
Barium	2023/12/05	0.0163	mg/L	No
Boron	2023/12/05	0.002	mg/L	No
Cadmium	2023/12/05	0.0001	mg/L	No
Chromium	2023/12/05	0.0013	mg/L	No
Mercury	2023/12/05	0.0001	mg/L	No
Selenium	2023/12/05	0.0002	mg/L	No
Uranium	2023/12/05	0.001	mg/L	No
Nitrite	2023/03/07	0.05	mg/L	No
	2023/06/06	0.05	mg/L	No
	2023/09/06	0.05	mg/L	No
	2023/12/05	0.05	mg/L	No
Nitrate	2023/03/07	0.62	mg/L	No
	2023/06/06	0.706	mg/L	No
	2023/09/06	0.901	mg/L	No
	2023/12/05	0.586	mg/L	No
Sodium	2021/11/30	37.70	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			
Distribution	3	0.0032 - 0.00122 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)	2023	0.0101	mg/L	No
HAA (NOTE: show latest annual average)	2023	0.01	mg/L	No

LIONEL WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
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Drinking-Water Systems Regulation O. Reg. 170/03

Alachlor	2023/12/05	0.000265	mg/L	No
Atrazine + N-dealkylated metabolites	2023/12/05	0.0005	mg/L	No
Azinphos-methyl	2023/12/05	0.000198	mg/L	No
Benzene	2023/12/05	0.0001	mg/L	No
Benzo(a)pyrene	2023/12/05	1e-005	mg/L	No
Bromoxynil	2023/12/05	0.0001	mg/L	No
Carbaryl	2023/12/05	0.002	mg/L	No
Carbofuran	2023/12/05	0.004	mg/L	No
Carbon Tetrachloride	2023/12/05	0.0002	mg/L	No
Chlorpyrifos	2023/12/05	0.000198	mg/L	No
Diazinon	2023/12/05	0.000198	mg/L	No
Dicamba	2023/12/05	8.77e-005	mg/L	No
1,2-Dichlorobenzene	2023/12/05	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/05	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/05	0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/12/05	0.0003	mg/L	No
Dichloromethane	2023/12/05	0.001	mg/L	No
2-4 Dichlorophenol	2023/12/05	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/05	0.000376	mg/L	No
Diclofop-methyl	2023/12/05	0.000125	mg/L	No
Dimethoate	2023/12/05	0.000198	mg/L	No
Diquat	2023/12/05	0.0002	mg/L	No
Diuron	2023/12/05	0.01	mg/L	No
Glyphosate	2023/12/05	0.02	mg/L	No
Malathion	2023/12/05	0.000198	mg/L	No
Metolachlor	2023/12/05	0.000132	mg/L	No
Metribuzin	2023/12/05	0.000132	mg/L	No
Monochlorobenzene	2023/12/05	0.0005	mg/L	No
Paraquat	2023/12/05	0.0002	mg/L	No
Pentachlorophenol	2023/12/05	0.0003	mg/L	No
Phorate	2023/12/05	0.000132	mg/L	No
Picloram	2023/12/05	8.77e-005	mg/L	No
Polychlorinated Biphenyls(PCB)	2023/12/05	6e-005	mg/L	No
Prometryne	2023/12/05	6.61e-005	mg/L	No
Simazine	2023/12/05	0.000198	mg/L	No
Terbufos	2023/12/05	0.000132	mg/L	No
Tetrachloroethylene	2023/12/05	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/05	0.0002	mg/L	No
Triallate	2023/12/05	0.000132	mg/L	No
Trichloroethylene	2023/12/05	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/05	0.0002	mg/L	No
Trifluralin	2023/12/05	0.000132	mg/L	No
Vinyl Chloride	2023/12/05	0.0001	mg/L	No
MCPA	2023/12/05	0.00626	mg/L	No

RIVERSIDE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2023/12/05	0.000262	mg/L	No
Atrazine + N-dealkylated metabolites	2023/12/05	0.0005	mg/L	No
Azinphos-methyl	2023/12/05	0.000197	mg/L	No
Benzene	2023/12/05	0.0001	mg/L	No

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

Benzo(a)pyrene	2023/12/05	9e-006	mg/L	No
Bromoxynil	2023/12/05	9.69e-005	mg/L	No
Carbaryl	2023/12/05	0.002	mg/L	No
Carbofuran	2023/12/05	0.004	mg/L	No
Carbon Tetrachloride	2023/12/05	0.0002	mg/L	No
Chlorpyrifos	2023/12/05	0.000197	mg/L	No
Diazinon	2023/12/05	0.000197	mg/L	No
Dicamba	2023/12/05	8.48e-005	mg/L	No
1,2-Dichlorobenzene	2023/12/05	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/05	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/05	0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/12/05	0.0003	mg/L	No
Dichloromethane	2023/12/05	0.001	mg/L	No
2-4 Dichlorophenol	2023/12/05	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/05	0.000364	mg/L	No
Diclofop-methyl	2023/12/05	0.000121	mg/L	No
Dimethoate	2023/12/05	0.000197	mg/L	No
Diquat	2023/12/05	0.0002	mg/L	No
Diuron	2023/12/05	0.01	mg/L	No
Glyphosate	2023/12/05	0.02	mg/L	No
Malathion	2023/12/05	0.000197	mg/L	No
Metolachlor	2023/12/05	0.000131	mg/L	No
Metribuzin	2023/12/05	0.000131	mg/L	No
Monochlorobenzene	2023/12/05	0.0005	mg/L	No
Paraquat	2023/12/05	0.0002	mg/L	No
Pentachlorophenol	2023/12/05	0.0003	mg/L	No
Phorate	2023/12/05	0.000131	mg/L	No
Picloram	2023/12/05	8.48e-005	mg/L	No
Polychlorinated Biphenyls(PCB)	2023/12/05	6e-005	mg/L	No
Prometryne	2023/12/05	6.55e-005	mg/L	No
Simazine	2023/12/05	0.000197	mg/L	No
Terbufos	2023/12/05	0.000131	mg/L	No
Tetrachloroethylene	2023/12/05	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/05	0.0002	mg/L	No
Triallate	2023/12/05	0.000131	mg/L	No
Trichloroethylene	2023/12/05	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/05	0.0002	mg/L	No
Trifluralin	2023/12/05	0.000131	mg/L	No
Vinyl Chloride	2023/12/05	0.0001	mg/L	No
MCPA	2023/12/05	0.00606	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
Benzo(a)pyrene	1e-005	mg/L	2023/12/05	LIONEL WELL
Benzo(a)pyrene	9e-006	mg/L	2023/12/05	RIVERSIDE WELL

(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

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

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	240000020
Drinking-Water System	Falconbridge Well Supply
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2023-01-01 To 2023-12-31

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes ☐ No ☒

Is your annual report available to the public at no charge on a web site on the Internet? Yes ☒ No ☐

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

www.greatersudbury.ca
TDS-Engineering Department

Complete for all other Categories.

Number of Designated Facilities served:

0

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes ☐ No ☒

Number of Interested Authorities you report to:

0

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?

Yes ☐ No ☒

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 ☐

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

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

NA

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
163409	2023/08/28	Trending not completed	NA		Completed trending	2023/09/13
164177	2023/12/07	Turbidity	0	NTU	Resample	2023/12/08

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					
	52	0 to 0	0 to 0		
Raw: FALCONBRIDGE WELL #7					
	52	0 to 0	0 to 1		
Treated: FALCONBRIDGE WELL #5					
	52	0 to 0	0 to 0	52	10 to 10
Treated: FALCONBRIDGE WELL #6					
	52	0 to 0	0 to 0	52	10 to 40
Treated: FALCONBRIDGE WELL #7					
	52	0 to 0	0 to 0	52	10 to 10
Distribution					
	209	0 to 0	0 to 0	56	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	0.05 - 3.69

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

FALCONBRIDGE WELLS TREATED

Turbidity	8,760	0.00 - 3.07	NTU
Chlorine	8,760	0.75 - 5.00	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.34	mg/L

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	2023/12/04	0.0005	mg/L	No
Arsenic	2023/12/04	0.0023	mg/L	No
Barium	2023/12/04	0.0059	mg/L	No
Boron	2023/12/04	0.002	mg/L	No
Cadmium	2023/12/04	0.0001	mg/L	No
Chromium	2023/12/04	0.002	mg/L	No
Mercury	2023/12/04	0.0001	mg/L	No
Selenium	2023/12/04	0.00078	mg/L	No
Uranium	2023/12/04	0.001	mg/L	No
Nitrite	2023/03/06	0.05	mg/L	No
	2023/06/07	0.05	mg/L	No
	2023/09/05	0.05	mg/L	No
	2023/12/04	0.05	mg/L	No
Nitrate	2023/03/06	0.13	mg/L	No
	2023/06/07	0.17	mg/L	No
	2023/09/05	0.071	mg/L	No
	2023/12/04	0.14	mg/L	No
Sodium	2021/02/22	23.10	mg/L	Yes

FALCONBRIDGE WELL #6

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2023/12/04	0.0005	mg/L	No
Arsenic	2023/12/04	0.0017	mg/L	No
Barium	2023/12/04	0.0071	mg/L	No
Boron	2023/12/04	0.002	mg/L	No
Cadmium	2023/12/04	0.0001	mg/L	No
Chromium	2023/12/04	0.0016	mg/L	No
Mercury	2023/12/04	0.0001	mg/L	No
Selenium	2023/12/04	0.00039	mg/L	No
Uranium	2023/12/04	0.001	mg/L	No
Nitrite	2023/03/06	0.05	mg/L	No
	2023/06/07	0.05	mg/L	No
	2023/09/05	0.05	mg/L	No
	2023/12/04	0.05	mg/L	No
Nitrate	2023/03/06	0.14	mg/L	No
	2023/06/07	0.18	mg/L	No
	2023/09/05	0.1	mg/L	No
	2023/12/04	0.15	mg/L	No
Sodium	2021/02/22	22.30	mg/L	Yes

FALCONBRIDGE WELL #7

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2023/12/04	0.0005	mg/L	No
Arsenic	2023/12/04	0.004	mg/L	No
Barium	2023/12/04	0.0055	mg/L	No
Boron	2023/12/04	0.002	mg/L	No
Cadmium	2023/12/04	0.0001	mg/L	No
Chromium	2023/12/04	0.002	mg/L	No
Mercury	2023/12/04	0.0001	mg/L	No
Selenium	2023/12/04	0.0002	mg/L	No
Uranium	2023/12/04	0.001	mg/L	No
Nitrite	2023/03/06	0.05	mg/L	No
	2023/06/07	0.05	mg/L	No
	2023/09/05	0.05	mg/L	No
	2023/12/04	0.05	mg/L	No
Nitrate	2023/03/06	0.073	mg/L	No
	2023/06/07	0.14	mg/L	No
	2023/09/05	0.085	mg/L	No
	2023/12/04	0.1	mg/L	No
Sodium	2021/02/22	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			
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)	2023	0.0036	mg/L	No
HAA (NOTE: show latest annual average)	2023	0.008	mg/L	No

