

Part III Form 2
Section 11. ANNUAL REPORT.

Drinking-Water System Number:	220004830
Drinking-Water System Name:	Port Perry Groundwater Supply
Drinking-Water System Owner:	Regional Municipality of Durham
Drinking-Water System Category:	Large Municipal Residential System
Period being reported:	January 1 to December 31, 2006

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.

Regional Municipality of Durham
Works Department
605 Rossland Rd. E.
5th Floor
Whitby, Ontario
L1N 6A3

Complete for all other Categories.

Number of Designated Facilities served:

Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []

Number of Interested Authorities you report to:

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 []

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 – Durham Region Works Dept.
- 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 – Bi-annual newsletter to residents

Describe your Drinking-Water System

The **Port Perry Well Supply System** is a groundwater treatment facility that supplies quality potable water to approximately 9,087 consumers in the Communities of Port Perry and Prince Albert in the Township of Scugog.
 The three (3) production wells have a total combined rated capacity of 9,187 m³/day (2.021 MIGD). The treatment process includes: chlorination and iron sequestering at each well facility.
 The **distribution system** delivers the treated water through approximately 64 kilometres of watermains and includes a 2,223m³ standpipe for storage and pressure equalization.

List all water treatment chemicals used over this reporting period

Sodium hypochlorite (disinfectant)
 Sodium silicate (iron sequestration)

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

Installation of pitless adaptor in Well #5 - \$18,650
 Inspection and installation of new pump in Well #5 - \$23,500
 Rehabilitation and casing extension of Well #3 - \$14,500
 Upgrades to Well #6 including containment - \$120,000

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

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
Jul 20	Sodium (Well #6)	21.1	mg/L	A resample was taken at the well. Result of the analysis performed on the resample was 18.2 mg/L. Sodium results above 20.0 mg/L will not need to be reported for the next 60 months (5 years).	Jul 20

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 Results MF	Range of Total Coliform Results MF	E.Coli Results P/A	Total Coliform Results P/A	Number of HPC Samples	Range of HPC Results (min #)-(max #)	Number of BKG Samples	Range of BKG Results (min #)-(max #)
Raw	153	<1-1	<1-2	--	--	--	--	153	< 1-3200
Treated	151	--	--	A	A	145	<1-350	6	<1-<1
Distribution	263	--	--	A	A	126	<1-16	3	<1-<1
	3	<1-<1	<1-<1						

MF: Membrane Filter; P/A Presence/Absence; BKG: Background Bacteria; HPC: Heterotrophic Bacteria; M: Estimated Count

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 #)
Turbidity – raw water	177	0.10–0.67 NTU
Free Chlorine – Plant*	900	1.10–3.1
Free Chlorine - Distribution	868	0.22–2.02
Fluoride (If the DWS provides fluoridation)	--	

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

*Chlorine at the plant is continuously monitored by on-line equipment

*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
--	--	--	--	--

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance	Number of Samples
Antimony	Jun 20 – Jul 18	<0.0004-0.0005	mg/L	No	3
Arsenic	Jun 20 – Jul 18	<0.0004-<0.0004	mg/L	No	3
Barium	Jun 20 – Jul 18	0.145-0.165	mg/L	No	3
Boron	Jun 20 – Jul 18	<0.001-0.006	mg/L	No	3
Cadmium	Jun 20 – Jul 18	<0.0001	mg/L	No	3

Chromium	Jun 20 – Jul 18	<0.0003	mg/L	No	3
Lead - Distribution	Jan 17 – Dec 19	<0.0007	mg/L	No	3
Mercury	Jun 20 – Jul 18	<0.01-0.01	ug/L	No	3
Selenium	Jun 20 – Jul 18	<0.002	mg/L	No	3
Sodium	Jan 17 – Oct 31	10.0-21.1	mg/L	Yes (1)*	16
Uranium	Jun 20 – Jul 18	<0.002	mg/L	No	3
Fluoride	Feb 07 – Oct 31	<0.04-0.15	mg/L	No	15
Nitrite	Feb 07 – Oct 31	<0.05	mg/L	No	15
Nitrate	Feb 07 – Oct 31	<0.03-0.23	mg/L	No	15

*Number in parentheses represents number of exceedance(s).

