



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, 2015 to December 31, 2015

<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; width: fit-content;"> <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: <div style="border: 1px solid black; padding: 2px; display: inline-block;">N/A</div></p> <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: <div style="border: 1px solid black; padding: 2px; display: inline-block;">N/A</div></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] 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

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 Office
- 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 chlorination system failure (*and corresponding lockout of well pumps*), low water level and intrusion. Each pumphouse has continuous monitoring analyzers for both chlorine and turbidity, but the turbidity analyzer is not alarmed.

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 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.

In 2014, \$500,000.00 was spent installing water meters throughout the Town of Minto, \$830.00 was spent finalizing the addition of Well # 4, \$15,740.00 was spent on valve replacements, \$64,775.00 was spent installing watermain on Lowe St. and Walker St and \$255.00 was spent on the Wellington St. Watermain replacement project.

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
N/A	N/A	N/A	N/A	N/A	N/A

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

Type / Location of Sample	Number of Samples	Range of Total Coliform Results (min #)-(max #)	Range of E. Coli or Fecal Results (min #)-(max #)	Range of HPC (min #)-(max #)	Number of HPC Samples	
Raw	Well #1	51	0 - 0	0 - 0	N/A	N/A
	Well #2	52	0 - 0	0 - 0	N/A	N/A
	Well #3	51	0 - 0	0 - 0	N/A	N/A
	Well #4	52	0 - 0	0 - 0	N/A	N/A
Treated	Well #1	51	0 - 0	0 - 0	<10 - 20	51
	Well #2	52	0 - 0	0 - 0	<10 - 550	52
	Well #3	51	0 - 0	0 - 0	<10 - 10	51
	Well #4	52	0 - 0	0 - 0	<10 - 50	52



Type / Location of Sample	Number of Samples	Range of Total Coliform Results (min #)-(max #)	Range of E. Coli or Fecal Results (min #)-(max #)	Range of HPC (min #)-(max #)	Number of HPC Samples
Distribution	208	0 - 0	0 - 0	<10 - > 2000	208

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

Operational Testing			Number of Grab Samples	Range of Results (min #) - (max #)
Turbidity	Raw	Well #1	63	0.18 - 0.91
		Well #2	64	0.24 - 0.85
		Well #3	60	0.11 - 0.86
		Well #4	63	0.22 - 0.88
Chlorine	Treated	Well #1	358	0.90 - 2.03
		Well #2	361	0.82 - 1.93
		Well #3	355	0.88 - 1.71
		Well #4	363	0.96 - 1.97
	Distribution		563	0.68 - 1.57
Fluoride (If the DWS provides fluoridation)			N/A	N/A

NOTE: Record the unit of measure if it is not milligrams per litre.

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, 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

Palmerston Well #1

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

Parameter	Sample Date	Result Value	Unit of Measure	ODWS Criteria
Antimony	14/05/13	<0.6	(ug/L)	6
Arsenic	14/05/13	4.3	(ug/L)	25

Parameter	Sample Date	Result Value	Unit of Measure	ODWS Criteria
Barium	14/05/13	89	(ug/L)	1000
Boron	14/05/13	<50	(ug/L)	5000
Cadmium	14/05/13	<0.1	(ug/L)	5
Chromium	14/05/13	<1.0	(ug/L)	50
*Lead			(ug/L)	100
Mercury	14/05/13	<0.1	(ug/L)	1
Selenium	14/05/13	<5	(ug/L)	10
Sodium	23/05/12	17	(mg/L)	20
Uranium	14/05/13	<5	(ug/L)	20
Fluoride	23/05/12	0.21	(mg/L)	1.5
Nitrite	04/02/14	<0.1	(mg/L)	1
	14/05/14	<0.1		
	13/08/14	<0.1		
	13/11/14	<0.1		
Nitrate	04/02/14	0.21	(mg/L)	10
	14/05/14	0.22		
	13/08/14	0.23		
	13/11/14	0.24		

*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

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

Parameter	Sample Date	Result Value	Unit of Measure	ODWS Criteria
Antimony	14/05/13	<0.6	(ug/L)	6
Arsenic	14/05/13	4.3	(ug/L)	25
Barium	14/05/13	90	(ug/L)	1000
Boron	14/05/13	<50	(ug/L)	5000
Cadmium	14/05/13	<0.1	(ug/L)	5
Chromium	14/05/13	<1.0	(ug/L)	50
*Lead			(ug/L)	100
Mercury	14/05/13	<0.1	(ug/L)	1
Selenium	14/05/13	<5.0	(ug/L)	10
Sodium	23/05/12	15.4	(mg/L)	20



