



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	220000077
Drinking-Water System Name:	Harriston Drinking Water System
Drinking-Water System Owner:	Town of Minto
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2025 to December 31, 2025

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [] No [<input checked="" type="checkbox"/>]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [<input checked="" type="checkbox"/>] No []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Town of Minto 5941 Hwy #89 R.R. #1 Harriston, ON NOG 1Z0</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">N/A</div> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []</p> <p>Number of Interested Authorities you report to:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">N/A</div> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [<input checked="" type="checkbox"/>] No []</p>
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Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

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

Drinking Water System Name	Drinking Water System Number
Harriston Drinking Water System	220000077

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water? Yes [] No []



Indicate how you notified system users that your annual report is available and is free of charge.

- Public access/notice via the web** Town of Minto Website
- Public access/notice via Government Offices**
- Public access/notice via a newspaper**
- Public access/notice via Public Request**
- Public access/notice via a Public Library**
- Public access/notice via other method** Tax Letter

Describe your Drinking-Water System

Harriston is serviced by a waterworks that consists of: three drilled bedrock wells, three pumphouses, an elevated 1915 m³ steel storage tank and a distribution network of watermain, ranging in diameter from 100 mm to 250mm. In the event of a power outage, wells #1 & #3 are equipped with an automatic stand-by generator to supply back-up power. Well #2 has the capability of connecting to a portable generator.

The bedrock wells are equipped with submersible pumps. Water from Wells #1 and #3 discharge into pumphouse #3, and water from Well #2 discharges into pumphouse #2, respectively, for flow measurement and treatment. In the pumphouse, the raw water supply is injected with 12% sodium hypochlorite for disinfection and the chemical PW1680, for iron sequestering. The treated water leaves the pumphouse and enters an underground contact pipe and is discharged into the distribution system after adequate contact time is achieved.

The wells are controlled (*start/stop*) automatically based on elevated storage tank liquid levels and pressures in the distribution system. Each pumphouse is equipped with alarms for free chlorine low and high residuals (*and corresponding lockout of well pumps*), low water level and intrusion. Each wellhouse has a continuous monitoring analyzer for chlorine with lockouts and alarms.

SCADA provides continuous monitoring of the Harriston Drinking Water System.

List all water treatment chemicals used over this reporting period

- 12% Sodium Hypochlorite (disinfectant)
- PW1680 (sequestering agent)

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

To continually meet the requirements of O. Reg. 170/03, upgrades, installations and replacement of various system components have been completed. However, maintaining the system includes repair and replacement of individual components as required.

2025 Capital Expenses

- \$18,340 – on Watermain Upgrades – King Street North
- \$13,650 – Engineering for Watermain Replacement – Webb St. & Raglan St.
- \$42,625 – on Well Exploration
- \$17,405 – Well #3 Pump Motor Replacement
- \$11,015 – VFD Well #3
- \$ 4,045 – Internal Tower Inspection
- \$ 3,590 – DICE Chlorine Dosing Board

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

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

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

		Number of Samples	Range of Total Coliform Results (min #)-(max #)	Range of E.Coli Or Fecal Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw	Well 1	52	0 - 0	0 - 0	N/A	N/A
	Well 2	52	0 - 0	0 - 0	N/A	N/A
	Well 3	52	0 - 0	0 - 0	N/A	N/A
Treated	Well 1	52	0 - 0	0 - 0	52	< 10 - 20
	Well 2	52	0 - 0	0 - 0	52	< 10 - 1330
	Well 3	52	0 - 0	0 - 0	52	< 10 - 40
Distribution		156	0 - 0	0 - 0	156	< 10 - NDOGHP

