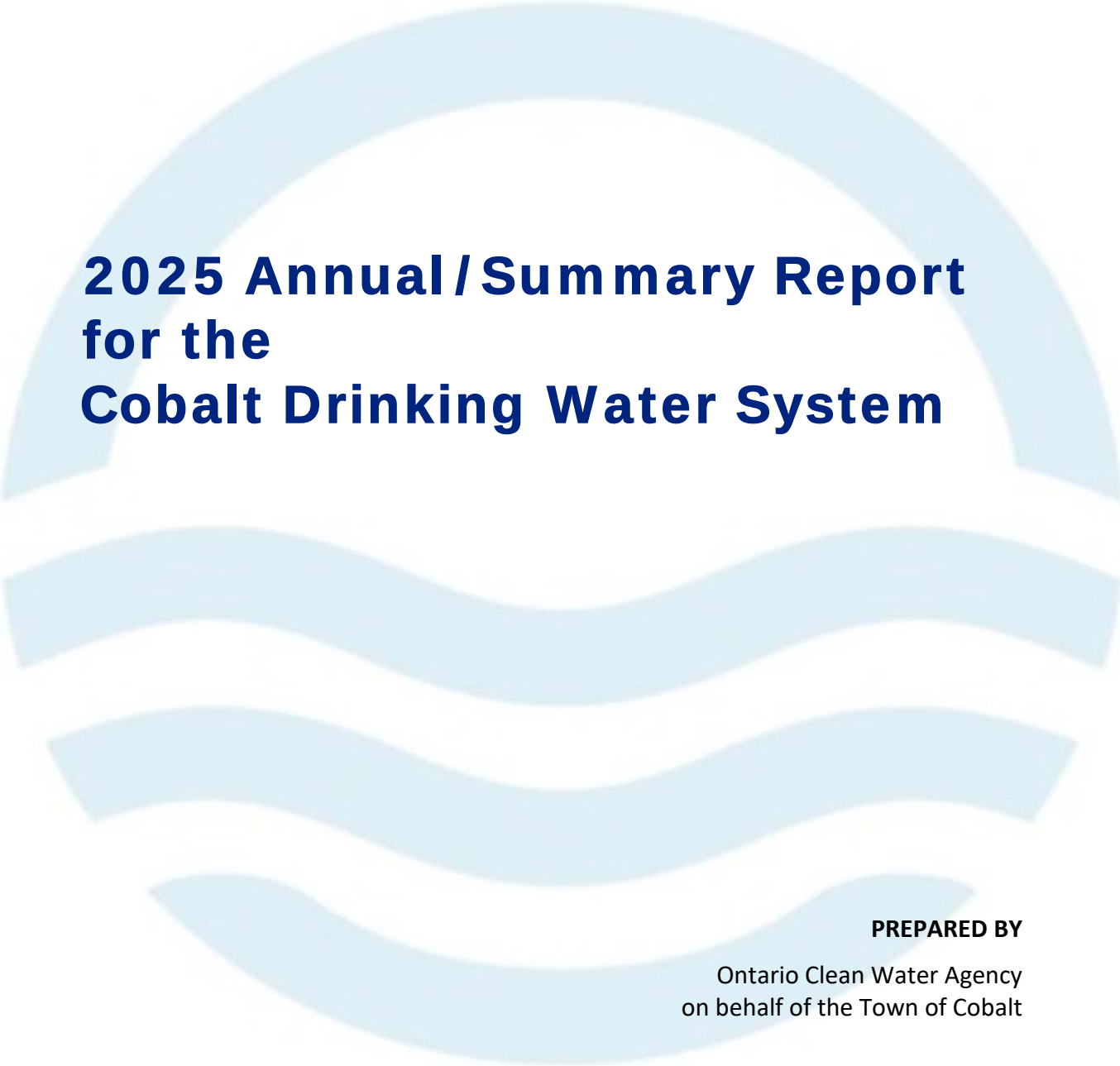




2025 Annual / Summary Report for the Cobalt Drinking Water System

PREPARED BY

Ontario Clean Water Agency
on behalf of the Town of Cobalt

February 18, 2026
Rev: 0

Revision History

Rev. No.	Date	Prepared by:	Approved by:	Description
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Background

Municipalities throughout Ontario are required to comply with Ontario Regulation 170/03 made under the Safe Drinking Water Act (SDWA) since June 2003. The Act was passed following recommendations made by Commissioner O'Conner after the Walkerton Inquiry. The Act's purpose is to protect human health through the control and regulation of drinking-water systems. O. Reg. 170/03 regulates drinking water testing, use of licensed laboratories, treatment requirements and reporting requirements.

O. Reg. 170/03 requires the owner to produce an Annual Report, under Section 11. This report must include the following:

1. Description of system and chemical(s) used
2. Summary of any adverse water quality reports and corrective actions
3. Summary of all required testing
4. Description of any major expenses incurred to install, repair or replace equipment

This Annual Report must be completed by February 28th of each year.

The regulation also requires a Summary Report which must be presented and accepted by Council by March 31st of each year for the preceding calendar year reporting period.

The report must list the requirements of the Act, its regulations, the system's Drinking Water Works Permit (DWWP), Municipal Drinking Water Licence (MDWL), Certificate of Approval (if applicable), and any regulatory requirement the system failed to meet during the reporting period. The report must also specify the duration of the failure, and for each failure referred to, describe the measures that were taken to correct the failure.

The Safe Drinking Water Act, 2002 and the drinking water regulations can be viewed at the following website: <http://www.e-laws.gov.on.ca>.

To enable the Owner to assess the rated capacity of their system to meet existing and future planned water uses, the following information is also required in the report.

1. A summary of the quantities and flow rates of water supplied during the reporting period, including the monthly average and the maximum daily flows.
2. A comparison of the summary to the rated capacity and flow rates approved in the systems approval, drinking water works permit or municipal drinking water licence or a written agreement if the system is receiving all its water from another system under an agreement.

The two reports have been prepared by the Ontario Clean Water Agency (OCWA) on behalf of the Owner and presented to council as the 2025 Annual/Summary Report.

Section 11 – Annual Report

1. Introduction

Drinking-Water System Name	Cobalt Drinking Water System
Drinking-Water System Number	220000362
Drinking-Water System Owner	The Corporation of the Town of Cobalt
Drinking-Water System Category	Large Municipal, Residential System
Municipal Drinking Water Licence No.	206-101 (issued September 14, 2022)
Drinking Water Works Permit No.	206-201 (issued April 28, 2021)
Permit to Take Water No.	6462-BB9RFA (issued May 2, 2019)
Reporting Period	January 1, 2025 to December 31, 2025

Does your Drinking-Water System serve more than 10,000 people? No

Is your annual report available to the public at no charge on a web site on the Internet?

Yes - on the municipal website

Location where Report required under O. Reg. 170/03 Schedule 22 will be available for inspection:

Town of Cobalt Municipal Office
 18 Silver Street, Cobalt
 ON P0J 1C0

Township of Coleman Municipal Office
 937907 Marsh Bay Road, Coleman
 ON P0J 1C0

Drinking Water Systems that receive drinking water from the Cobalt Drinking Water System

The Cobalt Drinking Water System provides drinking water to the Town of Cobalt and the Coleman distribution system.

Drinking Water System Name	Drinking Water System Number
Cobalt Drinking Water System	220000362
Coleman Distribution System	260074321

The Annual Report was provided to all connected Drinking Water System Owners

The Ontario Clean Water Agency prepared the 2025 Annual/Summary Report for the Cobalt Drinking Water System and provided a copy to the system owner; the Town of Cobalt and to the connected system owner; the Township of Coleman.

System Users are notified that the Annual Report is available for viewing through:

- Notice at the Municipal Office

2. Description of the Cobalt Drinking Water System

The Cobalt Drinking Water System is owned by the Corporation of the Town of Cobalt and consists of a Class 2 water treatment subsystem and a Class 1 water distribution subsystem that services the Town of Cobalt and Coleman Township. The system serves a population of approximately 1350 residents including the connected population in the Coleman Township Distribution System. The Ontario Clean Water Agency is the accredited operating authority and is designated as the Overall Responsible Operator for both the water treatment and water distribution facilities.