Parameter	Sample Date	Result Value	Unit of Measure	ODWS Criteria
Uranium	14/05/13	<5.0	(ug/L)	20
Fluoride	23/05/12	0.23	(mg/L)	1.5
Nitrite	04/02/14	<0.1	(mg/L)	1
	14/05/14	<0.1		
	13/08/14	<0.1		
	13/11/14	<0.1		
Nitrate	04/02/14	0.21	(mg/L)	10
	14/05/14	0.27		
	13/08/14	0.28		
	13/11/14	0.25		

*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

Pamerston Well #3

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

Parameter	Sample Date	Result Value	Unit of Measure	ODWS Criteria
Antimony	14/05/13	<0.6	(ug/L)	6
Arsenic	14/05/13	1.1	(ug/L)	25
Barium	14/05/13	91	(ug/L)	1000
Boron	14/05/13	<50	(ug/L)	5000
Cadmium	14/05/13	<0.1	(ug/L)	5
Chromium	14/05/13	<1.0	(ug/L)	50
*Lead			(ug/L)	100
Mercury	14/05/13	<0.1	(ug/L)	1
Selenium	14/05/13	<5.0	(ug/L)	10
Sodium	23/05/12	12.5	(mg/L)	20
Uranium	14/05/13	<5.0	(ug/L)	20
Fluoride	23/05/12	0.2	(mg/L)	1.5
Nitrite	04/02/14	<0.1	(mg/L)	1
	14/05/14	<0.1		
	13/08/14	<0.1		
	13/11/14	<0.1		
Nitrate	04/02/14	0.18	(mg/L)	10
	14/05/14	0.17		
	13/08/14	0.19		
	13/11/14	0.24		

*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 #4

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

Parameter	Sample Date	Result Value	Unit of Measure	ODWS Criteria
Antimony	14/05/13	<0.6	(ug/L)	6
Arsenic	14/05/13	1.1	(ug/L)	25
Barium	14/05/13	89	(ug/L)	1000
Boron	14/05/13	<50	(ug/L)	5000
Cadmium	14/05/13	<0.1	(ug/L)	5
Chromium	14/05/13	<1.0	(ug/L)	50
*Lead	22/01/14	<1.0	(mg/L)	100
Mercury	14/05/13	<0.1	(ug/L)	1
Selenium	14/05/13	<5.0	(ug/L)	10
Sodium	22/01/14	12.5	(mg/L)	20
Uranium	14/05/13	<5.0	(ug/L)	20
Fluoride	22/01/14	0.23	(mg/L)	1.5
Nitrite	04/02/14	<0.1	(mg/L)	1
	14/05/14	<0.1		
	13/08/14	<0.1		
	13/11/14	<0.1		
Nitrate	04/02/14	0.15	(mg/L)	10
	14/05/14	0.15		
	13/08/14	0.16		
	13/11/14	0.17		

*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	Number of Samples	Range of Lead Results (min#) – (max #)	Number of Exceedances
Plumbing	22	<1.0 – < 1.0 ug/L	0
Distribution	4	<1 – <1 ug/L	N/A

* These results are from samples taken in December 2013 – April 2014 and June - October 2014.
 No adverse results were identified.

Palmerston Well #1

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

Parameter	Sample Date	Result Value	Unit of Measure	ODWS Criteria
Alachlor	14/05/13	<0.1	(ug/L)	5
Aldicarb	14/05/13	<1.0	(ug/L)	9
Aldrin	14/05/13	<0.02	(ug/L)	
Aldrin + Dieldrin	14/05/13	<0.04	(ug/L)	0.7
alpha-Chlordane	14/05/13	<0.1	(ug/L)	
Aroclor 1242	14/05/13	<0.02	(ug/L)	
Aroclor 1254	14/05/13	<0.02	(ug/L)	
Aroclor 1260	14/05/13	<0.02	(ug/L)	
Atrazine	14/05/13	<0.1	(ug/L)	
Atrazine Desethyl	14/05/13	<0.1	(ug/L)	
Atrazine & Metabolites	14/05/13	<0.2	(ug/L)	
Azinphos-methyl	14/05/13	<0.1	(ug/L)	20
Bendiocarb	14/05/13	<0.2	(ug/L)	40
Benzene	14/05/13	<0.5	(ug/L)	5
Benzo(a)pyrene	14/05/13	<0.01	(ug/L)	0.01
Bromoxynil	14/05/13	<0.2	(ug/L)	5
Carbaryl	14/05/13	<0.2	(ug/L)	90
Carbofuran	14/05/13	<0.2	(ug/L)	90
Carbon Tetrachloride	14/05/13	<0.5	(ug/L)	5
Chlordane (Total)	14/05/13	<0.3	(ug/L)	7
Chlorpyrifos	14/05/13	<0.1	(ug/L)	90
Cyanazine	14/05/13	<0.1	(ug/L)	10

