

Town of New Tecumseth 2018 Alliston Drinking Water System Annual Report



Prepared in accordance with Section 11 of Ontario Regulation 170/03

For the Period of

January 1 to December 31, 2018

System Rating: Water Distribution and Supply Subsystem Class II

Drinking Water System No.: 220001174

Municipal DW License No.: 123-101, Issue No. 2

February 1, 2018

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1. INTRODUCTION

In accordance with Ontario Regulation 170/03 (O.Reg.170/03): Drinking Water Systems, the Town of New Tecumseth has prepared this Annual Report which is required to be completed no later than February 28th of every year. This report covers the period of January 1st to December 31st, 2018 and the information provided complies with the reporting requirements outlined in Section 11 of O.Reg.170/03.

A summary of the Town of New Tecumseth's drinking water system description is outlined below:

Drinking-Water System Number:	220001174
Drinking-Water System Name:	Alliston Water Supply System
Drinking-Water System Owner:	Corporation of the Town of New Tecumseth
Drinking-Water System Category:	Large Municipal Residential

2. REPORTING REQUIREMENTS (Section 11 - O.Reg.170/03)

2.1 Availability of Annual Water Report

This report has been prepared in accordance with Section 11 of Ontario Regulation 170/03 and is available, free of charge as follows:

- via the Town of New Tecumseth website (<http://newtecumseth.ca/>)
- via Public Request (email: drinkingwater@newtecumseth.ca or phone 705-435-3900 ext. 1432)

The users of water from the Town of New Tecumseth Alliston Drinking Water System are advised through the Town of New Tecumseth's website and local newspaper when this report is available and how to obtain a copy.

2.2 Drinking Water System Receiving Water

List all Drinking Water Systems, which receive all their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Kingsmere Village Distribution System	2600094133

2.3 Description of 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 22,700 consumers (based on 2016 Census from Statistics Canada). There are 6,250 service connections, comprising of residential, institutional, commercial and industrial consumers. In addition there are approximately 140 kilometers of water main and 1006 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 2018. Water was provided to the residents from the Alliston Water System.

2.4 Water Treatment Chemicals

The following water treatment chemicals were utilized during the reporting period:

- Sodium Hypochlorite (12%)
- Sodium Silicate

2.5 Significant Expenses Incurred

The following major expenses were incurred during the reporting period to install, repair or replace required equipment:

A brief summary and value of the expenses incurred, including those outlined above, are as follows:

Maintenance Activity	Costs Incurred (2018)
Flow Meter Calibration	\$1,645
New Well Development (multiyear project)	\$291,000
Stand-by Power at Wells #1, #4, #8 and Hillcrest (completion in 2019)	\$175,000

2.6 Sampling and Testing

Drinking water samples were collected and tested in accordance of O.Reg. 170/03 and tested in accordance with O.Reg. 169/03.

2.6.1 Schedule 7 - Operational Checks

Operational checks including raw water turbidity, and free chlorine (treated and distribution) were conducted in accordance with Schedule 7 of O.Reg.170/03. The operational testing conducted during this reporting period are summarized in Table 1 of this report.

2.6.2 Schedule 10 - Microbiological Sampling and Testing

Microbiological testing on raw, treated and distribution water samples were conducted in accordance with Schedule 10-2, 10-3 and 10-4 of O.Reg.170/03. The microbiological testing and sampling conducted during this reporting period are summarized in Tables 2, 2.1 and 2.2 of this report.

In addition to the required microbiological testing from O. Reg. 170/03 (i.e. Total Coliform and E. Coli) Tables 2.1 and 2.2, include bacteriological health-related parameter; Heterotrophic Plate Count (HPC). HPC is a

useful operational tool for monitoring general bacteriological water quality throughout the treatment process and in the distribution system. HPC results are not an indicator of water safety and, as such, should not be used as an indicator of potential adverse human health effects.

2.6.3 Schedule 13 - Chemical Testing

Chemical testing for organic and inorganic parameters was conducted on treated water samples in accordance with Schedule 13, Sections 13.2 (Schedule 23), 13.4 (Schedule 24), 13.8 and 13.9. The latest 36-month and 60-month test results are summarized in Table 3 of this report.

Chemical testing for trihalomethanes (THMs) and nitrate and nitrite was conducting quarterly in accordance with Schedule 13.6 and 13.7 of O.Reg 170/03 respectively. THMs are samples solely from the distribution system and nitrate and nitrites are samples at the reservoir (treated samples). The latest test results are summarized in in Table 3 of this report.

2.6.4 Schedule 15.1 – Lead

Lead and Alkalinity samples are collected from several locations in the distribution system in accordance with Schedule 15.1. Lead samples are required to be done every three year and was completed in 2017. Alkalinity samples are required to be sampled between December 15th and April 15th and June 15th and October 15th every year. The latest test results are summarized in Table 4 of this report.

2.6.5 Schedule 16 – Reporting of Adverse Test Results and Other Problem and Schedule 17 – Corrective Actions

Adverse water quality incidents (AWQI) were reported in accordance with Schedule 16 and corrective actions related to each incident were completed in accordance with Schedule 17. A summary of the AWQI's and associated corrective actions that occurred during this reporting period is included in Table 5 of this report.

