City of Orillia

2025 Annual Drinking Water System and Summary Report

February 2026
Environmental Services
Environment and Infrastructure Services Department

Table of Contents

List of Tables

1.0 Introduction

This report has been prepared by the City of Orillia pursuant to Section 11 and Schedule 22 of Ontario Regulation (O. Reg.) 170/03. Section 11 of O.Reg 170/03 requires the preparation of an Annual Report on the drinking water system no later than February 28 of the following year. Schedule 22 of O.Reg 170/03 requires the preparation of a Summary Report no later than March 31 of the following year. The Annual Report is to discuss the overall drinking water system, water treatment chemicals used, testing results and sampling points, corrective actions taken and major expenses incurred. The Summary Report is to discuss the drinking water system's approval (permit and licence), any orders applicable to the system that were not met, and a discussion of the quantities and flow rates of the water supplied to understand the capability of the system to meet existing and planned uses of the system. This consolidated report discusses the requirements of both the Annual Report and the Summary Report.

1.1 Drinking Water System Information

- **Drinking Water System Name:** Orillia Drinking Water System
- **Drinking Water System Number:** 220001183
- **Drinking Water System Owner:** The Corporation of the City of Orillia
- **Drinking Water System Category:** Large Municipal Residential
- **Municipal Drinking Water Licence Number:** 125-101, Issue 6
  - **Issue Date:** May 23, 2021
  - **Expiry Date:** May 23, 2026
- **Drinking Water Works Permit Number:** 125-201, Issue 4
  - **Issue Date:** October 18, 2023
- **Groundwater Permit to Take Water:** P-300-5069408381
  West Orillia Well, Well 1 and 2
  - **Issue Date:** April 20, 2020
  - **Expiry Date:** March 31, 2030
- **Surface Water Permit to Take Water:** 2865-BVER7T
  Lake Couchiching
  - **Issue Date:** November 16, 2020
  - **Expiry Date:** November 16, 2030
- **Operational Plan Number:** 125-401
- **Reporting Period:** January 1, 2025 to December 31, 2025
- **Population:** 37,724

1.2 Report Availability

This annual report is available to the public at no charge on the City of Orillia's website, https://www.orillia.ca/en/living-here/waterqualityreports.aspx and upon request for printed copies. Accessible formats or communication supports are also available upon request. To access the report in person, or for assistance, please visit:

City of Orillia
City Centre Reception
50 Andrew St. S., Suite 300
Orillia, ON L3V 7T5

If you have any questions regarding the content of the report, please reach out to Chris Hoos, Manager of Water Treatment, at 705-325-5818 or choos@orillia.ca.

1.3 Drinking Water Quality Management System

The City of Orillia has a Drinking Water Quality Management System (DWQMS) in place and is committed to maintaining the highest quality of service and water supply through this quality management system. Information relating to the Quality Management System can be found on the City of Orillia website at *https://www.orillia.ca/en/living-here/drinkingwaterqualitymanagementstandard.aspx.*

The City of Orillia is an accredited Operating Authority, as designated by the Ministry of Environment, Conservation and Parks.

2.0 Description of the Orillia Drinking Water System

2.1 Overview

The Orillia Water Filtration Plant (WFP) is designed to obtain raw water from a surface source (Lake Couchiching) and from two groundwater sources (Wells 1 and 2). An additional high quality groundwater source (West Orillia Well) is also used for supply to the system. All source water is disinfected and delivered through the distribution system to three pressure zones (Zone 1, Zone 2 and Zone 3). The Zone 1 supply is managed from the WFP and the Rosemary Road Reservoir. The Zone 2 supply is managed from the WFP, the West Orillia Well, and the Harvie Hill Reservoir. The Zone 3 is supplied directly from Zone 2.

2.2 Supply

Lake Couchiching is a relatively shallow lake with a maximum depth of 12 m and an average depth of 6 m. The intake for the plant is located approximately 374 m from shore and 3.3 m below the surface. The raw water intake pipe extends into Lake Couchiching and begins at a concrete filled wooden cribbed structure. There is also a standby raw water intake, located approximately 85 m from shore. The supply from Lake Couchiching has a rated capacity of 27,280 m^3/day.

Well 1 and Well 2, with a combined capacity of 5,762 m^3/day, are located within 160 m of Lake Couchiching shore and are approximately 170 m apart. The combined rated capacity of the WFP (lake based and wells) is 33,042 m^3/day. West Orillia Well is rated at a maximum daily flow of 6,550 m^3/day.

2.3 Treatment

Using gravity, raw lake water travels through the intake to the WFP. As it enters the WFP, the water passes through a fixed screen and a travelling screen to remove any heavy debris. There are four vertical turbine low lift pumps used to move the water from the wet well to the remainder of the process in the WFP. The raw water is then mixed with a coagulant (polyaluminum chloride) and if required, a coagulant aid (polymer) prior to the three parallel concrete flocculation tanks. From the flocculation tanks, the water travels through the filtration system.

The filtration system is comprised of four dual media (sand with granular activated carbon) filters including a backwash system. The filter effluent then combines with the discharge effluent of the Well 1 and/or 2, if online, to be disinfected. The water passes through the contact chambers and clearwell where it is delivered to the distribution system, using high lift pumps. Three vertical turbine pumps are dedicated to delivering water to Zone 1, and three vertical turbine pumps are dedicated to delivering water to Zone 2.

Prior to the introduction at the WFP, the raw water from the Well 1 and Well 2 is treated using an air stripping process for the removal of trichloroethylene (TCE) and tetrachloroethylene (PCE).

2.4 Disinfection

The gas chlorination system consists of five chlorinators dedicated for pre-chlorination, post-chlorination and post-post chlorination. Redundancy of the chlorinators is built into the design (duty/standby). Two 0.909 tonne cylinders of liquefied chlorine are kept online at all times with two vacuum regulators and an automatic cylinder switchover system.

The raw water from Lake Couchiching is pre-chlorinated at the intake in the summer months for zebra mussel control, and in-plant at all other times. The effluent from the filters, and additionally from the wells, is combined for chlorine disinfection (secondary) at the WFP. Further disinfection can be added prior to entering the distribution system if required.

The primary disinfection method of the drinking water is through three flow-through ultraviolet (UV) reactors (one duty for each zone, and one standby). The UVs are located after the high lift pumps and prior to discharge to the distribution system.

The West Orillia Well is disinfected using sodium hypochlorite.

2.5 Storage

The WFP has storage of approximately 4,110 m^3 between the chlorine contact chambers and clearwell. This storage supplies both Zone 1 and Zone 2. Rosemary Road Reservoir

(two tanks) has a total storage capacity of 10,500 m^3 and supplies Zone 1. Harvie Hill Reservoir has a storage capacity of 7,800 m^3 and supplies Zone 2 and Zone 3.

2.6 Distribution System

The distribution system is a network of approximately 205 kilometres of various sized piping servicing the approximately 37,724 people, businesses and facilities within Orillia throughout the three pressure zones.

The system also contains 1,230 hydrants (969 municipal and 262 private), 2,737 control valves, 48 air relief valves, 7 pressure reducing valves used to control flow between the pressure zones, 10 blow offs, 4 permanent auto-flushers, and 22 sampling stations (21 municipal and 1 private).

The Zone 3 Booster Pumping Station boosts the pressure from Zone 2 to deliver to the Zone 3 using three booster pumps and two high flow pumps.

2.7 Emergency Backup

The WFP, West Orillia Well, Rosemary Rd. Reservoir and the Zone 3 Booster Pumping Station are all protected with standby generators in the event of a power outage. The WFP, Rosemary Rd. Reservoir and the Zone 3 Booster Pumping Station have an onsite generator dedicated for their use. The West Orillia Well is fed from the backup generator located at the nearby Champlain Sewage Pumping Station.

3.0 Significant Expenses

The following is a list of significant expenses incurred for the maintenance and operation of treatment and supply equipment.

- High Lift Check Valve and Expansion Joint Replacements - $80,000
- Flow Meter Replacements - $150,000
- Coagulant Pump Replacements - $15,000
- Chlorine Feed Equipment - $6,000
- High Lift Pump Fuses - $6,000
- Chemical Feed Maintenance Kits - $10,000
- Treatment Chemicals - $170,000
- SCADA Maintenance - $25,000
- Compliance Sampling - $20,000
- Electrical Contractor - $20,000
- Well Monitoring - $15,000
- Intake Inspections/Maintenance - $15,000
- Utilities - $625,000
- Coagulation & Filtration Study - $250,000
- Security Improvements - $50,000

- Inline Mixer - $20,000
- Waste Tank Cleaning - $30,000
- Rosemary Rd Reservoir Generator - $30,000
- Various Instrumentation Replacements - $20,000
- Watermain Improvements - $2,000,000
- Compliance 365 Software - $12,000
- Bulk Water Software – 6,500

4.0 Adverse Water Quality Incident (AWQI) Reports

In 2025, eight (8) AWQI reports were made. A summary of the notifications is provided below.

Operational Issues:

Issue# 1
AWQI 168883
Issue: Filter Turbidity > 1 NTU > 15minutes
Date: July 7, 2025

Microbiological Issues:

Issue# 2
AWQI 168202
Results: NDOGN Total Coliforms (TC), 0 E. coli (EC) per 100ml
Free Chlorine: 1.24 mg/L
Location: 11 Cole Court. WSS # 1
Date: May 12, 2025

Issue#3
AWQI 168688
Results: 10 Total Coliforms (TC), 0 E. coli (EC) per 100mL
Free Chlorine: 1.32 mg/L
Location: 755 Broadview Ave. WSS#11
Date: June 23, 2025

Issue# 4
AWQI 168908
Results: NDOGN Total Coliforms (TC), 0 E. coli (EC) per 100ml
Free Chlorine: 1.14 mg/L
Location: 34 Christine Place WSS#16
Date: July 9, 2025

Issue# 5
AWQI 169247
Results: 28 Total Coliforms (TC), 0 E. coli (EC) per 100mL
Free Chlorine: 1.19 mg/L

Location: 3150 Bass Lake Side Rd WSS # 3
Date: July 28, 2025

Issue# 6
AWQI 169750
Results: 3 Total Coliforms (TC), 0 E. coli (EC) per 100mL
Free Chlorine: 1.37 mg/L
Location: 68 Woodside Dr WSS # 2
Date: September 2, 2025

Issue# 7
AWQI 169751
Results: 3 Total Coliforms (TC), 0 E. coli (EC) per 100mL
Free Chlorine: 1.32 mg/L
Location: 3052 Monarch Dr WSS # 17
Date: September 2, 2025

Issue# 8
AWQI 169830
Results: 128 Total Coliforms (TC), 0 E. coli (EC) per 100mL
Free Chlorine: 1.24 mg/L
Location: 3150 Bass Lake Side Rd WSS # 3
Date: September 8, 2025

Low Distribution Chlorine:

N/A

5.0 Non-Compliance and Corrective Actions

During the reporting period, there were no non-compliance events.

No Provincial Orders were issued during the reporting period.

Corrective actions in response to the above AWQI Reports are described below:

Issue #1:
Operational setpoints were adjusted to better accommodate the high flow demands, and alarm delay settings were revised to allow for earlier notifications in similar situations.

Issues #2, #3, #4, #5, #6, #7 and #8
Flush the area, increase disinfection residual, and resample and test at the location of the adverse event, as well as upstream and downstream. Two consecutive sets of samples were taken 24 to 48 hours apart.

6.0 Treatment Chemicals

Various chemicals are used throughout the treatment process from source to tap. Please refer the system description for further information on the use of the chemicals throughout the treatment process. Table 1 provides a summary of the treatment chemicals used in 2025.

Table 1: Summary of Chemicals Used in 2025

Month	Water Filtration Plant		West Orillia Well	Rosemary Rd Reservoir
	Polyaluminum Chloride (L)	Liquefied Chlorine (kg)	Sodium Hypochlorite (L)	Sodium Hypochlorite (L)
January	3,844	993	765	0
February	3,686	885	978	0
March	3,925	1,024	1068	0
April	5,074	1,140	1341	0
May	4,728	1,174	1341	0
June	4,670	1,390	1539	60
July	5,745	1,539	1532	120
August	5,293	1,482	1381	240
September	4,968	1,462	1309	120
October	4,565	1,326	968	0
November	3,714	950	882	0
December	3,491	1,028	1076	0
Totals	**53,703**	**14,391**	**14,180**	**540**

In the distribution system, sodium hypochlorite and sodium thiosulphate are used as needed for spot repairs or de-chlorination and quantities are not tracked.

7.0 Rated Capacity Assessment

Tables 2 to 4 on the following pages illustrate the water supplied and the capacity of the system and its components.

