



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	220000059
Drinking-Water System Name:	Palmerston Drinking Water System
Drinking-Water System Owner:	Town of Minto
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2021 to December 31, 2021

<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
Palmerston Drinking Water System	220000059

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** Advertisements in Local Newspapers
- 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

Palmerston is serviced by a waterworks that consists of: four drilled bedrock wells, two pumphouses, an elevated 2500 m3 steel storage tank and a distribution network of watermains, ranging in diameter from 100 mm to 250 mm. In the event of a prolonged power outage, a portable generator is available to either pumphouse to supply back-up power.

The bedrock wells are equipped with submersible pumps that discharge directly into the William Street pumphouse (Wells #1 and #2) or the Whites Road pumphouse (Well #3 and #4). 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 pumphouse has continuous monitoring analyzers for chlorine with lockouts and alarms.

SCADA provides continuous monitoring to this 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.

2021 Capital Expenses

- \$ 2,945 – Well #1 & #2 and #3 & #4 Plumbing replacement to Analyzer
- \$ 12,960 – to Videolog Well # 1
- \$237,255 – for Water Tower Painting
- \$ 14,640 – Whites Road Service Line Repair
- \$ 46,035 – for Future Whites Road Watermain Upgrades
- \$ 3,400 – Well #4 Flow Meter replacement
- \$ 2,545 – Well # 1 & # 2 SCADA Panel Upgrade
- \$ 23,095 – Well #2 VFD

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 - 1	0 - 0	N/A	N/A
	Well 3	52	0 - 0	0 - 0	N/A	N/A
	Well 4	52	0 - 0	0 - 0	N/A	N/A
Treated	Well 1	52	0 - 0	0 - 0	52	< 10 - 30
	Well 2	52	0 - 0	0 - 0	52	< 10 - 50
	Well 3	52	0 - 0	0 - 0	52	< 10 - 10
	Well 4	52	0 - 0	0 - 0	52	< 10 - 50
Distribution		208	0 - 0	0 - 0	208	< 10 - NDOGH

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	58	0.23 - 0.94	NTU
	Well 2	63	0.16 - 0.82	NTU
	Well 3	57	0.15 - 0.96	NTU
	Well 4	57	0.13 - 0.86	NTU

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



		Number of Samples	Range of Results (min #)-(max #)	Unit of Measure
Chlorine	Well 1	307	0.92 - 2.21	mg/L
	Well 2	364	0.78 - 1.72	mg/L
	Well 3	353	1.04 - 1.93	mg/L
	Well 4	356	0.93 - 1.96	mg/L
	Distribution	577	0.53 - 1.56	mg/L
Fluoride (If the DWS provides fluoridation)				

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

Palmerston Well #1

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	14/05/19	<0.6	ug/L	No
Arsenic	14/05/19	4.1	ug/L	No
Barium	14/05/19	96	ug/L	No
Boron	14/05/19	<50	ug/L	No
Cadmium	14/05/19	<0.1	ug/L	No
Chromium	14/05/19	<1.0	ug/L	No
Mercury	14/05/19	<0.1	ug/L	No
Selenium	14/05/19	<5.0	ug/L	No
Sodium	09/05/17	17.4	mg/L	No
Uranium	14/05/19	<5.0	ug/L	No
Fluoride	09/05/17	0.23	mg/L	No
Nitrite	26/02/21	< 0.003	mg/L	No
Nitrite	31/05/21	< 0.003	mg/L	No
Nitrite	09/08/21	< 0.003	mg/L	No
Nitrite	26/11/21	< 0.003	mg/L	No
Nitrate	26/02/21	0.306	mg/L	No
Nitrate	31/05/21	0.307	mg/L	No
Nitrate	09/08/21	0.310	mg/L	No
Nitrate	26/11/21	0.426	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