FALCONBRIDGE WELL #5

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2023/12/04	0.000224	mg/L	No
Atrazine + N-dealkylated metabolites	2023/12/04	0.0005	mg/L	No
Azinphos-methyl	2023/12/04	0.000168	mg/L	No
Benzene	2023/12/04	0.0001	mg/L	No
Benzo(a)pyrene	2023/12/04	1e-005	mg/L	No
Bromoxynil	2023/12/04	9.4e-005	mg/L	No
Carbaryl	2023/12/04	0.002	mg/L	No
Carbofuran	2023/12/04	0.003	mg/L	No
Carbon Tetrachloride	2023/12/04	0.0002	mg/L	No
Chlorpyrifos	2023/12/04	0.000168	mg/L	No
Diazinon	2023/12/04	0.000168	mg/L	No
Dicamba	2023/12/04	8.23e-005	mg/L	No
1,2-Dichlorobenzene	2023/12/04	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/04	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/04	0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/12/04	0.0003	mg/L	No
Dichloromethane	2023/12/04	0.001	mg/L	No
2,4 Dichlorophenol	2023/12/04	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/04	0.000353	mg/L	No
Diclofop-methyl	2023/12/04	0.000118	mg/L	No
Dimethoate	2023/12/04	0.000168	mg/L	No
Diquat	2023/12/04	0.0002	mg/L	No
Diuron	2023/12/04	0.01	mg/L	No
Glyphosate	2023/12/04	0.02	mg/L	No
Malathion	2023/12/04	0.000168	mg/L	No
Metolachlor	2023/12/04	0.000112	mg/L	No
Metribuzin	2023/12/04	0.000112	mg/L	No
Monochlorobenzene	2023/12/04	0.0005	mg/L	No

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Paraquat	2023/12/04	0.0002	mg/L	No
Pentachlorophenol	2023/12/04	0.0003	mg/L	No
Phorate	2023/12/04	0.000112	mg/L	No
Picloram	2023/12/04	8.23e-005	mg/L	No
Polychlorinated Biphenyls(PCB)	2023/12/04	7e-005	mg/L	No
Prometryne	2023/12/04	5.6e-005	mg/L	No
Simazine	2023/12/04	0.000168	mg/L	No
Terbufos	2023/12/04	0.000112	mg/L	No
Tetrachloroethylene	2023/12/04	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/04	0.0002	mg/L	No
Triallate	2023/12/04	0.000112	mg/L	No
Trichloroethylene	2023/12/04	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/04	0.0002	mg/L	No
Trifluralin	2023/12/04	0.000112	mg/L	No
Vinyl Chloride	2023/12/04	0.0001	mg/L	No
MCPA	2023/12/04	0.00588	mg/L	No

FALCONBRIDGE WELL #6

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2023/12/04	0.000239	mg/L	No
Atrazine + N-dealkylated metabolites	2023/12/04	0.0005	mg/L	No
Azinphos-methyl	2023/12/04	0.000179	mg/L	No
Benzene	2023/12/04	0.0001	mg/L	No
Benzo(a)pyrene	2023/12/04	9e-006	mg/L	No
Bromoxynil	2023/12/04	9.54e-005	mg/L	No
Carbaryl	2023/12/04	0.002	mg/L	No
Carbofuran	2023/12/04	0.004	mg/L	No
Carbon Tetrachloride	2023/12/04	0.0002	mg/L	No
Chlorpyrifos	2023/12/04	0.000179	mg/L	No
Diazinon	2023/12/04	0.000179	mg/L	No
Dicamba	2023/12/04	8.34e-005	mg/L	No
1,2-Dichlorobenzene	2023/12/04	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/04	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/04	0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/12/04	0.0003	mg/L	No
Dichloromethane	2023/12/04	0.001	mg/L	No
2-4 Dichlorophenol	2023/12/04	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/04	0.000358	mg/L	No
Diclofop-methyl	2023/12/04	0.000119	mg/L	No
Dimethoate	2023/12/04	0.000179	mg/L	No
Diquat	2023/12/04	0.0002	mg/L	No
Diuron	2023/12/04	0.01	mg/L	No
Glyphosate	2023/12/04	0.02	mg/L	No
Malathion	2023/12/04	0.000179	mg/L	No
Metolachlor	2023/12/04	0.000119	mg/L	No
Metribuzin	2023/12/04	0.000119	mg/L	No
Monochlorobenzene	2023/12/04	0.0005	mg/L	No
Paraquat	2023/12/04	0.0002	mg/L	No
Pentachlorophenol	2023/12/04	0.0003	mg/L	No
Phorate	2023/12/04	0.000119	mg/L	No
Picloram	2023/12/04	8.34e-005	mg/L	No

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Polychlorinated Biphenyls(PCB)	2023/12/04	8e-005	mg/L	No
Prometryne	2023/12/04	5.97e-005	mg/L	No
Simazine	2023/12/04	0.000179	mg/L	No
Terbufos	2023/12/04	0.000119	mg/L	No
Tetrachloroethylene	2023/12/04	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/04	0.0003	mg/L	No
Triallate	2023/12/04	0.000119	mg/L	No
Trichloroethylene	2023/12/04	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/04	0.0002	mg/L	No
Trifluralin	2023/12/04	0.000119	mg/L	No
Vinyl Chloride	2023/12/04	0.0001	mg/L	No
MCPA	2023/12/04	0.00596	mg/L	No

FALCONBRIDGE WELL #7

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2023/12/04	0.000225	mg/L	No
Atrazine + N-dealkylated metabolites	2023/12/04	0.0005	mg/L	No
Azinphos-methyl	2023/12/04	0.000169	mg/L	No
Benzene	2023/12/04	0.0001	mg/L	No
Benzo(a)pyrene	2023/12/04	9e-006	mg/L	No
Bromoxynil	2023/12/04	9.25e-005	mg/L	No
Carbaryl	2023/12/04	0.002	mg/L	No
Carbofuran	2023/12/04	0.004	mg/L	No
Carbon Tetrachloride	2023/12/04	0.0002	mg/L	No
Chlorpyrifos	2023/12/04	0.000169	mg/L	No
Diazinon	2023/12/04	0.000169	mg/L	No
Dicamba	2023/12/04	8.09e-005	mg/L	No
1,2-Dichlorobenzene	2023/12/04	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/04	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/04	0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/12/04	0.0003	mg/L	No
Dichloromethane	2023/12/04	0.001	mg/L	No
2-4 Dichlorophenol	2023/12/04	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/04	0.000347	mg/L	No
Diclofop-methyl	2023/12/04	0.000116	mg/L	No
Dimethoate	2023/12/04	0.000169	mg/L	No
Diquat	2023/12/04	0.0002	mg/L	No
Diuron	2023/12/04	0.01	mg/L	No
Glyphosate	2023/12/04	0.02	mg/L	No
Malathion	2023/12/04	0.000169	mg/L	No
Metolachlor	2023/12/04	0.000113	mg/L	No
Metribuzin	2023/12/04	0.000113	mg/L	No
Monochlorobenzene	2023/12/04	0.0005	mg/L	No
Paraquat	2023/12/04	0.0002	mg/L	No
Pentachlorophenol	2023/12/04	0.0003	mg/L	No
Phorate	2023/12/04	0.000113	mg/L	No
Picloram	2023/12/04	8.09e-005	mg/L	No
Polychlorinated Biphenyls(PCB)	2023/12/04	6e-005	mg/L	No
Prometryne	2023/12/04	5.63e-005	mg/L	No
Simazine	2023/12/04	0.000169	mg/L	No
Terbufos	2023/12/04	0.000113	mg/L	No

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Tetrachloroethylene	2023/12/04	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/04	0.0003	mg/L	No
Triallate	2023/12/04	0.000113	mg/L	No
Trichloroethylene	2023/12/04	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/04	0.0002	mg/L	No
Trifluralin	2023/12/04	0.000113	mg/L	No
Vinyl Chloride	2023/12/04	0.0001	mg/L	No
MCPA	2023/12/04	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
Benzo(a)pyrene	9e-006	mg/L	2023/12/04	FALCONBRIDGE WELLS TREATED
Benzo(a)pyrene	9e-006	mg/L	2023/12/04	FALCONBRIDGE WELLS TREATED
Benzo(a)pyrene	1e-005	mg/L	2023/12/04	FALCONBRIDGE WELLS TREATED

(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

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

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	220003519
Drinking-Water System	Onaping-Levack Well Supply
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2023-01-01 To 2023-12-31

<u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u> Does your Drinking-Water System serve more than 10,000 people? Yes ☐ No ☒ Is your annual report available to the public at no charge on a web site on the Internet? Yes ☒ No ☐ Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection. www.greatersudbury.ca TDS-Engineering Department	<u>Complete for all other Categories.</u> Number of Designated Facilities served: 0 Did you provide a copy of your annual report to all Designated Facilities you serve? Yes ☐ No ☒ Number of Interested Authorities you report to: 0 Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes ☐ No ☒
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Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
NA	

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 ☐

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

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

None

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
163410	2023/08/28	Trending not completed	NA		completed trending	2023/09/13
164100	2023/11/21	Distribution chlorine analyzer communication	NA		Test on site	2023/11/21

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					
	52	0 to 0	0 to 1		
Raw: WICKWAS WELL #4					
	52	0 to 0	0 to 3		
Raw: WICKWAS WELL #5					
	52	0 to 0	0 to 1		
Treated: WICKWAS TREATED PUMPHOUSE					
	52	0 to 0	0 to 0	52	10 to 10
Distribution					
	157	0 to 0	0 to 0	39	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	0.05 - 3.09

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

WICKWAS TREATED PUMPHOUSE

Turbidity	8,760	0.01 - 10.00	NTU
Chlorine	8,760	0.79 - 5.00	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.01 - 1.43	mg/L

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	2023/01/05	78.8	mg/L
2009/03/09	Sodium	2023/01/05	86.2	mg/L
2009/03/09	Sodium	2023/01/05	95.8	mg/L
2009/03/09	Sodium	2023/02/06	77.1	mg/L
2009/03/09	Sodium	2023/02/06	79.4	mg/L
2009/03/09	Sodium	2023/02/06	87.8	mg/L
2009/03/09	Sodium	2023/03/07	90.5	mg/L
2009/03/09	Sodium	2023/03/07	99.2	mg/L
2009/03/09	Sodium	2023/03/07	80.8	mg/L
2009/03/09	Sodium	2023/03/08	96.6	mg/L
2009/03/09	Sodium	2023/03/08	101	mg/L
2009/03/09	Sodium	2023/03/08	116	mg/L
2009/03/09	Sodium	2023/04/04	85.9	mg/L
2009/03/09	Sodium	2023/04/04	88.9	mg/L
2009/03/09	Sodium	2023/04/04	124	mg/L
2009/03/09	Sodium	2023/05/02	64	mg/L
2009/03/09	Sodium	2023/05/02	56.4	mg/L
2009/03/09	Sodium	2023/05/02	85.9	mg/L
2009/03/09	Sodium	2023/06/06	66.7	mg/L
2009/03/09	Sodium	2023/06/06	71.4	mg/L
2009/03/09	Sodium	2023/06/06	77.8	mg/L
2009/03/09	Sodium	2023/06/06	66.7	mg/L
2009/03/09	Sodium	2023/06/06	72.3	mg/L
2009/03/09	Sodium	2023/06/06	79.3	mg/L
2009/03/09	Sodium	2023/07/11	71	mg/L
2009/03/09	Sodium	2023/07/11	91	mg/L
2009/03/09	Sodium	2023/07/11	63.1	mg/L
2009/03/09	Sodium	2023/08/01	9.3	mg/L
2009/03/09	Sodium	2023/08/01	9	mg/L
2009/03/09	Sodium	2023/08/01	9.5	mg/L
2009/03/09	Sodium	2023/09/06	89.3	mg/L
2009/03/09	Sodium	2023/09/06	108	mg/L
2009/03/09	Sodium	2023/09/06	91.4	mg/L
2009/03/09	Sodium	2023/09/06	87	mg/L
2009/03/09	Sodium	2023/09/06	109	mg/L
2009/03/09	Sodium	2023/09/06	87.8	mg/L
2009/03/09	Sodium	2023/10/04	80.5	mg/L
2009/03/09	Sodium	2023/10/04	101	mg/L
2009/03/09	Sodium	2023/10/04	80.8	mg/L
2009/03/09	Sodium	2023/11/07	84.2	mg/L
2009/03/09	Sodium	2023/11/07	82.3	mg/L
2009/03/09	Sodium	2023/11/07	106	mg/L
2009/03/09	Sodium	2023/12/05	81.3	mg/L
2009/03/09	Sodium	2023/12/05	79.1	mg/L
2009/03/09	Sodium	2023/12/05	106	mg/L
2009/03/09	Sodium	2023/12/05	77.6	mg/L
2009/03/09	Sodium	2023/12/05	77.4	mg/L
2009/03/09	Sodium	2023/12/05	95.8	mg/L