Table 2: System Summary

Item	2021	2022	2023	2024	2025	5 Yr. Avg.
System Average Day Flow (m^3/day)*	11,401	11,071	10,714	10,569	11,653	11,082
System Maximum Day Flow (m^3/day)*	15,860	15,395	15,677	16,567	16,722	16,044
Rated Capacity of System (m^3/day)*	39,592					
Maximum Day/Rated Capacity (%)	40.1	38.9	39.6	41.8	42.2	40.5
Total Yearly WFP Flow (ML)	3,500	3,513	3,338	3,118	3,208	3,368
Total Yearly West Orillia Well Flow (ML)	661	528	568	750	1,045	710
Total Yearly System Flow (ML)	4,161	4,041	3,906	3,868	4,253	4,046

*The System values include data from all sources – WFP, Wells 1 and 2 and WOW.

Table 3: WFP Summary for 2025

Month	Total Flow (m^3)	Minimum (m^3/day)	Maximum (m^3/day)	Maximum Day/ Rated Capacity (%)
January	277,057	6,399	14,339	43.4
February	225,640	6,025	9,945	30.1
March	272,984	7,396	11,499	34.8
April	258,287	7,112	10,099	30.6
May	271,052	6,667	10,400	31.5
June	293,432	7,153	12,093	36.6
July	325,015	8,120	12,685	38.4
August	311,558	8,070	12,225	37.0
September	273,301	6,931	10,973	33.2
October	251,249	5,594	10,867	32.9
November	223,293	4,770	9,090	27.5
December	225,224	5,432	9,190	27.8
Total	**3,208,091**	**-**	**-**	**-**

Note: Rated capacity for WFP is 33,042 m^3/day

Table 4: West Orillia Well Summary for 2025

Month	Total Flow (m^3)	Minimum (m^3/day)	Maximum (m^3/day)	Maximum Day/ Rated Capacity (%)
January	56,317	0	3,134	47.8
February	73,093	446	4,080	62.3
March	85,537	0	4,972	75.9
April	94,462	1,975	4,434	67.7
May	102,574	2,201	5,436	83.0
June	110,262	2,829	5,305	81.0
July	113,276	2,889	4,436	67.7
August	101,315	2,332	4,297	65.6
September	87,051	2,410	4,032	61.6
October	76,170	1,358	2,991	45.7
November	69,217	1,958	2,735	41.8
December	75,992	1,689	4,948	75.5
Total	**1,045,265**	**-**	**-**	**-**

Note: Rated capacity for the West Orillia Well is 6,550 m^3/day
The total overall system flow including the WFP and West Orillia Well in 2025 was 4,253,356 m^3.

The water treatment system has averaged 40.5% of its approved rated capacity over the past five years, rising to 42.2% in the current year, as indicated in the tables above, demonstrating ample capacity within the existing infrastructure.

8.0 Water Quality Analysis

Tables 5 to 9 illustrate the water quality analysis conducted on the drinking water system for various parameters.

No inorganic or organic parameters exceeded half the standard as prescribed in Schedule 2 of O. Reg. 169/03 for this reporting period.

8.1 Testing Required Under Schedules 10 and 7 of O. Reg. 170/03

Table 5: Microbiological Sample Results Required under Schedule 10 of O. Reg. 170/03 for 2025

Facility	Parameter	Source	Number of Samples	Number of Detections
Water Filtration Plant	E. Coli	Raw (Lake Couchiching)	52	17
		Raw (Well 1)	52	0
		Raw (Well 2)	51	0
		Treated	104	0
	Total Coliforms	Raw (Lake Couchiching)	52	39
		Raw (Well 1)	52	0
		Raw (Well 2)	51	0
		Treated	104	0
	HPC	Treated	104	17
West Orillia Well	E. Coli	Raw	52	0
		Treated	52	0
	Total Coliforms	Raw	52	0
		Treated	52	0
	HPC	Treated	52	13
Distribution System	E. Coli		660	0
	Total Coliforms		660	7
	HPC		277	53

Note: HPC – Heterotrophic Plate Count

Table 6: Operational Testing Required Under Schedule 7 of O. Reg. 170/03 for 2025

Facility	Parameter	Source	Type	Number of Samples	Range of Results (Minimum to Maximum)

Water Filtration Plant	Turbidity (NTU)	Raw (Lake Couchiching)	C	8,760	0.20 – 7.24
			G	244	0.14 – 1.22
		Raw (Well 1)	G	52	0.03 – 0.14
		Raw (Well 2)	G	52	0.04 – 0.16
		Filter Effluent(s)	C	35,040	0.00 – 2.00
			G	963	0.07 – 0.26
	Free Chlorine (mg/L)	Treated	C	8,760	0.17– 3.59
			G	486	1.72 – 2.69
West Orillia Well	Turbidity (NTU)	Raw	G	53	0.05 – 0.16
	Free Chlorine (mg/L)	Treated	C	8,760	0.77 – 3.69
			G	158	1.00 – 1.51
Distribution System	Free Chlorine (mg/L)		G	1,026	0.46 – 2.08

Notes: C = Continuous Monitoring
G = Grab Sample
Continuous monitoring equipment is recorded as 8,760 samples.