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

		Number of Samples	Range of Results (min #)-(max #)	Unit of Measure
Turbidity Raw	Well 1	60	0.13 - 0.82	NTU
	Well 2	58	0.11 - 0.72	NTU
	Well 3	61	0.13 - 0.68	NTU
Chlorine	Well 1	364	0.81 - 1.79	mg/L
	Well 2	365	0.92 - 1.67	mg/L
	Well 3	361	0.84 - 1.71	mg/L
	Distribution	563	0.56 - 1.58	mg/L
Fluoride (If the DWS provides fluoridation)		N/A	N/A	N/A

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



Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
N/A	N/A	N/A	N/A	N/A

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Harriston Well #1

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	15/05/25	< 0.6	ug/L	No
Arsenic	15/05/25	< 0.2	ug/L	No
Barium	15/05/25	120	ug/L	No
Boron	15/05/25	91	ug/L	No
Cadmium	15/05/25	< 0.003	ug/L	No
Chromium	15/05/25	0.16	ug/L	No
Manganese	08/08/25	0.96	ug/L	No
Mercury	15/05/25	< 0.01	ug/L	No
Selenium	15/05/25	< 0.04	ug/L	No
Sodium	15/05/25	6.99	mg/L	No
Uranium	15/05/25	0.025	ug/L	No
Fluoride	24/05/22	1.12	mg/L	No
Nitrite	19/03/25	< 0.003	mg/L	No
Nitrite	23/05/25	< 0.003	mg/L	No
Nitrite	15/08/25	< 0.003	mg/L	No
Nitrite	14/11/25	< 0.003	mg/L	No
Nitrate	19/03/25	0.020	mg/L	No
Nitrate	23/05/25	0.013	mg/L	No
Nitrate	15/08/25	0.015	mg/L	No
Nitrate	14/11/25	0.018	mg/L	No

*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

Harriston Well #2

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	15/05/25	< 0.6	ug/L	No
Arsenic	15/05/25	< 0.2	ug/L	No
Barium	15/05/25	37	ug/L	No
Boron	15/05/25	73	ug/L	No
Cadmium	15/05/25	< 0.003	ug/L	No
Chromium	15/05/25	0.16	ug/L	No
Manganese	08/08/25	2.44	ug/L	No
Mercury	15/05/25	< 0.01	ug/L	No
Selenium	15/05/25	< 0.04	ug/L	No
Sodium	15/05/25	12.4	mg/L	No
Uranium	15/05/25	0.018	ug/L	No



Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Fluoride	24/05/22	0.73	mg/L	No
Nitrite	19/03/25	< 0.003	mg/L	No
Nitrite	23/05/25	< 0.003	mg/L	No
Nitrite	15/08/25	< 0.003	mg/L	No
Nitrite	14/11/25	< 0.003	mg/L	No
Nitrate	19/03/25	< 0.006	mg/L	No
Nitrate	23/05/25	< 0.006	mg/L	No
Nitrate	15/08/25	< 0.006	mg/L	No
Nitrate	14/11/25	< 0.006	mg/L	No

*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

Harriston Well #3

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	15/05/25	< 0.6	ug/L	No
Arsenic	15/05/25	0.5	ug/L	No
Barium	15/05/25	130	ug/L	No
Boron	15/05/25	78	ug/L	No
Cadmium	15/05/25	< 0.003	ug/L	No
Chromium	15/05/25	0.09	ug/L	No
Manganese	08/08/25	0.94	ug/L	No
Mercury	15/05/25	< 0.01	ug/L	No
Selenium	15/05/25	< 0.04	ug/L	No
Sodium	15/05/25	9.52	mg/L	No
Uranium	15/05/25	0.083	ug/L	No
Fluoride	24/05/22	1.14	mg/L	No
Nitrite	19/03/25	< 0.003	mg/L	No
Nitrite	23/05/25	< 0.003	mg/L	No
Nitrite	15/08/25	< 0.003	mg/L	No
Nitrite	14/11/25	< 0.003	mg/L	No
Nitrate	19/03/25	0.020	mg/L	No
Nitrate	23/05/25	0.010	mg/L	No
Nitrate	15/08/25	0.021	mg/L	No
Nitrate	14/11/25	0.028	mg/L	No