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2009/03/09	Sodium	2023/12/13	69.4	mg/L
2009/03/09	Sodium	2023/12/13	82.4	mg/L
2009/03/09	Sodium	2023/12/13	69.2	mg/L

WICKWAS TREATED PUMPHOUSE

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2023/12/05	0.0005	mg/L	No
Arsenic	2023/12/05	0.0017	mg/L	No
Barium	2023/12/05	0.0772	mg/L	No
Boron	2023/12/05	0.002	mg/L	No
Cadmium	2023/12/05	0.0001	mg/L	No
Chromium	2023/12/05	0.0013	mg/L	No
Mercury	2023/12/05	0.0001	mg/L	No
Selenium	2023/12/05	0.00037	mg/L	No
Uranium	2023/12/05	0.001	mg/L	No
Nitrite	2023/03/07	0.05	mg/L	No
	2023/06/06	0.05	mg/L	No
	2023/09/06	0.05	mg/L	No
	2023/12/05	0.05	mg/L	No
Nitrate	2023/03/07	0.49	mg/L	No
	2023/06/06	0.736	mg/L	No
	2023/09/06	0.877	mg/L	No
	2023/12/05	1.06	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			
Distribution	4	0.0001 - 0.0001 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)	2023	0.0082	mg/L	No
HAA (NOTE: show latest annual average)	2023	0.008	mg/L	No

WICKWAS TREATED PUMPHOUSE

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2023/12/05	0.000265	mg/L	No
Atrazine + N-dealkylated metabolites	2023/12/05	0.0005	mg/L	No
Azinphos-methyl	2023/12/05	0.000199	mg/L	No

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Benzene	2023/12/05	0.0001	mg/L	No
Benzo(a)pyrene	2023/12/05	1e-005	mg/L	No
Bromoxynil	2023/12/05	0.0001	mg/L	No
Carbaryl	2023/12/05	0.002	mg/L	No
Carbofuran	2023/12/05	0.004	mg/L	No
Carbon Tetrachloride	2023/12/05	0.0002	mg/L	No
Chlorpyrifos	2023/12/05	0.000199	mg/L	No
Diazinon	2023/12/05	0.000199	mg/L	No
Dicamba	2023/12/05	8.78e-005	mg/L	No
1,2-Dichlorobenzene	2023/12/05	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/05	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/05	0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/12/05	0.0003	mg/L	No
Dichloromethane	2023/12/05	0.001	mg/L	No
2-4 Dichlorophenol	2023/12/05	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/05	0.000376	mg/L	No
Diclofop-methyl	2023/12/05	0.000125	mg/L	No
Dimethoate	2023/12/05	0.000199	mg/L	No
Diquat	2023/12/05	0.0002	mg/L	No
Diuron	2023/12/05	0.01	mg/L	No
Glyphosate	2023/12/05	0.02	mg/L	No
Malathion	2023/12/05	0.000199	mg/L	No
Metolachlor	2023/12/05	0.000133	mg/L	No
Metribuzin	2023/12/05	0.000133	mg/L	No
Monochlorobenzene	2023/12/05	0.0005	mg/L	No
Paraquat	2023/12/05	0.0002	mg/L	No
Pentachlorophenol	2023/12/05	0.0003	mg/L	No
Phorate	2023/12/05	0.000133	mg/L	No
Picloram	2023/12/05	8.78e-005	mg/L	No
Polychlorinated Biphenyls(PCB)	2023/12/05	6e-005	mg/L	No
Prometryne	2023/12/05	6.63e-005	mg/L	No
Simazine	2023/12/05	0.000199	mg/L	No
Terbufos	2023/12/05	0.000133	mg/L	No
Tetrachloroethylene	2023/12/05	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/05	0.0003	mg/L	No
Triallate	2023/12/05	0.000133	mg/L	No
Trichloroethylene	2023/12/05	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/05	0.0002	mg/L	No
Trifluralin	2023/12/05	0.000133	mg/L	No
Vinyl Chloride	2023/12/05	0.0001	mg/L	No
MCPA	2023/12/05	0.00627	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
Benzo(a)pyrene	1e-005	mg/L	2023/12/05	WICKWAS TREATED PUMPHOUSE

(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

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

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	220003485
Drinking-Water System	Sudbury Drinking Water System -Garson
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2023-01-01 To 2023-12-31

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes ☐ No ☒

Is your annual report available to the public at no charge on a web site on the Internet? Yes ☒ No ☐

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

www.greatersudbury.ca
TDS-Engineering Department

Complete for all other Categories.

Number of Designated Facilities served:

0

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes ☐ No ☒

Number of Interested Authorities you report to:

0

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?

Yes ☐ No ☒

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 ☐

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

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

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

		Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
164233	2023/12/19	improperly disinfected	NA		increased chlorine	2023/12/19
163411	2023/08/28	Trending not completed	NA		completed treanding	2023/09/13
164101	2023/09/24	communication failure no	NA		testing on site	2023/09/24
		reading on continuous chlorine analyzer				

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					
	51	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	0 to 30
Treated: GARSON #2 WELL TREATED					
	51	0 to 0	0 to 0	51	10 to 10
Distribution					
	298	0 to 0	0 to 1	69	10 to 100

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 - 3.30

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

GARSON #1 & #3 WELL TREATED

Turbidity	8,760	0.02 - 1.20	NTU
Chlorine	8,760	0.64 - 3.47	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 0.75	mg/L

GARSON #2 WELL TREATED

Turbidity	8,760	0.01 - 1.68	NTU
Chlorine	8,760	0.00 - 5.00	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.02	mg/L

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	2023/12/04	0.0005	mg/L	No
Arsenic	2023/12/04	0.0033	mg/L	No
Barium	2023/12/04	0.0387	mg/L	No
Boron	2023/12/04	0.002	mg/L	No
Cadmium	2023/12/04	0.0001	mg/L	No
Chromium	2023/12/04	0.0021	mg/L	No
Mercury	2023/12/04	0.0001	mg/L	No
Selenium	2023/12/04	0.00054	mg/L	No
Uranium	2023/12/04	0.0013	mg/L	No
Nitrite	2023/03/06	0.05	mg/L	No
	2023/06/07	0.05	mg/L	No
	2023/09/05	0.05	mg/L	No
	2023/12/04	0.05	mg/L	No

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

Nitrate	2023/03/06	0.527	mg/L	No
	2023/06/07	0.584	mg/L	No
	2023/09/05	0.587	mg/L	No
	2023/12/04	0.46	mg/L	No

GARSON #2 WELL TREATED

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2023/12/04	0.0005	mg/L	No
Arsenic	2023/12/04	0.0033	mg/L	No
Barium	2023/12/04	0.0398	mg/L	No
Boron	2023/12/04	0.003	mg/L	No
Cadmium	2023/12/04	0.0001	mg/L	No
Chromium	2023/12/04	0.0023	mg/L	No
Mercury	2023/12/04	0.0001	mg/L	No
Selenium	2023/12/04	0.00062	mg/L	No
Uranium	2023/12/04	0.0011	mg/L	No
Nitrite	2023/03/06	0.05	mg/L	No
	2023/06/07	0.05	mg/L	No
	2023/09/05	0.05	mg/L	No
	2023/12/04	0.05	mg/L	No
Nitrate	2023/03/06	0.79	mg/L	No
	2023/06/07	0.779	mg/L	No
	2023/09/05	0.672	mg/L	No
	2023/12/04	0.709	mg/L	No
Sodium	2021/06/15	67.50	mg/L	Yes
	2021/06/29	70.80	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			
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)	2023	0.0053	mg/L	No
HAA (NOTE: show latest annual average)	2023	0.008	mg/L	No

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

GARSON #2 WELL TREATED

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2023/12/04	0.000228	mg/L	No
Atrazine + N-dealkylated metabolites	2023/12/04	0.0005	mg/L	No
Azinphos-methyl	2023/12/04	0.000171	mg/L	No
Benzene	2023/12/04	0.0001	mg/L	No
Benzo(a)pyrene	2023/12/04	9e-006	mg/L	No
Bromoxynil	2023/12/04	0.000115	mg/L	No
Carbaryl	2023/12/04	0.002	mg/L	No
Carbofuran	2023/12/04	0.004	mg/L	No
Carbon Tetrachloride	2023/12/04	0.0002	mg/L	No
Chlorpyrifos	2023/12/04	0.000171	mg/L	No
Diazinon	2023/12/04	0.000171	mg/L	No
Dicamba	2023/12/04	0.0001	mg/L	No
1,2-Dichlorobenzene	2023/12/04	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/04	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/04	0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/12/04	0.0003	mg/L	No
Dichloromethane	2023/12/04	0.001	mg/L	No
2-4 Dichlorophenol	2023/12/04	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/04	0.00043	mg/L	No
Diclofop-methyl	2023/12/04	0.000143	mg/L	No
Dimethoate	2023/12/04	0.000171	mg/L	No
Diquat	2023/12/04	0.0002	mg/L	No
Diuron	2023/12/04	0.01	mg/L	No
Glyphosate	2023/12/04	0.02	mg/L	No
Malathion	2023/12/04	0.000171	mg/L	No
Metolachlor	2023/12/04	0.000114	mg/L	No
Metribuzin	2023/12/04	0.000114	mg/L	No
Monochlorobenzene	2023/12/04	0.0005	mg/L	No
Paraquat	2023/12/04	0.0002	mg/L	No
Pentachlorophenol	2023/12/04	0.0003	mg/L	No
Phorate	2023/12/04	0.000114	mg/L	No
Picloram	2023/12/04	0.0001	mg/L	No
Polychlorinated Biphenyls(PCB)	2023/12/04	6e-005	mg/L	No
Prometryne	2023/12/04	5.7e-005	mg/L	No
Simazine	2023/12/04	0.000171	mg/L	No
Terbufos	2023/12/04	0.000114	mg/L	No
Tetrachloroethylene	2023/12/04	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/04	0.0003	mg/L	No
Triallate	2023/12/04	0.000114	mg/L	No
Trichloroethylene	2023/12/04	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/04	0.0002	mg/L	No
Trifluralin	2023/12/04	0.000114	mg/L	No
Vinyl Chloride	2023/12/04	0.0001	mg/L	No
MCPA	2023/12/04	0.00717	mg/L	No