Raw Water Supply

The raw water is taken from a protected water body, Sasaginaga Lake and directed to the water treatment plant located about 500 meters West of Pyrite Street in Cobalt. The intake structure is located 191 meters into the lake, at a depth of 7.5 meters and is equipped with a 2440 mm diameter drum base with a 560 mm diameter manually adjustable conical cover. The raw water intake pipe consists of a 215 m long, 450 mm diameter polyethylene pipe with a design capacity of 8726 m³/day.

A flow meter is located in the water treatment plant to monitor raw water flows. The raw water is also continuously monitored for pH, turbidity and temperature.

Water Treatment

The Cobalt water treatment plant is a direct filtration facility with two treatment trains operating in parallel, each consisting of coagulant addition, pH adjustment (if needed), a pre-contact tank, and four dual media pressure filters. Primary disinfection is accomplished by ultraviolet light (UV) radiation and chlorine gas.

The plant consists of a raw water wet well with manual screens and lifting equipment, two low lift suction pumps (one duty and one standby) each rated at 36 L/s at a TDH of 42.1m, two high lift suction pumps (one duty and one standby) each rated at 79.0 L/s at a TDH of 50m equipped with variable frequency drives (VFDs) and two pre-contact vessels, each having a volume of 3.6 cubic meters. Poly Aluminum Chloride (PAC) is added prior to the pre-contact tank for coagulation and flocculation. The low lift pumps feed four pressurized dual media

sand/anthracite filters. Each filter is equipped with an on-line turbidity analyzer to monitor the effluent turbidity.

Water is then directed to two (2) parallel UV irradiation systems which are used to achieve most of the required primary disinfection. Each unit is rated at 3974 m³/day at a 85% UVT with a design dose of 40 mJ/cm² and is equipped with actuated control valves that allow switchover between units.

A chlorine gas feed system is housed in a separate room of the plant with access from the outside only. Chlorine gas is injected into the water following the UV system treatment using two booster pumps and two automatically controlled v-chlorination feed units capable of providing 45 kilograms/day of chlorine. The chlorine is added pace-to-flow to meet the remaining primary disinfection requirements and maintain the required secondary disinfection within the distribution systems.

Water Storage

The water then goes into an 8.527 m diameter and 10.869 m high glassed fused to steel standpipe, having a total volume of 621 m³. The high lift pumps direct water from the standpipe to the Cobalt and Coleman Distribution Systems and to the Cobalt Water Tower.

Before entering the distribution systems, the treated water is monitored for pH, free chlorine residual and turbidity using continuous on-line analyzers. The plant is protected with alarms and a stand-by generator in the event of power loss.

Control System

The Cobalt Water Treatment System is operated by a dedicated Programmable Logic Controller (PLC) and supervised through a Supervisory Control and Data Acquisition (SCADA) system. All analysis, monitoring, and control module data is communicated through the SCADA, which also allows operators to control equipment directly from the SCADA computer. The system provides alarm notifications, set point adjustments, and trend monitoring capabilities through the SCADA controls.

Emergency Power

A 180 kW diesel generator with a 1533 Liter fuel tank is available outside of the water treatment plant and is capable of supplying power to the facility during power failures.

Distribution System

The Cobalt drinking water system is classified as a Large Municipal Residential Drinking Water System and serves an approximate population of 1350 residents, including the connected population in the Coleman Distribution System. The Cobalt Distribution System is comprised of PVC water mains, 139 valves and approximately 615 service connections. There are 89 fire hydrants connected to the system to aid in fire protection.

The water tower, located on Ferland Avenue in the Town of Cobalt is a composite concrete/steel tank that was built in 1988. The off-site elevated water storage tank is 15m in diameter and 43.4m high and has a storage volume of 1400 cubic meters. It provides storage and maintains pressure in the distribution system during peak hours of demand. Re-chlorination equipment is on hand at the water tower to provide secondary disinfection if required.

3. List of Water Treatment Chemicals Used

- Chlorine Gas – disinfection
- Poly Aluminum Chloride (PAC) – high performance coagulant used for flocculation
- Sodium Hydroxide – pH and alkalinity adjustment of the finished water
- Sodium Hypochlorite – disinfection; re-chlorination at the Cobalt Water Tower

All treatment chemicals meet AWWA and NSF/ANSI standards.

4. Significant Expense Incurred in 2025

OCWA is committed to maintaining the assets of the drinking water system and sustains a program of scheduled inspection and maintenance activities using a computerized Work Management System (WMS).

A summary of major maintenance and capital expenditures is presented below, with a detailed breakdown available in Appendix A.

- | | |
|--|--|
| o Chemical pump and analyzer parts | o Annual generator service |
| o Chlorinator replacements | o Annual UV inspection and service |
| o Filter flow meter | o Chlorine bottle mount inspection and service |
| o UV parts and repairs | o Tower inspection (Landmark) |
| o Backflow preventers | o Standpipe inspection (Greatario) |
| o Standpipe pressure transmitter replacement | o Distribution – emergency repairs |
| o Back-up pressure transmitter | o DWQMS external re-accreditation audit |
| o Health and safety repairs | o Municipal Drinking Water License renewal |
| o Remote access PLC license | |
| o PLC programming | |

5. Details of Notices Reported & Submitted to the Spills Action Center

Based on information kept on record by OCWA, one (1) spill event was reported to the Ministry's Spills Action Centre (SAC) in 2025.

Incident #1: Spill from the Standpipe

SAC Event No.	1-P7RN6D
Date	July 24, 2025
Details	A pressure transmitter faulted causing the standpipe to fill above its high-level set point causing approx. 100 m ³ of chlorinated drinking water to spill from the standpipe onto the ground with some entering Sasaginaga Lake.
Corrective Actions	OCWA's Instrumentation Technician assessed the pressure transmitter (PT) and discovered the unit was out of calibration. The PT was also tested to ensure that it was isolated and grounded. Wiring from the PT to the PLC was also verified. The unit was replaced. A second transmitter was installed as a back-up on October 6, 2025. Verbal notifications were made to SAC, the local Health Unit, and the local MECP. Written Report was sent to SAC, local MECP, Owner and Environment Canada on July 24, 2025

6. Microbiological Testing

Table 1: Summary of Microbiological Results

Sample Type	# of Samples	Range of <i>E.coli</i> Results (min to max)	Range of Total Coliform Results (min to max)	# of HPC Samples	Range of HPC Results (min to max)
Raw	52	0 to 2	2 to 114	N/A	N/A
Treated	52	0 to 0	0 to 0	52	< 10 to 20
Distribution	156	0 to 0	0 to 0	52	< 10 to 140

Maximum Acceptable Concentration (MAC) for treated and distribution samples: *E. coli* = 0 CFUs/100 mL and
 MAC for Total Coliforms = 0 CFUs/100 mL

"<" denotes less than the laboratory's method detection limit

Note: One microbiological sample is collected and tested each week from the raw and treated water supply. A total of three microbiological samples are collected and tested each week from the distribution system. At least 25% of the distribution samples must be tested for HPC bacteria.

7. Operational Testing

Table 2: Continuous Monitoring in the Treatment Process

Parameter	# of Samples	Range of Results (min to max)	Unit of Measure	Standard
Turbidity (Filter 1)	8760 ^{Note 1}	0.00 to 1.46 ^{Note 2}	NTU	≤ 1.0 ^{Note 2}
Turbidity (Filter 2)	8760	0.00 to 1.23 ^{Note 2}	NTU	
Turbidity (Filter 3)	8760	0.00 to 0.97	NTU	
Turbidity (Filter 4)	8760	0.00 to 0.99	NTU	
Free Chlorine Residual	8760	0.87 to 2.65	mg/L	CT ^{Note 3}

Notes:

- For continuous monitors 8760 is used as the number of samples.

Effective backwash procedures, including filter to waste and automatic filter shut down features are in place to ensure that the effluent turbidity requirements as described in the Filter Performance Criteria are met at all times. Turbidity exceedances occur when two (2) readings are above 1 NTU for 15 minutes or more in a 24 hour period. Filters will backwash if turbidity reaches 0.3 NTU, filters will shut down and alarm at 0.7 NTU, filters also shut down and alarm at 1.0 NTU.

