

Drinking-Water Systems Regulation O. Reg. 170/03

Part III Form 2 Section 11. ANNUAL REPORT.

Drinking-Water System Number:	220001174 & 220006874
Drinking-Water System Name:	Alliston Water Supply System
Drinking-Water System Owner:	The Corporation of the Town of New Tecumseth
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1 st – December 31 st , 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 <input checked="" type="checkbox"/> No <input 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 <input type="checkbox"/>]</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>www.newtecumseth.ca</p> <p>10 Wellington Street East - Municipal Building, Alliston</p> <p>6558 8th Line (County Road #1) - Joint Operation Centre, Beeton</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;">NIL</div> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes <input type="checkbox"/> No <input type="checkbox"/>]</p> <p>Number of Interested Authorities you report to:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">NIL</div> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes <input type="checkbox"/> No <input type="checkbox"/>]</p>
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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
Kingsmere Village Distribution System	2600094133

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
- 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

Describe your Drinking-Water System

The Alliston Water Supply System consists of six groundwater production wells and is supplemented with surface water from the Raymond A. Barker Ultra-filtration Plant in Collingwood and distributed via a 600 mm diameter transmission main to the Alliston Reservoir. It also consists of four in-ground reservoirs with a total capacity of 15,788 m³ and one elevated storage tank with a capacity of approximately 4,500 m³.

The Alliston Reservoir is the central location for the Supervisory Control and Data Acquisition (SCADA) system that provides various monitoring and control over the Alliston Water System. The Alliston Reservoir houses a high lift pumping station dedicated to the Honda of Canada Plant.

The Alliston Water Supply system distributes treated water to the communities of Alliston and Beeton, which includes approximately 19,185 consumers (based on 2011 Census from Statistics Canada). There are approximately 6,250 service connections, comprising of residential, institutional, commercial and industrial consumers. In addition there are approximately 130 kilometers of water main and 650 hydrants.

Treated water from the Alliston distribution system is conveyed to Earl Rowe Provincial Park via a dedicated transmission main.

The Hillcrest Well Supply System operates as a self-contained system with one groundwater production well and one reservoir in the northern part of Alliston. The Hillcrest Well Supply System distributes treated water to the community of Hillcrest, which is composed of approximately 101 residential service connections. In addition, there are approximately 1.6 kilometers of water main and 11 fire hydrants. The Hillcrest system has a Pressure Sustaining Valve (PSV) that connects to the Alliston Water Supply System to allow water from the Alliston system to flow into the Hillcrest system should the pressure drop below a predetermined level. This provides additional capacity for fire protection and flexibility of supply from the Alliston Distribution System. Hillcrest Water System was not in service for 2015. Water was provided to the residents from the Alliston Water System.

(Please see attached spreadsheet for flow information)

List all water treatment chemicals used over this reporting period

- 12 % sodium hypochlorite solution
- Sodium silicate solution

Were any significant expenses incurred to?

- Install required equipment
- Repair required equipment
- Replace required equipment

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Please provide a brief description and a breakdown of monetary expenses incurred

Numerous works were undertaken during the period of January 1st – December 31st, 2015 in support of compliance with the Ministry Regulations as well as the Certificate of Approval Municipal Drinking Water Licence, Drinking Water Works Permit and Permit to Take Water. The following is a brief summary of major works: (Please note that the costs are estimates only)

General:

- Flow meter calibrations - \$1,645
- Chemical Metering Pump Upgrades - \$11,540
- Test Well Level Logger Upgrades - \$12,572

Groundwater Wells:

- Alliston Well #4 Rehabilitation - \$25,161

Collingwood to Alliston Pipeline:

- Replacement of Line Valve #5 and Meter Chamber Valve #1... \$157,024
- Swabbing of entire length of pipeline - \$75,093

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 (MM/DD/YYYY)	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
01/03/2015	Low Chlorine	0.00	Mg/l	Low Chlorine reading at analyzer due to no water flow from distribution main to analyzer. No water flow caused by water main break. Residual present at all times and tested frequently with portable analyzer: A residual of 1.60 Mg/l was measured at the Beeton plant and 0.96 Mg/l at the Springs Reservoir. No further action required.	01/03/2015
02/11/2015	EC	3	Cfu/100ml	Re-sampled at source and upstream Nov 4 & 5. Results all negative. Main flushed and water tested for chlorine residual Nov 4. Final residual at 0.88mg/l. No further action required.	04/11/2015 05/11/2015
02/11/2015	TC	480	Cfu/100ml	Main flushed and water tested for chlorine residual Nov 4. Final residual at 0.88mg/l. Re-sampled at source and upstream Nov 4 & 5. Results all negative. No further action required.	04/11/2015 05/11/2015

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 (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw	307	0 – 0	0 – 3	0	N/A

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Treated	419	0 – 0	0 – 0	419	0 – 380
Distribution	747	0 – 3	0 – 480	301	0 – 1900

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

Alliston Water Supply System

	Number of Grab Samples	Range of Results (min #)-(max #)	
Turbidity	8760	0.00 – 1.00 NTU	NOTE: For continuous monitors use 8760 as the number of samples.
Chlorine – Treated	8760	0.00 – 4.93	
Chlorine - Distribution	8760	1.53 – 2.30	
NOTE: Record the unit of measure if it is not milligrams per litre.			

Hillcrest Well & Reservoir

	Number of Grab Samples	Range of Results (min #)-(max #)	
Turbidity	8760	N/A	NOTE: For continuous monitors use 8760 as the number of samples.
Chlorine	8760	N/A	
NOTE: Record the unit of measure if it is not milligrams per litre.			
Note: Hillcrest Well did not run in 2014			

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 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 #)	Unit of Measure	Number of Exceedances	Standard
Plumbing	N/R				
Distribution	N/R				

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

Parameter	Well #8 Sample Date	Result Value	Unit of Measure	Exceedance	Standard
Antimony	04/07/2014	<0.02	µg/l	No	6.0
Arsenic	04/07/2014	2.7	µg/l	No	25
Barium	04/07/2014	48.9	µg/l	No	1000
Boron	04/04/2014	98	µg/l	No	5000
Cadmium	04/07/2014	<0.004	µg/l	No	5.0
Chromium	04/07/2014	1.5	µg/l	No	50
Mercury	04/07/2014	<0.01	µg/l	No	1.0
Selenium	04/07/2014	<1	µg/l	No	10
Sodium	12/11/2012	30.8	mg/l	Yes	200*
Uranium	04/07/2014	0.017	µg/l	No	20
Fluoride	12/11/2012	0.22	mg/l	No	1.5
Nitrite	01/12/2015 04/14/2015 07/13/2015 10/13/2015	<0.003	mg/l	No	1.0
Nitrate	01/12/2015 04/14/2015 07/13/2015 10/13/2015	0.009 - 0.014	mg/l	No	10

* The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets

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Parameter	Sample Date	Parsons Reservoir	Well #1	Well #4**	Well #5	Well #6***	Well #7	Unit of Measure	Exceedance	Standard
Antimony	02/23/2015	0.15	<0.02	0.02	<0.02	<0.02	<0.02	µg/l	No	6.0
Arsenic	02/23/2015	0.4	0.5	0.3	0.7	0.2	<0.2	µg/l	No	25
Barium	02/23/2015	15.8	104	120	85.7	106	126	µg/l	No	1000
Boron	02/23/2015	17.3	148	110	86	78	18.9	µg/l	No	5000
Cadmium	02/23/2015	0.008	<0.003	0.008	<0.003	<0.003	<0.003	µg/l	No	5.0
Chromium	02/23/2015	0.06	<0.03	0.07	<0.03	<0.03	<0.03	µg/l	No	50
Mercury	02/23/2015	0.01	0.03	0.02	0.01	0.04	0.02	µg/l	No	1.0
Selenium	02/23/2015	<1	<1	<1	<1	<1	<1	µg/l	No	10
Sodium	12/11/2012	6.32	31.8	37.6	23.4	32.1	7.14	mg/l	No	200*
Uranium	02/23/2015	0.223	0.041	0.006	0.016	<0.002	0.012	µg/l	No	20
Fluoride	12/11/2012	0.08	0.19	0.17	0.18	0.17	0.10	mg/l	No	1.5
Nitrite	01/12/2015 04/14/2015 07/13/2015 10/13/2015	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	mg/l	No	1.0
Nitrate	01/12/2015 04/14/2015 07/13/2015 10/13/2015	0.227 – 0.273	0.010 – 0.130	0.007 – 0.013	0.006 – 0.011	0.006 – 0.008	0.006 – 0.024	mg/l	No	10

* The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets

** Alliston Well #4 was sampled on March 16th, 2015

*** Alliston Well #6 was sampled on February 24th, 2015

Alliston Distribution (Treated)

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance	Standard
Lead	01/26/2012	0.12	µg/l	No	10.0

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

Parameter	Well #8 Sample Date	Result Value	Unit of Measure	Exceedance	Standard
Alachlor	04/07/2014	<0.02	µg/l	No	5.0
Aldicarb	04/07/2014	<0.01	µg/l	No	9.0
Aldrin + Dieldrin	04/07/2014	<0.01	µg/l	No	0.7
Atrazine + N-dealkylated metabolites	04/07/2014	<0.01	µg/l	No	5.0
Azinphos-methyl	04/07/2014	<0.02	µg/l	No	20.0
Bendiocarb	04/07/2014	<0.01	µg/l	No	40.0
Benzene	04/07/2014	<0.32	µg/l	No	5.0
Benzo(a)pyrene	04/07/2014	<0.004	µg/l	No	0.01
Bromoxynil	04/07/2014	<0.33	µg/l	No	5.0
Carbaryl	04/07/2014	<0.01	µg/l	No	90.0
Carbofuran	04/07/2014	<0.01	µg/l	No	90.0
Carbon Tetrachloride	04/07/2014	<0.16	µg/l	No	5.0
Chlordane (Total)	04/07/2014	<0.01	µg/l	No	7.0
Chlorpyrifos	04/07/2014	<0.02	µg/l	No	90.0
Cyanazine	04/07/2014	<0.03	µg/l	No	10.0
Diazinon	04/07/2014	<0.02	µg/l	No	20.0
Dicamba	04/07/2014	<0.20	µg/l	No	120
1,2-Dichlorobenzene	04/07/2014	<0.41	µg/l	No	200
1,4-Dichlorobenzene	04/07/2014	<0.36	µg/l	No	5.0
Dichlorodiphenyltrichloroethane (DDT) + metabolites	04/07/2014	<0.01	µg/l	No	30.0
1,2-Dichloroethane	04/07/2014	<0.35	µg/l	No	5.0
1,1-Dichloroethylene (vinylidene chloride)	04/07/2014	<0.33	µg/l	No	14.0
Dichloromethane	04/07/2014	<0.35	µg/l	No	50.0
2,4-Dichlorophenol	04/07/2014	<0.15	µg/l	No	900
2,4-Dichlorophenoxy acetic acid (2,4-D)	04/07/2014	<0.19	µg/l	No	100
Diclofop-methyl	04/07/2014	<0.40	µg/l	No	9.0
Dimethoate	04/07/2014	<0.03	µg/l	No	20.0
Dinoseb	04/07/2014	<0.36	µg/l	No	10.0
Diquat	04/07/2014	<1	µg/l	No	70.0
Diuron	04/07/2014	<0.03	µg/l	No	150
Glyphosate	04/07/2014	<1	µg/l	No	280
Heptachlor + Heptachlor Epoxide	04/07/2014	<0.01	µg/l	No	3.0
Lindane (Total)	04/07/2014	<0.01	µg/l	No	4.0
Malathion	04/07/2014	<0.02	µg/l	No	190
Methoxychlor	04/07/2014	<0.01	µg/l	No	900