*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

Summary of lead testing under Schedule 15.1 during this reporting period

(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

Location Type	Date	Number of Samples	Range of Lead Results (min#) – (max #)	Unit of Measure	Limit
Plumbing	Dec. 2013 – Apr. 2014	22	< 1.0 – 3.1	ug/L	10
Distribution	Winter Dec. 15/22 – Apr. 15/23	2	0.09 – 0.28	ug/L	10
Distribution	Summer Jun. 15/23 – Oct. 15/23	2	0.26 – 0.35	ug/L	10

No adverse results were identified.

Reduced Sampling

Town of Minto is now exempt from plumbing sampling for lead due to less than 10% of plumbing results exceeded 10 ug/L.

Distribution sampling is still required every “winter” and “summer” period.

- each year for pH and alkalinity
- once every 3 years for lead

	Sample Date	Number of Samples	Range of Results (min) – (max)	Unit of Measure	Guideline
Winter Alkalinity	12/02/25	2	245 - 265	mg/L	30 - 500
Winter pH	12/02/25	2	6.93 – 7.22		6.5 – 8.5
Summer Alkalinity	31/07/25	2	251 – 255	mg/L	30 - 500
Summer pH	31/07/25	2	7.28 – 7.35		6.5 – 8.5

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

Harriston Well #1

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	15/05/25	< 0.02	ug/L	No
Atrazine	15/05/25	< 0.01	ug/L	No
Atrazine + N-dealkylated metabolites	15/05/25	< 0.01	Ug/L	No
Azinphos-methyl	15/05/25	< 0.05	ug/L	No
Benzene	15/05/25	< 0.32	ug/L	No
Benzo(a)pyrene	15/05/25	< 0.004	ug/L	No
Bromoxynil	15/05/25	< 0.33	ug/L	No
Carbaryl	15/05/25	< 0.05	ug/L	No
Carbofuran	15/05/25	< 0.01	ug/L	No
Carbon Tetrachloride	15/05/25	< 0.17	ug/L	No
Chlorpyrifos	15/05/25	< 0.02	ug/L	No
Desethyl Atrazine	15/05/25	< 0.01	ug/L	No
Diazinon	15/05/25	< 0.02	ug/L	No
Dicamba	15/05/25	< 0.2	ug/L	No
1,2-Dichlorobenzene	15/05/25	< 0.41	ug/L	No
1,4-Dichlorobenzene	15/05/25	< 0.36	ug/L	No
1,2-Dichloroethane	15/05/25	< 0.35	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	15/05/25	< 0.33	ug/L	No
Dichloromethane	15/05/25	< 0.35	ug/L	No
2-4 Dichlorophenol	15/05/25	< 0.15	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	15/05/25	< 0.19	ug/L	No
Diclofop-methyl	15/05/25	< 0.4	ug/L	No
Dimethoate	15/05/25	< 0.06	ug/L	No
Diquat	15/05/25	< 1.0	ug/L	No
Diuron	15/05/25	< 0.03	ug/L	No
Glyphosate	15/05/25	< 1.0	ug/L	No
Malathion	15/05/25	< 0.02	ug/L	No
MCPA	15/05/25	< 0.00012	mg/L	No



Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Metolachlor	15/05/25	< 0.01	ug/L	No
Metribuzin	15/05/25	< 0.02	ug/L	No
Monochlorobenzene	15/05/25	< 0.3	ug/L	No
Paraquat	15/05/25	< 1.0	ug/L	No
Pentachlorophenol	15/05/25	< 0.15	ug/L	No
Phorate	15/05/25	< 0.01	ug/L	No
Picloram	15/05/25	< 1.0	ug/L	No
Polychlorinated Biphenyls (PCB) – Total	15/05/25	< 0.04	ug/L	No
Prometryne	15/05/25	< 0.03	ug/L	No
Simazine	15/05/25	< 0.01	ug/L	No
Terbufos	15/05/25	< 0.01	ug/L	No
Tetrachloroethylene (perchloroethylene)	15/05/25	< 0.35	ug/L	No
2,3,4,6-Tetrachlorophenol	15/05/25	< 0.2	ug/L	No
Triallate	15/05/25	< 0.01	ug/L	No
Trichloroethylene	15/05/25	< 0.44	ug/L	No
2,4,6-Trichlorophenol	15/05/25	< 0.25	ug/L	No
Trifluralin	15/05/25	< 0.02	ug/L	No
Vinyl Chloride	15/05/25	< 0.17	ug/L	No

Harriston Well #2

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	15/05/25	< 0.02	ug/L	No
Atrazine	15/05/25	< 0.01	ug/L	No
Atrazine + N-dealkylated metabolites	15/05/25	< 0.01	Ug/L	No
Azinphos-methyl	15/05/25	< 0.05	ug/L	No
Benzene	15/05/25	< 0.32	ug/L	No
Benzo(a)pyrene	15/05/25	< 0.004	ug/L	No
Bromoxynil	15/05/25	< 0.33	ug/L	No
Carbaryl	15/05/25	< 0.05	ug/L	No
Carbofuran	15/05/25	< 0.01	ug/L	No
Carbon Tetrachloride	15/05/25	< 0.17	ug/L	No
Chlorpyrifos	15/05/25	< 0.02	ug/L	No
Desethyl Atrazine	15/05/25	< 0.01	ug/L	No
Diazinon	15/05/25	< 0.02	ug/L	No
Dicamba	15/05/25	< 0.2	ug/L	No
1,2-Dichlorobenzene	15/05/25	< 0.41	ug/L	No
1,4-Dichlorobenzene	15/05/25	< 0.36	ug/L	No
1,2-Dichloroethane	15/05/25	< 0.35	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	15/05/25	< 0.33	ug/L	No
Dichloromethane	15/05/25	< 0.35	ug/L	No
2-4 Dichlorophenol	15/05/25	< 0.15	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	15/05/25	< 0.19	ug/L	No
Diclofop-methyl	15/05/25	< 0.4	ug/L	No
Dimethoate	15/05/25	< 0.06	ug/L	No
Diquat	15/05/25	< 1.0	ug/L	No
Diuron	15/05/25	< 0.03	ug/L	No



Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Glyphosate	15/05/25	< 1.0	ug/L	No
Malathion	15/05/25	< 0.02	ug/L	No
MCPA	15/05/25	< 0.00012	mg/L	No
Metolachlor	15/05/25	< 0.01	ug/L	No
Metribuzin	15/05/25	< 0.02	ug/L	No
Monochlorobenzene	15/05/25	< 0.3	ug/L	No
Paraquat	15/05/25	< 1.0	ug/L	No
Pentachlorophenol	15/05/25	< 0.15	ug/L	No
Phorate	15/05/25	< 0.01	ug/L	No
Picloram	15/05/25	< 1.0	ug/L	No
Polychlorinated Biphenyls (PCB) – Total	15/05/25	< 0.04	ug/L	No
Prometryne	15/05/25	< 0.03	ug/L	No
Simazine	15/05/25	< 0.01	ug/L	No
Terbufos	15/05/25	< 0.01	ug/L	No
Tetrachloroethylene (perchloroethylene)	15/05/25	< 0.35	ug/L	No
2,3,4,6-Tetrachlorophenol	15/05/25	< 0.2	ug/L	No
Triallate	15/05/25	< 0.01	ug/L	No
Trichloroethylene	15/05/25	< 0.44	ug/L	No
2,4,6-Trichlorophenol	15/05/25	< 0.25	ug/L	No
Trifluralin	15/05/25	< 0.02	ug/L	No
Vinyl Chloride	15/05/25	< 0.17	ug/L	No