8.2 Chemical Testing Required under Schedules 13, 15.1, 23 and 24 of O. Reg. 170/03

Table 7: Water Filtration Plant – Treated Single Sample for 2025

Parameter	Units	Result	Date of Sample
Acetic acid, 2-methyl-4-chlorophenoxy- [MCPA]	mg/L	<0.000050	June 2, 2025
Alachlor	µg/L	<0.050	June 2, 2025
Antimony, total	µg/L	<0.60	June 2, 2025
Aroclor 1254	µg/L	<0.020	June 2, 2025
Aroclor 1260	µg/L	<0.020	June 2, 2025
Arsenic, total	µg/L	<1.0	June 2, 2025
Atrazine	µg/L	<0.100	June 2, 2025
Atrazine + N-dealkylated metabolites	µg/L	<0.14	June 2, 2025
Atrazine-desethyl	µg/L	<0.100	June 2, 2025
Azinphos-methyl	µg/L	<0.10	June 2, 2025
Barium, total	µg/L	60	June 2, 2025

Parameter	Units	Result	Date of Sample
Benzene	µg/L	<0.50	June 2, 2025
Benzo(a)pyrene	µg/L	<0.0050	June 2, 2025
Boron, total	µg/L	<50	June 2, 2025
Bromofluorobenzene, 4-	%	82.8	June 2, 2025
Bromoxynil	µg/L	<0.050	June 2, 2025
Cadmium, total	µg/L	<0.10	June 2, 2025
Calcium, total	mg/L	54.1	June 2, 2025
Carbaryl	µg/L	<0.050	June 2, 2025
Carbofuran	µg/L	<0.025	June 2, 2025
Carbon tetrachloride	µg/L	<0.20	June 2, 2025
Chloride	mg/L	83.4	June 2, 2025
Chlorine, free, field	mg/L	2.34	June 2, 2025
Chlorobenzene	µg/L	<0.50	June 2, 2025
Chlorpyrifos	µg/L	<0.10	June 2, 2025
Chromium, total	µg/L	<1.0	June 2, 2025
Chrysene-d12	%	93.1	June 2, 2025
Colour, true	CU	<2.0	June 2, 2025
Decachlorobiphenyl	%	75.8	June 2, 2025
Diazinon	µg/L	<0.025	June 2, 2025
Dicamba	µg/L	<0.10	June 2, 2025
Dichlorobenzene, 1,2-	µg/L	<0.50	June 2, 2025
Dichlorobenzene, 1,4-	µg/L	<0.50	June 2, 2025
Dichloroethane, 1,2-	µg/L	<0.50	June 2, 2025
Dichloroethylene, 1,1-	µg/L	<0.50	June 2, 2025
Dichloromethane	µg/L	<1.0	June 2, 2025
Dichlorophenol, 2,4-	µg/L	<0.20	June 2, 2025
Dichlorophenoxyacetic acid, 2,4- [2,4-D]	µg/L	<0.050	June 2, 2025
Diclofop-methyl	µg/L	<0.10	June 2, 2025
Difluorobenzene, 1,4-	%	93.5	June 2, 2025
Dimethoate	µg/L	<20.0	June 2, 2025
Diquat (ion)	µg/L	<1.0	June 2, 2025
Diuron	µg/L	<0.050	June 2, 2025
Fluoride	mg/L	0.060	June 2, 2025
Fluorobiphenyl, 2-	%	93.5	June 2, 2025
Geosmin	ng/L	<3	June 2, 2025