GARSON #1 & #3 WELL TREATED

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2023/12/04	0.000239	mg/L	No

Atrazine + N-dealkylated metabolites	2023/12/04	0.0005	mg/L	No
Azinphos-methyl	2023/12/04	0.000179	mg/L	No
Benzene	2023/12/04	0.0001	mg/L	No
Benzo(a)pyrene	2023/12/04	9e-006	mg/L	No
Bromoxynil	2023/12/04	9.82e-005	mg/L	No
Carbaryl	2023/12/04	0.002	mg/L	No
Carbofuran	2023/12/04	0.004	mg/L	No
Carbon Tetrachloride	2023/12/04	0.0002	mg/L	No
Chlorpyrifos	2023/12/04	0.000179	mg/L	No
Diazinon	2023/12/04	0.000179	mg/L	No
Dicamba	2023/12/04	8.59e-005	mg/L	No
1,2-Dichlorobenzene	2023/12/04	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/04	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/04	0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/12/04	0.0003	mg/L	No
Dichloromethane	2023/12/04	0.001	mg/L	No
2-4 Dichlorophenol	2023/12/04	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/04	0.000368	mg/L	No
Diclofop-methyl	2023/12/04	0.000123	mg/L	No
Dimethoate	2023/12/04	0.000179	mg/L	No
Diquat	2023/12/04	0.0002	mg/L	No
Diuron	2023/12/04	0.01	mg/L	No
Glyphosate	2023/12/04	0.02	mg/L	No
Malathion	2023/12/04	0.000179	mg/L	No
Metolachlor	2023/12/04	0.000119	mg/L	No
Metribuzin	2023/12/04	0.000119	mg/L	No
Monochlorobenzene	2023/12/04	0.0005	mg/L	No
Paraquat	2023/12/04	0.0002	mg/L	No
Pentachlorophenol	2023/12/04	0.0003	mg/L	No
Phorate	2023/12/04	0.000119	mg/L	No
Picloram	2023/12/04	8.59e-005	mg/L	No
Polychlorinated Biphenyls(PCB)	2023/12/04	6e-005	mg/L	No
Prometryne	2023/12/04	5.97e-005	mg/L	No
Simazine	2023/12/04	0.000179	mg/L	No
Terbufos	2023/12/04	0.000119	mg/L	No
Tetrachloroethylene	2023/12/04	0.00328	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/04	0.0003	mg/L	No
Triallate	2023/12/04	0.000119	mg/L	No
Trichloroethylene	2023/12/04	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/04	0.0002	mg/L	No
Trifluralin	2023/12/04	0.000119	mg/L	No
Vinyl Chloride	2023/12/04	0.0001	mg/L	No
MCPA	2023/12/04	0.00614	mg/L	No

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

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
Benzo(a)pyrene	9e-006	mg/L	2023/12/04	GARSON #1 & #3 WELL TREATED
Benzo(a)pyrene	9e-006	mg/L	2023/12/04	GARSON #2 WELL TREATED

(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

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

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	220003537
Drinking-Water System	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 2023-01-01 To 2023-12-31

<u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u> Does your Drinking-Water System serve more than 10,000 people? Yes ☒ No ☐ Is your annual report available to the public at no charge on a web site on the Internet? Yes ☒ No ☐ Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection. www.greatersudbury.ca TDS-Engineering Department	<u>Complete for all other Categories.</u> Number of Designated Facilities served: 0 Did you provide a copy of your annual report to all Designated Facilities you serve? Yes ☐ No ☒ Number of Interested Authorities you report to: 0 Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes ☐ No ☒
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Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
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 ☒

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

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

New Membranes replaced in one train for filtration. total of \$ 1 1000 000
 LED lighting upgrades \$ 1500
 3 chlorine analyzer's at the reservoir \$ 25 000

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
164105	2023/11/21	Distribution chlorine analyzer communication	No readout	mg/L	Test on site	2023/11/21

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 0	0 to 1		
Treated: SUDBURY (DAVID ST) Water Treatment Plant					
	52	0 to 0	0 to 0	52	10 to 20
Distribution					
	1,585	0 to 0	0 to 0	388	10 to 70

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	0.60 - 2.01

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	8,760	0.58 - 3.16	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.00 - 1.40	mg/L

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	2023/12/04	0.0005	mg/L	No
Arsenic	2023/12/04	0.0019	mg/L	No
Barium	2023/12/04	0.0129	mg/L	No
Boron	2023/12/04	0.002	mg/L	No
Cadmium	2023/12/04	0.0001	mg/L	No
Chromium	2023/12/04	0.001	mg/L	No
Mercury	2023/12/04	0.0001	mg/L	No
Selenium	2023/12/04	0.0012	mg/L	No
Uranium	2023/12/04	0.001	mg/L	No
Nitrite	2023/03/06	0.05	mg/L	No
	2023/06/05	0.05	mg/L	No
	2023/09/05	0.05	mg/L	No
	2023/12/04	0.05	mg/L	No
Nitrate	2023/03/06	0.05	mg/L	No
	2023/06/05	0.12	mg/L	No
	2023/09/05	0.23	mg/L	No
	2023/12/04	0.05	mg/L	No
Sodium	2023/05/01	65.00	mg/L	Yes
	2023/10/03	49.50	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 - 0.00069 mg/L	0
Distribution	13	0.0001 - 0.00012 mg/L	0

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

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (NOTE: show latest annual average)	2023	0.0680	mg/L	No
HAA (NOTE: show latest annual average)	2023	0.055	mg/L	No

SUDBURY (DAVID ST) Water Treatment Plant

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2023/12/04	0.000232	mg/L	No
Atrazine + N-dealkylated metabolites	2023/12/04	0.0005	mg/L	No
Azinphos-methyl	2023/12/04	0.000174	mg/L	No
Benzene	2023/12/04	0.0001	mg/L	No
Benzo(a)pyrene	2023/12/04	9e-006	mg/L	No
Bromoxynil	2023/12/04	9.3e-005	mg/L	No
Carbaryl	2023/12/04	0.002	mg/L	No
Carbofuran	2023/12/04	0.003	mg/L	No
Carbon Tetrachloride	2023/12/04	0.0002	mg/L	No
Chlorpyrifos	2023/12/04	0.000174	mg/L	No
Diazinon	2023/12/04	0.000174	mg/L	No
Dicamba	2023/12/04	8.13e-005	mg/L	No
1,2-Dichlorobenzene	2023/12/04	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/04	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/04	0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/12/04	0.0003	mg/L	No
Dichloromethane	2023/12/04	0.001	mg/L	No
2-4 Dichlorophenol	2023/12/04	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/04	0.000349	mg/L	No
Diclofop-methyl	2023/12/04	0.000116	mg/L	No
Dimethoate	2023/12/04	0.000174	mg/L	No
Diquat	2023/12/04	0.0002	mg/L	No
Diuron	2023/12/04	0.01	mg/L	No
Glyphosate	2023/12/04	0.02	mg/L	No
Malathion	2023/12/04	0.000174	mg/L	No
Metolachlor	2023/12/04	0.000116	mg/L	No
Metribuzin	2023/12/04	0.000116	mg/L	No
Monochlorobenzene	2023/12/04	0.0005	mg/L	No
Paraquat	2023/12/04	0.0002	mg/L	No
Pentachlorophenol	2023/12/04	0.0003	mg/L	No
Phorate	2023/12/04	0.000116	mg/L	No
Picloram	2023/12/04	8.13e-005	mg/L	No
Polychlorinated Biphenyls(PCB)	2023/12/04	6e-005	mg/L	No
Prometryne	2023/12/04	5.81e-005	mg/L	No
Simazine	2023/12/04	0.000174	mg/L	No
Terbufos	2023/12/04	0.000116	mg/L	No
Tetrachloroethylene	2023/12/04	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/04	0.0003	mg/L	No
Triallate	2023/12/04	0.000116	mg/L	No
Trichloroethylene	2023/12/04	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/04	0.0002	mg/L	No

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

Trifluralin	2023/12/04	0.000116	mg/L	No
Vinyl Chloride	2023/12/04	0.0001	mg/L	No
MCPA	2023/12/04	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
Benzo(a)pyrene	9e-006	mg/L	2023/12/04	SUDBURY (DAVID ST) Water Treatment Plant

(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

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

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	210001111
Drinking-Water System	Sudbury Drinking Water System - Wanapitei
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2023-01-01 To 2023-12-31

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes ☒ No ☐

Is your annual report available to the public at no charge on a web site on the Internet? Yes ☒ No ☐

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

www.greatersudbury.ca
TDS-Engineering Department

Complete for all other Categories.

Number of Designated Facilities served:

0

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes ☐ No ☒

Number of Interested Authorities you report to:

0

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?

Yes ☐ No ☒

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 ☐

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

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 Wahnapiatae. 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

LED lighting upgrades \$ 12 500
 Pump motor \$15 500
 Flow meter \$7 500

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
163964	2023/11/01	Total Coliform	148	CFU/100 ml	Resample	2023/11/06
163969	2023/11/04	Total Coliform	29	CFU/100 ml	Resample	2023/11/05
164104	2023/11/21	Distribution chlorine analyzer communication	NA		sample on site	2023/11/21

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 30	0 to 410		
Treated: HL PUMP STATION, Sudbury (Wanapitei) WTP					
	52	0 to 0	0 to 0	52	10 to 10
Distribution					
	1,585	0 to 0	0 to 148	388	0 to 30

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

	Number of Grab Samples	Range of Results (min #) - (max #)
Chlorine Residual Distribution System	8,760	0.60 - 2.01

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

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

HL PUMP STATION, Sudbury (Wanapitei) WTP

Turbidity	8,760	0.02 - 0.63	NTU
Chlorine	8,760	0.40 - 4.38	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.00 - 1.47	mg/L

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	2023/12/06	0.0005	mg/L	No
Arsenic	2023/12/06	0.001	mg/L	No
Barium	2023/12/06	0.0138	mg/L	No
Boron	2023/12/06	0.002	mg/L	No
Cadmium	2023/12/06	0.0001	mg/L	No
Chromium	2023/12/06	0.001	mg/L	No
Mercury	2023/12/06	0.0001	mg/L	No
Selenium	2023/12/06	0.0002	mg/L	No
Uranium	2023/12/06	0.001	mg/L	No
Nitrite	2023/03/07	0.05	mg/L	No
	2023/06/06	0.05	mg/L	No
	2023/09/07	0.05	mg/L	No
	2023/12/06	0.05	mg/L	No
Nitrate	2023/03/07	0.22	mg/L	No
	2023/06/06	0.069	mg/L	No
	2023/09/07	0.05	mg/L	No
	2023/12/06	0.082	mg/L	No
Sodium	2021/11/30	1.67	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	25	0.0001 - 0.00051 mg/L	0
Distribution	12	0.0001 - 0.00016 mg/L	0

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

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (NOTE: show latest annual average)	2023	0.0570	mg/L	No
HAA (NOTE: show latest annual average)	2023	0.045	mg/L	No

HL PUMP STATION, Sudbury (Wanapitei) WTP

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2023/12/06	0.000235	mg/L	No
Atrazine + N-dealkylated metabolites	2023/12/06	0.0005	mg/L	No
Azinphos-methyl	2023/12/06	0.000177	mg/L	No
Benzene	2023/12/06	0.0001	mg/L	No
Benzo(a)pyrene	2023/12/06	9e-006	mg/L	No
Bromoxynil	2023/12/06	9.45e-005	mg/L	No
Carbaryl	2023/12/06	0.002	mg/L	No
Carbofuran	2023/12/06	0.004	mg/L	No
Carbon Tetrachloride	2023/12/06	0.0002	mg/L	No
Chlorpyrifos	2023/12/06	0.000177	mg/L	No
Diazinon	2023/12/06	0.000177	mg/L	No
Dicamba	2023/12/06	8.27e-005	mg/L	No
1,2-Dichlorobenzene	2023/12/06	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/06	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/06	0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/12/06	0.0003	mg/L	No
Dichloromethane	2023/12/06	0.001	mg/L	No
2-4 Dichlorophenol	2023/12/06	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/06	0.000354	mg/L	No
Diclofop-methyl	2023/12/06	0.000118	mg/L	No
Dimethoate	2023/12/06	0.000177	mg/L	No
Diquat	2023/12/06	0.0002	mg/L	No
Diuron	2023/12/06	0.01	mg/L	No
Glyphosate	2023/12/06	0.02	mg/L	No
Malathion	2023/12/06	0.000177	mg/L	No
Metolachlor	2023/12/06	0.000118	mg/L	No
Metribuzin	2023/12/06	0.000118	mg/L	No
Monochlorobenzene	2023/12/06	0.0005	mg/L	No
Paraquat	2023/12/06	0.0002	mg/L	No
Pentachlorophenol	2023/12/06	0.0003	mg/L	No
Phorate	2023/12/06	0.000118	mg/L	No
Picloram	2023/12/06	8.27e-005	mg/L	No
Polychlorinated Biphenyls(PCB)	2023/12/06	6e-005	mg/L	No
Prometryne	2023/12/06	5.89e-005	mg/L	No
Simazine	2023/12/06	0.000177	mg/L	No
Terbufos	2023/12/06	0.000118	mg/L	No
Tetrachloroethylene	2023/12/06	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/06	0.0002	mg/L	No
Triallate	2023/12/06	0.000118	mg/L	No
Trichloroethylene	2023/12/06	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/06	0.0002	mg/L	No

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

Trifluralin	2023/12/06	0.000118	mg/L	No
Vinyl Chloride	2023/12/06	0.0001	mg/L	No
MCPA	2023/12/06	0.00591	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
Benzo(a)pyrene	9e-006	mg/L	2023/12/06	HL PUMP STATION, Sudbury (Wanapitei) WTP

(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

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

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	210000737
Drinking-Water System	Bleazard Valley - Capreol Well Supply
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2023-01-01 To 2023-12-31

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes ☒ No ☐

Is your annual report available to the public at no charge on a web site on the Internet? Yes ☒ No ☐

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

www.greatersudbury.ca
TDS-Engineering Department

Complete for all other Categories.