Harriston Well #3

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	15/05/25	< 0.02	ug/L	No
Atrazine	15/05/25	< 0.01	ug/L	No
Atrazine + N-dealkylated metabolites	15/05/25	< 0.01	Ug/L	No
Azinphos-methyl	15/05/25	< 0.05	ug/L	No
Benzene	15/05/25	< 0.32	ug/L	No
Benzo(a)pyrene	15/05/25	< 0.004	ug/L	No
Bromoxynil	15/05/25	< 0.33	ug/L	No
Carbaryl	15/05/25	< 0.05	ug/L	No
Carbofuran	15/05/25	< 0.01	ug/L	No
Carbon Tetrachloride	15/05/25	< 0.17	ug/L	No
Chlorpyrifos	15/05/25	< 0.02	ug/L	No
Desethyl Atrazine	15/05/25	< 0.01	ug/L	No
Diazinon	15/05/25	< 0.02	ug/L	No
Dicamba	15/05/25	< 0.2	ug/L	No
1,2-Dichlorobenzene	15/05/25	< 0.41	ug/L	No
1,4-Dichlorobenzene	15/05/25	< 0.36	ug/L	No
1,2-Dichloroethane	15/05/25	< 0.35	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	15/05/25	< 0.33	ug/L	No
Dichloromethane	15/05/25	< 0.35	ug/L	No
2-4 Dichlorophenol	15/05/25	< 0.15	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	15/05/25	< 0.19	ug/L	No
Diclofop-methyl	15/05/25	< 0.4	ug/L	No
Dimethoate	15/05/25	< 0.06	ug/L	No



Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Diquat	15/05/25	< 1.0	ug/L	No
Diuron	15/05/25	< 0.03	ug/L	No
Glyphosate	15/05/25	< 1.0	ug/L	No
Malathion	15/05/25	< 0.02	ug/L	No
MCPA	15/05/25	< 0.00012	mg/L	No
Metolachlor	15/05/25	< 0.01	ug/L	No
Metribuzin	15/05/25	< 0.02	ug/L	No
Monochlorobenzene	15/05/25	< 0.3	ug/L	No
Paraquat	15/05/25	< 1.0	ug/L	No
Pentachlorophenol	15/05/25	< 0.15	ug/L	No
Phorate	15/05/25	< 0.01	ug/L	No
Picloram	15/05/25	< 1.0	ug/L	No
Polychlorinated Biphenyls (PCB) – Total	15/05/25	< 0.04	ug/L	No
Prometryne	15/05/25	< 0.03	ug/L	No
Simazine	15/05/25	< 0.01	ug/L	No
Terbufos	15/05/25	< 0.01	ug/L	No
Tetrachloroethylene (perchloroethylene)	15/05/25	< 0.35	ug/L	No
2,3,4,6-Tetrachlorophenol	15/05/25	< 0.2	ug/L	No
Triallate	15/05/25	< 0.01	ug/L	No
Trichloroethylene	15/05/25	< 0.44	ug/L	No
2,4,6-Trichlorophenol	15/05/25	< 0.25	ug/L	No
Trifluralin	15/05/25	< 0.02	ug/L	No
Vinyl Chloride	15/05/25	< 0.17	ug/L	No

Harriston Distribution System

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

Parameter	Sample Date	Result Value RAA	Unit of Measure	ODWS Criteria
THM (NOTE: latest quarterly average shown)	19/03/25	17.00	ug/L	100
	23/05/25	15.50		
	15/08/25	16.25		
	14/11/25	14.75		

Parameter	Sample Date	Result Value RAA	Unit of Measure	ODWS Criteria
HAA (NOTE: latest quarterly average shown)	19/03/25	12.30	ug/L	80
	23/05/25	12.90		
	15/08/25	13.40		
	14/11/25	12.10		



List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample