

## 2025 ANNUAL REPORT FOR WATER SYSTEMS

### Part 1 – ANNUAL REPORT (as required by O. Reg. 170/03, Section 11)

Drinking-Water System Number:	210000666
Drinking-Water System Name:	Chalk River Drinking Water System
Drinking-Water System Owner:	Town of Laurentian Hills
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1 – December 31, 2025

Complete if your Category is Large Municipal Residential or Small Municipal Residential	Complete for all other Categories
Does your Drinking-Water System serve more than 10,000 people? <input checked="" type="checkbox"/> No	Number of Designated Facilities served: n/a
Is your annual report available to the public at no charge on a web site on the Internet? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Did you provide a copy of your annual report to all Designated Facilities you serve? <input type="checkbox"/> Yes <input type="checkbox"/> No
Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection. MUNICIPAL OFFICE Town Office – Pt. Alexander #34465 Hwy 17	Number of Designated Facilities served: n/a Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? <input type="checkbox"/> Yes <input type="checkbox"/> No

#### 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
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

#### Indicate how you notified system users that your annual report is available, and is free of charge.

<input checked="" type="checkbox"/> Public access/notice via the web	<input type="checkbox"/> Public access/notice via Municipal Office	<input type="checkbox"/> Public access/notice via a newspaper
<input checked="" type="checkbox"/> Public access/notice via Public Request	<input type="checkbox"/> Public access/notice via a Public Library	<input type="checkbox"/> Public access/notice via other method

#### Describe your Drinking Water System

The source of the Chalk River Drinking Water system is Corry Lake. Raw water is screened from the lake before being pumped to the water plant for treatment. The water treatment process includes chemically-assisted coagulation, flocculation and settling within a solids contact clarifier followed by filtration through sand and anthracite filters. Filtered water is then disinfected using sodium hypochlorite. Fluoride is

then added to the treated water. Water is pumped into the elevated water storage tower for disinfection contact time and then flows out to the distribution system.

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

pH adjustment – Soda Ash  
 Primary Coagulant – PAX-XL  
 Coagulant aid – Polymer  
 Disinfection – Sodium Hypochlorite  
 Fluoridation – Hydroflousilicic acid

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

New stainless steel filter with new media  
 Solenoid valves were purchased and installed for the new filter  
 New pH/chlorine online analyser and probes were installed in WTP

**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	Corrective Action	Corrective Action Date
03/21/25	Total Coliform	1 TC	Samples were collected at Point of Entry, and Downstream. No upstream sample location is available since the adverse result was at Point of Entry. Veolia received notification of Adverse from Spills Action Center. Samples came back clean.	03/24/25
10/06/2025 (Report Date)	THM RAA	105.01 ug/L	Monitor	NA
12/09/25 (Report Date)	THM RAA	110.42 ug/L	Monitor	NA
01/08/26 (Report Date)	HAA RAA	88.3 ug/L	Monitor	NA

**Microbiological testing done under the Schedule 10, 11 or 12 of Régulation 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	53	0-8	2-300	NA	NA
Treated	53	0-0	0-1	53	2-2
Distribution	159	0-0	0-0	53	2-2

**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 #)	Units
Filter Effluent Turbidity-Filter #1	354	0.00-2.00	NTU

Unit come online April '25 (causing high NTU reading)			
Filter Effluent Turbidity-Filter #2	8760	0.00-0.30	NTU
Chlorine-POE (Tower)	8760	0.50-1.56	mg/L
Distribution	471	0.15-1.20	mg/L
Fluoride (If the DWS provides fluoridation)	8760	0.46-0.87	mg/L

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	Range of Results	Unit of Measure
March 2,2021	Elevated Tank PH	Monthly	7.1-7.56	
March 2,2021	Elevated Tank Alkalinity	Monthly	21-31	mg/L

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alkalinity	Apr 7/25	40	mg/L	No
Antimony	Jan 22/25	0.6 <MDL	µg/L	No
Arsenic	Jan 22/25	0.2 <MDL	µg/L	No
Barium	Jan 22/25	8.54	µg/L	No
Boron	Jan 22/25	4	µg/L	No
Cadmium	Jan 22/25	0.003 <MDL	µg/L	No
Chromium	Jan 22/25	0.20	µg/L	No
Lead-see results below				
Mercury	Jan 22/25	0.01 <MDL	µg/L	No
Selenium	Jan 22/25	0.04 <MDL	µg/L	No
Sodium	Jan 25/23	11.3	mg/L	No
Uranium	Jan 22/25	0.004	µg/L	No
Fluoride	Jan 25/23	0.65	mg/L	No
Nitrite	Jan 22/25	<0.003	mg/L	No
Nitrate	Jan 22/25	0.079	mg/L	No
Nitrite	Apr 23/25	<0.003	mg/L	No
Nitrate	Apr 23/25	0.089	mg/L	No
Nitrite	Jul 23/25	<0.003	mg/L	No
Nitrate	Jul 23/24	0.006	mg/L	No
Nitrite	Oct 22/24	<0.003	mg/L	No
Nitrate	Oct. 22/24	0.030	mg/L	No

ND = readings are below detectable limits

Summary of Lead Results during this reporting period Summer- (June 15/25-Oct 15/25) Winter- ( Dec 15/24- April 15/25)				
Sampling Period	Range of Results (µg/L) from Residential Samples (# of Samples taken)	Non-residential locations	Distribution System	Any Reportable Incidents?
Winter	.00071-.00185 (2)	.00015-.00061 (1)	.00007 - .00012 (1)	NO
Summer	.00055-.00081 (2)	.00018-.00018(1)	.00006-.00026 (1)	NO