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Parameter	Well #8 Sample Date	Result Value	Unit of Measure	Exceedance	Standard
Metolachlor	04/07/2014	<0.01	µg/l	No	50.0
Metribuzin	04/07/2014	<0.02	µg/l	No	80.0
Monochlorobenzene	04/07/2014	<0.3	µg/l	No	80.0
Paraquat	04/07/2014	<1	µg/l	No	10.0
Parathion	04/07/2014	<0.02	µg/l	No	50.0
Pentachlorophenol	04/07/2014	<0.15	µg/l	No	60.0
Phorate	04/07/2014	<0.01	µg/l	No	2.0
Picloram	04/07/2014	<1	µg/l	No	190
Polychlorinated Biphenyls(PCB)	04/07/2014	<0.04	µg/l	No	3.0
Prometryne	04/07/2014	<0.03	µg/l	No	1.0
Simazine	04/07/2014	<0.01	µg/l	No	10.0
Temephos	04/07/2014	<0.01	µg/l	No	280
Terbufos	04/07/2014	<0.01	µg/l	No	1.0
Tetrachloroethylene	04/07/2014	<0.35	µg/l	No	30.0
2,3,4,6- Tetrachlorophenol	04/07/2014	<0.14	µg/l	No	100
Triallate	04/07/2014	<0.01	µg/l	No	230
Trichloroethylene	04/07/2014	<0.44	µg/l	No	5.0
2,4,6-Trichlorophenol	04/07/2014	<0.25	µg/l	No	5.0
2,4,5- Trichlorophenoxy acetic acid (2,4,5-T)	04/07/2014	<0.22	µg/l	No	280
Trifluralin	04/07/2014	<0.02	µg/l	No	45.0
Vinyl Chloride	04/07/2014	<0.17	µg/l	No	2.0

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Parameter	Sample Date	Parsons Reservoir	Well #1	Well #4*	Well #5	Well #6**	Well #7	Unit of Measure	Exceedance	Standard
Alachlor	02/23/2015	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	µg/l	No	5.0
Aldicarb	02/23/2015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	No	9.0
Aldrin + Dieldrin	02/23/2015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	No	0.7
Atrazine + N-dealkylated metabolites	02/23/2015	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	No	5.0
Azinphos-methyl	02/23/2015	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	µg/l	No	20.0
Bendiocarb	02/23/2015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	No	40.0
Benzene	02/23/2015	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	µg/l	No	5.0
Benzo(a)pyrene	02/23/2015	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	µg/l	No	0.01
Bromoxynil	02/23/2015	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	µg/l	No	5.0
Carbaryl	02/23/2015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	No	90.0
Carbofuran	02/23/2015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	No	90.0
Carbon Tetrachloride	02/23/2015	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	µg/l	No	5.0
Chlordane (Total)	02/23/2015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	No	7.0
Chlorpyrifos	02/23/2015	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	µg/l	No	90.0
Cyanazine	02/23/2015	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	µg/l	No	10.0
Diazinon	02/23/2015	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	µg/l	No	20.0
Dicamba	02/23/2015	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	µg/l	No	120
1,2-Dichlorobenzene	02/23/2015	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	µg/l	No	200
1,4-Dichlorobenzene	02/23/2015	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	µg/l	No	5.0
Dichlorodiphenyltrichloroethane (DDT) + metabolites	02/23/2015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	No	30.0
1,2-Dichloroethane	02/23/2015	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	µg/l	No	5.0
1,1-Dichloroethylene (vinylidene chloride)	02/23/2015	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	µg/l	No	14.0
Dichloromethane	02/23/2015	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	µg/l	No	50.0
2-4 Dichlorophenol	02/23/2015	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	µg/l	No	900