Elevated turbidity levels were recorded at 1.46 NTU on December 4th for Filter No. 1 and 1.23 NTU on December 6th for Filter No. 2. On both occasions the filter valve closed more slowly than intended, allowing high turbid water to be directed to the next phase of treatment for a few seconds.

- CT is the concentration of chlorine in the water times the time of contact that the chlorine has with the water. It is used to demonstrate the level of disinfection treatment in the water. CT calculations are performed for the Cobalt water plant if the free chlorine residual level drops below 1.0 mg/L to ensure primary disinfection is achieved. A CT calculation was performed on two occasions in 2025.

May 5 – CT calculation was performed when the treated water free chlorine residual dropped to 0.99 mg/L due to changing water quality. The calculation demonstrated that primary disinfection was achieved.

September 29 - A free chlorine residual of 0.87 mg/L occurred due to a faulty chlorinator. A CT calculation was performed and adequate disinfection was achieved.

Table 3: Summary of Chlorine Residuals in the Distribution System

Parameter	# of Samples	Range of Results (min to max)	Unit of Measure	Standard
Free Chlorine Residual	367	0.69 to 2.08	mg/L	≥ 0.05

Note: A total of seven operational checks for chlorine residual in the distribution system are collected each week. Four (4) samples are tested one day and three (3) on a second day. The sample sets

are collected at least 48-hours apart and samples collected on the same day are from different locations.

Refer to Appendix B for a monthly summary of the above microbiological and operational test results.

8. Chemical Testing

Table 4: Summary of Nitrate & Nitrite Data from the Water Treatment Plant

Date of Sample	Nitrate Result	Nitrite Result	Unit of Measure	Exceedance
January 13	< 0.1	< 0.01	mg/L	No
April 14	0.10	< 0.05	mg/L	No
July 7	0.30	< 0.01	mg/L	No
October 14	< 0.1	< 0.01	mg/L	No

Maximum Allowable Concentration (MAC) for Nitrate = 10 mg/L and for Nitrite = 1 mg/L

Table 5: Summary of Total Trihalomethane Results from the Distribution System

Date of Sample	THM Result	Unit of Measure	Running Average	Exceedance
January 13	51.3	ug/L	Q1 = 51.9	No
April 14	49.0	ug/L	Q2 = 55.0	No
July 7	64.3	ug/L	Q3 = 54.7	No
October 14	65.0	ug/L	Q4 = 57.4	No

Maximum Allowable Concentration (MAC) for Total Trihalomethanes = 100 ug/L (Four Quarter Running Average)

Table 6: Summary of Total Haloacetic Acid Results from the Distribution System

Date of Sample	Result Value	Unit of Measure	Running Average	Exceedance
January 13	36	ug/L	Q1 = 36.8	No
April 14	22	ug/L	Q2 = 35.0	No
July 7	37	ug/L	Q3 = 31.5	No
October 14	45	ug/L	Q4 = 35.0	No

Maximum Allowable Concentration (MAC) for Total Haloacetic Acid = 80 ug/L (Four Quarter Running Average)

Table 7: Summary of Lead Results under Schedule 15.1 (from the distribution system)

Date of Sample	# of Samples	Field pH (min to max)	Field Temperature (°C) (min to max)	Alkalinity (mg/L) (min to max)	Lead (ug/L) (min to max)
March 10	2	8.69 to 9.24	3.6 to 3.7	55 to 55	< 0.1 to < 0.1
September 8	2	6.88 to 6.96	14.4 to 14.7	51 to 53	< 0.1 to < 0.1

Maximum Allowable Concentration (MAC) for Lead = 10 ug/L

The system is required to test for total alkalinity and pH in two distribution samples collected during the period of December 15 to April 15 (winter period) and two distribution samples during the period of June 15 to October 15 (summer period). This testing is required in every 12-month period with lead testing in every third 12-month period. Lead testing was performed in 2025.

Next lead sampling is scheduled for 2028.

Table 8: Most Recent Schedule 23 Inorganic Results from the Water Treatment Plant

Parameter	Result Value	Unit of Measure	MAC	MAC Exceedance	½ MAC Exceedance
Antimony	< 0.5	ug/L	6	No	No
Arsenic	0.8	ug/L	10	No	No
Barium	5	ug/L	1000	No	No
Boron	3	ug/L	5000	No	No
Cadmium	< 0.1	ug/L	5	No	No
Chromium	< 1	ug/L	50	No	No
Mercury	< 0.1	ug/L	1	No	No
Selenium	< 0.2	ug/L	50	No	No
Uranium	< 0.5	ug/L	20	No	No

Note: Sample required every 12 months (sample date = October 15, 2025)

Table 9: Most Recent Schedule 24 Organic Results from the Water Treatment Plant

Parameter	Result Value	Unit of Measure	Standard	MAC Exceedance	½ MAC Exceedance
Alachlor	< 0.247	ug/L	5	No	No

Parameter	Result Value	Unit of Measure	Standard	MAC Exceedance	½ MAC Exceedance
Atrazine + N-dealkylated metabolites	< 0.5	ug/L	5	No	No
Azinphos-methyl	< 0.185	ug/L	20	No	No
Benzene	< 0.1	ug/L	1	No	No
Benzo(a)pyrene	< 0.01	ug/L	0.01	No	No
Bromoxynil	< 0.071	ug/L	5	No	No
Carbaryl	< 3	ug/L	90	No	No
Carbofuran	< 0.5	ug/L	90	No	No
Carbon Tetrachloride	< 0.2	ug/L	2	No	No
Chlorpyrifos	< 0.185	ug/L	90	No	No
Diazinon	< 0.185	ug/L	20	No	No
Dicamba	< 0.0621	ug/L	120	No	No
1,2-Dichlorobenzene	< 0.2	ug/L	200	No	No
1,4-Dichlorobenzene	< 0.3	ug/L	5	No	No
1,2-Dichloroethane	< 0.2	ug/L	5	No	No
1,1-Dichloroethylene (vinylidene chloride)	< 0.3	ug/L	14	No	No
Dichloromethane	< 1	ug/L	50	No	No
2-4 Dichlorophenol	< 0.2	ug/L	900	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	< 0.266	ug/L	100	No	No
Diclofop-methyl	< 0.0887	ug/L	9	No	No
Dimethoate	< 0.185	ug/L	20	No	No
Diquat	< 0.4	ug/L	70	No	No
Diuron	< 0.5	ug/L	150	No	No
Glyphosate	< 10	ug/L	280	No	No
Malathion	< 0.185	ug/L	190	No	No
Metolachlor	< 0.124	ug/L	50	No	No

Parameter	Result Value	Unit of Measure	Standard	MAC Exceedance	½ MAC Exceedance
Metribuzin	< 0.124	ug/L	80	No	No
Monochlorobenzene	< 0.5	ug/L	80	No	No
Paraquat	< 0.2	ug/L	10	No	No
Polychlorinated Biphenyls (PCBs)	< 0.04	ug/L	3	No	No
Pentachlorophenol	< 0.3	ug/L	60	No	No
Phorate	< 0.124	ug/L	2	No	No
Picloram	< 0.0621	ug/L	190	No	No
Prometryne	< 0.0618	ug/L	1	No	No
Simazine	< 0.185	ug/L	10	No	No
Terbufos	< 0.124	ug/L	1	No	No
Tetrachloroethylene	< 0.3	ug/L	10	No	No
2,3,4,6-Tetrachlorophenol	< 0.3	ug/L	100	No	No
Triallate	< 0.124	ug/L	230	No	No
Trichloroethylene	< 0.2	ug/L	5	No	No
2,4,6-Trichlorophenol	< 0.2	ug/L	5	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA)	< 4.44	ug/L	100	No	No
Trifluralin	< 0.124	ug/L	45	No	No
Vinyl Chloride	< 0.1	ug/L	1	No	No

Note: Sample required every 12 months (sample date = October 15, 2025)

Inorganic or Organic Parameter(s) that Exceeded Half the Standard Prescribed in Schedule 2 of Ontario Drinking Water Quality Standards

No inorganic or organic parameter(s) listed in Schedule 23 and 24 of Ontario Regulation 170/03 (parameters listed in Table 8 and Table 9 of this report) exceeded half the standard found in Schedule 2 of the Ontario Drinking Water Standard (O. Reg.169/03) during the reporting period.