Parameter	Units	Result	Date of Sample
Glyphosate	µg/L	<1.0	June 2, 2025
Hardness (as CaCO3), from total Ca/Mg	mg $CaCO_3$/L	182	June 2, 2025
Iron, total	µg/L	<50	June 2, 2025
Magnesium, total	mg/L	11.3	June 2, 2025
Malathion	µg/L	<0.025	June 2, 2025
Manganese, total	µg/L	1.9	June 2, 2025
Mercury, total	µg/L	<0.100	June 2, 2025
Methylisoborneol, 2- (MIB)	ng/L	<3	June 2, 2025
Metolachlor	µg/L	<0.025	June 2, 2025
Metribuzin	µg/L	<0.10	June 2, 2025
Naphthalene-d8	%	118	June 2, 2025
Nitrate (as N)	mg/L	0.303	June 2, 2025
Nitrite (as N)	mg/L	<0.010	June 2, 2025
Nitrobenzene-d5	%	75.5	June 2, 2025
Paraquat (as dichloride)	µg/L	<1.0	June 2, 2025
Pentachlorophenol [PCP]	µg/L	<0.50	June 2, 2025
Phenanthrene-d10	%	101	June 2, 2025
Phorate	µg/L	<0.25	June 2, 2025
Picloram	µg/L	<0.10	June 2, 2025
polychlorinated biphenyls [PCBs], 1254+1260	µg/L	<0.030	June 2, 2025
Prometryn	µg/L	<0.025	June 2, 2025
Selenium, total	µg/L	<1.0	June 2, 2025
Simazine	µg/L	<0.10	June 2, 2025
Sodium, total	mg/L	42.5	June 2, 2025
Terbufos	µg/L	<0.50	June 2, 2025
Terphenyl-d14, p-	%	112	June 2, 2025
Tetrachloroethylene	µg/L	<0.50	June 2, 2025
Tetrachloro-m-xylene	%	85.9	June 2, 2025
Tetrachloro-m-xylene	%	85.9	June 2, 2025
Tetrachlorophenol, 2,3,4,6-	µg/L	<0.50	June 2, 2025
Triallate	µg/L	<0.10	June 2, 2025
Tribromophenol, 2,4,6-	%	71.6	June 2, 2025
Trichloroethylene	µg/L	<0.50	June 2, 2025
Trichlorophenol, 2,4,6-	µg/L	<0.20	June 2, 2025

Parameter	Units	Result	Date of Sample
Trifluralin	µg/L	<0.10	June 2, 2025
Uranium, total	µg/L	<2.0	June 2, 2025
Vinyl chloride	µg/L	<0.20	June 2, 2025

Table 8: West Orillia Well – Treated Single Sample for 2025

Parameter	Units	Result	Date of Sample
Acetic acid, 2-methyl-4-chlorophenoxy-[MCPA]	mg/L	<0.000050	June 2, 2025
Alachlor	µg/L	<0.050	June 2, 2025
Antimony, total	µg/L	<0.60	June 2, 2025
Aroclor 1254	µg/L	<0.020	June 2, 2025
Aroclor 1260	µg/L	<0.020	June 2, 2025
Arsenic, total	µg/L	<1.0	June 2, 2025
Atrazine	µg/L	<0.100	June 2, 2025
Atrazine + N-dealkylated metabolites	µg/L	<0.14	June 2, 2025
Atrazine-desethyl	µg/L	<0.100	June 2, 2025
Azinphos-methyl	µg/L	<0.10	June 2, 2025
Barium, total	µg/L	257	June 2, 2025
Benzene	µg/L	<0.50	June 2, 2025
Benzo(a)pyrene	µg/L	<0.0050	June 2, 2025
Boron, total	µg/L	<50	June 2, 2025
Bromofluorobenzene, 4-	%	82.5	June 2, 2025
Bromoxynil	µg/L	<0.050	June 2, 2025
Cadmium, total	µg/L	<0.10	June 2, 2025
Calcium, total	mg/L	106	June 2, 2025
Carbaryl	µg/L	<0.050	June 2, 2025
Carbofuran	µg/L	<0.025	June 2, 2025
Carbon tetrachloride	µg/L	<0.20	June 2, 2025
Chloride	mg/L	137	June 2, 2025
Chlorine, free, field	mg/L	1.39	June 2, 2025
Chlorobenzene	µg/L	<0.50	June 2, 2025
Chlorpyrifos	µg/L	<0.10	June 2, 2025