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Parameter	Sample Date	Parsons Reservoir	Well #1	Well #4	Well #5	Well #6	Well #7	Unit of Measure	Exceedance	Standard
2,4-Dichlorophenoxy acetic acid (2,4-D)	02/23/2015	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	µg/l	No	100
Diclofop-methyl	02/23/2015	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	µg/l	No	9.0
Dimethoate	02/23/2015	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	µg/l	No	20.0
Dinoseb	02/23/2015	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	µg/l	No	10.0
Diquat	02/23/2015	<1	<1	<1	<1	<1	<1	µg/l	No	70.0
Diuron	02/23/2015	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	µg/l	No	150
Glyphosate	02/23/2015	<1	<1	<1	<1	<1	<1	µg/l	No	280
Heptachlor + Heptachlor Epoxide	02/23/2015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	No	3.0
Lindane (Total)	02/23/2015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	No	4.0
Malathion	02/23/2015	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	µg/l	No	190
Methoxychlor	02/23/2015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	No	900
Metolachlor	02/23/2015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	No	50.0
Metribuzin	02/23/2015	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	µg/l	No	80.0
Monochlorobenzene	02/23/2015	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	µg/l	No	80.0
Paraquat	02/23/2015	<1	<1	<1	<1	<1	<1	µg/l	No	10.0
Parathion	02/23/2015	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	µg/l	No	50.0
Pentachlorophenol	02/23/2015	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	µg/l	No	60.0
Phorate	02/23/2015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	No	2.0
Picloram	02/23/2015	<1	<1	<1	<1	<1	<1	µg/l	No	190
Polychlorinated Biphenyls(PCB)	02/23/2015	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	µg/l	No	3.0
Prometryne	02/23/2015	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	µg/l	No	1.0
Simazine	02/23/2015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	No	10.0
Temephos	02/23/2015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	No	280
Terbufos	02/23/2015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	No	1.0
Tetrachloroethylene	02/23/2015	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	µg/l	No	30.0
2,3,4,6-Tetrachlorophenol	02/23/2015	<0.20	<0.20	<0.14	<0.20	<0.14	<0.20	µg/l	No	100

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Parameter	Sample Date	Parsons Reservoir	Well #1	Well #4	Well #5	Well #6	Well #7	Unit of Measure	Exceedance	Standard
Triallate	02/23/2015	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	No	230
Trichloroethylene	02/23/2015	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	µg/l	No	5.0
2,4,6-Trichlorophenol	02/23/2015	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	µg/l	No	5.0
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	02/23/2015	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	µg/l	No	280
Trifluralin	02/23/2015	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	µg/l	No	45.0
Vinyl Chloride	02/23/2015	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	µg/l	No	2.0

- * Alliston Well #4 was sampled on March 16th, 2015
- ** Alliston Well #6 was sampled on February 24th, 2015

Alliston Distribution (Treated)

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance	Standard
THM (NOTE: show latest annual average)	01/12/2015	34.0	µg/l	No	100
	04/14/2015				
	07/13/2015				
	10/13/2015				

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

Hillcrest Reservoir (Treated)

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance	Standard
Antimony	04/23/2013	<0.02	µg/l	No	6.0
Arsenic	04/23/2013	0.3	µg/l	No	25
Barium	04/23/2013	97.9	µg/l	No	1000
Boron	04/23/2013	122	µg/l	No	5000
Cadmium	04/23/2013	<0.003	µg/l	No	5.0
Chromium	04/23/2013	0.8	µg/l	No	50
Mercury	04/23/2013	0.04	µg/l	No	1.0
Selenium	04/23/2013	<1	µg/l	No	10
Sodium	06/12/2001	26	mg/l	No	200*
Uranium	04/23/2013	0.007	µg/l	No	20
Fluoride	06/12/2001	0.20	mg/l	No	1.5
Nitrite	10/27/2015	0.004	mg/l	No	1.0
Nitrate	10/27/2015	0.020	mg/l	No	10

* The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets

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

Hillcrest Reservoir (Treated)