Table 10: Most Recent Sodium Data (from the Water Treatment Plant)

Date of Sample	# of Samples	Result Value	Unit of Measure	MAC	Exceedance
October 7, 2024	1	7.98	mg/L	20	No
April 14, 2025	1	8.42	mg/L	20	No
July 7, 2025	1	7.99	mg/L	20	No

Note: Sample required every 60 months. Next sampling scheduled for October 2029.

The aesthetic objective for sodium in drinking water is 200 mg/L at which it can be detected by a salty taste. It is required that the local Medical Officer of Health be notified when the concentration exceeds 20 mg/L so that persons on sodium restricted diets can be notified by their physicians.

Table 11: Most Recent Fluoride Data Sampled at the Water Treatment Plant

Date of Sample	# of Samples	Result Value	Unit of Measure	MAC	Exceedance
October 7, 2024	1	< 0.05	mg/L	1.5	No
April 14, 2025	1	< 0.05	mg/L	1.5	No

Note: Sample required every 60 months. Next sampling scheduled for October 2029.

9. Additional Testing Performed in Accordance with a Legal Instrument

1. Ultraviolet (UV) Monitoring

Condition 1.6 of Schedule C to Municipal Drinking Water License (MDWL) No. 206-101 issued on April 28, 2021 requires the UV disinfection system to maintain a continuous pass-through UV dose of at least 40 mJ/cm².

Table 12: Summary of UV Dosage

UV System	Range of Results (min to max)	Unit of Measure	Standard
UV Unit No. 1	0 to 199.6	mJ/cm ²	40
UV Unit No. 2	0 to 200.0	mJ/cm ²	40

Note: Zero results occur when the plant is not producing water and the units are off. The duty UV unit will alarm and automatically switch over to the standby unit if the dose falls to 40 mJ/cm². If both

units fail, the system will alarm and automatically shut down. Flow through the UV is not to exceed 46 L/s.

2. Chlorine Residual Monitoring when Standpipe is Off-line

Condition 2.2 of Schedule D to MDWL No. 206-101 requires that; when the standpipe is off line, the free chlorine residual shall be continuously monitored at the plant discharge, and a grab sample shall be taken and tested for free chlorine residual weekly from the Cobalt and Coleman watermain at a point near the first or second consumer.

Table 13: Summary of Chlorine Residual Monitoring at the First Consumer

Cobalt WTP	Coleman Distribution	Correlation Difference	Cobalt Distribution	Correlation Difference	Unit of Measure
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The standpipe was on-line for the duration of 2025 and this sampling was not required.

3. Harmful Algal Bloom Monitoring

Condition 6.0 (6.1) of Schedule C to MDWL No. 206-101 requires a Harmful Algal Bloom (HAB) monitoring, sampling, and reporting plan. The plan must be implemented during the harmful algae bloom season, during but not limited to the warm seasonal period between June 1st and October 31st of each year, or as otherwise directed by the Medical Officer of Health. A Plan has been developed and is in effect for the Cobalt Drinking Water System during the HAB season. The Plan includes visual inspection of the HAB monitoring area at least once per week. Sampling and testing for microcystins on the raw and treated water is only required if a HAB is suspected or occurring in the HAB monitoring area. Reporting to the local Health Unit and the Ministry's Spills Actions Center is done if a suspected or occurring bloom is observed or if microcystins are detected in either the raw or treated water samples.

Table 14: Summary of Microcystin Results

Sample Type	# of Samples	Range of Microcystin Results (min to max)	Unit of Measure	Exceedance
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No incidents of suspected and/or confirmed harmful blue green algal blooms were observed in the HAB monitoring area during the 2025 season.

Maximum Allowable Concentration (MAC) for Microcystin-LR = 1.5 ug/L

Schedule 22 – Summary Reports for Municipalities

10. Requirements the System Failed to Meet

The following table lists the requirements of the Safe Drinking Water Act (2002), the drinking water regulations, the Permit to Take Water (PTTW), the Municipal Drinking Water Licence (MDWL), the Drinking Water Works Permit (DWWP), and any other orders applicable to the system that were not met at any time during the reporting period.

According to information kept on record by OCWA, the Cobalt Drinking Water System failed to meet the following regulatory requirements set out in the above mentioned legal instruments.

Table 15: Requirements the System Failed to Meet

Legislation	Requirement(s) not Met	Duration	Corrective Action(s)
Condition 6-5(1.1)(1) of O. Regulation 170/03	The continuous monitoring equipment must cause an alarm to signal immediately at the following locations if the equipment malfunctions or loses power or a test result for a parameter is above the maximum alarm standard or below the minimum alarm standard. The Cobalt water plant lost the ability to call for an operator during an alarm event due to a damaged telecom fiber optic line. All alarms were functional, but could not call-out. The systems shutdown features were operational to prevent adverse water quality conditions.	August 13, 2025 at 8:00 AM to 7:45 PM	The incident was realized by operation staff at 3:30 pm. An operator was assigned to monitor the systems until repairs were completed. The issue was resolved at approximately 7:45 PM on August 13th and the alarm call-out system was tested to ensure proper operation.

Also to be noted in this section, one (1) spill event was reported to the Ministry's Spills Action Center during the reporting period. Refer to *Section 5 - Details of Notices Reported & Submitted to the Spills Action Center* on page 6 of this report for details.

11. Summary of Quantities and Flow Rates

11.1 Flow Monitoring

The Municipal Drinking Water Licence (MDWL) No. 206-101 requires the owner to install a sufficient number of flow measuring devices to permit the continuous measurement and recording of:

- the flow rate and daily volume of water conveyed from the treatment system to the distribution system, and
- the flow rate and daily volume of water conveyed into the treatment system.

The system's Permit to Take Water (PTTW) No. 6462-BB9RFA requires that on each day water is taken from the source, the date, the volume of water taken on that date and the rate at which it was taken be recorded.

The Cobalt drinking water system has one flow meter to monitor the raw water entering the treatment plant and one to monitor the treated water entering the distribution system. These flow metering devices are calibrated in accordance to manufacturers' specifications on an annual basis and are operating as required.

11.2 Rated Capacity & Flow Rates

The system's PTTW allows the plant to withdraw a maximum volume of 3974 cubic meters from Sasaginaga Lake each day. A review of the raw water flow data indicates that the system did not exceed this allowable limit having a maximum volume of 1745 m³.

The Permit also allows a maximum flow rate of 2760 L/minute which was not exceeded during the reporting period having a maximum flow rate of 1573 L/minute.

Condition 1.0 (1.1) to Schedule C of MDWL No. 206-101 states that the maximum daily volume of treated water that flows from the treatment subsystem to the distribution system not exceed a maximum flow of 3974 m³ on any calendar day. The Cobalt DWS complied with this limit having a recorded maximum volume of 1608 m³/day, which is 40% of the rated capacity.

Table 16 and Table 17 provides the quantities and flow rates of water taken and produced during the reporting period, including monthly average flows, maximum daily flows and total monthly volumes. A comparison of the water data is made to the rated capacity and flow rates specified in the system's Permit to Take Water and the Municipal Drinking Water License.

Figure 2 is a comparison of the maximum allowed water taking identified in the system's PTTW to the average and maximum raw water flows entering the water treatment plant.

Figure 2 is a comparison of the maximum rated capacity specified in the system's MDWL to the average and maximum treated water flows entering the distribution system.

Table 18 provides a comparison of Cobalt and Coleman flows.

Table 19 lists historical maximum raw and treated flows from 2016 to 2025.