Number of Designated Facilities served:

0

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes ☐ No ☒

Number of Interested Authorities you report to:

0

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?

Yes ☐ No ☒

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 ☐

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

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

Fluoride analyzers upgrades \$ 48 000
Control valve upgrade \$ 53 000

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
162717	2023/07/21	Boil water advisory	NA		Flush/Resample	2023/07/27
163407	2023/08/28	Trending not completed	NA		trending completed	2023/09/13
163778	2023/10/12	Non NSF piping	NA		piping changed	20/10/28

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 #)

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

Raw: WELL A -DESCHENE WELL					
	20	0 to 0	0 to 0		
Raw: WELL B- KENNETH WELL					
	0				
Raw: WELL C -PHILIPPE WELL					
	52	0 to 0	0 to 2		
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					
	52	0 to 0	0 to 0		
Raw: WELL G -PHARAND WELL					
	52	0 to 0	0 to 0		
Raw: WELL H -MICHELLE WELL					
	46	0 to 0	0 to 1		
Raw: WELL I -I WELL					
	0				
Raw: WELL J - GREEN LAKE					
	50	0 to 0	0 to 0		
Raw: WELL M - GREEN LAKE					
	33	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		

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

Treated: CAPREOL WELL SUPPLY - WELL M&J					
	83	0 to 0	0 to 0	83	0 to 20
Treated: WELL A - DESCHENE WELL					
	20	0 to 0	0 to 0	20	10 to 10
Treated: WELL B - KENNETH WELL					
	0			0	
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	10 to 10
Treated: WELL F - LINDEN WELL					
	52	0 to 0	0 to 0	52	10 to 10
Treated: WELL G - PHARAND WELL					
	52	0 to 0	0 to 0	52	10 to 20
Treated: WELL H - MICHELLE WELL					
	46	0 to 0	0 to 0	46	10 to 20
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	10 to 20
Distribution					
	637	0 to 0	0 to 0	180	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	0.11 - 1.90

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	0.11 - 5.00	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.00 - 1.10	mg/L

WELL A - DESCHENE WELL

Turbidity	8,760	0.01 - 2.00	NTU
Chlorine	8,760	0.10 - 5.00	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.40	mg/L

WELL B - KENNETH WELL

Turbidity			
Chlorine			
Fluoride (If the DWS provides fluoridation)			

WELL C - PHILIPPE WELL

Turbidity	8,760	0.01 - 2.00	NTU
Chlorine	8,760	0.60 - 2.40	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.21	mg/L

WELL D - FROST WELL

Turbidity	8,760	0.02 - 2.00	NTU
Chlorine	8,760	0.45 - 3.94	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.17	mg/L

WELL E - NOTRE DAME WELL

Turbidity	8,760	0.01 - 2.00	NTU
Chlorine	8,760	0.24 - 3.50	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.48	mg/L

WELL F - LINDEN WELL

Turbidity	8,760	0.03 - 2.00	NTU
Chlorine	8,760	0.40 - 3.59	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.00 - 1.04	mg/L

WELL G - PHARAND WELL

Turbidity	8,760	0.03 - 0.54	NTU
Chlorine	8,760	0.30 - 3.95	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.20	mg/L

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

WELL H - MICHELLE WELL

Turbidity	8,760	0.00 - 2.00	NTU
Chlorine	8,760	0.45 - 5.00	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.38	mg/L

WELL I - I WELL

Turbidity			
Chlorine			
Fluoride (If the DWS provides fluoridation)			

WELL Q- CHENIER

Turbidity	8,760	0.01 - 5.44	NTU
Chlorine	8,760	0.45 - 4.99	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.07 - 1.30	mg/L

WELL R

Turbidity	8,760	0.02 - 10.00	NTU
Chlorine	8,760	0.52 - 3.43	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.07 - 1.02	mg/L

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	2023/12/05	0.0005	mg/L	No
Arsenic	2023/12/05	0.001	mg/L	No
Barium	2023/12/05	0.0143	mg/L	No
Boron	2023/12/05	0.002	mg/L	No
Cadmium	2023/12/05	0.0001	mg/L	No
Chromium	2023/12/05	0.0023	mg/L	No
Mercury	2023/12/05	0.0001	mg/L	No
Selenium	2023/12/05	0.00057	mg/L	No
Uranium	2023/12/05	0.001	mg/L	No
Nitrite				
	2023/12/05	0.05	mg/L	No

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

Nitrate				
	2023/12/05	2.45	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				
Nitrate				
Sodium	2021/02/22	20.40	mg/L	Yes

WELL C - PHILIPPE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2023/12/05	0.0005	mg/L	No
Arsenic	2023/12/05	0.0013	mg/L	No
Barium	2023/12/05	0.0103	mg/L	No
Boron	2023/12/05	0.002	mg/L	No
Cadmium	2023/12/05	0.0001	mg/L	No
Chromium	2023/12/05	0.0019	mg/L	No
Mercury	2023/12/05	0.0001	mg/L	No
Selenium	2023/12/05	0.0002	mg/L	No
Uranium	2023/12/05	0.001	mg/L	No
Nitrite	2023/03/06	0.05	mg/L	No
	2023/06/05	0.05	mg/L	No
	2023/09/05	0.05	mg/L	No
	2023/12/05	0.05	mg/L	No
Nitrate	2023/03/06	0.4	mg/L	No
	2023/06/05	0.42	mg/L	No
	2023/09/05	0.39	mg/L	No
	2023/12/05	0.39	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	2023/12/06	0.0005	mg/L	No
Arsenic	2023/12/06	0.0018	mg/L	No
Barium	2023/12/06	0.0377	mg/L	No
Boron	2023/12/06	0.002	mg/L	No
Cadmium	2023/12/06	0.0001	mg/L	No
Chromium	2023/12/06	0.001	mg/L	No
Mercury	2023/12/06	0.0001	mg/L	No
Selenium	2023/12/06	0.00021	mg/L	No
Uranium	2023/12/06	0.001	mg/L	No
Nitrite	2023/03/06	0.05	mg/L	No
	2023/06/05	0.05	mg/L	No
	2023/09/06	0.05	mg/L	No
	2023/12/06	0.05	mg/L	No
Nitrate	2023/03/06	0.504	mg/L	No
	2023/06/05	0.591	mg/L	No
	2023/09/06	0.765	mg/L	No
	2023/12/06	0.575	mg/L	No
Sodium	2021/02/22	22.40	mg/L	Yes

WELL E - NOTRE DAME WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2023/12/05	0.0005	mg/L	No
Arsenic	2023/12/05	0.001	mg/L	No
Barium	2023/12/05	0.0146	mg/L	No
Boron	2023/12/05	0.002	mg/L	No
Cadmium	2023/12/05	0.0001	mg/L	No
Chromium	2023/12/05	0.0012	mg/L	No
Mercury	2023/12/05	0.0001	mg/L	No
Selenium	2023/12/05	0.0002	mg/L	No
Uranium	2023/12/05	0.001	mg/L	No
Nitrite	2023/03/06	0.05	mg/L	No
	2023/06/06	0.05	mg/L	No
	2023/09/05	0.05	mg/L	No
	2023/12/05	0.05	mg/L	No
Nitrate	2023/03/06	1.37	mg/L	No
	2023/06/06	1.19	mg/L	No
	2023/09/05	1.41	mg/L	No
	2023/12/05	1.23	mg/L	No

WELL F - LINDEN WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
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Antimony	2023/12/06	0.0005	mg/L	No
Arsenic	2023/12/06	0.002	mg/L	No
Barium	2023/12/06	0.0234	mg/L	No
Boron	2023/12/06	0.002	mg/L	No
Cadmium	2023/12/06	0.0001	mg/L	No
Chromium	2023/12/06	0.001	mg/L	No
Mercury	2023/12/06	0.0001	mg/L	No
Selenium	2023/12/06	0.0004	mg/L	No
Uranium	2023/12/06	0.001	mg/L	No
Nitrite	2023/03/07	0.05	mg/L	No
	2023/06/06	0.05	mg/L	No
	2023/09/06	0.05	mg/L	No
	2023/12/06	0.05	mg/L	No
Nitrate	2023/03/07	0.3	mg/L	No
	2023/06/06	0.42	mg/L	No
	2023/09/06	0.41	mg/L	No
	2023/12/06	0.24	mg/L	No

WELL G - PHARAND WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2023/12/06	0.0005	mg/L	No
Arsenic	2023/12/06	0.0026	mg/L	No
Barium	2023/12/06	0.061	mg/L	No
Boron	2023/12/06	0.0051	mg/L	No
Cadmium	2023/12/06	0.0001	mg/L	No
Chromium	2023/12/06	0.001	mg/L	No
Mercury	2023/12/06	0.0001	mg/L	No
Selenium	2023/12/06	0.00047	mg/L	No
Uranium	2023/12/06	0.001	mg/L	No
Nitrite	2023/03/06	0.05	mg/L	No
	2023/06/05	0.05	mg/L	No
	2023/09/06	0.05	mg/L	No
	2023/12/06	0.05	mg/L	No
Nitrate	2023/03/06	3.39	mg/L	No
	2023/06/05	3.03	mg/L	No
	2023/09/06	3.24	mg/L	No
	2023/12/06	3.12	mg/L	No
Sodium	2021/02/19	88.00	mg/L	Yes

WELL H - MICHELLE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2023/12/05	0.0005	mg/L	No
Arsenic	2023/12/05	0.0013	mg/L	No
Barium	2023/12/05	0.0178	mg/L	No
Boron	2023/12/05	0.002	mg/L	No
Cadmium	2023/12/05	0.0001	mg/L	No
Chromium	2023/12/05	0.0016	mg/L	No
Mercury	2023/12/05	0.0001	mg/L	No
Selenium	2023/12/05	0.00021	mg/L	No

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Uranium	2023/12/05	0.001	mg/L	No
Nitrite	2023/03/07	0.05	mg/L	No
	2023/06/05	0.05	mg/L	No
	2023/09/05	0.05	mg/L	No
	2023/12/05	0.05	mg/L	No
Nitrate	2023/03/07	1.37	mg/L	No
	2023/06/05	1.68	mg/L	No
	2023/09/05	1.6	mg/L	No
	2023/12/05	1.48	mg/L	No
Sodium	2021/02/19	30.10	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				

