

## Ontario Drinking-Water Systems Regulation O. Reg. 170-03 (s)11

### New Lowell 2017 Annual Report

Drinking-Water System Number: 220003706  
Drinking-Water System Name: New Lowell Drinking Water System  
Drinking-Water System Owner: The Corporation of the Township of Clearview  
Drinking-Water System Category: Large Municipal Residential  
Period being reported: January – December 2017

This Drinking-Water System does not serve more than 10,000 people.

This annual report is available to the public at no charge on the Clearview website at [www.clearview.ca](http://www.clearview.ca)

The Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection at the Clearview Municipal Office 217 Gideon Street, Stayner and at the Clearview public works building at 5833 27/28 Side Road, Stayner.

No other Drinking Water Systems receive their drinking water from this system.

This annual report is available free of charge on our web-site, and at the locations listed above. Notice of the report availability is provided on the Clearview web-site and on digital signboards throughout Clearview. Report availability is also advertised in the local newspaper.

Description of the system:

The water source for this system is three groundwater source wells and the Collingwood-New Tecumseth pipe-line. Disinfection is provided with sodium hypochlorite. Water storage is in a four-cell concrete reservoir with a total capacity of 1,440 m<sup>3</sup>. There are approximately 331 active service connections. There are 59 hydrants throughout the system for fire protection.

Chemicals used for treatment include 12% Sodium Hypochlorite.

Significant expenses incurred to install, repair, or replace equipment: None

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.

Sample Type	Number of Samples	Range of E.Coli Or Fecal Results (min #)-(max #) CFU/100 mL	Range of Total Coliform Results (min #)-(max #) CFU/100 mL	Number of HPC Samples	Range of HPC Results (min #)-(max #) CFU/100 mL
Raw – Well # 1	52	0 – 0	0 – 5	0	NA
Raw – Well # 2	52	0 – 0	0 – 5	0	NA
Raw – Well # 6	17	0 - overgrown	0 - overgrown	0	NA
Treated	52	0 – 0	0 – 0	52	<10 - >2000
Distribution	156	0 - 0	0 - 0	40	<10 – 600

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

Parameter	Number of Grab Samples	Range of Results (min #)-(max #)	Unit of Measure
System Chlorine	416	0.19 – 1.17	mg/L
Chlorine	8760	0.33 – 1.20	mg/L
Turbidity			
Raw – Well # 1	12	0.84 – 2.00	NTU
Raw – Well # 2	12	0.67 – 2.26	NTU
Raw – Well # 6	2	0.93 – 0.99	NTU

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

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
Plumbing	0	NA	mg/L	NA
Distribution	0	NA	mg/L	NA

Samples required under Schedule 13

Parameter	Last Date Sampled	Result	Unit of Measure
THM's (annual running average)	10/17/2017	0.0405	mg/L
HAA's (annual running average)	10/17/2017	0.0198	mg/L
Nitrate	10/17/2017	0.3	mg/L
Nitrite	10/17/2017	<0.1	mg/L
Sodium	10/09/2014	6.0	mg/L
Fluoride	07/18/2017	<0.1	mg/L

The most recent sample results of Inorganic parameters tested during this reporting period

– Appendix – A

The most recent sample results of Organic parameters sampled during this reporting period. – Appendix – B

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards. N/A

**APPENDIX A**  
**INORGANIC PARAMETERS**  
**(SCHEDULE 23)**

**C.O.C.: DWCV161206C**

**REPORT No. B16-36452**

**Report To:**

**Clearview, Township of**  
 217 Gideon Street, Box 200  
 Stayner Ontario L0M 1S0 Canada

**Attention:** Todd Patton

**Caduceon Environmental Laboratories**

110 West Beaver Creek Rd Unit 14  
 Richmond Hill ON L4B 1J9  
 Tel: 289-475-5442  
 Fax: 289-562-1963

DATE RECEIVED: 06-Dec-16

JOB/PROJECT NO.: New Lowell

DATE REPORTED: 09-Dec-16

P.O. NUMBER: Sch.23

SAMPLE MATRIX: Drinking Water

WATERWORKS NO. 220003706

<b>Client I.D.</b>	NL Treated			
<b>Sample I.D.</b>	B16-36452-1			
<b>Date Collected</b>	06-Dec-16			