Table 16: 2025 – Monthly Summary of Water Takings from the Source (Sasaginaga Lake)

Regulated by Permit to Take Water (PTTW) #6462-BB9RFA, issued May 2, 2019

Sasaginaga Lake	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Total Volume (m ³)	41007	37931	44453	44348	42457	40128	41571	40759	37834	39633	38270	43141	491532
Average Volume (m ³ /d)	1323	1355	1434	1478	1370	1338	1341	1315	1261	1278	1276	1392	1347
Maximum Volume (m ³ /d)	1512	1517	1577	1657	1610	1468	1518	1499	1745	1451	1638	1558	1745
PTTW - Maximum Allowable Volume (m ³ /day)	3974	3974	3974	3974	3974	3974	3974	3974	3974	3974	3974	3974	3974
Maximum Flow Rate (L/min)	1567	1566	1568	1573	1552	1571	1548	1537	1563	1559	1568	1552	1573
PTTW - Maximum Allowable Flow Rate (L/min)	2760	2760	2760	2760	2760	2760	2760	2760	2760	2760	2760	2760	2760

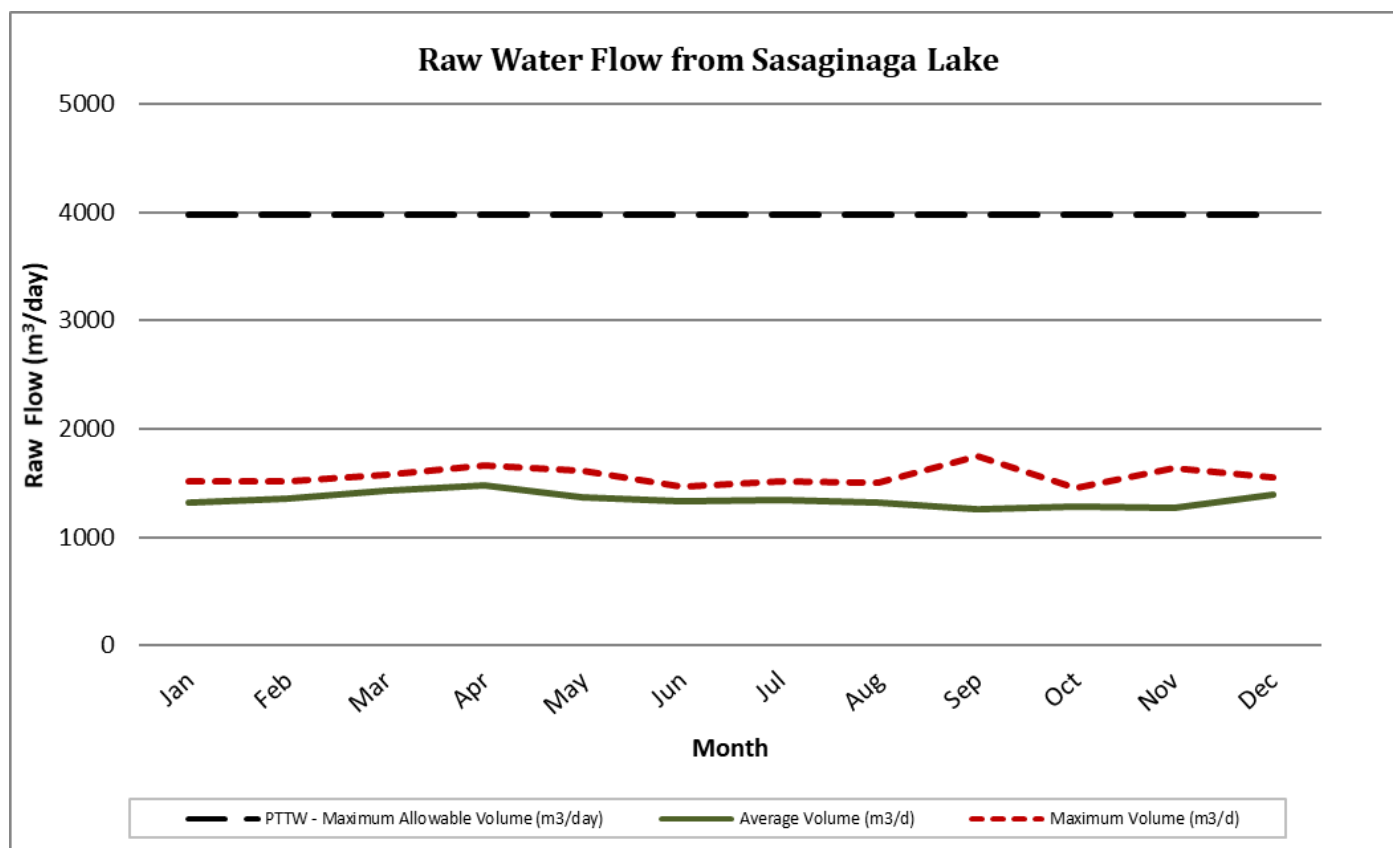


Figure 1: Comparison of Raw Water Flows to the Maximum Allowable Water Taking

Table 17: 2025 – Monthly Summary of Treated Water Supplied to the Distribution System

Regulated by Municipal Drinking Water Licence (MDWL) #206-101-6, issued September 14, 2022

Treatment Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Total Volume (m ³)	36095	34146	39512	39979	37651	36010	37161	36215	33478	35183	34195	37927	437552
Average Volume (m ³ /d)	1164	1220	1275	1333	1215	1200	1199	1168	1116	1135	1140	1223	1199
Maximum Volume (m ³ /d)	1400	1439	1565	1590	1608	1419	1486	1450	1545	1306	1487	1492	1608
MDWL - Rated Capacity (m ³ /day)	3974	3974	3974	3974	3974	3974	3974	3974	3974	3974	3974	3974	3974
% Rated Capacity	35	36	39	40	40	36	37	36	39	33	37	38	40