WELL J - Capreol

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2023/12/06	0.0005	mg/L	No
Arsenic	2023/12/06	0.001	mg/L	No
Barium	2023/12/06	0.0166	mg/L	No
Boron	2023/12/06	0.002	mg/L	No
Cadmium	2023/12/06	0.0001	mg/L	No
Chromium	2023/12/06	0.001	mg/L	No
Mercury	2023/12/06	0.0001	mg/L	No
Selenium	2023/12/06	0.0002	mg/L	No
Uranium	2023/12/06	0.001	mg/L	No
Nitrite	2023/03/07	0.05	mg/L	No
	2023/06/06	0.05	mg/L	No
	2023/09/05	0.05	mg/L	No
	2023/12/06	0.05	mg/L	No

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Nitrate	2023/03/07	0.05	mg/L	No
	2023/06/06	0.05	mg/L	No
	2023/09/05	0.063	mg/L	No
	2023/12/06	0.05	mg/L	No

WELL M - Capreol

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2023/12/06	0.0005	mg/L	No
Arsenic	2023/12/06	0.001	mg/L	No
Barium	2023/12/06	0.0322	mg/L	No
Boron	2023/12/06	0.002	mg/L	No
Cadmium	2023/12/06	0.0001	mg/L	No
Chromium	2023/12/06	0.001	mg/L	No
Mercury	2023/12/06	0.0001	mg/L	No
Selenium	2023/12/06	0.00021	mg/L	No
Uranium	2023/12/06	0.001	mg/L	No
Nitrite	2023/03/07	0.05	mg/L	No
	2023/12/06	0.05	mg/L	No
Nitrate	2023/03/07	0.05	mg/L	No
	2023/12/06	0.05	mg/L	No

WELL Q- CHENIER

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2023/12/06	0.0005	mg/L	No
Arsenic	2023/12/06	0.001	mg/L	No
Barium	2023/12/06	0.0249	mg/L	No
Boron	2023/12/06	0.002	mg/L	No
Cadmium	2023/12/06	0.0001	mg/L	No
Chromium	2023/12/06	0.001	mg/L	No
Mercury	2023/12/06	0.0001	mg/L	No
Selenium	2023/12/06	0.00059	mg/L	No
Uranium	2023/12/06	0.001	mg/L	No
Nitrite	2023/03/06	0.05	mg/L	No
	2023/06/06	0.05	mg/L	No
	2023/09/05	0.05	mg/L	No
	2023/12/06	0.05	mg/L	No
Nitrate	2023/03/06	1.42	mg/L	No
	2023/06/06	1.76	mg/L	No
	2023/09/05	1.57	mg/L	No
	2023/12/06	1.22	mg/L	No

WELL R

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Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2023/12/06	0.0005	mg/L	No
Arsenic	2023/12/06	0.0011	mg/L	No
Barium	2023/12/06	0.0228	mg/L	No
Boron	2023/12/06	0.002	mg/L	No
Cadmium	2023/12/06	0.0001	mg/L	No
Chromium	2023/12/06	0.001	mg/L	No
Mercury	2023/12/06	0.0001	mg/L	No
Selenium	2023/12/06	0.00041	mg/L	No
Uranium	2023/12/06	0.001	mg/L	No
Nitrite	2023/03/07	0.05	mg/L	No
	2023/06/06	0.05	mg/L	No
	2023/09/05	0.05	mg/L	No
	2023/12/06	0.054	mg/L	No
Nitrate	2023/03/07	0.31	mg/L	No
	2023/06/06	0.26	mg/L	No
	2023/09/05	0.2	mg/L	No
	2023/12/06	0.25	mg/L	No
Sodium	2021/02/19	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			
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)	2023	0.0121	mg/L	No
HAA (NOTE: show latest annual average)	2023	0.015	mg/L	No

WELL A - DESCHENE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2023/12/05	0.000277	mg/L	No
Atrazine + N-dealkylated metabolites	2023/12/05	0.0005	mg/L	No
Azinphos-methyl	2023/12/05	0.000207	mg/L	No
Benzene	2023/12/05	0.0001	mg/L	No
Benzo(a)pyrene	2023/12/05	9e-006	mg/L	No
Bromoxynil	2023/12/05	9.31e-005	mg/L	No
Carbaryl	2023/12/05	0.002	mg/L	No
Carbofuran	2023/12/05	0.003	mg/L	No

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Carbon Tetrachloride	2023/12/05	0.0002	mg/L	No
Chlorpyrifos	2023/12/05	0.000207	mg/L	No
Diazinon	2023/12/05	0.000207	mg/L	No
Dicamba	2023/12/05	8.15e-005	mg/L	No
1,2-Dichlorobenzene	2023/12/05	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/05	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/05	0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/12/05	0.0003	mg/L	No
Dichloromethane	2023/12/05	0.001	mg/L	No
2-4 Dichlorophenol	2023/12/05	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/05	0.000349	mg/L	No
Diclofop-methyl	2023/12/05	0.000116	mg/L	No
Dimethoate	2023/12/05	0.000207	mg/L	No
Diquat	2023/12/05	0.0002	mg/L	No
Diuron	2023/12/05	0.01	mg/L	No
Glyphosate	2023/12/05	0.02	mg/L	No
Malathion	2023/12/05	0.000207	mg/L	No
Metolachlor	2023/12/05	0.000138	mg/L	No
Metribuzin	2023/12/05	0.000138	mg/L	No
Monochlorobenzene	2023/12/05	0.0005	mg/L	No
Paraquat	2023/12/05	0.0002	mg/L	No
Pentachlorophenol	2023/12/05	0.0003	mg/L	No
Phorate	2023/12/05	0.000138	mg/L	No
Picloram	2023/12/05	8.15e-005	mg/L	No
Polychlorinated Biphenyls(PCB)	2023/12/05	6e-005	mg/L	No
Prometryne	2023/12/05	6.92e-005	mg/L	No
Simazine	2023/12/05	0.000207	mg/L	No
Terbufos	2023/12/05	0.000138	mg/L	No
Tetrachloroethylene	2023/12/05	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/05	0.0003	mg/L	No
Triallate	2023/12/05	0.000138	mg/L	No
Trichloroethylene	2023/12/05	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/05	0.0002	mg/L	No
Trifluralin	2023/12/05	0.000138	mg/L	No
Vinyl Chloride	2023/12/05	0.0001	mg/L	No
MCPA	2023/12/05	0.00582	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	1e-005	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

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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	8.39e-005	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/01	6e-005	mg/L	No
Prometryne	2020/12/01	5.9e-005	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	2023/12/05	0.000253	mg/L	No
Atrazine + N-dealkylated metabolites	2023/12/05	0.0005	mg/L	No
Azinphos-methyl	2023/12/05	0.000189	mg/L	No
Benzene	2023/12/05	0.0001	mg/L	No
Benzo(a)pyrene	2023/12/05	9e-006	mg/L	No
Bromoxynil	2023/12/05	9.17e-005	mg/L	No
Carbaryl	2023/12/05	0.002	mg/L	No
Carbofuran	2023/12/05	0.003	mg/L	No
Carbon Tetrachloride	2023/12/05	0.0002	mg/L	No
Chlorpyrifos	2023/12/05	0.000189	mg/L	No
Diazinon	2023/12/05	0.000189	mg/L	No
Dicamba	2023/12/05	8.02e-005	mg/L	No
1,2-Dichlorobenzene	2023/12/05	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/05	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/05	0.0002	mg/L	No

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1,1-Dichloroethylene (vinylidene chloride)	2023/12/05	0.0003	mg/L	No
Dichloromethane	2023/12/05	0.001	mg/L	No
2-4 Dichlorophenol	2023/12/05	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/05	0.000344	mg/L	No
Diclofop-methyl	2023/12/05	0.000115	mg/L	No
Dimethoate	2023/12/05	0.000189	mg/L	No
Diquat	2023/12/05	0.0002	mg/L	No
Diuron	2023/12/05	0.01	mg/L	No
Glyphosate	2023/12/05	0.02	mg/L	No
Malathion	2023/12/05	0.000189	mg/L	No
Metolachlor	2023/12/05	0.000126	mg/L	No
Metribuzin	2023/12/05	0.000126	mg/L	No
Monochlorobenzene	2023/12/05	0.0005	mg/L	No
Paraquat	2023/12/05	0.0002	mg/L	No
Pentachlorophenol	2023/12/05	0.0003	mg/L	No
Phorate	2023/12/05	0.000126	mg/L	No
Picloram	2023/12/05	8.02e-005	mg/L	No
Polychlorinated Biphenyls(PCB)	2023/12/05	6e-005	mg/L	No
Prometryne	2023/12/05	6.31e-005	mg/L	No
Simazine	2023/12/05	0.000189	mg/L	No
Terbufos	2023/12/05	0.000126	mg/L	No
Tetrachloroethylene	2023/12/05	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/05	0.0003	mg/L	No
Triallate	2023/12/05	0.000126	mg/L	No
Trichloroethylene	2023/12/05	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/05	0.0002	mg/L	No
Trifluralin	2023/12/05	0.000126	mg/L	No
Vinyl Chloride	2023/12/05	0.0001	mg/L	No
MCPA	2023/12/05	0.00573	mg/L	No

WELL D - FROST WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2023/12/06	0.000236	mg/L	No
Atrazine + N-dealkylated metabolites	2023/12/06	0.0005	mg/L	No
Azinphos-methyl	2023/12/06	0.000177	mg/L	No
Benzene	2023/12/06	0.0001	mg/L	No
Benzo(a)pyrene	2023/12/06	1e-005	mg/L	No
Bromoxynil	2023/12/06	9.49e-005	mg/L	No
Carbaryl	2023/12/06	0.002	mg/L	No
Carbofuran	2023/12/06	0.003	mg/L	No
Carbon Tetrachloride	2023/12/06	0.0002	mg/L	No
Chlorpyrifos	2023/12/06	0.000177	mg/L	No
Diazinon	2023/12/06	0.000177	mg/L	No
Dicamba	2023/12/06	8.3e-005	mg/L	No
1,2-Dichlorobenzene	2023/12/06	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/06	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/06	0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/12/06	0.0003	mg/L	No
Dichloromethane	2023/12/06	0.001	mg/L	No
2-4 Dichlorophenol	2023/12/06	0.0002	mg/L	No

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2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/06	0.000356	mg/L	No
Diclofop-methyl	2023/12/06	0.000119	mg/L	No
Dimethoate	2023/12/06	0.000177	mg/L	No
Diquat	2023/12/06	0.0002	mg/L	No
Diuron	2023/12/06	0.01	mg/L	No
Glyphosate	2023/12/06	0.02	mg/L	No
Malathion	2023/12/06	0.000177	mg/L	No
Metolachlor	2023/12/06	0.000118	mg/L	No
Metribuzin	2023/12/06	0.000118	mg/L	No
Monochlorobenzene	2023/12/06	0.0005	mg/L	No
Paraquat	2023/12/06	0.0002	mg/L	No
Pentachlorophenol	2023/12/06	0.0003	mg/L	No
Phorate	2023/12/06	0.000118	mg/L	No
Picloram	2023/12/06	8.3e-005	mg/L	No
Polychlorinated Biphenyls(PCB)	2023/12/06	6e-005	mg/L	No
Prometryne	2023/12/06	5.91e-005	mg/L	No
Simazine	2023/12/06	0.000177	mg/L	No
Terbufos	2023/12/06	0.000118	mg/L	No
Tetrachloroethylene	2023/12/06	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/06	0.0002	mg/L	No
Triallate	2023/12/06	0.000118	mg/L	No
Trichloroethylene	2023/12/06	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/06	0.0002	mg/L	No
Trifluralin	2023/12/06	0.000118	mg/L	No
Vinyl Chloride	2023/12/06	0.0001	mg/L	No
MCPA	2023/12/06	0.00593	mg/L	No

