



Part III Form 2
Section 11. ANNUAL REPORT

Table with 2 columns: Label (Drinking-Water System Number, Name, Owner, Category, Period) and Value (220007285, HILLSBURGH DRINKING WATER SYSTEM, CORPORATION OF THE TOWN OF ERIN, LARGE MUNICIPAL RESIDENTIAL, JANUARY 1 - DECEMBER 31, 2015)

Form with two columns. Left column: 'Complete if your Category is Large Municipal Residential or Small Municipal Residential'. Right column: 'Complete for all other Categories.' Includes questions about serving 10,000 people, report availability, and designated facilities.

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

Table with 2 columns: Drinking Water System Name, Drinking Water System Number. Row 1: N/A, N/A

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? N/A
Yes [ ] No [ ]

Indicate how you notified system users that your annual report is available, and is free of charge.
[X] Public access/notice via the web
[X] Public access/notice via Government Office
[X] Public access/notice via Public Request



**Describe your Drinking-Water System**

*Well No. H2 is located on Wellington Rd 24 at the Hillsburgh Heights Facility. It is an 88 m deep drilled groundwater well, constructed of steel casing of 200 mm diameter to a depth of 51 m. It is equipped with a submersible pump rated at 702 L/min at 52.7 m. It discharges through a 150 mm diameter line into a reservoir. A lead removal treatment system has been installed at the Hillsburgh Heights pumphouse.*

*Well No. H3 is located at Victoria Park, across the road from the Glendevon pumphouse. It is a 57.9 m deep drilled groundwater well, constructed of steel casing of 200 mm diameter to a depth of 20.1 m. It is equipped with a submersible pump rated at 456 L/min. It is connected to a 75 mm diameter discharge line leading to the reservoir.*

*The Hillsburgh water distribution system is divided into two pressure zones. There is a pressure reducing valve chamber at the intersection of Barbour Drive and Orangeville Street. The upper pressure zone has primarily been supplied by Well No. H2. The lower pressure zone has primarily been supplied by Well No. H3. The Frank Smedley Booster Station was completed in 2014 and mainly delivers water from the lower pressure zone to the upper pressure zone. However, it will also allow reverse flow from the upper pressure zone to the lower pressure zone in times of need.*

**List all water treatment chemicals used over this reporting period**

*Treatment at the Glendevon facility consists of disinfection with sodium hypochlorite.  
Treatment at the Hillsburgh Heights facility consists of disinfection of sodium hypochlorite and lead removal.*

**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**

<b>Hillsburgh Well House Maintenance</b>	<b>\$ 22,857.09</b>
<b>Hillsburgh Distribution Maintenance</b>	<b>\$ 28,563.15</b>
<b>Hydro</b>	<b>\$ 24,737.33</b>
<b>Well House Data Loggers</b>	<b>\$ 20,250.25</b>
<b>Major Repair Glendevon Reservoir</b>	<b>\$ 53,149.80</b>
<b>Testing/Sampling</b>	<b>\$ 7,882.58</b>



**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					

**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 #)	Number of Samples	Range of Total Coliform Results (min #)-(max #)	Number of HPC & Background Bacteria Samples	Range of HPC Results (min #)-(max #)
<b>Raw</b>	100	0-0	100	0-0	100	0-0 cfu/100mL
<b>Treated</b>	100	0-0	100	0-0	200	0-2 cfu/100mL
<b>Distribution</b>	104	0-0	104	0-0	208	0-20 cfu/100mL

**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 #)	<p><i>NOTE: For continuous monitors use 8760 as the number of samples.</i></p> <p><i>*This reading is not considered to be adverse. It was due to power failures, alarm testing and programming changes.</i></p>
<b>Turbidity (HH)</b>	<b>12</b>	<b>0.09 – 0.62 NTU</b>	
<b>Turbidity (GD)</b>	<b>11</b> (well offline Sept. 2015)	<b>0.06 – 0.14 NTU</b>	
<b>Chlorine (continuous) (HH)</b>	<b>8760</b>	<b>*0.0000 – 1.357</b>	
<b>Chlorine (continuous) (GD)</b>	<b>8760</b>	<b>*0.0000 – 1.778</b>	
<b>Chlorine (grab samples)</b>	<b>365</b>	<b>0.44 – 1.22</b>	
<b>Fluoride (If the DWS provides fluoridation)</b>	<b>N/A</b>	<b>N/A</b>	

**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	Sampling Point	Parameter	Date Sampled	Result	Unit of Measure
01/18/2010	Hillsburgh Heights Treated	Lead	03/03/2015	0.0065	mg/L
01/18/2010	Hillsburgh Heights Raw	Lead	03/03/2015	0.010	mg/L
01/18/2010	Hillsburgh Heights Treated	Lead	06/03/2015	0.0057	mg/L
01/18/2010	Hillsburgh Heights Raw	Lead	06/03/2015	0.0089	mg/L
01/18/2010	Hillsburgh Heights Treated	Lead	09/25/2015	0.0058	mg/L
01/18/2010	Hillsburgh Heights Raw	Lead	09/25/2015	0.0081	mg/L
01/18/2010	Hillsburgh Heights Treated	Lead	12/08/2015	0.0063	mg/L
01/18/2010	Hillsburgh Heights Raw	Lead	12/08/2015	0.0095	mg/L
01/18/2010	Hillsburgh Heights Raw	Gross Alpha	08/16/2011	0.2	Bq/L
01/18/2010	Hillsburgh Heights Raw	Gross Beta	08/16/2011	< 0.1	Bq/L



**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	N/A	-	-
Distribution	6	ND – 0.0076 mg/L	0

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2015/06/23	ND	mg/L	
Arsenic	2015/06/23	0.0011	mg/L	
Barium	2015/06/23	0.047	mg/L	
Boron	2015/06/23	0.017	mg/L	
Cadmium	2015/06/23	ND	mg/L	
Chromium	2015/06/23	ND	mg/L	
Lead	2015/12/08	0.0063	mg/L	
Mercury	2015/06/23	ND	mg/L	
Selenium	2015/06/23	ND	mg/L	
Sodium	2013/06/20	14	mg/L	
Uranium	2015/06/23	0.0035	mg/L	
Fluoride	2013/06/20	0.88	mg/L	
Nitrite	2015/12/08	ND	mg/L	
Nitrate	2015/12/08	1.10	mg/L	

\*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 Organic parameters sampled during this reporting period or the most recent sample results *Hillsburgh Heights***

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2015/06/23	ND	ug/L	
Aldicarb	2015/06/23	ND	ug/L	
Aldrin + Dieldrin	2015/06/23	ND	ug/L	
Atrazine + N-dealkylated metabolites	2015/06/23	ND	ug/L	
Azinphos-methyl	2015/06/23	ND	ug/L	
Bendiocarb	2015/06/23	ND	ug/L	
Benzene	2015/06/23	ND	ug/L	
Benzo(a)pyrene	2015/06/23	ND	ug/L	
Bromoxynil	2015/06/23	ND	ug/L	
Carbaryl	2015/06/23	ND	ug/L	
Carbofuran	2015/06/23	ND	ug/L	
Carbon Tetrachloride	2015/06/23	ND	ug/L	
Chlordane (Total)	2015/06/23	ND	ug/L	

Chlorpyrifos	2015/06/23	ND	ug/L	
Cyanazine	2015/06/23	ND	ug/L	
Diazinon	2015/06/23	ND	ug/L	
Dicamba	2015/06/23	ND	ug/L	
1,2-Dichlorobenzene	2015/06/23	ND	ug/L	
1,4-Dichlorobenzene	2015/06/23	ND	ug/L	
Dichlorodiphenyltrichloroethane (DDT) + metabolites	2015/06/23	ND	ug/L	
1,2-Dichloroethane	2015/06/23	ND	ug/L	
1,1-Dichloroethylene (vinylidene chloride)	2015/06/23	ND	ug/L	
Dichloromethane	2015/06/23	ND	ug/L	
2-4 Dichlorophenol	2015/06/23	ND	ug/L	
2,4-Dichlorophenoxy acetic acid (2,4-D)	2015/06/23	ND	ug/L	
Diclofop-methyl	2015/06/23	ND	ug/L	
Dimethoate	2015/06/23	ND	ug/L	
Dinoseb	2015/06/23	ND	ug/L	
Diquat	2015/06/23	ND	ug/L	
Diuron	2015/06/23	ND	ug/L	
Glyphosate	2015/06/23	ND	ug/L	
Heptachlor + Heptachlor Epoxide	2015/06/23	ND	ug/L	
Lindane (Total)	2015/06/23	ND	ug/L	
Malathion	2015/06/23	ND	ug/L	
Methoxychlor	2015/06/23	ND	ug/L	
Metolachlor	2015/06/23	ND	ug/L	
Metribuzin	2015/06/23	ND	ug/L	
Monochlorobenzene	2015/06/23	ND	ug/L	
Paraquat	2015/06/23	ND	ug/L	
Parathion	2015/06/23	ND	ug/L	
Pentachlorophenol	2015/06/23	ND	ug/L	
Phorate	2015/06/23	ND	ug/L	
Picloram	2015/06/23	ND	ug/L	
Polychlorinated Biphenyls(PCB)	2015/06/23	ND	ug/L	
Prometryne	2015/06/23	ND	ug/L	
Simazine	2015/06/23	ND	ug/L	
THM (Distribution) (NOTE: show latest annual average)	2015/12/08	10.6	ug/L	
Temephos	2015/06/23	ND	ug/L	
Terbufos	2015/06/23	ND	ug/L	
Tetrachloroethylene	2015/06/23	ND	ug/L	
2,3,4,6-Tetrachlorophenol	2015/06/23	ND	ug/L	
Triallate	2015/06/23	ND	ug/L	
Trichloroethylene	2015/06/23	ND	ug/L	
2,4,6-Trichlorophenol	2015/06/23	ND	ug/L	
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	2015/06/23	ND	ug/L	
Trifluralin	2015/06/23	ND	ug/L	
Vinyl Chloride	2015/06/23	ND	ug/L	