Palmerston Well #2

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	14/05/19	<0.6	ug/L	No
Arsenic	14/05/19	3.3	ug/L	No
Barium	14/05/19	98	ug/L	No
Boron	14/05/19	<50	ug/L	No
Cadmium	14/05/19	<0.1	ug/L	No
Chromium	14/05/19	<1.0	ug/L	No
Mercury	14/05/19	<0.1	ug/L	No
Selenium	14/05/19	<5.0	ug/L	No
Sodium	09/05/17	19.6	mg/L	No
Uranium	14/05/19	<5.0	ug/L	No
Fluoride	09/05/17	0.21	mg/L	No
Nitrite	26/02/21	< 0.003	mg/L	No
Nitrite	31/05/21	< 0.003	mg/L	No
Nitrite	09/08/21	< 0.003	mg/L	No
Nitrite	26/11/21	< 0.003	mg/L	No
Nitrate	26/02/21	0.371	mg/L	No
Nitrate	31/05/21	0.318	mg/L	No
Nitrate	09/08/21	0.361	mg/L	No
Nitrate	26/11/21	0.318	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

Palmerston Well #3

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	14/05/19	<0.6	ug/L	No
Arsenic	14/05/19	1.4	ug/L	No
Barium	14/05/19	102	ug/L	No
Boron	14/05/19	<50	ug/L	No
Cadmium	14/05/19	<0.1	ug/L	No
Chromium	14/05/19	<1.0	ug/L	No
Mercury	14/05/19	<0.1	ug/L	No
Selenium	14/05/19	<5.0	ug/L	No
Sodium	09/05/17	15	mg/L	No
Uranium	14/05/19	<5.0	ug/L	No
Fluoride	09/05/17	0.21	mg/L	No
Nitrite	26/02/21	< 0.003	mg/L	No
Nitrite	31/05/21	< 0.003	mg/L	No
Nitrite	09/08/21	< 0.003	mg/L	No
Nitrite	26/11/21	< 0.003	mg/L	No
Nitrate	26/02/21	0.266	mg/L	No
Nitrate	31/05/21	0.302	mg/L	No
Nitrate	09/08/21	0.268	mg/L	No
Nitrate	26/11/21	0.295	mg/L	No



Palmerston Well #4

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	14/05/19	<0.6	ug/L	No
Arsenic	14/05/19	<1.0	ug/L	No
Barium	14/05/19	95	ug/L	No
Boron	14/05/19	<50	ug/L	No
Cadmium	14/05/19	<0.1	ug/L	No
Chromium	14/05/19	<1.0	ug/L	No
Mercury	14/05/19	<0.1	ug/L	No
Selenium	14/05/19	<5.0	ug/L	No
Sodium	09/05/17	12.7	mg/L	No
Uranium	14/05/19	<5.0	ug/L	No
Fluoride	09/05/17	0.21	mg/L	No
Nitrite	26/02/21	< 0.003	mg/L	No
Nitrite	31/05/21	< 0.003	mg/L	No
Nitrite	09/08/21	< 0.003	mg/L	No
Nitrite	26/11/21	< 0.003	mg/L	No
Nitrate	26/02/21	0.241	mg/L	No
Nitrate	31/05/21	0.256	mg/L	No
Nitrate	09/08/21	0.226	mg/L	No
Nitrate	26/11/21	0.232	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 – < 1.0	ug/L	10
Distribution	Winter Dec. 15 – Apr. 15, 2020	2	0.19 – 0.68	ug/L	10
Distribution	Summer Jun. 15 – Oct. 15, 2020	2	0.10 – 0.12	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	Max Result	Unit of Measure	Limit
Winter Alkalinity	21/01/21	2	279	mg/L	30-500
Winter pH	21/01/21	2	7.33		



	Sample Date	Number of Samples	Max Result	Unit of Measure	Limit
Summer Alkalinity	06/08/21	2	278	mg/L	30-500
Summer pH	06/08/21	2	7.26		