Parameter	Units	Result	Date of Sample
Chromium, total	µg/L	<1.0	June 2, 2025
Chrysene-d12	%	94.7	June 2, 2025
Colour, true	CU	<2.0	June 2, 2025
Decachlorobiphenyl	%	69.1	June 2, 2025
Diazinon	µg/L	<0.025	June 2, 2025
Dicamba	µg/L	<0.10	June 2, 2025
Dichlorobenzene, 1,2-	µg/L	<0.50	June 2, 2025
Dichlorobenzene, 1,4-	µg/L	<0.50	June 2, 2025
Dichloroethane, 1,2-	µg/L	<0.50	June 2, 2025
Dichloroethylene, 1,1-	µg/L	<0.50	June 2, 2025
Dichloromethane	µg/L	<1.0	June 2, 2025
Dichlorophenol, 2,4-	µg/L	<0.20	June 2, 2025
Dichlorophenoxyacetic acid, 2,4- [2,4-D]	µg/L	<0.050	June 2, 2025
Diclofop-methyl	µg/L	<0.10	June 2, 2025
Difluorobenzene, 1,4-	%	93.7	June 2, 2025
Dimethoate	µg/L	<20.0	June 2, 2025
Diquat (ion)	µg/L	<1.0	June 2, 2025
Diuron	µg/L	<0.050	June 2, 2025
Fluoride	mg/L	0.046	June 2, 2025
Fluorobiphenyl, 2-	%	104	June 2, 2025
Glyphosate	µg/L	<1.0	June 2, 2025
Hardness (as CaCO3), from total Ca/Mg	mg $CaCO_3$/L	390	June 2, 2025
Iron, total	µg/L	<50	June 2, 2025
Magnesium, total	mg/L	30.5	June 2, 2025
Malathion	µg/L	<0.025	June 2, 2025
Manganese, total	µg/L	<1.0	June 2, 2025
Mercury, total	µg/L	<0.100	June 2, 2025
Metolachlor	µg/L	<0.025	June 2, 2025
Metribuzin	µg/L	<0.10	June 2, 2025
Naphthalene-d8	%	NR	June 2, 2025
Nitrate (as N)	mg/L	2.96	June 2, 2025
Nitrite (as N)	mg/L	<0.010	June 2, 2025
Nitrobenzene-d5	%	72.3	June 2, 2025
Paraquat (as dichloride)	µg/L	<1.0	June 2, 2025

Parameter	Units	Result	Date of Sample
Pentachlorophenol [PCP]	µg/L	<0.50	June 2, 2025
Phenanthrene-d10	%	102	June 2, 2025
Phorate	µg/L	<0.25	June 2, 2025
Picloram	µg/L	<0.10	June 2, 2025
polychlorinated biphenyls [PCBs], 1254+1260	µg/L	<0.030	June 2, 2025
Prometryn	µg/L	<0.025	June 2, 2025
Selenium, total	µg/L	<1.0	June 2, 2025
Simazine	µg/L	<0.10	June 2, 2025
Sodium, total	mg/L	48.3	June 2, 2025
Terbufos	µg/L	<0.50	June 2, 2025
Terphenyl-d14, p-	%	99.6	June 2, 2025
Tetrachloroethylene	µg/L	<0.50	June 2, 2025
Tetrachloro-m-xylene	%	83.8	June 2, 2025
Tetrachloro-m-xylene	%	83.8	June 2, 2025
Tetrachlorophenol, 2,3,4,6-	µg/L	<0.50	June 2, 2025
Triallate	µg/L	<0.10	June 2, 2025
Tribromophenol, 2,4,6-	%	72.6	June 2, 2025
Trichloroethylene	µg/L	<0.50	June 2, 2025
Trichlorophenol, 2,4,6-	µg/L	<0.20	June 2, 2025
Trifluralin	µg/L	<0.10	June 2, 2025
Uranium, total	µg/L	<2.0	June 2, 2025
Vinyl chloride	µg/L	<0.20	June 2, 2025

Table 9: Multiple Samples through Reporting Period for 2025

Parameter	Source	Unit	Average	Minimum	Maximum	Number of Samples
Nitrate	WFP	mg/L	0.393	0.292	0.502	4
	WOW		2.97	2.73	3.10	4
Nitrite	WFP	mg/L	0.008	0.003	0.010	4
	WOW		0.021	0.003	0.050	4
Alkalinity	Distribution	mg/L	187	123	278	8
pH	Distribution		7.30	7.1	7.6	8
Lead	Distribution	mg/L	<0.001	<0.001	<0.001	8
THM	Distribution	µg/L	36.6	10.5	69.0	4

Parameter	Source	Unit	Average	Minimum	Maximum	Number of Samples
HAA	Distribution	µg/L	24.1	5.0	50.6	4