

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

### **New Lowell 2020 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 2020

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 County Road 96, Stayner.

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

This annual report is available free of charge on our website, and at the locations listed above. Notice of the report availability is provided on the Clearview website 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 pipeline. Disinfection is provided with sodium hypochlorite. Water storage is in a four-cell concrete reservoir with a total capacity of 1,770 m<sup>3</sup>. There are approximately 330 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:

- Jockey pump replacement and VFD installation - \$9,400
- New Tec. line chlorine analyzer replacement - \$7,000
- Raw water flow meter replacement - \$10,000
- Communications equipment replacement - \$7,900

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
NA	NA	NA	NA	NA	NA

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 - 8	0	NA
Raw - Well # 2	52	0 - 0	0 - 16	0	NA
Raw - Well # 6	0	NA	NA	0	NA
Treated	52	0 - 0	0 - 0	52	<10 - 80
Distribution	156	0 - 0	0 - 0	45	<10 - 20

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	420	0.30 - 1.41	mg/L
Chlorine	8760	0.58 - 1.52	mg/L
Turbidity			
Raw - Well # 1	12	0.65 - 1.79	NTU
Raw - Well # 2	12	0.31 - 1.93	NTU
Raw - Well # 6	0	NA	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)	10/21/2020	0.0498	mg/L
HAA's (annual running average)	10/21/2020	0.0257	mg/L
Nitrate	10/21/2020	0.2	mg/L
Nitrite	10/21/2020	<0.1	mg/L
Sodium	09/24/2019	5.6	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.: DWC191203S23A

REPORT No. B19-39036

**Report To:**

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

**Attention:** Todd Patton

**Caduceon Environmental Laboratories**

112 Commerce Park Drive  
 Barrie ON L4N 8W8  
 Tel: 705-252-5743  
 Fax: 705-252-5746

DATE RECEIVED: 03-Dec-19  
 DATE REPORTED: 09-Dec-19  
 SAMPLE MATRIX: Drinking Water

JOB/PROJECT NO.: New Lowell  
 P.O. NUMBER: NL Schedule 23  
 WATERWORKS NO. 220003706

<b>Client I.D.:</b>	NL Tested		<b>ODWS</b>	
<b>Sample I.D.:</b>	B19-39036-1		<b>Objective</b>	<b>Type of Objective</b>
<b>Date Collected:</b>	03-Dec-19			

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Antimony	mg/L	0.0001	EPA 200.8	06-Dec-19/O	< 0.0001		0.006,0.006	IMAC,MAC
Arsenic	mg/L	0.0001	EPA 200.8	06-Dec-19/O	0.0003		0.025,0.01	IMAC,MAC
Barium	mg/L	0.001	SM 3120	05-Dec-19/O	0.013		1	MAC
Boron	mg/L	0.005	SM 3120	05-Dec-19/O	0.016		5,5	IMAC,MAC
Cadmium	mg/L	0.000015	EPA 200.8	06-Dec-19/O	< 0.000015		0.005	MAC
Chromium	mg/L	0.002	SM 3120	05-Dec-19/O	< 0.002		0.05	MAC
Mercury	mg/L	0.00002	SM 3112 B	06-Dec-19/O	< 0.00002		0.001	MAC
Selenium	mg/L	0.001	EPA 200.8	06-Dec-19/O	< 0.001		0.05	MAC
Uranium	mg/L	0.00005	EPA 200.8	06-Dec-19/O	0.00015		0.02	MAC
Free Chlorine	mg/L		n/a	03-Dec-19/B	0.89			

1 Free chlorine results provided by client.

ODWS - Ontario Drinking Water Standards  
 AO - Aesthetic Objectives  
 IMAC - Interim Maximum Acceptable Concentration  
 MAC - Maximum Acceptable Concentration  
 OG - Operational Guidelines

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,B-Barrie



Christine Burke  
 Lab Manager

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.: DWC180213V

REPORT No. B18-03853

**Report To:**

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

**Attention:** Todd Patton

**Caduceon Environmental Laboratories**

112 Commerce Park Drive  
 Barrie ON L4N 8W8  
 Tel: 705-252-5743  
 Fax: 705-252-5746

DATE RECEIVED: 13-Feb-18

JOB/PROJECT NO.: New Lowell

DATE REPORTED: 05-Mar-18

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO. 220003706

<b>Client I.D.:</b>	NL Treated	<b>ODWS</b>	
<b>Sample I.D.:</b>	B18-03853-1		
<b>Date Collected:</b>	12-Feb-18		
		<b>Objective</b>	<b>Type of Objective</b>