Parameter	Sample Date	Result Value	Unit of Measure	ODWS Criteria
Diazinon	14/05/13	<0.1	(ug/L)	20
Dicamba	14/05/13	<0.2	(ug/L)	120
1,2-Dichlorobenzene	14/05/13	<0.5	(ug/L)	200
1,4-Dichlorobenzene	14/05/13	<0.5	(ug/L)	5
Dichlorodiphenyltrichloroethane (DDT) + metabolites	14/05/13	<0.4	(ug/L)	30
1,2-Dichloroethane	14/05/13	<0.5	(ug/L)	5
1,1-Dichloroethylene (vinylidene chloride)	14/05/13	<0.5	(ug/L)	14
Dichloromethane	14/05/13	<0.5	(ug/L)	50
2,4 Dichlorophenol	14/05/13	<0.3	(ug/L)	900
2,4-Dichlorophenoxy acetic acid (2,4-D)	14/05/13	<0.2	(ug/L)	100
Diclofop-methyl	14/05/13	<0.2	(ug/L)	9
Dieldrin	14/05/13	<0.02	(ug/L)	
Dimethoate	14/05/13	<0.1	(ug/L)	20
Dinoseb	14/05/13	<0.2	(ug/L)	10
Diquat	14/05/13	<1.0	(ug/L)	70
Diuron	14/05/13	<1.0	(ug/L)	150
gamma-Chlordane	14/05/13	<0.1	(ug/L)	
Glyphosate	14/05/13	<5.0	(ug/L)	280
Heptachlor + Heptachlor Epoxide	14/05/13	<0.2	(ug/L)	3
Heptachlor	14/05/13	<0.1	(ug/L)	
Heptachlor Epoxide	14/05/13	<0.1	(ug/L)	
Lindane (Total)	14/05/13	<0.1	(ug/L)	4
Malathion	14/05/13	<0.1	(ug/L)	190
Methoxychlor	14/05/13	<0.1	(ug/L)	900
Metolachlor	14/05/13	<0.1	(ug/L)	50
Metribuzin	14/05/13	<0.1	(ug/L)	80
Monochlorobenzene	14/05/13	<0.5	(ug/L)	80
o,p-DDT	14/05/13	<0.1	(ug/L)	
Oxychlordane	14/05/13	<0.1	(ug/L)	
p,p-DDD	14/05/13	<0.1	(ug/L)	
p,p-DDE	14/05/13	<0.1	(ug/L)	
p,p-DDT	14/05/13	<0.1	(ug/L)	
Paraquat	14/05/13	<1.0	(ug/L)	10
Parathion	14/05/13	<0.1	(ug/L)	50
Pentachlorophenol	14/05/13	<0.5	(ug/L)	60
Phorate	14/05/13	<0.1	(ug/L)	2
Picloram	14/05/13	<0.2	(ug/L)	190
Polychlorinated Biphenyls (PCB)	14/05/13	<0.035	(ug/L)	3
Prometryne	14/05/13	<0.1	(ug/L)	1
Simazine	14/05/13	<0.1	(ug/L)	10

Parameter	Sample Date	Result Value	Unit of Measure	ODWS Criteria
Temephos	14/05/13	<0.1	(ug/L)	280
Terbufos	14/05/13	<0.2	(ug/L)	1
Tetrachloroethylene (perchloroethylene)	14/05/13	<0.5	(ug/L)	30
2,3,4,6-Tetrachlorophenol	14/05/13	<0.5	(ug/L)	100
Triallate	14/05/13	<0.1	(ug/L)	230
Trichloroethylene	14/05/13	<0.5	(ug/L)	50
2,4,6-Trichlorophenol	14/05/13	<0.5	(ug/L)	5
2,4,5-Trichlorophenoxy acetic acid (2,4,5,-T)	14/05/13	<0.2	(ug/L)	280
Trifluralin	14/05/13	<0.1	(ug/L)	45
Vinyl Chloride	14/05/13	<0.5	(ug/L)	2