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance	Number of Samples
Alachlor	Jul 25	<0.4	ug/L	No	3
Aldicarb	Jul 25	<3.5	ug/L	No	3
Aldrin + Dieldrin	Jul 25	<0.006	ug/L	No	3
Atrazine + N-dealkylated metabolites	Jul 25	<0.1	ug/L	No	3
Azinphos-methyl	Jul 25	<0.2	ug/L	No	3
Bendiocarb	Jul 25	<3.0	ug/L	No	3
Benzene	Jul 25	<0.1	ug/L	No	3
Benzo(a)pyrene	Jul 25	<0.001	ug/L	No	3
Bromoxynil	Jul 25	<0.4	ug/L	No	3
Carbaryl	Jul 25	<0.2	ug/L	No	3
Carbofuran	Jul 25	<4.0	ug/L	No	3
Carbon Tetrachloride	Jul 25	<0.2	ug/L	No	3
Chlordane (Total)	Jul 25	<0.006	ug/L	No	3
Chlorpyrifos	Jul 25	<0.2	ug/L	No	3
Cyanazine	Jul 25	<0.2	ug/L	No	3
Diazinon	Jul 25	<0.2	ug/L	No	3
Dicamba	Jul 25	<0.4	ug/L	No	3
1,2-Dichlorobenzene	Jul 25	<0.1	ug/L	No	3
1,4-Dichlorobenzene	Jul 25	<0.1	ug/L	No	3
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Jul 25	<0.008	ug/L	No	3
1,2-Dichloroethane	Jul 25	<0.1	ug/L	No	3
1,1-Dichloroethylene (vinylidene chloride)	Jul 25	<0.3	ug/L	No	3
Dichloromethane	Jul 25	<0.5	ug/L	No	3
2,4-Dichlorophenol	Jul 25	<0.4	ug/L	No	3
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jul 25	<0.6	ug/L	No	3
Diclofop-methyl	Jul 25	<0.4	ug/L	No	3
Dimethoate	Jul 25	<0.3	ug/L	No	3
Dinoseb	Jul 25	<0.5	ug/L	No	3
Diquat	Jul 25	<0.1	ug/L	No	3

Diuron	Jul 25	<0.2	ug/L	No	3
Glyphosate	Jul 25	<2.0	ug/L	No	3
Heptachlor + Heptachlor Epoxide	Jul 25	<0.008	ug/L	No	3
Lindane (Total)	Jul 25	<0.005	ug/L	No	3
Malathion	Jul 25	<0.2	ug/L	No	3
Methoxychlor	Jul 25	<0.009	ug/L	No	3
Metolachlor	Jul 25	<0.2	ug/L	No	3
Metribuzin	Jul 25	<0.08	ug/L	No	3
Monochlorobenzene	Jul 25	<0.1	ug/L	No	3
Paraquat	Jul 25	<0.1	ug/L	No	3
Parathion	Jul 25	<0.2	ug/L	No	3
Pentachlorophenol	Jul 25	<0.4	ug/L	No	3
Phorate	Jul 25	<0.2	ug/L	No	3
Picloram	Jul 25	<0.7	ug/L	No	3
Polychlorinated Biphenyls(PCB)	Jul 25	<0.02	ug/L	No	3
Prometryne	Jul 25	<0.08	ug/L	No	3
Simazine	Jul 25	<0.08	ug/L	No	3
THM – Distribution (NOTE: show latest annual average)	Feb 07 – Oct 31	21	ug/L	No	5
Temephos	Jul 25	<0.3	ug/L	No	3
Terbufos	Jul 25	<0.2	ug/L	No	3
Tetrachloroethylene	Jul 25	<0.3	ug/L	No	3
2,3,4,6-Tetrachlorophenol	Jul 25	<0.5	ug/L	No	3
Triallate	Jul 25	<2.0	ug/L	No	3
Trichloroethylene	Jul 25	<0.1	ug/L	No	3
2,4,6-Trichlorophenol	Jul 25	<0.5	ug/L	No	3
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Jul 25	<0.5	ug/L	No	3
Trifluralin	Jul 25	<0.006	ug/L	No	3
Vinyl Chloride	Jul 25	<0.2	ug/L	No	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
--	--	--	--

(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)