\*two samples taken per residential and non-residential address  
Letters were sent to homeowners for lead

Summary of Organic parameters tested during this reporting period or the most recent sample results					
Parameter	Sample Date	Result Value	Unit of Measure	Exceedance	
Alachlor	Jan 22/25	0.02 <MDL	µg/L	No	
Atrazine + N-dealkylated metabolites	Jan 22/25	0.01 <MDL	µg/L	No	
Azinphos-methyl	Jan 22/25	0.05 <MDL	µg/L	No	
Benzene	Jan 22/25	0.32 <MDL	µg/L	No	
Benzo(a)pyrene	Jan 22/25	0.004 <MDL	µg/L	No	
Bromoxynil	Jan 22/25	0.33 <MDL	µg/L	No	
Carbaryl	Jan 22/25	0.05 <MDL	µg/L	No	
Carbofuran	Jan 22/25	0.01 <MDL	µg/L	No	
Carbon Tetrachloride	Jan 22/25	0.17 <MDL	µg/L	No	
Chlorpyrifos	Jan 22/25	0.02 <MDL	µg/L	No	
Diazinon	Jan 22/25	0.02 <MDL	µg/L	No	
Dicamba	Jan 22/25	0.20 <MDL	µg/L	No	
1,2-Dichlorobenzene	Jan 22/25	0.41 <MDL	µg/L	No	
1,4-Dichlorobenzene	Jan 22/25	0.36 <MDL	µg/L	No	
1,2-Dichloroethane	Jan 22/25	0.35 <MDL	µg/L	No	
1,1-Dichloroethylene (vinylidene chloride)	Jan 22/25	0.33 <MDL	µg/L	No	
Dichloromethane	Jan 22/25	0.35 <MDL	µg/L	No	
2,4 Dichlorophenol	Jan 22/25	0.15 <MDL	µg/L	No	
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jan 22/25	0.19 <MDL	µg/L	No	
Diclofop-methyl	Jan 22/25	0.40 <MDL	µg/L	No	

Dimethoate	Jan 22/25	0.06 <MDL	µg/L	No	
Diquat	Jan 22/25	1 <MDL	µg/L	No	
Diuron	Jan 22/25	0.03 <MDL	µg/L	No	
Glyphosate	Jan 22/25	1 <MDL	µg/L	No	
HAA (four quarter avg)	Q1-Q4 2025	88.3	µg/L	YES	
Malathion	Jan 22/25	0.02 <MDL	µg/L	No	
MCPA	Jan 22/25	0.00012 <MDL	mg/L	N/A	
Metolachlor	Jan 22/25	0.01 <MDL	µg/L	No	
Metribuzin	Jan 22/25	0.02 <MDL	µg/L	No	
Monochlorobenzene	Jan 22/25	0.03 <MDL	µg/L	No	
Paraquat	Jan 22/25	1 <MDL	µg/L	No	
Pentachlorophenol	Jan 22/25	0.15 <MDL	µg/L	No	
Phorate	Jan 22/25	0.01 <MDL	µg/L	No	
Picloram	Jan 22/25	1 <MDL	µg/L	No	
Polychlorinated Biphenyls(PCB)	Jan 22/25	0.04 <MDL	µg/L	No	
Prometryne	Jan 22/25	0.03 <MDL	µg/L	No	
Simazine	Jan 22/25	0.01 <MDL	µg/L	No	
THM (NOTE: show latest annual average)	Q1-Q4 2025	129.0	µg/L	YES	
Terbufos	Jan 22/25	0.01 <MDL	µg/L	No	
Tetrachloroethylene	Jan 22/25	0.35 <MDL	µg/L	No	
2,3,4,6-Tetrachlorophenol	Jan 22/25	0.20 <MDL	µg/L	No	
Triallate	Jan 22/25	0.01 <MDL	µg/L	No	
Trichloroethylene	Jan 22/25	0.44 <MDL	µg/L	No	
2,4,6-Trichlorophenol	Jan 22/25	0.25 <MDL	µg/L	No	
Trifluralin	Jan 22/25	0.02 <MDL	µg/L	No	
Vinyl Chloride	Jan 22/25	0.17 <MDL	µg/L	No	

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

Parameter	Sample Date	Result Value	Unit of Measure	ODWS Criteria
HAA	Q1-Q4 2025 RAA	88.3	µg/L	80 µg/L
THM	Q1-Q4 2025 RAA	129.0	µg/L	100 µg/L

## Part 2 – SUMMARY REPORT (as required by O. Reg. 170/03, Schedule 22)

Non-Compliance with Legislations, Regulations, Approvals & Orders		
During this period, the Facility was operated in full compliance with the Act, the regulations and the Facility's approval, save and except for the following:		
Requirement	Actions Required	Actions Taken
Ministry Inspection currently underway		

System Capability Assessment			
Comparison of Flow Rates (m <sup>3</sup> /d):			
Month	Average Flow	Maximum	Max. Instantaneous Flow (L/s)
January	367	431	7.9
February	368	419	7.6
March	376	431	9.6
April	324	425	12.1
May	392	676	12.0
June	535	879	15.9
July	470	610	14.0
August	500	854	13.9
September	384	647	14.0
October	338	432	40.0
November	315	509	40.0
December	318	368	9.0
Max		879	
Average	391		16.3
% of Capacity	19.7%	44.4%	23L/s
Total			