Palmerston Well #2

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

Parameter	Sample Date	Result Value	Unit of Measure	ODWS Criteria
Alachlor	14/05/13	<0.1	(ug/L)	5
Aldicarb	14/05/13	<1.0	(ug/L)	9
Aldrin	14/05/13	<0.02	(ug/L)	
Aldrin + Dieldrin	14/05/13	<0.04	(ug/L)	0.7
alpha-Chlordane	14/05/13	<0.1	(ug/L)	
Aroclor 1242	14/05/13	<0.02	(ug/L)	
Aroclor 1254	14/05/13	<0.02	(ug/L)	
Aroclor 1260	14/05/13	<0.02	(ug/L)	
Atrazine	14/05/13	<0.1	(ug/L)	
Atrazine Desethyl	14/05/13	<0.1	(ug/L)	
Atrazine & Metabolites	14/05/13	<0.2	(ug/L)	
Azinphos-methyl	14/05/13	<0.1	(ug/L)	20
Bendiocarb	14/05/13	<0.2	(ug/L)	40
Benzene	14/05/13	<0.5	(ug/L)	5
Benzo(a)pyrene	14/05/13	<0.01	(ug/L)	0.01
Bromoxynil	14/05/13	<0.2	(ug/L)	5
Carbaryl	14/05/13	<0.2	(ug/L)	90
Carbofuran	14/05/13	<0.2	(ug/L)	90
Carbon Tetrachloride	14/05/13	<0.5	(ug/L)	5
Chlordane (Total)	14/05/13	<0.3	(ug/L)	7
Chlorpyrifos	14/05/13	<0.1	(ug/L)	90
Cyanazine	14/05/13	<0.1	(ug/L)	10
Diazinon	14/05/13	<0.1	(ug/L)	20

Parameter	Sample Date	Result Value	Unit of Measure	ODWS Criteria
Dicamba	14/05/13	<0.2	(ug/L)	120
1,2-Dichlorobenzene	14/05/13	<0.5	(ug/L)	200
1,4-Dichlorobenzene	14/05/13	<0.5	(ug/L)	5
Dichlorodiphenyltrichloroethane (DDT) + metabolites	14/05/13	<0.4	(ug/L)	30
1,2-Dichloroethane	14/05/13	<0.5	(ug/L)	5
1,1-Dichloroethylene (vinylidene chloride)	14/05/13	<0.5	(ug/L)	14
Dichloromethane	14/05/13	<0.5	(ug/L)	50
2-4 Dichlorophenol	14/05/13	<0.3	(ug/L)	900
2,4-Dichlorophenoxy acetic acid (2,4-D)	14/05/13	<0.2	(ug/L)	100
Diclofop-methyl	14/05/13	<0.2	(ug/L)	9
Dieldrin	14/05/13	<0.02	(ug/L)	
Dimethoate	14/05/13	<0.1	(ug/L)	20
Dinoseb	14/05/13	<0.2	(ug/L)	10
Diquat	14/05/13	<1.0	(ug/L)	70
Diuron	14/05/13	<1.0	(ug/L)	150
gamma-Chlordane	14/05/13	<0.1	(ug/L)	
Glyphosate	14/05/13	<5.0	(ug/L)	280
Heptachlor + Heptachlor Epoxide	14/05/13	<0.2	(ug/L)	3
Heptachlor	14/05/13	<0.1	(ug/L)	
Heptachlor Epoxide	14/05/13	<0.1	(ug/L)	
Lindane (Total)	14/05/13	<0.1	(ug/L)	4
Malathion	14/05/13	<0.1	(ug/L)	190
Methoxychlor	14/05/13	<0.1	(ug/L)	900
Metolachlor	14/05/13	<0.1	(ug/L)	50
Metribuzin	14/05/13	<0.1	(ug/L)	80
Monochlorobenzene	14/05/13	<0.5	(ug/L)	80
o,p-DDT	14/05/13	<0.1	(ug/L)	
Oxychlordane	14/05/13	<0.1	(ug/L)	
p,p-DDD	14/05/13	<0.1	(ug/L)	
p,p-DDE	14/05/13	<0.1	(ug/L)	
p,p-DDT	14/05/13	<0.1	(ug/L)	
Paraquat	14/05/13	<1.0	(ug/L)	10
Parathion	14/05/13	<0.1	(ug/L)	50
Pentachlorophenol	14/05/13	<0.5	(ug/L)	60
Phorate	14/05/13	<0.1	(ug/L)	2
Picloram	14/05/13	<0.2	(ug/L)	190
Polychlorinated Biphenyls (PCB)	14/05/13	<0.035	(ug/L)	3
Prometryne	14/05/13	<0.1	(ug/L)	1
Simazine	14/05/13	<0.1	(ug/L)	10
Temephos	14/05/13	<0.1	(ug/L)	280
Terbufos	14/05/13	<0.2	(ug/L)	1