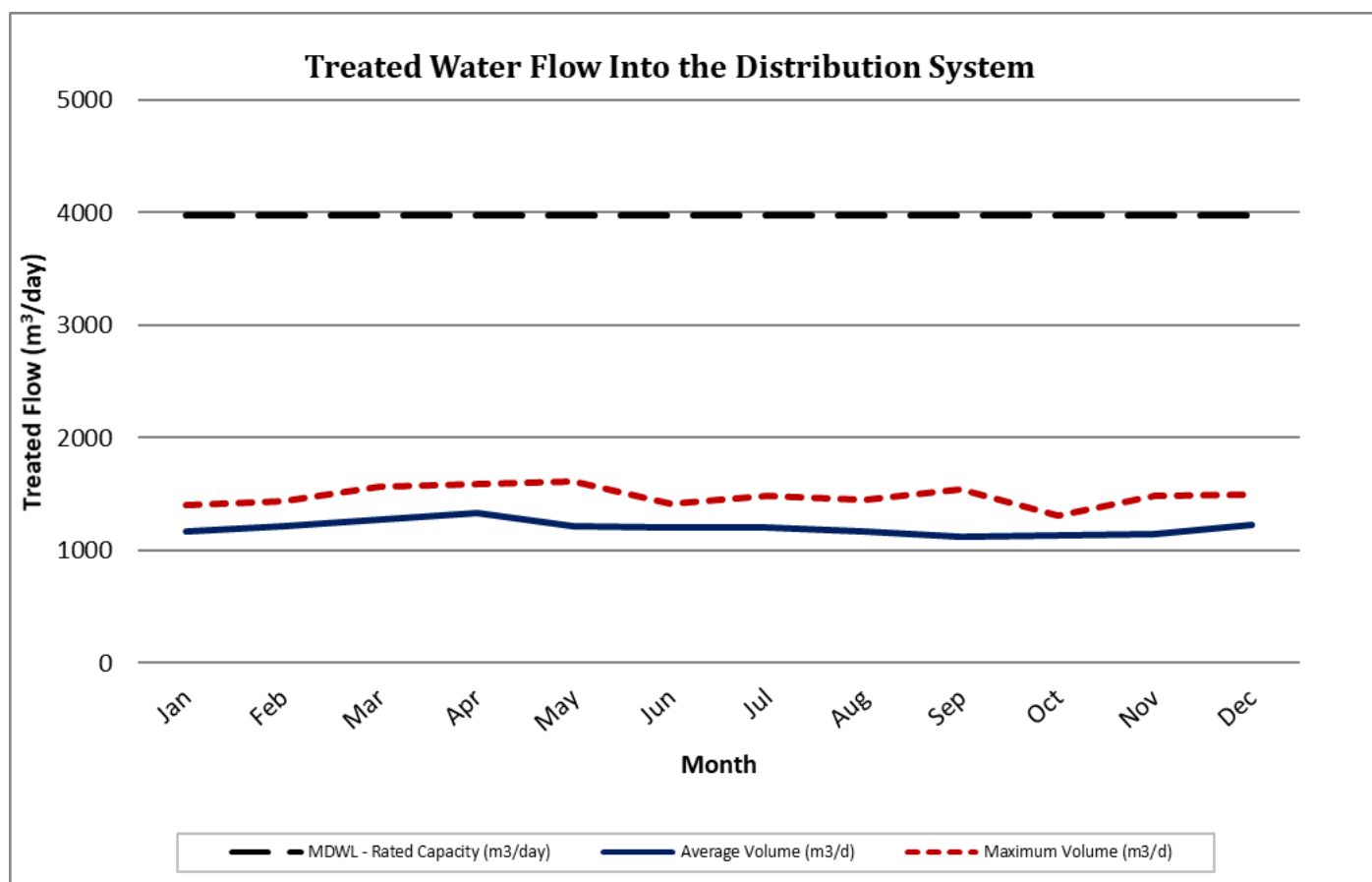


Figure 2: Comparison of Treated Flows to the Maximum Rated Capacity

Table 18: 2025 – Monthly Consumption (Cobalt vs Coleman)

Month	Total (m ³)	Usage (m ³)		% Used By	
		Cobalt	Coleman	Cobalt	Coleman
January	36,095	34,720	1376	96.2	3.8
February	34,146	32,102	2044	94.0	6.0
March	29,512	37,327	2185	94.5	5.5
April	39,979	38,821	1158	97.1	2.9
May	37,651	36,763	888	97.6	2.4
June	36,010	34,013	1997	94.5	5.5
July	37,161	35,570	1592	95.7	4.3
August	36,215	34,556	1660	95.4	4.6
September	33,478	32,467	1011	97.0	3.0
October	35,183	34,040	1143	96.8	3.2
November	34,195	33,527	668	98.0	2.0
December	37,927	36,489	1438	96.2	3.8
TOTALS	437,552	420,393	17,159	96.1%	3.9%

11.3 System Performance

The following information is provided to enable the Owner to assess the capability of the system to meet existing and future water usage needs:

Rated Capacity of the Plant (MDWL)	3,974 m ³ /day	
Average Daily Flow for 2025	1199 m ³ /day	30 % of the rated capacity
Maximum Daily Flow for 2025	1608 m ³ /day	40 % of the rated capacity
Total Treated Water Produced in 2025	437,552 m ³	

Table 19: 2025 – Historical Maximum Flows (2016 to 2025)

Year	Maximum Raw Flow (m ³ /d)	Max. Day % of PTTW Allowable (3974 m ³ /d)	Maximum Treated Flow (m ³ /d)	Max. Day % of MDWL Capacity (3974 m ³ /d)
2025	1745	44%	1608	40%
2024	1727	43%	1747	44%
2023	2036	51%	1648	41%
2022	2296	58%	1970	50%
2021	1938	49%	1708	43%
2020	1681	42%	1422	36%
2019	1514	38%	1252	32%
2018	1817	46%	1193	30%
2017	2067	52%	1191	48%
2016	1817	46%	1263	32%

Conclusion

The water quality data collected in 2025 demonstrates that the Cobalt drinking water system provided high quality drinking water to its users.

The system was able to operate in accordance with the terms and conditions of the Permit to Take Water and in accordance with the rated capacity of the licence while meeting the community's demand for water use.

Any non-compliances identified during the reporting period were addressed promptly. The one Adverse Water Quality Incident that occurred during the reporting period was responded to and reported as per Schedule 16 of Ontario Regulation 170/03 under the Safe Drinking Water Act. All corrective actions were completed and the incident was resolved as soon as possible.



APPENDIX A

Major Maintenance and Capital Expenditures

Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM

Report End Date: Dec 31, 2025 11:59 PM

Location: 5070*

Work Order Type: CAP,CORR,EMER

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4333864			5070, Cobalt Water Treatment Plant	CAP	Compliance	0		Cobalt DWQMS Off Site Audit 5070	CLOSE		4/8/25 12:29 PM	4/8/25 12:29 PM	complete audit -
4334017			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Replace Failed CL-17 Photo Cell and Tubing Kit 5070	CLOSE		9/16/25 08:33 AM	9/16/25 08:33 AM	
4334073			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Cobalt Chemicals 5070	COMP		1/16/26 07:38 AM	1/16/26 07:38 AM	
4334077			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Replace Cracked Pressure Transmitter Line and brittle Fittings 5070	CLOSE		2/20/25 02:16 PM	2/20/25 02:16 PM	-Performed maintenance to rectify the issue. Canister was filled with food grade oil to prevent lines and transmitter from freezing. System was tested and placed back online once completed.
4336401			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Cobalt Filter Turb Flow Meter 5070	CLOSE		4/8/25 01:00 PM	4/8/25 01:00 PM	
4381415			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Replacement UV Bulbs 5070	CLOSE		4/8/25 12:47 PM	4/8/25 12:47 PM	Ordered Bulbs -

Workorder Summary Report

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4424115			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Cobalt HL #1 VDF Failure Troubleshooting 5070	COMP		12/29/25 09:16 AM	12/29/25 09:16 AM	- Called to the cobalt wtp @ 9:11am due to high lift 1 being locked out. I reset the drive by cycling the power and the drive programming would not load up on the HIM. Attempted to cycle the power couple more times and let the drive power down for 20 minutes between cycles but same issue with the HIM. Electricians Andy Lachapelle and his partner came on site to help troubleshoot the issue and determined the same thing that the drive has lost its programming and files. They were unable to repair the problem. A message was left with Bruce from Nortech as he apparently programmed the drive initially when installed. We are waiting for a call back to further troubleshoot. High lift pump 1 was left in manual and in the off position until issue is rectified. Cobalt HL #1 VDF Failure Troubleshooting 5070 -Assisted Andy moving the VFD into the Cobalt WTP
4426802			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Cobalt H&S Inspection Issues 5070	CLOSE		4/8/25 12:42 PM	4/8/25 12:42 PM	
4428465			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Cobalt WTP Trouble shoot Failing #2 Chlorinator 5070	CLOSE		5/7/25 11:04 AM	5/7/25 11:04 AM	Trouble Shoot Chlorinator -

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4486062			5070, Cobalt Water Treatment Plant	CORR	Calibration	0		Treated pH Analyzer Asset No. 0000293724 - 1Point Calibration at Cobalt WTP 5070	CLOSE		4/8/25 01:24 PM	4/8/25 01:24 PM	Treated pH Analyzer Asset No. 0000293724 - 1Point Calibration at Cobalt WTP 5070 - Completed treated pH verification using pH 4.00 buffer and pH 7.00 buffer. I completed 1 Point calibration pH 4.00 because error of span was 95%. Results are listed below: Results pH 3.8 and after calibration pH 3.99 Error of Span: 95% No changes made to pH 7.00 Results 7.03 Error of Span: 99.6% Calibration Report - Calibration report located on shared drive.