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Antimony	mg/L	0.0001	EPA 200.8	08-Dec-16/O	< 0.0001		
Arsenic	mg/L	0.0001	EPA 200.8	08-Dec-16/O	0.0005		
Barium	mg/L	0.001	SM 3120	08-Dec-16/O	0.014		
Boron	mg/L	0.005	SM 3120	08-Dec-16/O	0.009		
Cadmium	mg/L	0.00002	EPA 200.8	08-Dec-16/O	< 0.00002		
Chromium	mg/L	0.002	SM 3120	08-Dec-16/O	< 0.002		
Mercury	mg/L	0.00002	SM 3112 B	09-Dec-16/O	< 0.00002		
Selenium	mg/L	0.001	EPA 200.8	08-Dec-16/O	< 0.001		
Uranium	mg/L	0.00005	EPA 200.8	08-Dec-16/O	0.00020		
Free Chlorine	mg/L		n/a	06-Dec-16/R	0.72		

1 Free Chlorine results provided by client.



Christine Burke  
 Lab Manager

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an \*

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

**APPENDIX B**  
**ORGANIC PARAMETERS**  
**(SCHEDULE 24)**

C.O.C.: DW 03050

REPORT No. B15-03050

**Report To:**

**Clearview, Township of**  
 217 Gideon Street, Box 200  
 Stayner Ontario L0M 1S0 Canada

**Attention:** Todd Patton

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 12-Feb-15

JOB/PROJECT NO.: New Lowell

DATE REPORTED: 23-Feb-15

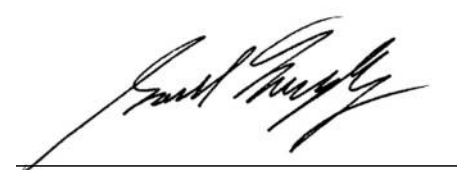
P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO. 220003706

<b>Client I.D.</b>	Treated Entering			
<b>Sample I.D.</b>	B15-03050-1			
<b>Date Collected</b>	11-Feb-15			

Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Benzene	µg/L	0.5	EPA 8260	17-Feb-15/O	< 0.5			
Carbon Tetrachloride	µg/L	0.2	EPA 8260	17-Feb-15/O	< 0.2			
Dichlorobenzene, 1,2-	µg/L	0.1	EPA 8260	17-Feb-15/O	< 0.1			
Dichlorobenzene, 1,4-	µg/L	0.2	EPA 8260	17-Feb-15/O	< 0.2			
Dichloroethane, 1,2-	µg/L	0.1	EPA 8260	17-Feb-15/O	< 0.1			
Dichloroethene, 1,1-	µg/L	0.1	EPA 8260	17-Feb-15/O	< 0.1			
Dichloromethane (Methylene Chloride)	µg/L	0.3	EPA 8260	17-Feb-15/O	< 0.3			
Monochlorobenzene (Chlorobenzene)	µg/L	0.2	EPA 8260	17-Feb-15/O	< 0.2			
Tetrachloroethylene	µg/L	0.2	EPA 8260	17-Feb-15/O	< 0.2			
Trichloroethylene	µg/L	0.1	EPA 8260	17-Feb-15/O	< 0.1			
Vinyl Chloride	µg/L	0.2	EPA 8260	17-Feb-15/O	< 0.2			
Alachlor	µg/L	0.3	EPA 8270	19-Feb-15/K	< 0.3			
Aldicarb	µg/L	3	EPA 8270	19-Feb-15/K	< 3			
Aldrin + Dieldrin	µg/L	0.02	EPA 8080	17-Feb-15/K	< 0.02			
Atrazine + Metabolites	µg/L	0.5	Calc.	19-Feb-15/K	< 0.5			
Azinphos-methyl	µg/L	1	EPA 8270	19-Feb-15/K	< 1			
Bendiocarb	µg/L	3	EPA 8270	19-Feb-15/K	< 3			
Benzo(a)pyrene	µg/L	0.005	EPA 8270	19-Feb-15/K	< 0.005			
Bromoxynil	µg/L	0.3	EPA 8270	19-Feb-15/K	< 0.3			
Carbaryl	µg/L	3	EPA 8270	19-Feb-15/K	< 3			
Carbofuran	µg/L	1	EPA 8270	19-Feb-15/K	< 1			
Chlordane (Total)	µg/L	0.04	EPA 8080	17-Feb-15/K	< 0.04			
Chlorpyrifos	µg/L	0.5	EPA 8270	19-Feb-15/K	< 0.5			
Cyanazine	µg/L	0.5	EPA 8270	19-Feb-15/K	< 0.5			
DDT + Metabolites	µg/L	0.01	EPA 8080	17-Feb-15/K	< 0.01			