Parameter	Sample Date	Result Value	Unit of Measure	ODWS Criteria
Tetrachloroethylene (perchloroethylene)	14/05/13	<0.5	(ug/L)	30
2,3,4,6-Tetrachlorophenol	14/05/13	<0.5	(ug/L)	100
Triallate	14/05/13	<0.1	(ug/L)	230
Trichloroethylene	14/05/13	<0.5	(ug/L)	50
2,4,6-Trichlorophenol	14/05/13	<0.5	(ug/L)	5
2,4,5-Trichlorophenoxy acetic acid (2,4,5,-T)	14/05/13	<0.2	(ug/L)	280
Trifluralin	14/05/13	<0.1	(ug/L)	45
Vinyl Chloride	14/05/13	<0.5	(ug/L)	2

Palmerston Well #3

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

Parameter	Sample Date	Result Value	Unit of Measure	ODWS Criteria
Alachlor	14/05/13	<0.1	(ug/L)	5
Aldicarb	14/05/13	<1.0	(ug/L)	9
Aldrin	14/05/13	<0.02	(ug/L)	
Aldrin + Dieldrin	14/05/13	<0.04	(ug/L)	0.7
alpha-Chlordane	14/05/13	<0.1	(ug/L)	
Aroclor 1242	14/05/13	<0.02	(ug/L)	
Aroclor 1254	14/05/13	<0.02	(ug/L)	
Aroclor 1260	14/05/13	<0.02	(ug/L)	
Atrazine	14/05/13	<0.1	(ug/L)	
Atrazine Desethyl	14/05/13	<0.1	(ug/L)	
Atrazine & Metabolites	14/05/13	<0.2	(ug/L)	
Azinphos-methyl	14/05/13	<0.1	(ug/L)	20
Bendiocarb	14/05/13	<0.2	(ug/L)	40
Benzene	14/05/13	<0.5	(ug/L)	5
Benzo(a)pyrene	14/05/13	<0.01	(ug/L)	0.01
Bromoxynil	14/05/13	<0.2	(ug/L)	5
Carbaryl	14/05/13	<0.2	(ug/L)	90
Carbofuran	14/05/13	<0.2	(ug/L)	90
Carbon Tetrachloride	14/05/13	<0.5	(ug/L)	5
Chlordane (Total)	14/05/13	<0.3	(ug/L)	7
Chlorpyrifos	14/05/13	<0.1	(ug/L)	90
Cyanazine	14/05/13	<0.1	(ug/L)	10
Diazinon	14/05/13	<0.1	(ug/L)	20
Dicamba	14/05/13	<0.2	(ug/L)	120
1,2-Dichlorobenzene	14/05/13	<0.5	(ug/L)	200