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

Palmerston Well #1

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	14/05/19	<0.1	ug/L	No
alpha-Chlordane	14/05/19	<0.1	ug/L	No
Aroclor 1242	14/05/19	<0.02	ug/L	No
Aroclor 1254	14/05/19	<0.02	ug/L	No
Aroclor 1260	14/05/19	<0.02	ug/L	No
Atrazine	14/05/19	<0.1	ug/L	No
Atrazine Desethyl	14/05/19	<0.1	ug/L	No
Atrazine & Metabolites	14/05/19	<0.2	ug/L	No
Azinphos-methyl	14/05/19	<0.1	ug/L	No
Benzene	14/05/19	<0.5	ug/L	No
Benzo(a)pyrene	14/05/19	<0.005	ug/L	No
Bromoxynil	14/05/19	<0.2	ug/L	No
Carbaryl	14/05/19	<0.2	ug/L	No
Carbofuran	14/05/19	<0.2	ug/L	No
Carbon Tetrachloride	14/05/19	<0.2	ug/L	No
Chlorpyrifos	14/05/19	<0.1	ug/L	No
Diazinon	14/05/19	<0.1	ug/L	No
Dicamba	14/05/19	<0.2	ug/L	No
1,2-Dichlorobenzene	14/05/19	<0.5	ug/L	No
1,4-Dichlorobenzene	14/05/19	<0.5	ug/L	No
1,2-Dichloroethane	14/05/19	<0.5	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	14/05/19	<0.5	ug/L	No
Dichloromethane	14/05/19	<5.0	ug/L	No
2-4 Dichlorophenol	14/05/19	<0.3	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	14/05/19	<0.2	ug/L	No
Diclofop-methyl	14/05/19	<0.2	ug/L	No
Dimethoate	14/05/19	<0.1	ug/L	No
Diquat	14/05/19	<1.0	ug/L	No
Diuron	14/05/19	<1.0	ug/L	No
Ethylbenzene	14/05/19	<0.5	ug/L	No
gamma-Chlordane	14/05/19	<0.1	ug/L	No
Glyphosate	14/05/19	<5.0	ug/L	No
m/p-xylene	14/05/19	<1.0	ug/L	No
Malathion	14/05/19	<0.1	ug/L	No
MCPA	14/05/19	<0.2	ug/L	No
Metolachlor	14/05/19	<0.1	ug/L	No
Metribuzin	14/05/19	<0.1	ug/L	No
Monochlorobenzene	14/05/19	<0.5	ug/L	No
o,p-DDT	14/05/19	<0.1	ug/L	No



Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
o-xylene	14/05/19	<0.5	ug/L	No
Oxychlorthane	14/05/19	<0.1	ug/L	No
p,p-DDD	14/05/19	<0.1	ug/L	No
p,p-DDE	14/05/19	<0.1	ug/L	No
p,p-DDT	14/05/19	<0.1	ug/L	No
Paraquat	14/05/19	<1.0	ug/L	No
Pentachlorophenol	14/05/19	<0.5	ug/L	No
Phorate	14/05/19	<0.1	ug/L	No
Picloram	14/05/19	<0.2	ug/L	No
Polychlorinated Biphenyls (PCB)	14/05/19	<0.035	ug/L	No
Prometryne	14/05/19	<0.1	ug/L	No
Simazine	14/05/19	<0.1	ug/L	No
Terbufos	14/05/19	<0.2	ug/L	No
Tetrachloroethylene (perchloroethylene)	14/05/19	<0.5	ug/L	No
2,3,4,6-Tetrachlorophenol	14/05/19	<0.5	ug/L	No
Toluene	14/05/19	<0.5	ug/L	No
Triallate	14/05/19	<0.1	ug/L	No
Trichloroethylene	14/05/19	<0.5	ug/L	No
2,4,6-Trichlorophenol	14/05/19	<0.5	ug/L	No
Trifluralin	14/05/19	<0.1	ug/L	No
Vinyl Chloride	14/05/19	<0.2	ug/L	No
Xylenes (Total)	14/05/19	<1.5	ug/L	No