WELL E - NOTRE DAME WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2023/12/05	0.000275	mg/L	No
Atrazine + N-dealkylated metabolites	2023/12/05	0.0005	mg/L	No
Azinphos-methyl	2023/12/05	0.000206	mg/L	No
Benzene	2023/12/05	0.0001	mg/L	No
Benzo(a)pyrene	2023/12/05	9e-006	mg/L	No
Bromoxynil	2023/12/05	9.3e-005	mg/L	No
Carbaryl	2023/12/05	0.002	mg/L	No
Carbofuran	2023/12/05	0.004	mg/L	No
Carbon Tetrachloride	2023/12/05	0.0002	mg/L	No
Chlorpyrifos	2023/12/05	0.000206	mg/L	No
Diazinon	2023/12/05	0.000206	mg/L	No
Dicamba	2023/12/05	8.13e-005	mg/L	No
1,2-Dichlorobenzene	2023/12/05	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/05	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/05	0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/12/05	0.0003	mg/L	No
Dichloromethane	2023/12/05	0.001	mg/L	No
2-4 Dichlorophenol	2023/12/05	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/05	0.000349	mg/L	No
Diclofop-methyl	2023/12/05	0.000116	mg/L	No
Dimethoate	2023/12/05	0.000206	mg/L	No

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Diquat	2023/12/05	0.0002	mg/L	No
Diuron	2023/12/05	0.01	mg/L	No
Glyphosate	2023/12/05	0.02	mg/L	No
Malathion	2023/12/05	0.000206	mg/L	No
Metolachlor	2023/12/05	0.000138	mg/L	No
Metribuzin	2023/12/05	0.000138	mg/L	No
Monochlorobenzene	2023/12/05	0.0005	mg/L	No
Paraquat	2023/12/05	0.0002	mg/L	No
Pentachlorophenol	2023/12/05	0.0003	mg/L	No
Phorate	2023/12/05	0.000138	mg/L	No
Picloram	2023/12/05	8.13e-005	mg/L	No
Polychlorinated Biphenyls(PCB)	2023/12/05	6e-005	mg/L	No
Prometryne	2023/12/05	6.88e-005	mg/L	No
Simazine	2023/12/05	0.000206	mg/L	No
Terbufos	2023/12/05	0.000138	mg/L	No
Tetrachloroethylene	2023/12/05	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/05	0.0003	mg/L	No
Triallate	2023/12/05	0.000138	mg/L	No
Trichloroethylene	2023/12/05	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/05	0.0002	mg/L	No
Trifluralin	2023/12/05	0.000138	mg/L	No
Vinyl Chloride	2023/12/05	0.0001	mg/L	No
MCPA	2023/12/05	0.00581	mg/L	No

WELL F - LINDEN WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2023/12/06	0.000228	mg/L	No
Atrazine + N-dealkylated metabolites	2023/12/06	0.0005	mg/L	No
Azinphos-methyl	2023/12/06	0.000171	mg/L	No
Benzene	2023/12/06	0.0001	mg/L	No
Benzo(a)pyrene	2023/12/06	1e-005	mg/L	No
Bromoxynil	2023/12/06	9.16e-005	mg/L	No
Carbaryl	2023/12/06	0.002	mg/L	No
Carbofuran	2023/12/06	0.003	mg/L	No
Carbon Tetrachloride	2023/12/06	0.0002	mg/L	No
Chlorpyrifos	2023/12/06	0.000171	mg/L	No
Diazinon	2023/12/06	0.000171	mg/L	No
Dicamba	2023/12/06	8.02e-005	mg/L	No
1,2-Dichlorobenzene	2023/12/06	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/06	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/06	0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/12/06	0.0003	mg/L	No
Dichloromethane	2023/12/06	0.001	mg/L	No
2-4 Dichlorophenol	2023/12/06	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/06	0.00103	mg/L	No
Diclofop-methyl	2023/12/06	0.000115	mg/L	No
Dimethoate	2023/12/06	0.000171	mg/L	No
Diquat	2023/12/06	0.0002	mg/L	No
Diuron	2023/12/06	0.01	mg/L	No
Glyphosate	2023/12/06	0.02	mg/L	No
Malathion	2023/12/06	0.000171	mg/L	No

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Metolachlor	2023/12/06	0.000114	mg/L	No
Metribuzin	2023/12/06	0.000114	mg/L	No
Monochlorobenzene	2023/12/06	0.0005	mg/L	No
Paraquat	2023/12/06	0.0002	mg/L	No
Pentachlorophenol	2023/12/06	0.0003	mg/L	No
Phorate	2023/12/06	0.000114	mg/L	No
Picloram	2023/12/06	8.02e-005	mg/L	No
Polychlorinated Biphenyls(PCB)	2023/12/06	6e-005	mg/L	No
Prometryne	2023/12/06	5.71e-005	mg/L	No
Simazine	2023/12/06	0.000171	mg/L	No
Terbufos	2023/12/06	0.000114	mg/L	No
Tetrachloroethylene	2023/12/06	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/06	0.0002	mg/L	No
Triallate	2023/12/06	0.000114	mg/L	No
Trichloroethylene	2023/12/06	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/06	0.0002	mg/L	No
Trifluralin	2023/12/06	0.000114	mg/L	No
Vinyl Chloride	2023/12/06	0.0001	mg/L	No
MCPA	2023/12/06	0.00573	mg/L	No

WELL G - PHARAND WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2023/12/06	0.000233	mg/L	No
Atrazine + N-dealkylated metabolites	2023/12/06	0.0005	mg/L	No
Azinphos-methyl	2023/12/06	0.000175	mg/L	No
Benzene	2023/12/06	0.0001	mg/L	No
Benzo(a)pyrene	2023/12/06	1e-005	mg/L	No
Bromoxynil	2023/12/06	9.39e-005	mg/L	No
Carbaryl	2023/12/06	0.002	mg/L	No
Carbofuran	2023/12/06	0.003	mg/L	No
Carbon Tetrachloride	2023/12/06	0.0002	mg/L	No
Chlorpyrifos	2023/12/06	0.000175	mg/L	No
Diazinon	2023/12/06	0.000175	mg/L	No
Dicamba	2023/12/06	8.22e-005	mg/L	No
1,2-Dichlorobenzene	2023/12/06	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/06	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/06	0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/12/06	0.0003	mg/L	No
Dichloromethane	2023/12/06	0.001	mg/L	No
2-4 Dichlorophenol	2023/12/06	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/06	0.000352	mg/L	No
Diclofop-methyl	2023/12/06	0.000117	mg/L	No
Dimethoate	2023/12/06	0.000175	mg/L	No
Diquat	2023/12/06	0.0002	mg/L	No
Diuron	2023/12/06	0.01	mg/L	No
Glyphosate	2023/12/06	0.02	mg/L	No
Malathion	2023/12/06	0.000175	mg/L	No
Metolachlor	2023/12/06	0.000117	mg/L	No
Metribuzin	2023/12/06	0.000117	mg/L	No
Monochlorobenzene	2023/12/06	0.0005	mg/L	No
Paraquat	2023/12/06	0.0002	mg/L	No

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Pentachlorophenol	2023/12/06	0.0003	mg/L	No
Phorate	2023/12/06	0.000117	mg/L	No
Picloram	2023/12/06	8.22e-005	mg/L	No
Polychlorinated Biphenyls(PCB)	2023/12/06	6e-005	mg/L	No
Prometryne	2023/12/06	5.83e-005	mg/L	No
Simazine	2023/12/06	0.000175	mg/L	No
Terbufos	2023/12/06	0.000117	mg/L	No
Tetrachloroethylene	2023/12/06	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/06	0.0002	mg/L	No
Triallate	2023/12/06	0.000117	mg/L	No
Trichloroethylene	2023/12/06	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/06	0.0002	mg/L	No
Trifluralin	2023/12/06	0.000117	mg/L	No
Vinyl Chloride	2023/12/06	0.0001	mg/L	No
MCPA	2023/12/06	0.00587	mg/L	No

WELL H - MICHELLE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2023/12/05	0.000264	mg/L	No
Atrazine + N-dealkylated metobolites	2023/12/05	0.0005	mg/L	No
Azinphos-methyl	2023/12/05	0.000198	mg/L	No
Benzene	2023/12/05	0.0001	mg/L	No
Benzo(a)pyrene	2023/12/05	1e-005	mg/L	No
Bromoxynil	2023/12/05	9.56e-005	mg/L	No
Carbaryl	2023/12/05	0.002	mg/L	No
Carbofuran	2023/12/05	0.004	mg/L	No
Carbon Tetrachloride	2023/12/05	0.0002	mg/L	No
Chlorpyrifos	2023/12/05	0.000198	mg/L	No
Diazinon	2023/12/05	0.000198	mg/L	No
Dicamba	2023/12/05	8.37e-005	mg/L	No
1,2-Dichlorobenzene	2023/12/05	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/05	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/05	0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/12/05	0.0003	mg/L	No
Dichloromethane	2023/12/05	0.001	mg/L	No
2-4 Dichlorophenol	2023/12/05	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/05	0.000359	mg/L	No
Diclofop-methyl	2023/12/05	0.00012	mg/L	No
Dimethoate	2023/12/05	0.000198	mg/L	No
Diquat	2023/12/05	0.0002	mg/L	No
Diuron	2023/12/05	0.01	mg/L	No
Glyphosate	2023/12/05	0.02	mg/L	No
Malathion	2023/12/05	0.000198	mg/L	No
Metolachlor	2023/12/05	0.000132	mg/L	No
Metribuzin	2023/12/05	0.000132	mg/L	No
Monochlorobenzene	2023/12/05	0.0005	mg/L	No
Paraquat	2023/12/05	0.0002	mg/L	No
Pentachlorophenol	2023/12/05	0.0003	mg/L	No
Phorate	2023/12/05	0.000132	mg/L	No
Picloram	2023/12/05	8.37e-005	mg/L	No
Polychlorinated Biphenyls(PCB)	2023/12/05	6e-005	mg/L	No

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Prometryne	2023/12/05	6.61e-005	mg/L	No
Simazine	2023/12/05	0.000198	mg/L	No
Terbufos	2023/12/05	0.000132	mg/L	No
Tetrachloroethylene	2023/12/05	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/05	0.0003	mg/L	No
Triallate	2023/12/05	0.000132	mg/L	No
Trichloroethylene	2023/12/05	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/05	0.0002	mg/L	No
Trifluralin	2023/12/05	0.000132	mg/L	No
Vinyl Chloride	2023/12/05	0.0001	mg/L	No
MCPA	2023/12/05	0.00598	mg/L	No

WELL I - I WELL

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				

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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	2023/12/06	0.00023	mg/L	No
Atrazine + N-dealkylated metabolites	2023/12/06	0.0005	mg/L	No
Azinphos-methyl	2023/12/06	0.000172	mg/L	No
Benzene	2023/12/06	0.0001	mg/L	No
Benzo(a)pyrene	2023/12/06	1e-005	mg/L	No
Bromoxynil	2023/12/06	9.49e-005	mg/L	No
Carbaryl	2023/12/06	0.002	mg/L	No
Carbofuran	2023/12/06	0.003	mg/L	No
Carbon Tetrachloride	2023/12/06	0.0002	mg/L	No
Chlorpyrifos	2023/12/06	0.000172	mg/L	No
Diazinon	2023/12/06	0.000172	mg/L	No
Dicamba	2023/12/06	8.31e-005	mg/L	No
1,2-Dichlorobenzene	2023/12/06	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/06	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/06	0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/12/06	0.0003	mg/L	No
Dichloromethane	2023/12/06	0.001	mg/L	No
2-4 Dichlorophenol	2023/12/06	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/06	0.000356	mg/L	No
Diclofop-methyl	2023/12/06	0.000119	mg/L	No
Dimethoate	2023/12/06	0.000172	mg/L	No
Diquat	2023/12/06	0.0003	mg/L	No
Diuron	2023/12/06	0.01	mg/L	No
Glyphosate	2023/12/06	0.02	mg/L	No
Malathion	2023/12/06	0.000172	mg/L	No
Metolachlor	2023/12/06	0.000115	mg/L	No
Metribuzin	2023/12/06	0.000115	mg/L	No
Monochlorobenzene	2023/12/06	0.0005	mg/L	No
Paraquat	2023/12/06	0.0002	mg/L	No
Pentachlorophenol	2023/12/06	0.0003	mg/L	No
Phorate	2023/12/06	0.000115	mg/L	No
Picloram	2023/12/06	8.31e-005	mg/L	No
Polychlorinated Biphenyls(PCB)	2023/12/06	6e-005	mg/L	No
Prometryne	2023/12/06	5.75e-005	mg/L	No
Simazine	2023/12/06	0.000172	mg/L	No
Terbufos	2023/12/06	0.000115	mg/L	No
Tetrachloroethylene	2023/12/06	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/06	0.0002	mg/L	No
Triallate	2023/12/06	0.000115	mg/L	No
Trichloroethylene	2023/12/06	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/06	0.0002	mg/L	No