Parameter	Sample Date	Result Value	Unit of Measure	ODWS Criteria
1,4-Dichlorobenzene	14/05/13	<0.5	(ug/L)	5
Dichlorodiphenyltrichloroethane (DDT) + metabolites	14/05/13	<0.4	(ug/L)	30
1,2-Dichloroethane	14/05/13	<0.5	(ug/L)	5
1,1-Dichloroethylene (vinylidene chloride)	14/05/13	<0.5	(ug/L)	14
Dichloromethane	14/05/13	<0.5	(ug/L)	50
2-4 Dichlorophenol	14/05/13	<0.3	(ug/L)	900
2,4-Dichlorophenoxy acetic acid (2,4-D)	14/05/13	<0.2	(ug/L)	100
Diclofop-methyl	14/05/13	<0.2	(ug/L)	9
Dieldrin	14/05/13	<0.02	(ug/L)	
Dimethoate	14/05/13	<0.1	(ug/L)	20
Dinoseb	14/05/13	<0.2	(ug/L)	10
Diquat	14/05/13	<1.0	(ug/L)	70
Diuron	14/05/13	<1.0	(ug/L)	150
gamma-Chlordane	14/05/13	<0.1	(ug/L)	
Glyphosate	14/05/13	<5.0	(ug/L)	280
Heptachlor + Heptachlor Epoxide	14/05/13	<0.2	(ug/L)	3
Heptachlor	14/05/13	<0.1	(ug/L)	
Heptachlor Epoxide	14/05/13	<0.1	(ug/L)	
Lindane (Total)	14/05/13	<0.1	(ug/L)	4
Malathion	14/05/13	<0.1	(ug/L)	190
Methoxychlor	14/05/13	<0.1	(ug/L)	900
Metolachlor	14/05/13	<0.1	(ug/L)	50
Metribuzin	14/05/13	<0.1	(ug/L)	80
Monochlorobenzene	14/05/13	<0.5	(ug/L)	80
o,p-DDT	14/05/13	<0.1	(ug/L)	
Oxychlorane	14/05/13	<0.1	(ug/L)	
p,p-DDD	14/05/13	<0.1	(ug/L)	
p,p-DDE	14/05/13	<0.1	(ug/L)	
p,p-DDT	14/05/13	<0.1	(ug/L)	
Paraquat	14/05/13	<1.0	(ug/L)	10
Parathion	14/05/13	<0.1	(ug/L)	50
Pentachlorophenol	14/05/13	<0.5	(ug/L)	60
Phorate	14/05/13	<0.1	(ug/L)	2
Picloram	14/05/13	<0.2	(ug/L)	190
Polychlorinated Biphenyls (PCB)	14/05/13	<0.035	(ug/L)	3
Prometryne	14/05/13	<0.1	(ug/L)	1
Simazine	14/05/13	<0.1	(ug/L)	10
Temephos	14/05/13	<0.1	(ug/L)	280
Terbufos	14/05/13	<0.2	(ug/L)	1
Tetrachloroethylene (perchloroethylene)	14/05/13	<0.5	(ug/L)	30
2,3,4,6-Tetrachlorophenol	14/05/13	<0.5	(ug/L)	100

Parameter	Sample Date	Result Value	Unit of Measure	ODWS Criteria
Triallate	14/05/13	<0.1	(ug/L)	230
Trichloroethylene	14/05/13	<0.5	(ug/L)	50
2,4,6-Trichlorophenol	14/05/13	<0.5	(ug/L)	5
2,4,5-Trichlorophenoxy acetic acid (2,4,5,-T)	14/05/13	<0.2	(ug/L)	280
Trifluralin	14/05/13	<0.1	(ug/L)	45
Vinyl Chloride	14/05/13	<0.5	(ug/L)	2

Palmerston Well #4

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

Parameter	Sample Date	Result Value	Unit of Measure	ODWS Criteria
Aalachlor	14/05/13	<0.1	(ug/L)	5
Aldicarb	14/05/13	<1.0	(ug/L)	9
Aldrin	14/05/13	<0.02	(ug/L)	
Aldrin + Dieldrin	14/05/13	<0.04	(ug/L)	0.7
alpha-Chlordane	14/05/13	<0.1	(ug/L)	
Aroclor 1242	14/05/13	<0.02	(ug/L)	
Aroclor 1254	14/05/13	<0.02	(ug/L)	
Aroclor 1260	14/05/13	<0.02	(ug/L)	
Atrazine	14/05/13	<0.1	(ug/L)	
Atrazine Desethyl	14/05/13	<0.1	(ug/L)	
Atrazine & Metabolites	14/05/13	<0.2	(ug/L)	
Azinphos-methyl	14/05/13	<0.1	(ug/L)	20
Bendiocarb	14/05/13	<0.2	(ug/L)	40
Benzene	14/05/13	<0.5	(ug/L)	5
Benzo(a)pyrene	14/05/13	<0.01	(ug/L)	0.01
Bromoxynil	14/05/13	<0.2	(ug/L)	5
Carbaryl	14/05/13	<0.2	(ug/L)	90
Carbofuran	14/05/13	<0.2	(ug/L)	90
Carbon Tetrachloride	14/05/13	<0.5	(ug/L)	5
Chlordane (Total)	14/05/13	<0.3	(ug/L)	7
Chlorpyrifos	14/05/13	<0.1	(ug/L)	90
Cyanazine	14/05/13	<0.1	(ug/L)	10
Diazinon	14/05/13	<0.1	(ug/L)	20
Dicamba	14/05/13	<0.2	(ug/L)	120
1,2-Dichlorobenzene	14/05/13	<0.5	(ug/L)	200
1,4-Dichlorobenzene	14/05/13	<0.5	(ug/L)	5
Dichlorodiphenyltrichloroethane (DDT) + metabolites	14/05/13	<0.4	(ug/L)	30
1,2-Dichloroethane	14/05/13	<0.5	(ug/L)	5