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance	Standard
Alachlor	04/23/2013	<0.02	µg/l	No	5.0
Aldicarb	04/23/2013	<0.01	µg/l	No	9.0
Aldrin + Dieldrin	04/23/2013	<0.01	µg/l	No	0.7
Atrazine + N-dealkylated metabolites	04/23/2013	<0.01	µg/l	No	5.0
Azinphos-methyl	04/23/2013	<0.02	µg/l	No	20.0
Bendiocarb	04/23/2013	<0.01	µg/l	No	40.0
Benzene	04/23/2013	<0.32	µg/l	No	5.0
Benzo(a)pyrene	04/23/2013	<0.004	µg/l	No	0.01
Bromoxynil	04/23/2013	<0.33	µg/l	No	5.0
Carbaryl	04/23/2013	<0.01	µg/l	No	90.0
Carbofuran	04/23/2013	<0.01	µg/l	No	90.0
Carbon Tetrachloride	04/23/2013	<0.16	µg/l	No	5.0
Chlordane (Total)	04/23/2013	<0.01	µg/l	No	7.0
Chlorpyrifos	04/23/2013	<0.02	µg/l	No	90.0
Cyanazine	04/23/2013	<0.03	µg/l	No	10.0
Diazinon	04/23/2013	<0.02	µg/l	No	20.0

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Dicamba	04/23/2013	<0.20	µg/l	No	120
1,2-Dichlorobenzene	04/23/2013	<0.41	µg/l	No	200
1,4-Dichlorobenzene	04/23/2013	<0.36	µg/l	No	5.0
Dichlorodiphenyltrichloroethane (DDT) + metabolites	04/23/2013	<0.01	µg/l	No	30.0
1,2-Dichloroethane	04/23/2013	<0.35	µg/l	No	5.0
1,1-Dichloroethylene (vinylidene chloride)	04/23/2013	<0.33	µg/l	No	14.0
Dichloromethane	04/23/2013	<0.35	µg/l	No	50.0
2-4 Dichlorophenol	04/23/2013	<0.15	µg/l	No	900
2,4-Dichlorophenoxy acetic acid (2,4-D)	04/23/2013	<0.19	µg/l	No	100
Diclofop-methyl	04/23/2013	<0.40	µg/l	No	9.0
Dimethoate	04/23/2013	<0.03	µg/l	No	20.0
Dinoseb	04/23/2013	<0.36	µg/l	No	10.0
Diquat	04/23/2013	<1	µg/l	No	70.0
Diuron	04/23/2013	<0.03	µg/l	No	150
Glyphosate	04/23/2013	<1	µg/l	No	280
Heptachlor + Heptachlor Epoxide	04/23/2013	<0.01	µg/l	No	3.0
Lindane (Total)	04/23/2013	<0.01	µg/l	No	4.0
Malathion	04/23/2013	<0.02	µg/l	No	190
Methoxychlor	04/23/2013	<0.01	µg/l	No	900
Metolachlor	04/23/2013	<0.01	µg/l	No	50.0
Metribuzin	04/23/2013	<0.02	µg/l	No	80.0
Monochlorobenzene	04/23/2013	<0.3	µg/l	No	80.0
Paraquat	04/23/2013	<1	µg/l	No	10.0
Parathion	04/23/2013	<0.02	µg/l	No	50.0
Pentachlorophenol	04/23/2013	<0.15	µg/l	No	60.0
Phorate	04/23/2013	<0.01	µg/l	No	2.0
Picloram	04/23/2013	<1	µg/l	No	190
Polychlorinated Biphenyls(PCB)	04/23/2013	<0.04	µg/l	No	3.0
Prometryne	04/23/2013	<0.03	µg/l	No	1.0
Simazine	04/23/2013	<0.01	µg/l	No	10.0
Temephos	04/23/2013	<0.01	µg/l	No	280
Terbufos	04/23/2013	<0.01	µg/l	No	1.0
Tetrachloroethylene	04/23/2013	<0.35	µg/l	No	30.0
2,3,4,6-Tetrachlorophenol	04/23/2013	<0.14	µg/l	No	100
Triallate	04/23/2013	<0.01	µg/l	No	230
Trichloroethylene	04/23/2013	<0.44	µg/l	No	5.0
2,4,6-Trichlorophenol	04/23/2013	0.46	µg/l	No	5.0
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	04/23/2013	<0.22	µg/l	No	280
Trifluralin	04/23/2013	<0.02	µg/l	No	45.0
Vinyl Chloride	04/23/2013	<0.17	µg/l	No	2.0