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Trifluralin	2023/12/06	0.000115	mg/L	No
Vinyl Chloride	2023/12/06	0.0001	mg/L	No
MCPA	2023/12/06	0.00593	mg/L	No

WELL J - Capreol

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2023/12/06	0.00023	mg/L	No
Atrazine + N-dealkylated metabolites	2023/12/06	0.0005	mg/L	No
Azinphos-methyl	2023/12/06	0.000172	mg/L	No
Benzene	2023/12/06	0.0001	mg/L	No
Benzo(a)pyrene	2023/12/06	1e-005	mg/L	No
Bromoxynil	2023/12/06	9.47e-005	mg/L	No
Carbaryl	2023/12/06	0.002	mg/L	No
Carbofuran	2023/12/06	0.003	mg/L	No
Carbon Tetrachloride	2023/12/06	0.0002	mg/L	No
Chlorpyrifos	2023/12/06	0.000172	mg/L	No
Diazinon	2023/12/06	0.000172	mg/L	No
Dicamba	2023/12/06	8.29e-005	mg/L	No
1,2-Dichlorobenzene	2023/12/06	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/06	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/06	0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/12/06	0.0003	mg/L	No
Dichloromethane	2023/12/06	0.001	mg/L	No
2-4 Dichlorophenol	2023/12/06	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/06	0.000355	mg/L	No
Diclofop-methyl	2023/12/06	0.000118	mg/L	No
Dimethoate	2023/12/06	0.000172	mg/L	No
Diquat	2023/12/06	0.0002	mg/L	No
Diuron	2023/12/06	0.01	mg/L	No
Glyphosate	2023/12/06	0.02	mg/L	No
Malathion	2023/12/06	0.000172	mg/L	No
Metolachlor	2023/12/06	0.000115	mg/L	No
Metribuzin	2023/12/06	0.000115	mg/L	No
Monochlorobenzene	2023/12/06	0.0005	mg/L	No
Paraquat	2023/12/06	0.0002	mg/L	No
Pentachlorophenol	2023/12/06	0.0003	mg/L	No
Phorate	2023/12/06	0.000115	mg/L	No
Picloram	2023/12/06	8.29e-005	mg/L	No
Polychlorinated Biphenyls(PCB)	2023/12/06	6e-005	mg/L	No
Prometryne	2023/12/06	5.74e-005	mg/L	No
Simazine	2023/12/06	0.000172	mg/L	No
Terbufos	2023/12/06	0.000115	mg/L	No
Tetrachloroethylene	2023/12/06	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/06	0.0002	mg/L	No
Triallate	2023/12/06	0.000115	mg/L	No
Trichloroethylene	2023/12/06	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/06	0.0002	mg/L	No
Trifluralin	2023/12/06	0.000115	mg/L	No
Vinyl Chloride	2023/12/06	0.0001	mg/L	No
MCPA	2023/12/06	0.00592	mg/L	No

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WELL Q- CHENIER

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2023/12/06	0.00024	mg/L	No
Atrazine + N-dealkylated metabolites	2023/12/06	0.0005	mg/L	No
Azinphos-methyl	2023/12/06	0.00018	mg/L	No
Benzene	2023/12/06	0.0001	mg/L	No
Benzo(a)pyrene	2023/12/06	1e-005	mg/L	No
Bromoxynil	2023/12/06	9.59e-005	mg/L	No
Carbaryl	2023/12/06	0.002	mg/L	No
Carbofuran	2023/12/06	0.004	mg/L	No
Carbon Tetrachloride	2023/12/06	0.0002	mg/L	No
Chlorpyrifos	2023/12/06	0.00018	mg/L	No
Diazinon	2023/12/06	0.00018	mg/L	No
Dicamba	2023/12/06	8.39e-005	mg/L	No
1,2-Dichlorobenzene	2023/12/06	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/06	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/06	0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/12/06	0.0003	mg/L	No
Dichloromethane	2023/12/06	0.001	mg/L	No
2-4 Dichlorophenol	2023/12/06	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/06	0.000359	mg/L	No
Diclofop-methyl	2023/12/06	0.00012	mg/L	No
Dimethoate	2023/12/06	0.00018	mg/L	No
Diquat	2023/12/06	0.0002	mg/L	No
Diuron	2023/12/06	0.01	mg/L	No
Glyphosate	2023/12/06	0.02	mg/L	No
Malathion	2023/12/06	0.00018	mg/L	No
Metolachlor	2023/12/06	0.00012	mg/L	No
Metribuzin	2023/12/06	0.00012	mg/L	No
Monochlorobenzene	2023/12/06	0.0005	mg/L	No
Paraquat	2023/12/06	0.0002	mg/L	No
Pentachlorophenol	2023/12/06	0.0003	mg/L	No
Phorate	2023/12/06	0.00012	mg/L	No
Picloram	2023/12/06	8.39e-005	mg/L	No
Polychlorinated Biphenyls(PCB)	2023/12/06	6e-005	mg/L	No
Prometryne	2023/12/06	6.01e-005	mg/L	No
Simazine	2023/12/06	0.00018	mg/L	No
Terbufos	2023/12/06	0.00012	mg/L	No
Tetrachloroethylene	2023/12/06	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/06	0.0002	mg/L	No
Triallate	2023/12/06	0.00012	mg/L	No
Trichloroethylene	2023/12/06	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/06	0.0002	mg/L	No
Trifluralin	2023/12/06	0.00012	mg/L	No
Vinyl Chloride	2023/12/06	0.0001	mg/L	No
MCPA	2023/12/06	0.00599	mg/L	No

WELL R

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2023/12/06	0.000233	mg/L	No

Atrazine + N-dealkylated metabolites	2023/12/06	0.0005	mg/L	No
Azinphos-methyl	2023/12/06	0.000175	mg/L	No
Benzene	2023/12/06	0.0001	mg/L	No
Benzo(a)pyrene	2023/12/06	1e-005	mg/L	No
Bromoxynil	2023/12/06	9.39e-005	mg/L	No
Carbaryl	2023/12/06	0.002	mg/L	No
Carbofuran	2023/12/06	0.004	mg/L	No
Carbon Tetrachloride	2023/12/06	0.0002	mg/L	No
Chlorpyrifos	2023/12/06	0.000175	mg/L	No
Diazinon	2023/12/06	0.000175	mg/L	No
Dicamba	2023/12/06	8.21e-005	mg/L	No
1,2-Dichlorobenzene	2023/12/06	0.0002	mg/L	No
1,4-Dichlorobenzene	2023/12/06	0.0003	mg/L	No
1,2-Dichloroethane	2023/12/06	0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/12/06	0.0003	mg/L	No
Dichloromethane	2023/12/06	0.001	mg/L	No
2-4 Dichlorophenol	2023/12/06	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/12/06	0.000352	mg/L	No
Diclofop-methyl	2023/12/06	0.000117	mg/L	No
Dimethoate	2023/12/06	0.000175	mg/L	No
Diquat	2023/12/06	0.0002	mg/L	No
Diuron	2023/12/06	0.01	mg/L	No
Glyphosate	2023/12/06	0.02	mg/L	No
Malathion	2023/12/06	0.000175	mg/L	No
Metolachlor	2023/12/06	0.000117	mg/L	No
Metribuzin	2023/12/06	0.000117	mg/L	No
Monochlorobenzene	2023/12/06	0.0005	mg/L	No
Paraquat	2023/12/06	0.0002	mg/L	No
Pentachlorophenol	2023/12/06	0.0003	mg/L	No
Phorate	2023/12/06	0.000117	mg/L	No
Picloram	2023/12/06	8.21e-005	mg/L	No
Polychlorinated Biphenyls(PCB)	2023/12/06	6e-005	mg/L	No
Prometryne	2023/12/06	5.83e-005	mg/L	No
Simazine	2023/12/06	0.000175	mg/L	No
Terbufos	2023/12/06	0.000117	mg/L	No
Tetrachloroethylene	2023/12/06	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2023/12/06	0.0002	mg/L	No
Triallate	2023/12/06	0.000117	mg/L	No
Trichloroethylene	2023/12/06	0.0002	mg/L	No
2,4,6-Trichlorophenol	2023/12/06	0.0002	mg/L	No
Trifluralin	2023/12/06	0.000117	mg/L	No
Vinyl Chloride	2023/12/06	0.0001	mg/L	No
MCPA	2023/12/06	0.00587	mg/L	No

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

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
Benzo(a)pyrene	1e-005	mg/L	2023/12/06	CAPREOL WELL SUPPLY - WELL M&J
Benzo(a)pyrene	1e-005	mg/L	2023/12/06	CAPREOL WELL SUPPLY - WELL M&J
Benzo(a)pyrene	9e-006	mg/L	2023/12/05	WELL A - DESCHENE WELL
Benzo(a)pyrene	9e-006	mg/L	2023/12/05	WELL C - PHILIPPE WELL
Benzo(a)pyrene	1e-005	mg/L	2023/12/06	WELL D - FROST WELL
Benzo(a)pyrene	9e-006	mg/L	2023/12/05	WELL E - NOTRE DAME WELL
Benzo(a)pyrene	1e-005	mg/L	2023/12/06	WELL F - LINDEN WELL
Benzo(a)pyrene	1e-005	mg/L	2023/12/06	WELL G - PHARAND WELL
Benzo(a)pyrene	1e-005	mg/L	2023/12/05	WELL H - MICHELLE WELL
Benzo(a)pyrene	1e-005	mg/L	2023/12/06	WELL J - Capreol
Benzo(a)pyrene	1e-005	mg/L	2023/12/06	WELL M - Capreol
Benzo(a)pyrene	1e-005	mg/L	2023/12/06	WELL Q- CHENIER
Benzo(a)pyrene	1e-005	mg/L	2023/12/06	WELL R

(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

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

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	260006789
Drinking-Water System	Vermilion Distribution System
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2023-01-01 To 2023-12-31

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes ☐ No ☒

Is your annual report available to the public at no charge on a web site on the Internet? Yes ☒ No ☐

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

www.greatersudbury.ca
TDS-Engineering Department

Complete for all other Categories.

Number of Designated Facilities served:

0

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes ☐ No ☒

Number of Interested Authorities you report to:

0

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?

Yes ☐ No ☒

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 ☐

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

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 Vermilion 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

None

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
163412	2023/08/25	Trending not completed			NA	2023/09/13
164103	2023/11/21	Distribution chlorine analyzer communication			NA	2023/11/24

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 0	65	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	0.00 - 3.55

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

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

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)	2023	0.0614	mg/L	No
HAA (NOTE: show latest annual average)	2023	0.044	mg/L	No

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

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				

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

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)