Parameter	Sample Date	Result Value	Unit of Measure	ODWS Criteria
1,1-Dichloroethylene (vinylidene chloride)	14/05/13	<0.5	(ug/L)	14
Dichloromethane	14/05/13	<0.5	(ug/L)	50
2-4 Dichlorophenol	14/05/13	<0.5	(ug/L)	900
2,4-Dichlorophenoxy acetic acid (2,4-D)	14/05/13	<0.2	(ug/L)	100
Diclofop-methyl	14/05/13	<0.2	(ug/L)	9
Dieldrin	14/05/13	<0.02	(ug/L)	
Dimethoate	14/05/13	<0.1	(ug/L)	20
Dinoseb	14/05/13	<0.2	(ug/L)	10
Diquat	14/05/13	<1.0	(ug/L)	70
Diuron	14/05/13	<1.0	(ug/L)	150
gamma-Chlordane	14/05/13	<0.1	(ug/L)	
Glyphosate	14/05/13	<5.0	(ug/L)	280
Heptachlor + Heptachlor Epoxide	14/05/13	<0.2	(ug/L)	3
Heptachlor	14/05/13	<0.1	(ug/L)	
Heptachlor Epoxide	14/05/13	<0.1	(ug/L)	
Lindane (Total)	14/05/13	<0.1	(ug/L)	4
Malathion	14/05/13	<0.1	(ug/L)	190
Methoxychlor	14/05/13	<0.1	(ug/L)	900
Metolachlor	14/05/13	<0.1	(ug/L)	50
Metribuzin	14/05/13	<0.1	(ug/L)	80
Monochlorobenzene	14/05/13	<0.5	(ug/L)	80
o,p-DDT	14/05/13	<0.1	(ug/L)	
Oxychlordane	14/05/13	<0.1	(ug/L)	
p,p-DDD	14/05/13	<0.1	(ug/L)	
p,p-DDE	14/05/13	<0.1	(ug/L)	
p,p-DDT	14/05/13	<0.1	(ug/L)	
Paraquat	14/05/13	<1.0	(ug/L)	10
Parathion	14/05/13	<0.1	(ug/L)	50
Pentachlorophenol	14/05/13	<0.5	(ug/L)	60
Phorate	14/05/13	<0.1	(ug/L)	2
Picloram	14/05/13	<0.2	(ug/L)	190
Polychlorinated Biphenyls (PCB)	14/05/13	<0.035	(ug/L)	3
Prometryne	14/05/13	<0.1	(ug/L)	1
Simazine	14/05/13	<0.1	(ug/L)	10
Temephos	14/05/13	<0.1	(ug/L)	280
Terbufos	14/05/13	<0.2	(ug/L)	1
Tetrachloroethylene (perchloroethylene)	14/05/13	<0.5	(ug/L)	30
2,3,4,6-Tetrachlorophenol	14/05/13	<0.5	(ug/L)	100
Triallate	14/05/13	<0.1	(ug/L)	230
Trichloroethylene	14/05/13	<0.5	(ug/L)	50
2,4,6-Trichlorophenol	14/05/13	<0.5	(ug/L)	5
2,4,5-Trichlorophenoxy acetic acid (2,4,5,-T)	14/05/13	<0.2	(ug/L)	280
Trifluralin	14/05/13	<0.1	(ug/L)	45
Vinyl Chloride	14/05/13	<0.5	(ug/L)	2



Palmerston Distribution System

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

Parameter	Sample Date	Result Value	Unit of Measure	ODWS Criteria
THM	04/02/14	< 4.0	(ug/L)	100
	14/05/14	17.1		
	13/08/14	15.4		
	13/11/14	< 4.0		

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
N/A	N/A	N/A	N/A

(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)