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

Hillcrest Distribution

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance	Standard
Lead	01/26/2006	0.2	µg/l	No	10.0

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

Hillcrest Distribution

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance	Standard
THM (2006 annual average)	01/26/2006 03/05/2006 08/01/2006 11/01/2006	33.5	µg/l	No	100

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)

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ALLISTON 2015 ANNUAL REPORT FLOW DATA (m³/day)

YEAR 2015	HILLCREST WELL		WELL #1		WELL #4		WELL #5		WELL #6		WELL #7		WELL #8		PIPELINE		TOTAL INFLOW	
	Ave	Max	Ave	Max	Ave	Max	Ave	Max	Ave	Max	Ave	Max	Ave	Max	Ave	Max	Ave	Max
January	0.00	0.00	10.58	12.95	183.44	538.45	128.04	443.25	86.17	135.50	159.62	346.61	168.17	573.19	7714.13	8910.50	7818.38	10800.70
February	0.00	0.00	14.55	23.40	92.78	161.36	45.93	82.94	55.45	100.13	160.86	377.22	72.25	84.95	7503.32	8819.00	7529.39	8819.00
March	0.00	0.00	7.70	10.94	44.68	89.66	37.45	68.78	40.39	93.77	179.16	364.44	41.39	68.73	7896.39	8865.00	7962.59	8865.00
April	0.00	0.00	9.33	11.01	70.62	93.72	49.26	55.44	72.89	82.77	90.75	150.18	34.48	52.50	7656.27	8830.00	7699.91	9095.47
May	0.00	0.00	9.81	10.75	474.56	1659.75	448.44	1079.13	519.11	2057.81	73.97	112.61	54.60	119.58	7605.85	8460.00	8176.13	10008.71
June	0.00	0.00	11.64	26.88	310.29	1108.53	315.79	1159.41	131.05	500.42	93.81	155.15	109.63	337.08	7815.98	8438.00	8213.05	10101.52
July	0.00	0.00	8.72	13.01	555.64	1577.92	557.50	1774.75	405.79	1662.61	218.05	682.11	209.73	564.95	7737.94	8383.00	8597.63	12404.78
August	0.00	0.00	18.32	49.46	178.28	568.13	471.36	1777.66	214.15	634.80	103.36	276.70	64.90	230.05	7540.77	8463.50	7894.56	10412.95
September	0.00	0.00	9.28	13.53	709.67	2370.03	412.68	1558.22	535.15	1883.73	99.11	223.80	105.13	277.03	7635.42	8542.00	8470.80	10602.15
October	0.00	0.00	18.60	27.27	882.02	2421.00	813.63	2391.38	726.58	2445.48	296.92	907.31	134.64	452.86	7446.45	8599.00	7640.81	8599.00
November	0.00	0.00	174.46	342.32	2188.44	2533.81	2060.84	2425.28	1863.55	2344.84	939.34	1056.80	602.25	833.13	6154.25	7388.00	7774.58	8994.62
December	0.00	0.00	10.47	14.40	75.93	114.59	63.14	113.16	70.29	124.03	145.48	275.94	56.60	101.73	7027.71	8282.00	7100.28	8327.64
Ave./Max	0.00	0.00	24.51	342.32	480.53	2533.81	450.34	2425.28	393.38	2445.48	213.37	1056.80	137.81	833.13	7477.87	8910.50	7906.51	12404.78
Max. Flow per PTTW & DWWP	752.0	752.0	896.0	896.0	2938.0	2938.0	2938.0	2938.0	2938.0	2938.0	1964.0	1964.0	1964.0	1964.0	10100.0	13500.0	27392.6	27390.0
Percentage of Maximum	0.0%	0.0%	2.7%	38.1%	16.4%	86.2%	15.3%	82.5%	13.4%	83.2%	10.9%	53.8%	7.0%	42.4%	74.0%	68.5%	28.9%	45.3%

PTTW – Permit to Take Water

DWWP – Drinking Water Works Permit