Tables

**Table 1 - Schedule 7 Operational Checks
Summary of Raw and Treated Samples – Turbidity**

Sampling Location	Number of Samples	NTU (min/max)
Raw Water Turbidity		
Well #1	12	0.33/2.43
Well #4	12	0.13/0.69
Well #5	12	0.12/0.50
Well #6	12	0.11/0.48
Well #7	10	0.17/0.51
Well #8	12	0.19/0.54
Hillcrest Well	0	0

**Table 1.1 - Schedule 7 Operational Checks
Summary of Treated and Distribution Samples – Free Chlorine**

Sampling Location	Number of Samples	mg/L (min/max)
Treated Water Free Chlorine		
Well #1	8760*	0.00/2.20
Well #4	8760*	0.00/2.20
Well #5	8760*	0.00/2.20
Well #6	8760*	0.00/2.20
Well #7	8760*	0.00/2.20
Well #8	8760*	0.60/2.20
Hillcrest Well	**	
Parsons Road Reservoir	8760*	1.17/2.20
Mowder Boulevard Reservoir	8760*	0.97/2.20
Distribution Water Free Chlorine		
McKelvey Reservoir	8760*	1.13/2.20
Springs Reservoir	8760*	0.76/2.20

Notes:

- *8760 represents Continuous Monitoring
- ** Hillcrest Well was not in service in 2018 except for regulatory sampling and no water was directed to the distribution system.
- Low Chlorine residuals that are recorded by continuous monitoring equipment during equipment malfunctions / well not running or power outages are not considered to be an adverse event. These incidents are responded to by operations staff for resolution. Also, the valve of 0.00 recorded by the continuous chlorine analyzer could be a result of equipment abnormality / SCADA issues / maintenance work or calibration.

**Table 2 - Schedule 10 Microbiological Sampling and Testing
Summary of Distribution System Samples**

Source	Number of Samples	E.Coli (min/max)	Total Coliform (min/max)	HPC (min/max)
Distribution System				
Routine Sampling Points	585	0/0	0/0	0/2000
Other (main breaks, new construction)	18	0/0	0/0	0/970
Total Distribution Samples	603			

**Table 2.1 - Schedule 10 Microbiological Sampling and Testing
Summary of Treated Water Samples**

Source	Number of Samples	E.Coli (min/max)	Total Coliform (min/max)	HPC (min/max)
Treated Water				
Well #1	52	0/0	0/0	0/2000
Well #4	52	0/0	0/0	0/3
Well #5	52	0/0	0/0	0/2
Well #6	52	0/0	0/0	0/92
Well #7	52	0/0	0/0	0/2000
Well #8	52	0/0	0/0	0/2000
Hillcrest Well	4	0/0	0/0	0/36
Parsons Road Reservoir	52	0/0	0/0	0/9
Mowder Reservoir	52	0/0	0/0	0/2000
McKelvey Reservoir	52	0/0	0/0	0/10
Springs Reservoir	52	0/0	0/0	0/1700
Meter Chamber #2 (Pipeline)	52	0/0	0/0	0/2000
Total Number of Treated Samples	576			

**Table 2.2 - Schedule 10 Microbiological Sampling and Testing
Summary of Raw Water Samples**

Source	Number of Samples	E.Coli (min/max)	Total Coliform (min/max)
Raw Water			
Well #1	52	0/0	0/0
Well #4	52	0/0	0/0
Well #5	52	0/0	0/0
Well #6	52	0/0	0/0
Well #7	52	0/0	0/0
Well #8	52	0/0	0/0
Hillcrest Well	4	0/0	0/0
Total Number of Raw Samples	316		

Notes:

**Table 3 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Inorganics (Page 1 of 2)**

Parameter	Sample Date (mm/dd/yr)	Result Value	Exceedance	Standard
Well #1				
Antimony	04/10/2018	0.02 <MDL	No	6.0
Arsenic	04/10/2018	0.3	No	10
Barium	04/10/2018	107	No	1000
Boron	04/10/2018	129	No	5000
Cadmium	04/10/2018	0.003 <MDL	No	5.0
Chromium	04/10/2018	0.09	No	50
Mercury	04/10/2018	0.01<MDL	No	1.0
Selenium	04/10/2018	0.04<MDL	No	50
Uranium	04/10/2018	0.018	No	20
Well #4				
Antimony	04/10/2018	0.02<MDL	No	6.0
Arsenic	04/10/2018	0.3	No	10
Barium	04/10/2018	121	No	1000
Boron	04/10/2018	78	No	5000
Cadmium	04/10/2018	0.003<MDL	No	5.0
Chromium	04/10/2018	0.11	No	50
Mercury	04/10/2018	0.01<MDL	No	1.0
Selenium	04/10/2018	0.04<MDL	No	50
Uranium	04/10/2018	0.002	No	20
Well #5				
Antimony	04/10/2018	0.02 <MDL	No	6.0
Arsenic	04/10/2018	0.3	No	10
Barium	04/10/2018	77.6	No	1000
Boron	04/10/2018	63	No	5000
Cadmium	04/10/2018	0.003 <MDL	No	5.0
Chromium	04/10/2018	0.11	No	50
Mercury	04/10/2018	0.01	No	1.0
Selenium	04/10/2018	0.04<MDL	No	50
Uranium	04/10/2018	0.007	No	20
Well #6				
Antimony	04/10/2018	0.02 <MDL	No	6.0
Arsenic	04/10/2018	0.2<MDL	No	10
Barium	04/10/2018	114	No	1000
Boron	04/10/2018	67	No	5000
Cadmium	04/10/2018	0.003 <MDL	No	5.0
Chromium	04/10/2018	0.14	No	50
Mercury	04/10/2018	0.01<MDL	No	1.0
Selenium	04/10/2018	0.04<MDL	No	50
Uranium	04/10/2018	0.002 <MDL	No	20

Notes:

- Results expressed in µg/L
- MDL – Maximum Detection Limit

**Table 3 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Inorganics (Page 2 of 2)**

Parameter	Sample Date (mm/dd/yr)	Result Value	Exceedance	Standard
Well #7				
Antimony	04/10/2018	0.05	No	6.0
Arsenic	04/10/2018	0.2 <MDL	No	10
Barium	04/10/2018	107	No	1000
Boron	04/10/2018	12	No	5000
Cadmium	04/10/2018	0.003	No	5.0
Chromium	04/10/2018	0.12	No	50
Mercury	04/10/2018	0.01<MDL	No	1.0
Selenium	04/10/2018	0.04<MDL	No	50
Uranium	04/10/2018	0.010	No	20
Well #8				
Antimony	06/14/2017	0.02 <MDL	No	6.0
Arsenic	06/14/2017	2.8	No	10
Barium	06/14/2017	51.5	No	1000
Boron	06/14/2017	108	No	5000
Cadmium	06/14/2017	0.003 <MDL	No	5.0
Chromium	06/14/2017	0.66	No	50
Mercury	06/14/2017	0.01 <MDL	No	1.0
Selenium	06/14/2017	0.04 <MDL	No	50
Uranium	06/14/2017	0.04	No	20
Parsons Road Reservoir				
Antimony	04/10/2018	0.11	No	6.0
Arsenic	04/10/2018	0.3	No	10
Barium	04/10/2018	14.6	No	1000
Boron	04/10/2018	15	No	5000
Cadmium	04/10/2018	0.003<MDL	No	5.0
Chromium	04/10/2018	0.20	No	50
Mercury	04/10/2018	0.01<MDL	No	1.0
Selenium	04/10/2018	.11	No	50
Uranium	04/10/2018	0.171	No	20
Hillcrest Well				
Antimony	04/14/2016	0.02 <MDL	No	6.0
Arsenic	04/14/2016	0.2<MDL	No	10
Barium	04/14/2016	101	No	1000
Boron	04/14/2016	138	No	5000
Cadmium	04/14/2016	0.008	No	5.0
Chromium	04/14/2016	0.25	No	50
Mercury	04/14/2016	0.1<MDL	No	1.0
Selenium	04/14/2016	0.04 <MDL	No	50
Uranium	04/14/2016	0.084	No	20

Notes:

- Results expressed in µg/L
- MDL – Maximum Detection Limit

**Table 3.1 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Organics (Page 1 of 8)**

Parameter	Sample Date (mm/dd/yr)	Result Value	Exceedance	Standard
Well #1				
Alachlor	04/10/2018	0.02<MDL	No	5.0
Atrazine+N-dealkylated metabolites	04/10/2018	0.01<MDL	No	5.0
Azinphos-methyl	04/10/2018	0.02<MDL	No	20.0
Benzene	04/10/2018	0.32<MDL	No	5.0
Benzo(a)pyrene	04/10/2018	0.004<MDL	No	0.01
Bromoxynil	04/10/2018	0.33<MDL	No	5.0
Carbaryl	04/10/2018	0.01<MDL	No	90.0
Carbofuran	04/10/2018	0.01<MDL	No	90.0
Carbon Tetrachloride	04/10/2018	0.16<MDL	No	5.0
Chlorpyrifos	04/10/2018	0.02<MDL	No	90.0
Diazinon	04/10/2018	0.02<MDL	No	20.0
Dicamba	04/10/2018	0.20<MDL	No	120
1,2-Dichlorobenzene	04/10/2018	0.41<MDL	No	200
1,4-Dichlorobenzene	04/10/2018	0.36<MDL	No	5.0
1,2-dichloroethane	04/10/2018	0.35<MDL	No	5.0
1,1-Dichloroethylene (vinylidene chloride)	04/10/2018	0.33<MDL	No	14.0
Dichloromethane	04/10/2018	0.35<MDL	No	50.0
2,4-Dichlorophenol	04/10/2018	0.15<MDL	No	900
2,4-Dichlorophenoxy acetic acid (2,4-D)	04/10/2018	0.19<MDL	No	100
Diclofop-methyl	04/10/2018	0.40<MDL	No	9.0
Dimethoate	04/10/2018	0.03<MDL	No	20.0
Diquat	04/10/2018	1<MDL	No	70.0
Diuron	04/10/2018	0.03<MDL	No	150
Glyphosate	04/10/2018	1<MDL	No	280
Malathion	04/10/2018	0.02<MDL	No	190
Metolachlor	04/10/2018	0.01<MDL	No	50.0
Metribuzin	04/10/2018	0.02<MDL	No	80.0
Monochlorobenzene	04/10/2018	0.3<MDL	No	80.0
Paraquat	04/10/2018	1<MDL	No	10.0
Pentachlorophenol	04/10/2018	0.15<MDL	No	60.0
Phorate	04/10/2018	0.01<MDL	No	2.0
Picloram	04/10/2018	1<MDL	No	190
Polychlorinated Biphenyls (PCB)	04/10/2018	0.04<MDL	No	3.0
Prometryne	04/10/2018	0.03<MDL	No	1.0
Simazine	04/10/2018	0.01<MDL	No	10.0
Terbufos	04/10/2018	0.01<MDL	No	1.0
Tetrachloroethylene (perchloroethylene)	04/10/2018	0.35<MDL	No	30.0
2,3,4,6-Tetrachlorophenol	04/10/2018	0.20<MDL	No	100
Triallate	04/10/2018	0.01<MDL	No	230
Trichloroethylene	04/10/2018	0.44<MDL	No	5.0
2,4,6-Trichlorophenol	04/10/2018	0.25<MDL	No	5.0
Trifluralin	04/10/2018	0.02<MDL	No	45.0
Vinyl Chloride	04/10/2018	0.17<MDL	No	2.0

Notes:

- Results expressed in µg/L
- MDL – Maximum Detection Limit

**Table 3.1 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Organics (Page 2 of 8)**

Parameter	Sample Date (mm/dd/yr)	Result Value	Exceedance	Standard
Well #4				
Alachlor	04/10/2018	0.02<MDL	No	5.0
Atrazine+N-dealkylated metabolites	04/10/2018	0.01<MDL	No	5.0
Azinphos-methyl	04/10/2018	0.02<MDL	No	20.0
Benzene	04/10/2018	0.32<MDL	No	5.0
Benzo(a)pyrene	04/10/2018	0.004<MDL	No	0.01
Bromoxynil	04/10/2018	0.33<MDL	No	5.0
Carbaryl	04/10/2018	0.01<MDL	No	90.0
Carbofuran	04/10/2018	0.01<MDL	No	90.0
Carbon Tetrachloride	04/10/2018	0.16<MDL	No	5.0
Chlorpyrifos	04/10/2018	0.02<MDL	No	90.0
Diazinon	04/10/2018	0.02<MDL	No	20.0
Dicamba	04/10/2018	0.20<MDL	No	120
1,2-Dichlorobenzene	04/10/2018	0.41<MDL	No	200
1,4-Dichlorobenzene	04/10/2018	0.36<MDL	No	5.0
1,2-dichloroethane	04/10/2018	0.35<MDL	No	5.0
1,1-Dichloroethylene (vinylidene chloride)	04/10/2018	0.33<MDL	No	14.0
Dichloromethane	04/10/2018	0.35<MDL	No	50.0
2,4-Dichlorophenol	04/10/2018	0.15<MDL	No	900
2,4-Dichlorophenoxy acetic acid (2,4-D)	04/10/2018	0.19<MDL	No	100
Diclofop-methyl	04/10/2018	0.40<MDL	No	9.0
Dimethoate	04/10/2018	0.03<MDL	No	20.0
Diquat	04/10/2018	1<MDL	No	70.0
Diuron	04/10/2018	0.03<MDL	No	150
Glyphosate	04/10/2018	1<MDL	No	280
Malathion	04/10/2018	0.02<MDL	No	190
Metolachlor	04/10/2018	0.01<MDL	No	50.0
Metribuzin	04/10/2018	0.02<MDL	No	80.0
Monochlorobenzene	04/10/2018	0.3<MDL	No	80.0
Paraquat	04/10/2018	1<MDL	No	10.0
Pentachlorophenol	04/10/2018	0.15<MDL	No	60.0
Phorate	04/10/2018	0.01<MDL	No	2.0
Picloram	04/10/2018	1<MDL	No	190
Polychlorinated Biphenyls (PCB)	04/10/2018	0.04<MDL	No	3.0
Prometryne	04/10/2018	0.03<MDL	No	1.0
Simazine	04/10/2018	0.01<MDL	No	10.0
Terbufos	04/10/2018	0.01<MDL	No	1.0
Tetrachloroethylene (perchloroethylene)	04/10/2018	0.35<MDL	No	30.0
2,3,4,6-Tetrachlorophenol	04/10/2018	0.20<MDL	No	100
Triallate	04/10/2018	0.01<MDL	No	230
Trichloroethylene	04/10/2018	0.44<MDL	No	5.0
2,4,6-Trichlorophenol	04/10/2018	0.25<MDL	No	5.0
Trifluralin	04/10/2018	0.02<MDL	No	45.0
Vinyl Chloride	04/10/2018	0.17<MDL	No	2.0

Notes:

- Results expressed in µg/L
- MDL – Maximum Detection Limit

**Table 3.1 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Organics (Page 3 of 8)**

Parameter	Sample Date (mm/dd/yr)	Result Value	Exceedance	Standard
Well #5				
Alachlor	04/10/2018	0.02<MDL	No	5.0
Atrazine+N-dealkylated metabolites	04/10/2018	0.01<MDL	No	5.0
Azinphos-methyl	04/10/2018	0.02<MDL	No	20.0
Benzene	04/10/2018	0.32<MDL	No	5.0
Benzo(a)pyrene	04/10/2018	0.004<MDL	No	0.01
Bromoxynil	04/10/2018	0.33<MDL	No	5.0
Carbaryl	04/10/2018	0.01<MDL	No	90.0
Carbofuran	04/10/2018	0.01<MDL	No	90.0
Carbon Tetrachloride	04/10/2018	0.16<MDL	No	5.0
Chlorpyrifos	04/10/2018	0.02<MDL	No	90.0
Diazinon	04/10/2018	0.02<MDL	No	20.0
Dicamba	04/10/2018	0.20<MDL	No	120
1,2-Dichlorobenzene	04/10/2018	0.41<MDL	No	200
1,4-Dichlorobenzene	04/10/2018	0.36<MDL	No	5.0
1,2-dichloroethane	04/10/2018	0.35<MDL	No	5.0
1,1-Dichloroethylene (vinylidene chloride)	04/10/2018	0.33<MDL	No	14.0
Dichloromethane	04/10/2018	0.35<MDL	No	50.0
2,4-Dichlorophenol	04/10/2018	0.15<MDL	No	900
2,4-Dichlorophenoxy acetic acid (2,4-D)	04/10/2018	0.19<MDL	No	100
Diclofop-methyl	04/10/2018	0.40<MDL	No	9.0
Dimethoate	04/10/2018	0.03<MDL	No	20.0
Diquat	04/10/2018	1<MDL	No	70.0
Diuron	04/10/2018	0.03<MDL	No	150
Glyphosate	04/10/2018	1<MDL	No	280
Malathion	04/10/2018	0.02<MDL	No	190
Metolachlor	04/10/2018	0.01<MDL	No	50.0
Metribuzin	04/10/2018	0.02<MDL	No	80.0
Monochlorobenzene	04/10/2018	0.3<MDL	No	80.0
Paraquat	04/10/2018	1<MDL	No	10.0
Pentachlorophenol	04/10/2018	0.15<MDL	No	60.0
Phorate	04/10/2018	0.01<MDL	No	2.0
Picloram	04/10/2018	1<MDL	No	190
Polychlorinated Biphenyls (PCB)	04/10/2018	0.04<MDL	No	3.0
Prometryne	04/10/2018	0.03<MDL	No	1.0
Simazine	04/10/2018	0.01<MDL	No	10.0
Terbufos	04/10/2018	0.01<MDL	No	1.0
Tetrachloroethylene (perchloroethylene)	04/10/2018	0.35<MDL	No	30.0
2,3,4,6-Tetrachlorophenol	04/10/2018	0.20<MDL	No	100
Triallate	04/10/2018	0.01<MDL	No	230
Trichloroethylene	04/10/2018	0.44<MDL	No	5.0
2,4,6-Trichlorophenol	04/10/2018	0.25<MDL	No	5.0
Trifluralin	04/10/2018	0.02<MDL	No	45.0
Vinyl Chloride	04/10/2018	0.17<MDL	No	2.0

Notes:

- Results expressed in µg/L
- MDL – Maximum Detection Limit

**Table 3.1 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Organics (Page 4 of 8)**

Parameter	Sample Date (mm/dd/yr)	Result Value	Exceedance	Standard
Well #6				
Alachlor	04/10/2018	0.02<MDL	No	5.0
Atrazine+N-dealkylated metabolites	04/10/2018	0.01<MDL	No	5.0
Azinphos-methyl	04/10/2018	0.02<MDL	No	20.0
Benzene	04/10/2018	0.32<MDL	No	5.0
Benzo(a)pyrene	04/10/2018	0.004<MDL	No	0.01
Bromoxynil	04/10/2018	0.33<MDL	No	5.0
Carbaryl	04/10/2018	0.01<MDL	No	90.0
Carbofuran	04/10/2018	0.01<MDL	No	90.0
Carbon Tetrachloride	04/10/2018	0.16<MDL	No	5.0
Chlorpyrifos	04/10/2018	0.02<MDL	No	90.0
Diazinon	04/10/2018	0.02<MDL	No	20.0
Dicamba	04/10/2018	0.20<MDL	No	120
1,2-Dichlorobenzene	04/10/2018	0.41<MDL	No	200
1,4-Dichlorobenzene	04/10/2018	0.36<MDL	No	5.0
1,2-dichloroethane	04/10/2018	0.35<MDL	No	5.0
1,1-Dichloroethylene (vinylidene chloride)	04/10/2018	0.33<MDL	No	14.0
Dichloromethane	04/10/2018	0.35<MDL	No	50.0
2,4-Dichlorophenol	04/10/2018	0.15<MDL	No	900
2,4-Dichlorophenoxy acetic acid (2,4-D)	04/10/2018	0.19<MDL	No	100
Diclofop-methyl	04/10/2018	0.40<MDL	No	9.0
Dimethoate	04/10/2018	0.03<MDL	No	20.0
Diquat	04/10/2018	1<MDL	No	70.0
Diuron	04/10/2018	0.03<MDL	No	150
Glyphosate	04/10/2018	1<MDL	No	280
Malathion	04/10/2018	0.02<MDL	No	190
Metolachlor	04/10/2018	0.01<MDL	No	50.0
Metribuzin	04/10/2018	0.02<MDL	No	80.0
Monochlorobenzene	04/10/2018	0.3<MDL	No	80.0
Paraquat	04/10/2018	1<MDL	No	10.0
Pentachlorophenol	04/10/2018	0.15<MDL	No	60.0
Phorate	04/10/2018	0.01<MDL	No	2.0
Picloram	04/10/2018	1<MDL	No	190
Polychlorinated Biphenyls (PCB)	04/10/2018	0.04<MDL	No	3.0
Prometryne	04/10/2018	0.03<MDL	No	1.0
Simazine	04/10/2018	0.01<MDL	No	10.0
Terbufos	04/10/2018	0.01<MDL	No	1.0
Tetrachloroethylene (perchloroethylene)	04/10/2018	0.35<MDL	No	30.0
2,3,4,6-Tetrachlorophenol	04/10/2018	0.20<MDL	No	100
Triallate	04/10/2018	0.01<MDL	No	230
Trichloroethylene	04/10/2018	0.44<MDL	No	5.0
2,4,6-Trichlorophenol	04/10/2018	0.25<MDL	No	5.0
Trifluralin	04/10/2018	0.02<MDL	No	45.0
Vinyl Chloride	04/10/2018	0.17<MDL	No	2.0

Notes:

- Results expressed in µg/L
- MDL – Maximum Detection Limit

**Table 3.1 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Organics (Page 5 of 8)**

Parameter	Sample Date (mm/dd/yr)	Result Value	Exceedance	Standard
Well #7				
Alachlor	04/10/2018	0.02<MDL	No	5.0
Atrazine+N-dealkylated metabolites	04/10/2018	0.01<MDL	No	5.0
Azinphos-methyl	04/10/2018	0.02<MDL	No	20.0
Benzene	04/10/2018	0.32<MDL	No	5.0
Benzo(a)pyrene	04/10/2018	0.004<MDL	No	0.01
Bromoxynil	04/10/2018	0.33<MDL	No	5.0
Carbaryl	04/10/2018	0.01<MDL	No	90.0
Carbofuran	04/10/2018	0.01<MDL	No	90.0
Carbon Tetrachloride	04/10/2018	0.16<MDL	No	5.0
Chlorpyrifos	04/10/2018	0.02<MDL	No	90.0
Diazinon	04/10/2018	0.02<MDL	No	20.0
Dicamba	04/10/2018	0.20<MDL	No	120
1,2-Dichlorobenzene	04/10/2018	0.41<MDL	No	200
1,4-Dichlorobenzene	04/10/2018	0.36<MDL	No	5.0
1,2-dichloroethane	04/10/2018	0.35<MDL	No	5.0
1,1-Dichloroethylene (vinylidene chloride)	04/10/2018	0.33<MDL	No	14.0
Dichloromethane	04/10/2018	0.35<MDL	No	50.0
2,4-Dichlorophenol	04/10/2018	0.15<MDL	No	900
2,4-Dichlorophenoxy acetic acid (2,4-D)	04/10/2018	0.19<MDL	No	100
Diclofop-methyl	04/10/2018	0.40<MDL	No	9.0
Dimethoate	04/10/2018	0.03<MDL	No	20.0
Diquat	04/10/2018	1<MDL	No	70.0
Diuron	04/10/2018	0.03<MDL	No	150
Glyphosate	04/10/2018	1<MDL	No	280
Malathion	04/10/2018	0.02<MDL	No	190
Metolachlor	04/10/2018	0.01<MDL	No	50.0
Metribuzin	04/10/2018	0.02<MDL	No	80.0
Monochlorobenzene	04/10/2018	0.3<MDL	No	80.0
Paraquat	04/10/2018	1<MDL	No	10.0
Pentachlorophenol	04/10/2018	0.15<MDL	No	60.0
Phorate	04/10/2018	0.01<MDL	No	2.0
Picloram	04/10/2018	1<MDL	No	190
Polychlorinated Biphenyls (PCB)	04/10/2018	0.04<MDL	No	3.0
Prometryne	04/10/2018	0.03<MDL	No	1.0
Simazine	04/10/2018	0.01<MDL	No	10.0
Terbufos	04/10/2018	0.01<MDL	No	1.0
Tetrachloroethylene (perchloroethylene)	04/10/2018	0.35<MDL	No	30.0
2,3,4,6-Tetrachlorophenol	04/10/2018	0.20<MDL	No	100
Triallate	04/10/2018	0.01<MDL	No	230
Trichloroethylene	04/10/2018	0.44<MDL	No	5.0
2,4,6-Trichlorophenol	04/10/2018	0.25<MDL	No	5.0
Trifluralin	04/10/2018	0.02<MDL	No	45.0
Vinyl Chloride	04/10/2018	0.17<MDL	No	2.0