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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2015/06/23	ND	mg/L	
Arsenic	2015/06/23	0.001	mg/L	
Barium	2015/06/23	0.018	mg/L	
Boron	2015/06/23	0.033	mg/L	
Cadmium	2015/06/23	ND	mg/L	
Chromium	2015/06/23	ND	mg/L	
Lead	2015/06/23	ND	mg/L	
Mercury	2015/06/23	ND	mg/L	
Selenium	2015/06/23	ND	mg/L	
Sodium	2013/06/20	11	mg/L	
Uranium	2015/06/23	0.00018	mg/L	
Fluoride	2013/06/20	0.61	mg/L	
Nitrite	2015/12/08	ND	mg/L	
Nitrate	2015/12/08	ND	mg/L	

\*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 Organic parameters sampled during this reporting period or the most recent sample results *Glendevon***

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2015/06/23	ND	ug/L	
Aldicarb	2015/06/23	ND	ug/L	
Aldrin + Dieldrin	2015/06/23	ND	ug/L	
Atrazine + N-dealkylated metabolites	2015/06/23	ND	ug/L	
Azinphos-methyl	2015/06/23	ND	ug/L	
Bendiocarb	2015/06/23	ND	ug/L	
Benzene	2015/06/23	ND	ug/L	
Benzo(a)pyrene	2015/06/23	ND	ug/L	
Bromoxynil	2015/06/23	ND	ug/L	
Carbaryl	2015/06/23	ND	ug/L	
Carbofuran	2015/06/23	ND	ug/L	
Carbon Tetrachloride	2015/06/23	ND	ug/L	
Chlordane (Total)	2015/06/23	ND	ug/L	
Chlorpyrifos	2015/06/23	ND	ug/L	
Cyanazine	2015/06/23	ND	ug/L	
Diazinon	2015/06/23	ND	ug/L	
Dicamba	2015/06/23	ND	ug/L	
1,2-Dichlorobenzene	2015/06/23	ND	ug/L	
1,4-Dichlorobenzene	2015/06/23	ND	ug/L	



Dichlorodiphenyltrichloroethane (DDT) + metabolites	2015/06/23	ND	ug/L	
1,2-Dichloroethane	2015/06/23	ND	ug/L	
1,1-Dichloroethylene (vinylidene chloride)	2015/06/23	ND	ug/L	
Dichloromethane	2015/06/23	ND	ug/L	
2-4 Dichlorophenol	2015/06/23	ND	ug/L	
2,4-Dichlorophenoxy acetic acid (2,4-D)	2015/06/23	ND	ug/L	
Diclofop-methyl	2015/06/23	ND	ug/L	
Dimethoate	2015/06/23	ND	ug/L	
Dinoseb	2015/06/23	ND	ug/L	
Diquat	2015/06/23	ND	ug/L	
Diuron	2015/06/23	ND	ug/L	
Glyphosate	2015/06/23	ND	ug/L	
Heptachlor + Heptachlor Epoxide	2015/06/23	ND	ug/L	
Lindane (Total)	2015/06/23	ND	ug/L	
Malathion	2015/06/23	ND	ug/L	
Methoxychlor	2015/06/23	ND	ug/L	
Metolachlor	2015/06/23	ND	ug/L	
Metribuzin	2015/06/23	ND	ug/L	
Monochlorobenzene	2015/06/23	ND	ug/L	
Paraquat	2015/06/23	ND	ug/L	
Parathion	2015/06/23	ND	ug/L	
Pentachlorophenol	2015/06/23	ND	ug/L	
Phorate	2015/06/23	ND	ug/L	
Picloram	2015/06/23	ND	ug/L	
Polychlorinated Biphenyls(PCB)	2015/06/23	ND	ug/L	
Prometryne	2015/06/23	ND	ug/L	
Simazine	2015/06/23	ND	ug/L	
THM (Distribution) (NOTE: show latest annual average)	2015/12/08	10.6	ug/L	
Temephos	2015/06/23	ND	ug/L	
Terbufos	2015/06/23	ND	ug/L	
Tetrachloroethylene	2015/06/23	ND	ug/L	
2,3,4,6-Tetrachlorophenol	2015/06/23	ND	ug/L	
Triallate	2015/06/23	ND	ug/L	
Trichloroethylene	2015/06/23	ND	ug/L	
2,4,6-Trichlorophenol	2015/06/23	ND	ug/L	
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	2015/06/23	ND	ug/L	
Trifluralin	2015/06/23	ND	ug/L	
Vinyl Chloride	2015/06/23	ND	ug/L	

**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			