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Benzene	µg/L	0.5	EPA 8260	14-Feb-18/O	< 0.5		1	MAC
Carbon Tetrachloride	µg/L	0.2	EPA 8260	14-Feb-18/O	< 0.2		2	MAC
Dichlorobenzene, 1,2-	µg/L	0.1	EPA 8260	14-Feb-18/O	< 0.1		3,200	AO,MAC
Dichlorobenzene, 1,4-	µg/L	0.2	EPA 8260	14-Feb-18/O	< 0.2		1,5	AO,MAC
Dichloroethane, 1,2-	µg/L	0.1	EPA 8260	14-Feb-18/O	< 0.1		5	IMAC
Dichloroethene, 1,1-	µg/L	0.1	EPA 8260	14-Feb-18/O	< 0.1		14	MAC
Dichloromethane (Methylene Chloride)	µg/L	0.3	EPA 8260	14-Feb-18/O	< 0.3		50	MAC
Monochlorobenzene (Chlorobenzene)	µg/L	0.2	EPA 8260	14-Feb-18/O	< 0.2		80	MAC
Tetrachloroethylene	µg/L	0.2	EPA 8260	14-Feb-18/O	< 0.2		10	MAC
Trichloroethylene	µg/L	0.1	EPA 8260	14-Feb-18/O	< 0.1		5	MAC
Vinyl Chloride	µg/L	0.2	EPA 8260	14-Feb-18/O	< 0.2		1	MAC
Alachlor	µg/L	0.3	EPA 8270	02-Mar-18/K	< 0.3		5	IMAC
Atrazine + Metabolites	µg/L	0.5	Calc.	02-Mar-18/K	< 0.5		5	IMAC
Azinphos-methyl	µg/L	1	EPA 8270	02-Mar-18/K	< 1		20	MAC
Benzo(a)pyrene	µg/L	0.005	EPA 8270	02-Mar-18/K	< 0.005		0.01	MAC
Bromoxynil	µg/L	0.3	EPA 8270	02-Mar-18/K	< 0.3		5	IMAC
Carbaryl	µg/L	3	EPA 8270	02-Mar-18/K	< 3		90	MAC
Carbofuran	µg/L	1	EPA 8270	02-Mar-18/K	< 1		90	MAC
Chlorpyrifos	µg/L	0.5	EPA 8270	02-Mar-18/K	< 0.5		90	MAC
Diazinon	µg/L	1	EPA 8270	02-Mar-18/K	< 1		20	MAC
Dicamba	µg/L	5	EPA 8270	02-Mar-18/K	< 5		120	MAC
Dichlorophenol, 2,4-	µg/L	0.1	EPA 8270	02-Mar-18/K	< 0.1		0.3,900	AO,MAC

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



Christine Burke  
 Lab Manager

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C.O.C.: DW180213V

REPORT No. B18-03853

**Report To:**

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 217 Gideon Street, Box 200  
 Stayner Ontario L0M 1S0 Canada

**Attention:** Todd Patton

**Caduceon Environmental Laboratories**

112 Commerce Park Drive  
 Barrie ON L4N 8W8  
 Tel: 705-252-5743  
 Fax: 705-252-5746

DATE RECEIVED: 13-Feb-18

JOB/PROJECT NO.: New Lowell

DATE REPORTED: 05-Mar-18

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO. 220003706

<b>Client I.D.:</b>	NL Treated	<b>ODWS</b>	
<b>Sample I.D.:</b>	B18-03853-1	<b>Objective</b>	<b>Type of Objective</b>
<b>Date Collected:</b>	12-Feb-18		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Dichlorophenoxy acetic acid, 2,4- (2,4-D)	µg/L	5	EPA 8270	02-Mar-18/K	< 5		100	IMAC
Diclofop-methyl	µg/L	0.5	EPA 8270	02-Mar-18/K	< 0.5		9	MAC
Dimethoate	µg/L	1	EPA 8270	02-Mar-18/K	< 1		20	IMAC
Diquat	µg/L	5	EPA 549.1	22-Feb-18/K	< 5		70	MAC
Diuron	µg/L	5	EPA 8270	02-Mar-18/K	< 5		150	MAC
Glyphosate	µg/L	25	EPA 547	22-Feb-18/K	< 25		280	IMAC
Malathion	µg/L	5	EPA 8270	02-Mar-18/K	< 5		190	MAC
Metolachlor	µg/L	3	EPA 8270	02-Mar-18/K	< 3		50	IMAC
Metribuzin	µg/L	3	EPA 8270	02-Mar-18/K	< 3		80	MAC
Paraquat	µg/L	1	EPA 549.1	22-Feb-18/K	< 1		10	IMAC
Pentachlorophenol	µg/L	0.1	EPA 8270	02-Mar-18/K	< 0.1		30,60	AO,MAC
Phorate	µg/L	0.3	EPA 8270	02-Mar-18/K	< 0.3		2	IMAC
Picloram	µg/L	5	EPA 8270	02-Mar-18/K	< 5		190	IMAC
Poly-Chlorinated Biphenyls (PCB's)	µg/L	0.05	EPA 8082	20-Feb-18/K	< 0.05		3	IMAC
Prometryne	µg/L	0.1	EPA 8270	02-Mar-18/K	< 0.1		1	IMAC
Simazine	µg/L	0.5	EPA 8270	02-Mar-18/K	< 0.5		10	IMAC
Terbufos	µg/L	0.3	EPA 8270	02-Mar-18/K	< 0.3		1	IMAC
Tetrachlorophenol, 2,3,4,6-	µg/L	0.1	EPA 8270	02-Mar-18/K	< 0.1		1,100	AO,MAC
Triallate	µg/L	10	EPA 8270	02-Mar-18/K	< 10		230	MAC
Trichlorophenol 2,4,6-	µg/L	0.1	EPA 8270	02-Mar-18/K	< 0.1		2,5	AO,MAC
Trifluralin	µg/L	0.5	EPA 8270	02-Mar-18/K	< 0.5		45	IMAC
MCPA	µg/L	10	EPA 8151A	01-Mar-18/K	< 10		0.1	MAC
Free Chlorine	mg/L		n/a	13-Feb-18/B	0.72			

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WATERWORKS NO. 220003706

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<b>Sample I.D.:</b>	B18-03853-1		<b>Objective</b>	<b>Type of Objective</b>
<b>Date Collected:</b>	12-Feb-18			

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed
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1 Free chlorine results provided by client.

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 Lab Manager