Workorder Summary Report

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				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4486065			5070, Cobalt Water Treatment Plant	CORR	Calibration	0		Raw pH Analyzer Asset No. 0000277407 - 1Point Calibration at Cobalt WTP, 5070	CLOSE		9/18/25 03:54 PM	9/18/25 03:54 PM	Raw pH Analyzer Asset No. 0000277407 - 1Point Calibration at Cobalt WTP, 5070 - Raw pH Analyzer Asset No. 0000277407 - 1Point Calibration at Cobalt WTP, 5070 - Completed verification on raw pH analyzer Asset No. 0000277407 Results for pH 7.00 Actual value: pH 7.30 As Left: pH 7.08 Error of Span: 95.71 Slope: 57.8 mV No change made to pH 4.00 Actual value: pH4.00 Calibration report located on shared drive pH

Workorder Summary Report

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4490213			5070, Cobalt Water Treatment Plant	CORR	Refurbish/ Replace/Repair	0		UV1 and UV2 Troubleshooting of system lockouts created nuisance call outs	CLOSE		8/21/25 12:38 PM	8/21/25 12:38 PM	- Spoke with Trojan Technician (Bob) to determine the cause of the UV system lock outs. We determined that backwashes were occurring back to back which may be causing low dosage alarms. A dosage spike occurs when the backwash cycle starts and the raw water drops from 24 L/S down to 12 L/S. Once the backwashes are completed the water jumps back to 24 L/S which causes the UV system dosage to quickly drop below 40mj for a second which is enough to lockout the system. The high/low dosage alarm was also changed from 30 seconds to 60 seconds.
4552042			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Cobalt WTP Generator Service 5070	CLOSE		5/30/25 08:21 AM	5/30/25 08:21 AM	Let contractor in -
4554123			5070, Cobalt Water Treatment Plant	CAP	Compliance	0		Cobalt MDWL Renewal 5070	CLOSE		10/29/25 02:40 PM	10/29/25 02:40 PM	Cobalt MDWL Renewal 5070 -Work on MDWL renewal application. Completed application form. Prepared a raw water assessment. Compiled required documents needed to be submitted with the application. Information still needed; raw water turbidity data from 2022, 2023 and 2024 and the Financial Plan.
4605817			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Replace Failing Chlorinator Number 2 5070	CLOSE		9/24/25 09:57 AM	9/24/25 09:57 AM	-Replaced chlorinator with Dan from SCG. Commissioned and calibrated afterwards.
4605818			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Tie In Chem Tankls to PLC with Alarming and trending 5070	CLOSE		9/25/25 12:37 PM	9/25/25 12:37 PM	Tie In Chem Tankls to PLC with Alarming and trending 5070 -Ran conduit from tank indicator panels to PLC cabinet.
4605819			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Repair Leaking UV Cooling Water Piping 5070	BUSCOMP		12/15/25 11:16 AM	12/23/25 03:37 PM	

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4607533			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Chemical Line Fittings 5070	CLOSE		8/11/25 10:57 AM	8/11/25 10:57 AM	
4608702			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Cobalt Test and Certify Backflow Preventers 5070	COMP		12/4/25 08:32 AM	12/4/25 08:32 AM	Cobalt Test and Certify Backflow Preventers 5070 -Tested the 2" backflow preventer and it failed. Requested quote for parts to fix
4608706			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Cobalt Tower ROV inspection 5070	BUSCOMP		12/15/25 11:18 AM	12/19/25 03:36 PM	
4608710			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Cobalt Raw water intake ROV inspection 5070	CLOSE		9/8/25 03:48 PM	9/8/25 03:48 PM	Cobalt Raw water intake ROV inspection 5070 -The boat was picked up at New Liskeard Lagoon and brought to the Haileybury shop and got washed. The boat was then delivered to Cobalt WTP and disinfected. A set paddles and anchor was also delivered. Due unsafe conditions the boat was not used. The boat was hauled back to NL Lagoon. The paddles and anchors was also brought back to the town.
4608713			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Cobalt Standpipe ROV inspection 5070	BUSCOMP		12/15/25 11:19 AM	12/19/25 03:35 PM	Cobalt Standpipe ROV inspection 5070 -Contractor onsite for Standpipe inspections. Turned off High lifts and low lifts during inspection.
4662405			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		UV System Inspection and Service 5070	CLOSE		8/20/25 01:37 PM	8/20/25 01:37 PM	- Yearly Maintenance was performed. Both UV systems were taken apart and cleaned. Seals were all replaced and system calibrated and tested.
4662516			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Corelate Jamieson St 5070	CLOSE		7/17/25 10:45 AM	7/17/25 10:45 AM	Corelate Jamieson St 5070 -Correlate Jamieson St. To try to pin point a leak on the service line. The correlator aimed to be in front of apartment 56, 58 Jamieson St.

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Location: 5070*

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				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4663146			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Cobalt Chlorine Bottle mount and Injector Service 5070	CLOSE		9/24/25 11:41 AM	9/24/25 11:41 AM	- Replaced all tubing, performed maintenance on injector bottle regulators and site glass. Tested for leaks and tested system for proper operation.
4663604			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Cobalt ACS and ECA Wetlands 6022	CLOSE		7/23/25 12:21 PM	7/23/25 12:21 PM	
4664345			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Troubleshoot and repair Stand Pipe PT Report AWQI 5070	CLOSE		8/11/25 11:08 AM	8/11/25 11:08 AM	
4710340			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Cobalt Parallel PT Transmitter 5070	CLOSE		11/3/25 12:33 PM	11/3/25 12:33 PM	- New Conduit installed, new wires pulled, new piping installed along with PT. Wires terminated and new PLC card installed and terminated. Commissioned new PT. During the commissioning stage it was identified that the primary PT calibration had shifted again and required another adjustment. I would recommend replacing that PT
4710708			5070, Cobalt Water Treatment Plant	EMER	Refurbish/ Replace/Repair	0		Cobalt water treatment plant 5070 - Filter PLC ethernet card fault	CLOSE		8/22/25 11:39 AM	8/22/25 11:39 AM	- Arrived on site and placed plant back in auto to determine that the issue was filter related however no faults were present on Scada. Called Jacob from Selog to troubleshoot further and discovered that the filter PLC rack had a faulted ethernet card. I reset the PLC rack and started the plant back up with no issues. Jacob programmed a fault on Scada in case this happens again.
4711581			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		PLC Remote Access Cobalt WTP 5070	CLOSE		9/8/25 12:23 PM	9/8/25 12:23 PM	Contacted Programmer -
4711583			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Cobalt Audit Finding Fixes 5070	CLOSE		9/16/25 08:31 AM	9/16/25 08:31 AM	

Workorder Summary Report

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Work Order Class:

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4711695			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Cobalt Splash Pad Service Call 5070	CLOSE		9/10/25 11:46 AM	9/10/25 11:46 AM	- Troubleshoot the system to determine issue which turned out to be a burnt fuse. A temporary fuse was installed and new fuses were ordered and replaced in order to protect the PLC.

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Location: 5070*

Work Order Type: CAP,CORR,EMER

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4761197			5070, Cobalt Water Treatment Plant	CORR	Refurbish/ Replace/Repair	0		Low Tower and Standpipe Issue 5070	CLOSE		11/6/25 02:47 PM	11/6/25 02:47 PM	Low Tower and Standpipe Issue 5070 -Received a message from the operator on call at 0826 for an issue with the WTP. An operator logged in remotely and noticed a low tower level of 2.09m, a low standpipe level of 2.97m, a low pre chlorine and both high lifts were locked out. I drove to site and as I got to site the operator started the low lifts remotely once they noticed the stern pac chem pump was also locked out. Looking at the trends, the low lifts hadn't ran since 0956 yesterday morning and the high lifts hadn't ran since 1203 yesterday afternoon. A worst case scenario CT was completed before moving forward to allow treated water to leave the plant. CT was met. The treated chlorine was at 1.18mg/L. I disabled alarms that were stopping the plant from running, along with changing set points since CT was met. Once the low lifts started to increase the stand pipe level, I continued to turn the high lift on to send some water to the tower as the level was slowly decreasing. The lowest the tower level went to was 1.53m and the lowest

Workorder Summary Report

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
													that the standpipe got to was 2.21m. I had to monitor the standpipe and tower level since we could only put 24L/s into the standpipe but we were sending out 52L/s to the tower. The alarm for a low tower level should've called out, but after mimicking the same situation, we realized that the alarm labeled as 'process - high lifts/lowlift, raw/treated' has multiple other alarms linked to it, and because it was disabled the low tower never called out. I stayed on site and continued to monitor the plant along with starting and stopping the high lifts. I increased the caustic from 7.40mg/L to 7.60mg/L due to the treated pH being at 6.81. I also increased chlorinator 1 from 2.40mg/L to 2.50mg/L and chlorinator 2 from 2.40mg/L to 2.60mg/L. Chlorinator #2 is higher due to the chlorine being a bit lower when that chlorinator is running. Treated chlorine was at 1.68mg/L and we are aiming for 1.80-1.90mg/L. Continued to monitor the plant all day and called the operator on call to take over monitoring the plant. The tower level was at 3.51m