Palmerston Well #2

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	14/05/19	<0.1	ug/L	No
alpha-Chlordane	14/05/19	<0.1	ug/L	No
Aroclor 1242	14/05/19	<0.02	ug/L	No
Aroclor 1254	14/05/19	<0.02	ug/L	No
Aroclor 1260	14/05/19	<0.02	ug/L	No
Atrazine	14/05/19	<0.1	ug/L	No
Atrazine Desethyl	14/05/19	<0.1	ug/L	No
Atrazine & Metabolites	14/05/19	<0.2	ug/L	No
Azinphos-methyl	14/05/19	<0.1	ug/L	No
Benzene	14/05/19	<0.5	ug/L	No
Benzo(a)pyrene	14/05/19	<0.005	ug/L	No
Bromoxynil	14/05/19	<0.2	ug/L	No
Carbaryl	14/05/19	<0.2	ug/L	No
Carbofuran	14/05/19	<0.2	ug/L	No
Carbon Tetrachloride	14/05/19	<0.2	ug/L	No
Chlorpyrifos	14/05/19	<0.1	ug/L	No
Diazinon	14/05/19	<0.1	ug/L	No
Dicamba	14/05/19	<0.2	ug/L	No
1,2-Dichlorobenzene	14/05/19	<0.5	ug/L	No
1,4-Dichlorobenzene	14/05/19	<0.5	ug/L	No
1,2-Dichloroethane	14/05/19	<0.5	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	14/05/19	<0.5	ug/L	No
Dichloromethane	14/05/19	<5.0	ug/L	No



Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
2-4 Dichlorophenol	14/05/19	<0.3	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	14/05/19	<0.2	ug/L	No
Diclofop-methyl	14/05/19	<0.2	ug/L	No
Dimethoate	14/05/19	<0.1	ug/L	No
Diquat	14/05/19	<1.0	ug/L	No
Diuron	14/05/19	<1.0	ug/L	No
Ethylbenzene	14/05/19	<0.5	ug/L	No
gamma-Chlordane	14/05/19	<0.1	ug/L	No
Glyphosate	14/05/19	<5.0	ug/L	No
m/p-xylene	14/05/19	<1.0	ug/L	No
Malathion	14/05/19	<0.1	ug/L	No
MCPA	14/05/19	<0.2	ug/L	No
Metolachlor	14/05/19	<0.1	ug/L	No
Metribuzin	14/05/19	<0.1	ug/L	No
Monochlorobenzene	14/05/19	<0.5	ug/L	No
o,p-DDT	14/05/19	<0.1	ug/L	No
o-xylene	14/05/19	<0.5	ug/L	No
Oxychlordane	14/05/19	<0.1	ug/L	No
p,p-DDD	14/05/19	<0.1	ug/L	No
p,p-DDE	14/05/19	<0.1	ug/L	No
p,p-DDT	14/05/19	<0.1	ug/L	No
Paraquat	14/05/19	<1.0	ug/L	No
Pentachlorophenol	14/05/19	<0.5	ug/L	No
Phorate	14/05/19	<0.1	ug/L	No
Picloram	14/05/19	<0.2	ug/L	No
Polychlorinated Biphenyls (PCB)	14/05/19	<0.035	ug/L	No
Prometryne	14/05/19	<0.1	ug/L	No
Simazine	14/05/19	<0.1	ug/L	No
Terbufos	14/05/19	<0.2	ug/L	No
Tetrachloroethylene (perchloroethylene)	14/05/19	<0.5	ug/L	No
2,3,4,6-Tetrachlorophenol	14/05/19	<0.5	ug/L	No
Toluene	14/05/19	<0.5	ug/L	No
Triallate	14/05/19	<0.1	ug/L	No
Trichloroethylene	14/05/19	<0.5	ug/L	No
2,4,6-Trichlorophenol	14/05/19	<0.5	ug/L	No
Trifluralin	14/05/19	<0.1	ug/L	No
Vinyl Chloride	14/05/19	<0.2	ug/L	No
Xylenes (Total)	14/05/19	<1.5	ug/L	No

Palmerston Well #3

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	14/05/19	<0.1	ug/L	No
alpha-Chlordane	14/05/19	<0.1	ug/L	No
Aroclor 1242	14/05/19	<0.02	ug/L	No
Aroclor 1254	14/05/19	<0.02	ug/L	No
Aroclor 1260	14/05/19	<0.02	ug/L	No
Atrazine	14/05/19	<0.1	ug/L	No
Atrazine Desethyl	14/05/19	<0.1	ug/L	No



Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Atrazine & Metabolites	14/05/19	<0.2	ug/L	No
Azinphos-methyl	14/05/19	<0.1	ug/L	No
Benzene	14/05/19	<0.5	ug/L	No
Benzo(a)pyrene	14/05/19	<0.005	ug/L	No
Bromoxynil	14/05/19	<0.2	ug/L	No
Carbaryl	14/05/19	<0.2	ug/L	No
Carbofuran	14/05/19	<0.2	ug/L	No
Carbon Tetrachloride	14/05/19	<0.2	ug/L	No
Chlorpyrifos	14/05/19	<0.1	ug/L	No
Diazinon	14/05/19	<0.1	ug/L	No
Dicamba	14/05/19	<0.2	ug/L	No
1,2-Dichlorobenzene	14/05/19	<0.5	ug/L	No
1,4-Dichlorobenzene	14/05/19	<0.5	ug/L	No
1,2-Dichloroethane	14/05/19	<0.5	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	14/05/19	<0.5	ug/L	No
Dichloromethane	14/05/19	<5.0	ug/L	No
2,4 Dichlorophenol	14/05/19	<0.3	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	14/05/19	<0.2	ug/L	No
Diclofop-methyl	14/05/19	<0.2	ug/L	No
Dimethoate	14/05/19	<0.1	ug/L	No
Diquat	14/05/19	<1.0	ug/L	No
Diuron	14/05/19	<1.0	ug/L	No
Ethylbenzene	14/05/19	<0.5	ug/L	No
gamma-Chlordane	14/05/19	<0.1	ug/L	No
Glyphosate	14/05/19	<5.0	ug/L	No
m/p-xylene	14/05/19	<1.0	ug/L	No
Malathion	14/05/19	<0.1	ug/L	No
MCPA	14/05/19	<0.2	ug/L	No
Metolachlor	14/05/19	<0.1	ug/L	No
Metribuzin	14/05/19	<0.1	ug/L	No
Monochlorobenzene	14/05/19	<0.5	ug/L	No
o,p-DDT	14/05/19	<0.1	ug/L	No
o-xylene	14/05/19	<0.5	ug/L	No
Oxychlordane	14/05/19	<0.1	ug/L	No
p,p-DDD	14/05/19	<0.1	ug/L	No
p,p-DDE	14/05/19	<0.1	ug/L	No
p,p-DDT	14/05/19	<0.1	ug/L	No
Paraquat	14/05/19	<1.0	ug/L	No
Pentachlorophenol	14/05/19	<0.5	ug/L	No
Phorate	14/05/19	<0.1	ug/L	No
Picloram	14/05/19	<0.2	ug/L	No
Polychlorinated Biphenyls (PCB)	14/05/19	<0.035	ug/L	No
Prometryne	14/05/19	<0.1	ug/L	No
Simazine	14/05/19	<0.1	ug/L	No
Terbufos	14/05/19	<0.2	ug/L	No
Tetrachloroethylene (perchloroethylene)	14/05/19	<0.5	ug/L	No
2,3,4,6-Tetrachlorophenol	14/05/19	<0.5	ug/L	No
Toluene	14/05/19	<0.5	ug/L	No
Triallate	14/05/19	<0.1	ug/L	No



Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Trichloroethylene	14/05/19	<0.5	ug/L	No
2,4,6-Trichlorophenol	14/05/19	<0.5	ug/L	No
Trifluralin	14/05/19	<0.1	ug/L	No
Vinyl Chloride	14/05/19	<0.2	ug/L	No
Xylenes (Total)	14/05/19	<1.5	ug/L	No