Notes

- Results expressed in µg/L
- MDL – Maximum Detection Limit

**Table 3.1 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Organics (Page 6 of 8)**

Parameter	Sample Date (mm/dd/yr)	Result Value	Exceedance	Standard
Well #8				
Alachlor	06/14/2017	0.02<MDL	No	5.0
Atrazine+N-dealkylated metabolites	06/14/2017	0.01<MDL	No	5.0
Azinphos-methyl	06/14/2017	0.05<MDL	No	20.0
Benzene	06/14/2017	0.32<MDL	No	1.0
Benzo(a)pyrene	06/14/2017	0.004<MDL	No	0.01
Bromoxynil	06/14/2017	0.33<MDL	No	5.0
Carbaryl	06/14/2017	0.05<MDL	No	90.0
Carbofuran	06/14/2017	0.01<MDL	No	90.0
Carbon Tetrachloride	06/14/2017	0.16<MDL	No	2.0
Chlorpyrifos	06/14/2017	0.02<MDL	No	90.0
Diazinon	06/14/2017	0.02<MDL	No	20.0
Dicamba	06/14/2017	0.20<MDL	No	120
1,2-Dichlorobenzene	06/14/2017	0.41<MDL	No	200
1,4-Dichlorobenzene	06/14/2017	0.36<MDL	No	5.0
1,2-dichloroethane	06/14/2017	0.35<MDL	No	5.0
1,1-Dichloroethylene (vinylidene chloride)	06/14/2017	0.33<MDL	No	14.0
Dichloromethane	06/14/2017	0.35<MDL	No	50.0
2,4-Dichlorophenol	06/14/2017	0.15<MDL	No	900
2,4-Dichlorophenoxy acetic acid (2,4-D)	06/14/2017	0.19<MDL	No	100
Diclofop-methyl	06/14/2017	0.40<MDL	No	9.0
Dimethoate	06/14/2017	0.03<MDL	No	20.0
Diquat	06/14/2017	1<MDL	No	70.0
Diuron	06/14/2017	0.03<MDL	No	150
Glyphosate	06/14/2017	1<MDL	No	280
Malathion	06/14/2017	0.02<MDL	No	190
MCPA	06/14/2017	0.12	No	100
Metolachlor	06/14/2017	0.01<MDL	No	50.0
Metribuzin	06/14/2017	0.02<MDL	No	80.0
Monochlorobenzene	06/14/2017	0.3<MDL	No	80.0
Paraquat	06/14/2017	1<MDL	No	10.0
Pentachlorophenol	06/14/2017	0.15<MDL	No	60.0
Phorate	06/14/2017	0.01<MDL	No	2.0
Picloram	06/14/2017	1<MDL	No	190
Polychlorinated Biphenyls (PCB)	06/14/2017	0.04<MDL	No	3.0
Prometryne	06/14/2017	0.03<MDL	No	1.0
Simazine	06/14/2017	0.01<MDL	No	10.0
Terbufos	06/14/2017	0.01<MDL	No	1.0
Tetrachloroethylene (perchloroethylene)	06/14/2017	0.35<MDL	No	10.0
2,3,4,6-Tetrachlorophenol	06/14/2017	0.20<MDL	No	100
Triallate	06/14/2017	0.01<MDL	No	230
Trichloroethylene	06/14/2017	0.44<MDL	No	5.0
2,4,6-Trichlorophenol	06/14/2017	0.25<MDL	No	5.0
Trifluralin	06/14/2017	0.02<MDL	No	45.0
Vinyl Chloride	06/14/2017	0.17<MDL	No	1.0

Notes:

- Results expressed in µg/L
- MDL – Maximum Detection Limit

**Table 3.1 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Organics (Page 7 of 8)**

Parameter	Sample Date (mm/dd/yr)	Result Value	Exceedance	Standard
Parsons Road Reservoir				
Alachlor	04/10/2018	0.02<MDL	No	5.0
Atrazine+N-dealkylated metabolites	04/10/2018	0.01	No	5.0
Azinphos-methyl	04/10/2018	0.02<MDL	No	20.0
Benzene	04/10/2018	0.32<MDL	No	5.0
Benzo(a)pyrene	04/10/2018	0.004<MDL	No	0.01
Bromoxynil	04/10/2018	0.33<MDL	No	5.0
Carbaryl	04/10/2018	0.01<MDL	No	90.0
Carbofuran	04/10/2018	0.01<MDL	No	90.0
Carbon Tetrachloride	04/10/2018	0.16<MDL	No	5.0
Chlorpyrifos	04/10/2018	0.02<MDL	No	90.0
Diazinon	04/10/2018	0.02<MDL	No	20.0
Dicamba	04/10/2018	0.20<MDL	No	120
1,2-Dichlorobenzene	04/10/2018	0.41<MDL	No	200
1,4-Dichlorobenzene	04/10/2018	0.36<MDL	No	5.0
1,2-dichloroethane	04/10/2018	0.35<MDL	No	5.0
1,1-Dichloroethylene (vinylidene chloride)	04/10/2018	0.33<MDL	No	14.0
Dichloromethane	04/10/2018	0.35<MDL	No	50.0
2,4-Dichlorophenol	04/10/2018	0.15<MDL	No	900
2,4-Dichlorophenoxy acetic acid (2,4-D)	04/10/2018	0.19<MDL	No	100
Diclofop-methyl	04/10/2018	0.40<MDL	No	9.0
Dimethoate	04/10/2018	0.03<MDL	No	20.0
Diquat	04/10/2018	1<MDL	No	70.0
Diuron	04/10/2018	0.03<MDL	No	150
Glyphosate	04/10/2018	1<MDL	No	280
Malathion	04/10/2018	0.02<MDL	No	190
Metolachlor	04/10/2018	0.01<MDL	No	50.0
Metribuzin	04/10/2018	0.02<MDL	No	80.0
Monochlorobenzene	04/10/2018	0.3<MDL	No	80.0
Paraquat	04/10/2018	1<MDL	No	10.0
Pentachlorophenol	04/10/2018	0.15<MDL	No	60.0
Phorate	04/10/2018	0.01<MDL	No	2.0
Picloram	04/10/2018	1<MDL	No	190
Polychlorinated Biphenyls (PCB)	04/10/2018	0.04<MDL	No	3.0
Prometryne	04/10/2018	0.03<MDL	No	1.0
Simazine	04/10/2018	0.01<MDL	No	10.0
Terbufos	04/10/2018	0.01<MDL	No	1.0
Tetrachloroethylene (perchloroethylene)	04/10/2018	0.35<MDL	No	30.0
2,3,4,6-Tetrachlorophenol	04/10/2018	0.20<MDL	No	100
Triallate	04/10/2018	0.01<MDL	No	230
Trichloroethylene	04/10/2018	0.44<MDL	No	5.0
2,4,6-Trichlorophenol	04/10/2018	0.25<MDL	No	5.0
Trifluralin	04/10/2018	0.02<MDL	No	45.0
Vinyl Chloride	04/10/2018	0.17<MDL	No	2.0

Notes:

- Results expressed in µg/L
- MDL – Maximum Detection Limit

**Table 3.1 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Organics (Page 8 of 8)**

Parameter	Sample Date (mm/dd/yr)	Result Value	Exceedance	Standard
Hillcrest Well				
Alachlor	04/14/2016	0.02<MDL	No	5.0
Atrazine+N-dealkylated metabolites	04/14/2016	0.01<MDL	No	5.0
Azinphos-methyl	04/14/2016	0.05<MDL	No	20.0
Benzene	04/14/2016	0.32<MDL	No	5.0
Benzo(a)pyrene	04/14/2016	0.004<MDL	No	0.01
Bromoxynil	04/14/2016	0.33<MDL	No	5.0
Carbaryl	04/14/2016	0.05<MDL	No	90.0
Carbofuran	04/14/2016	0.01<MDL	No	90.0
Carbon Tetrachloride	04/14/2016	0.16<MDL	No	5.0
Chlorpyrifos	04/14/2016	0.02<MDL	No	90.0
Diazinon	04/14/2016	0.02<MDL	No	20.0
Dicamba	04/14/2016	0.20<MDL	No	120
1,2-Dichlorobenzene	04/14/2016	0.41<MDL	No	200
1,4-Dichlorobenzene	04/14/2016	0.36<MDL	No	5.0
1,2-dichloroethane	04/14/2016	0.35<MDL	No	5.0
1,1-Dichloroethylene (vinylidene chloride)	04/14/2016	0.33<MDL	No	14.0
Dichloromethane	04/14/2016	0.35<MDL	No	50.0
2,4-Dichlorophenol	04/14/2016	0.15<MDL	No	900
2,4-Dichlorophenoxy acetic acid (2,4-D)	04/14/2016	0.19<MDL	No	100
Diclofop-methyl	04/14/2016	0.40<MDL	No	9.0
Dimethoate	04/14/2016	0.03<MDL	No	20.0
Diquat	04/14/2016	1<MDL	No	70.0
Diuron	04/14/2016	0.03<MDL	No	150
Glyphosate	04/14/2016	1<MDL	No	280
Malathion	04/14/2016	0.02<MDL	No	190
MCPA	04/14/2016	0.12<MDL	No	100
Metolachlor	04/14/2016	0.01<MDL	No	50.0
Metribuzin	04/14/2016	0.02<MDL	No	80.0
Monochlorobenzene	04/14/2016	0.3<MDL	No	80.0
Paraquat	04/14/2016	1<MDL	No	10.0
Pentachlorophenol	04/14/2016	0.15<MDL	No	60.0
Phorate	04/14/2016	0.01<MDL	No	2.0
Picloram	04/14/2016	1<MDL	No	190
Polychlorinated Biphenyls (PCB)	04/14/2016	0.04<MDL	No	3.0
Prometryne	04/14/2016	0.03<MDL	No	1.0
Simazine	04/14/2016	0.01<MDL	No	10.0
Terbufos	04/14/2016	0.01<MDL	No	1.0
Tetrachloroethylene (perchloroethylene)	04/14/2016	0.35<MDL	No	30.0
2,3,4,6-Tetrachlorophenol	04/14/2016	0.20<MDL	No	100
Triallate	04/14/2016	0.01<MDL	No	230
Trichloroethylene	04/14/2016	0.44<MDL	No	5.0
2,4,6-Trichlorophenol	04/14/2016	0.25<MDL	No	5.0
Trifluralin	04/14/2016	0.02<MDL	No	45.0
Vinyl Chloride	04/14/2016	0.17<MDL	No	2.0

Notes:

- Results expressed in µg/L
- MDL – Maximum Detection Limit

**Table 3.2 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Trihalomethanes**

Date	THM Results	THM Running Annual Average	Exceedance	Standard
Distribution – Dugdale Avenue Sampling Station				
January 16, 2018	33.0	40.5	No	100
April 10, 2018	28.0			
July 17, 2018	51.0			
October 09, 2018	50.0			

Notes:

- Results expressed in µg/L

**Table 3.3 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Nitrite and Nitrate (Page 1 of 2)**

Parameter	Sample Date (mm/dd/yr)	Result Value	Exceedance	Standard
Well #1				
Nitrite	01/16/2018	0.003 <MDL	No	1.0
	04/10/2018	0.003 <MDL		
	07/17/2018	0.003 <MDL		
	10/09/2018	0.003 <MDL		
Nitrate	01/16/2018	0.017	No	10.0
	04/10/2018	0.014		
	07/17/2018	0.015		
	10/09/2018	0.016		
Well #4				
Nitrite	01/16/2018	0.003 <MDL	No	1.0
	04/10/2018	0.003 <MDL		
	07/17/2018	0.003 <MDL		
	10/09/2018	0.003 <MDL		
Nitrate	01/16/2018	0.012	No	10.0
	04/10/2018	0.007		
	07/17/2018	0.010		
	10/09/2018	0.008		
Well #5				
Nitrite	01/16/2018	0.003 <MDL	No	1.0
	04/10/2018	0.003 <MDL		
	07/17/2018	0.003 <MDL		
	10/09/2018	0.003 <MDL		
Nitrate	01/16/2018	0.008	No	10.0
	04/10/2018	0.006		
	07/17/2018	0.010		
	10/09/2018	0.009		
Well #6				
Nitrite	01/16/2018	0.003 <MDL	No	1.0
	04/10/2018	0.003 <MDL		
	07/17/2018	0.003 <MDL		
	10/09/2018	0.003 <MDL		
Nitrate	01/16/2018	0.007	No	10.0
	04/10/2018	0.007		
	07/17/2018	0.008		
	10/09/2018	0.007		

**Table 3.3 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Nitrite and Nitrate (Page 2 of 2)**

Parameter	Sample Date (mm/dd/yr)	Result Value	Exceedance	Standard
Well #7				
Nitrite	01/16/2018	0.003 <MDL	No	1.0
	04/10/2018	0.003 <MDL		
	07/17/2018	0.003 <MDL		
	10/09/2018	0.003 <MDL		
Nitrate	01/16/2018	0.008	No	10.0
	04/10/2018	0.006<MDL		
	07/17/2018	0.008		
	10/09/2018	0.006<MDL		
Well #8				
Nitrite	01/16/2018	0.003 <MDL	No	1.0
	04/10/2018	0.003 <MDL		
	07/17/2018	0.003 <MDL		
	10/09/2018	0.003 <MDL		
Nitrate	01/16/2018	0.011	No	10.0
	04/10/2018	0.008		
	07/17/2018	0.013		
	10/09/2018	0.031		
Parsons Road Reservoir				
Nitrite	01/16/2018	0.003 <MDL	No	1.0
	04/10/2018	0.003 <MDL		
	07/17/2018	0.003 <MDL		
	10/09/2018	0.003 <MDL		
Nitrate	01/16/2018	0.262	No	10.0
	04/10/2018	0.277		
	07/17/2018	0.209		
	10/09/2018	0.255		
Hillcrest Well				
Nitrite	01/17/2018	0.003<MDL	No	1.0
	04/18/2018	0.003<MDL		
	07/18/2018	0.003<MDL		
	10/11/2018	0.003 <MDL		
Nitrate	01/17/2018	0.006<MDL	No	10.0
	04/18/2018	0.014		
	07/18/2018	0.009		
	10/11/2018	0.009		

Notes:

- Results expressed in mg/L

**Table 3.4 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Sodium and Fluoride**

Parameter	Sample Date (mm/dd/yr)	Result Value	Exceedance	Standard
Well #1				
Sodium	12/11/2017	32.8	Yes	200*
Fluoride	12/11/2017	0.19	No	1.5
Well #4				
Sodium	12/11/2017	34.5	Yes	200*
Fluoride	12/11/2017	0.16	No	1.5
Well #5				
Sodium	12/11/2017	28.9	No	200*
Fluoride	12/11/2017	0.18	No	1.5
Well #6				
Sodium	12/11/2017	24.8	Yes	200*
Fluoride	12/11/2017	0.16	No	1.5
Well #7				
Sodium	12/11/2017	8.99	No	200*
Fluoride	12/11/2017	0.10	No	1.5
Well #8				
Sodium	12/11/2017	26.8	Yes	200*
Fluoride	12/11/2017	0.21	No	1.5
Parsons Road Reservoir				
Sodium	12/11/2017	4.95	No	200*
Fluoride	12/11/2017	0.07	No	1.5
Hillcrest Well				
Sodium	10/12/2016	26.3	No	200*
Fluoride	10/12/2016	0.24	No	1.5

Notes:

- Results expressed in mg/L

* 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.

**Table 4 – Schedule 15.1 Lead
Summary of Lead Samples**

Parameter	Sample Date (mm/dd/yr)	Number of Samples	Range of Results (min/max)	Exceedance	Standard
Lead (Distribution System)	04/13/2017 10/30/2017	8	0.01 – 0.19 µg/l	No	10 µg/l
Alkalinity (Distribution System)	03/12/2018 10/09/2018	8	76 – 83 mg/l	N/A	30 – 500*

Notes:

*Aesthetic Objective under the Ontario Drinking Water Standards, Objectives, and Guidelines

**Table 5 – Details of Adverse Water Quality Incidents (AWQIs) and Corrective Actions
(Schedule 16 & 17)**

AWQI #	Incident Date (mm/dd/yr)	Location	Parameter	Result	Unit of Measure	Corrective Action Taken	Corrective Action Date (mm/dd/yr)
138803	02/26/2018	Well #1	Low Chlorine	0.00	mg/l	Leak at Chlorine Pump. Repaired leak. Flushed the well main until chlorine residual was restored to 1.63 mg/l.	02/26/2018
138858	03/07/2018	Well #7	Low Chlorine	0.00	mg/l	Chlorine Analyzer not functioning. Fixed Analyzer and re-calibrated.	03/07/2018
139010	03/30/2018	Distribution System	Class II Main Break			Main Break between McKelvey Reservoir and Beeton. Ran temporary line around the break.	03/30/2018
139121	04/17/2018	Well #1	Low Chlorine	0.00	mg/l	Chlorine Analyzer lost flow. Actual chlorine residual was 0.91 mg/l. Restored flow to Analyzer and calibrated.	04/17/2018