Gord Murphy  
 Lab Supervisor

M.D.L. = Method Detection Limit  
 Site Analyzed=K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill

C.O.C.: DW 03050

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2378 Holly Lane  
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 Tel: 613-526-0123  
 Fax: 613-526-1244

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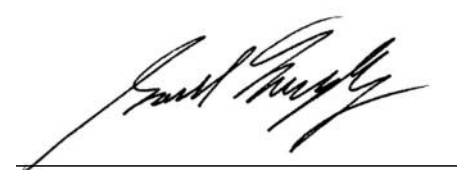
P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO. 220003706

<b>Client I.D.</b>	Treated Entering			
<b>Sample I.D.</b>	B15-03050-1			
<b>Date Collected</b>	11-Feb-15			

Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Diazinon	µg/L	1	EPA 8270	19-Feb-15/K	< 1			
Dicamba	µg/L	5	EPA 8270	19-Feb-15/K	< 5			
Dichlorophenol, 2,4-	µg/L	0.1	EPA 8270	19-Feb-15/K	< 0.1			
Dichlorophenoxy acetic acid, 2,4- (2,4-D)	µg/L	5	EPA 8270	19-Feb-15/K	< 5			
Diclofop-methyl	µg/L	0.5	EPA 8270	19-Feb-15/K	< 0.5			
Dimethoate	µg/L	1	EPA 8270	19-Feb-15/K	< 1			
Dinoseb	µg/L	0.5	EPA 8270	19-Feb-15/K	< 0.5			
Diquat	µg/L	5	EPA 549.1	18-Feb-15/K	< 5			
Diuron	µg/L	5	EPA 8270	19-Feb-15/K	< 5			
Glyphosate	µg/L	25	EPA 547	18-Feb-15/K	< 25			
Heptachlor + Heptachlor Epoxide	µg/L	0.1	EPA 8080	17-Feb-15/K	< 0.1			
Lindane (Hexachlorocyclohexane, Gamma)	µg/L	0.1	EPA 8080	17-Feb-15/K	< 0.1			
Malathion	µg/L	5	EPA 8270	19-Feb-15/K	< 5			
Methoxychlor	µg/L	0.1	EPA 8080	17-Feb-15/K	< 0.1			
Metolachlor	µg/L	3	EPA 8270	19-Feb-15/K	< 3			
Metribuzin	µg/L	3	EPA 8270	19-Feb-15/K	< 3			
Paraquat	µg/L	1	EPA 549.1	18-Feb-15/K	< 1			
Parathion	µg/L	3	EPA 8270	19-Feb-15/K	< 3			
Pentachlorophenol	µg/L	0.1	EPA 8270	19-Feb-15/K	< 0.1			
Phorate	µg/L	0.3	EPA 8270	19-Feb-15/K	< 0.3			
Picloram	µg/L	5	EPA 8270	19-Feb-15/K	< 5			
Poly-Chlorinated Biphenyls (PCB's)	µg/L	0.05	EPA 8080	17-Feb-15/K	< 0.05			
Prometryne	µg/L	0.1	EPA 8270	19-Feb-15/K	< 0.1			



Gord Murphy  
 Lab Supervisor

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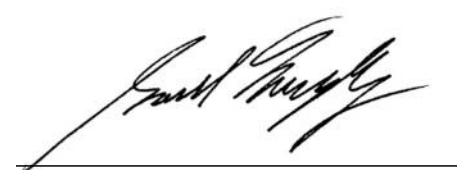
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WATERWORKS NO. 220003706

<b>Client I.D.</b>	Treated Entering			
<b>Sample I.D.</b>	B15-03050-1			
<b>Date Collected</b>	11-Feb-15			

Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Simazine	µg/L	0.5	EPA 8270	19-Feb-15/K	< 0.5			
Temephos	µg/L	10	EPA 8270	19-Feb-15/K	< 10			
Terbufos	µg/L	0.3	EPA 8270	19-Feb-15/K	< 0.3			
Tetrachlorophenol, 2,3,4,6-	µg/L	0.1	EPA 8270	19-Feb-15/K	< 0.1			
Triallate	µg/L	10	EPA 8270	19-Feb-15/K	< 10			
Trichlorophenol 2,4,6-	µg/L	0.1	EPA 8270	19-Feb-15/K	< 0.1			
Trichlorophenoxy acetic acid, 2,4,5-	µg/L	10	EPA 8270	19-Feb-15/K	< 10			
Trifluralin	µg/L	0.5	EPA 8270	19-Feb-15/K	< 0.5			



Gord Murphy  
 Lab Supervisor

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