Palmerston Well #4

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	14/05/19	<0.1	ug/L	No
alpha-Chlordane	14/05/19	<0.1	ug/L	No
Aroclor 1242	14/05/19	<0.02	ug/L	No
Aroclor 1254	14/05/19	<0.02	ug/L	No
Aroclor 1260	14/05/19	<0.02	ug/L	No
Atrazine	14/05/19	<0.1	ug/L	No
Atrazine Desethyl	14/05/19	<0.1	ug/L	No
Atrazine & Metabolites	14/05/19	<0.2	ug/L	No
Azinphos-methyl	14/05/19	<0.1	ug/L	No
Benzene	14/05/19	<0.5	ug/L	No
Benzo(a)pyrene	14/05/19	<0.005	ug/L	No
Bromoxynil	14/05/19	<0.2	ug/L	No
Carbaryl	14/05/19	<0.2	ug/L	No
Carbofuran	14/05/19	<0.2	ug/L	No
Carbon Tetrachloride	14/05/19	<0.2	ug/L	No
Chlorpyrifos	14/05/19	<0.1	ug/L	No
Diazinon	14/05/19	<0.1	ug/L	No
Dicamba	14/05/19	<0.2	ug/L	No
1,2-Dichlorobenzene	14/05/19	<0.5	ug/L	No
1,4-Dichlorobenzene	14/05/19	<0.5	ug/L	No
1,2-Dichloroethane	14/05/19	<0.5	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	14/05/19	<0.5	ug/L	No
Dichloromethane	14/05/19	<5.0	ug/L	No
2-4 Dichlorophenol	14/05/19	<0.3	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	14/05/19	<0.2	ug/L	No
Diclofop-methyl	14/05/19	<0.2	ug/L	No
Dimethoate	14/05/19	<0.1	ug/L	No
Diquat	14/05/19	<1.0	ug/L	No
Diuron	14/05/19	<1.0	ug/L	No
Ethylbenzene	14/05/19	<0.5	ug/L	No
gamma-Chlordane	14/05/19	<0.1	ug/L	No
Glyphosate	14/05/19	<5.0	ug/L	No
m/p-xylene	14/05/19	<1.0	ug/L	No
Malathion	14/05/19	<0.1	ug/L	No
MCPA	14/05/19	<0.2	ug/L	No
Metolachlor	14/05/19	<0.1	ug/L	No
Metribuzin	14/05/19	<0.1	ug/L	No
Monochlorobenzene	14/05/19	<0.5	ug/L	No
o,p-DDT	14/05/19	<0.1	ug/L	No
o-xylene	14/05/19	<0.5	ug/L	No



Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Oxychlorthane	14/05/19	<0.1	ug/L	No
p,p-DDD	14/05/19	<0.1	ug/L	No
p,p-DDE	14/05/19	<0.1	ug/L	No
p,p-DDT	14/05/19	<0.1	ug/L	No
Paraquat	14/05/19	<1.0	ug/L	No
Pentachlorophenol	14/05/19	<0.5	ug/L	No
Phorate	14/05/19	<0.1	ug/L	No
Picloram	14/05/19	<0.2	ug/L	No
Polychlorinated Biphenyls (PCB)	14/05/19	<0.035	ug/L	No
Prometryne	14/05/19	<0.1	ug/L	No
Simazine	14/05/19	<0.1	ug/L	No
Terbufos	14/05/19	<0.2	ug/L	No
Tetrachloroethylene (perchloroethylene)	14/05/19	<0.5	ug/L	No
2,3,4,6-Tetrachlorophenol	14/05/19	<0.5	ug/L	No
Toluene	14/05/19	<0.5	ug/L	No
Triallate	14/05/19	<0.1	ug/L	No
Trichloroethylene	14/05/19	<0.5	ug/L	No
2,4,6-Trichlorophenol	14/05/19	<0.5	ug/L	No
Trifluralin	14/05/19	<0.1	ug/L	No
Vinyl Chloride	14/05/19	<0.2	ug/L	No
Xylenes (Total)	14/05/19	<1.5	ug/L	No

Palmerston 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)	26/02/21	13.50	ug/L	100
	27/05/21	12.45		
	09/08/21	12.20		
	26/11/21	11.38		

Parameter	Sample Date	Result Value RAA	Unit of Measure	ODWS Criteria
HAA (NOTE: latest quarterly average shown)	26/02/21	5.3	ug/L	80
	27/05/21	5.3		
	09/08/21	5.3		
	17/12/21	5.3		

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