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
													when I left and the standpipe was at 4.78m and still filling. All set points have been put back to normal except for the high lift start and stop due to continuously starting and stopping them to keep sending water to the tower. The actual start is 5.50m and the actual stop is 6.80m
4762522			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Jamieson St. Correlation (2) 5070	CLOSE		10/6/25 12:51 PM	10/6/25 12:51 PM	Jamieson St. Correlation (2) 5070 -Correlated Jamieson St. again. No leak was detected from the first house to the hydrant but they had removed a rock from inside the house. A leak is still detected at the end of the line at the last house. They are putting a whole new line to that house.
4762739			5070, Cobalt Water Treatment Plant	CAP	Compliance	0		Cobalt External Audit 5070	CLOSE		10/7/25 08:23 AM	10/7/25 08:23 AM	Completed Audit -

Workorder Summary Report

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4795005			5070, Cobalt Water Treatment Plant	CORR	Refurbish/ Replace/Repair	0		Repaired Treated Temperature which was reading over 30 Deg C in October - Cobalt wtp 5070	CLOSE		10/1/25 03:48 PM	10/1/25 03:48 PM	- The temperature was reading 31 deg C in the middle of winter when it should have been reading around 15 deg C. During the investigation it was discovered that the pH probe's temperature element was reading correctly however the SC100 controller output shifted drastically. I managed to modify the signal in order to have it read accurately. I tested multiple points on the temperature probe by inserting it into cold, mild and warm water and confirmed that scada was matching the controller display at all times. I would recommend replacing the SC100 controller as this is a temporary fix.
4817237			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Replace Faulty Heater in Chlorine Room 5070	CLOSE		10/22/25 09:37 AM	10/22/25 09:37 AM	
4817238			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Replace Failing Treated PH Meter 5070	CLOSE		11/6/25 07:22 AM	11/6/25 07:22 AM	
4819645			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Cobalt Grounding Plate for Pressure transmitters 5070	CLOSE		11/4/25 10:24 AM	11/4/25 10:24 AM	Cobalt Grounding Plate for Pressure transmitters 5070 - Dig hole/trench for wiring and ground plate. Drill through wall. Feed wire and terminate at both ends.
4861419			5070, Cobalt Water Treatment Plant	CORR	Refurbish/ Replace/Repair	0		Replace Raw pH controller Cobalt wtp 5070	CLOSE		11/6/25 03:31 PM	11/6/25 03:31 PM	-Operator noticed that the raw temperature was not working anymore. Replace the old GLI controller with a new Sc4500 and use the old treated pH probe from the treated which was replaced yesterday. Calibrated probe.
4862385			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Replace Blown Ballasts #2 UV System 5070	BUSCOMP		12/15/25 11:20 AM	12/19/25 03:34 PM	

Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM

Report End Date: Dec 31, 2025 11:59 PM

Location: 5070*

Work Order Type: CAP,CORR,EMER

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4862386			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Replace Failing Stern PAC Level Transmitter 5070	BUSCOMP		12/1/25 01:54 PM	12/11/25 11:55 AM	
4862641			5070, Cobalt Water Treatment Plant	CORR	Refurbish/ Replace/Repair	0		Rectify PLC Clock issue with Jacob from Selog - Cobalt WTP 5070	COMP		11/13/25 01:32 PM	11/13/25 01:32 PM	-Auto clock program has been reinstalled for the PLC and clock has been adjusted. During the next day light savings time the clock should automatically adjust to the new time and avoid totalizing issues from reoccurring.
4862800			5070, Cobalt Water Treatment Plant	CAP	Refurbish/ Replace/Repair	0		Rebuild And Test Failed backflow Preventers 5070	BUSCOMP		12/1/25 01:56 PM	12/11/25 11:56 AM	Rebuild And Test Failed backflow Preventers 5070 -Tested, repaired and retested both backflow preventers. They passed inspection. Attached is a copy of the inspection report
4864475			5070, Cobalt Water Treatment Plant	CORR	Refurbish/ Replace/Repair	0		Replaced Faulty Standpipe Level Transmitter with new Siemens Transmitter (under warranty) 5070	COMP		11/25/25 07:46 AM	11/25/25 07:46 AM	-Removed defective transmitter. Replaced with new warranty Siemens provided transmitter. Calibrated and tested. Also verified calibration on the redundant transmitter during that time.



APPENDIX B

Monthly Summary of Microbiological & Operational Test Results



Raw Water																2025			
Sasaginaga Lake		Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Total	Avg	Max	Min		
E. Coli: EC - cfu/100mL																			
	Lab Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00					
	Lab Month.Max	< 2.00	< 2.00	2.00	< 2.00	< 2.00	< 2.00	2.00	2.00	2.00	< 2.00	< 2.00	< 2.00			2.00			
	Lab Month.Mean	< 2.00	< 2.00	< 1.60	< 2.00	< 2.00	< 1.60	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00		< 1.92				
	Lab Month.Min	< 2.00	< 2.00	0.00	< 2.00	< 2.00	0.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00				0.00		
Total Coliform: TC - cfu/100mL																			
	Lab Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00					
	Lab Month.Max	60.00	60.00	62.00	72.00	112.00	64.00	22.00	20.00	30.00	70.00	58.00	114.00			114.00			
	Lab Month.Mean	38.50	37.50	33.80	45.00	54.00	35.00	17.50	15.00	14.40	44.50	39.50	61.60		36.35				
	Lab Month.Min	28.00	2.00	2.00	16.00	12.00	12.00	12.00	12.00	4.00	24.00	6.00	38.00				2.00		
Filtered Water																			
Filter #1		Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Total	Avg	Max	Min		
Turbidity (Max 1 NTU) - NTU																			
	OL Month.Max	0.99	0.96	0.98	0.99	0.98	0.99	0.93	0.96	0.71	0.65	0.90	1.46			1.46			
	OL Month.Mean	0.17	0.09	0.07	0.07	0.08	0.10	0.11	0.11	0.09	0.08	0.11	0.11		0.10				
	OL Month.Min	0.00	0.04	0.04	0.04	0.04	0.06	0.01	0.01	0.05	0.01	0.06	0.01				0.00		
														2025					
Filter #2		Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Total	Avg	Max	Min		
Turbidity (Max 1 NTU) - NTU																			
	OL Month.Max	0.92	0.99	0.98	0.92	0.59	0.28	0.55	0.73	0.52	0.23	0.98	1.23			1.23			
	OL Month.Mean	0.08	0.07	0.07	0.06	0.06	0.09	0.10	0.09	0.07	0.06	0.09	0.09		0.08				
	OL Month.Min	0.04	0.03	0.03	0.03	0.04	0.06	0.07	0.00	0.04	0.00	0.04	0.05				0.00		
														2025					
Filter #3		Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Total	Avg	Max	Min		
Turbidity (Max 1 NTU) - NTU																			
	OL Month.Max	0.97	0.97	0.91	0.79	0.95	0.81	0.83	0.94	0.91	0.82	0.89	0.96			0.97			
	OL Month.Mean	0.07	0.06	0.07	0.06	0.07	0.10	0.10	0.09	0.07	0.06	0.09	0.09		0.08				
	OL Month.Min	0.04	0.03	0.03	0.03	0.04	0.05	0.07	0.01	0.04	0.04	0.04	0.04				0.01		
														2025					
Filter #4		Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Total	Avg	Max	Min		
Turbidity (Max 1 NTU) - NTU																			
	OL Month.Max	0.81	0.90	0.85	0.99	0.45	0.70	0.76	0.48	0.36	0.68	0.53	0.51			0.99			
	OL Month.Mean	0.08	0.07	0.06	0.07	0.08	0.10	0.10	0.09	0.07	0.07	0.08	0.08		0.08				
	OL Month.Min	0.04	0.03	0.03	0.04	0.04	0.06	0.07	0.05	0.05	0.05	0.05	0.04				0.03		
														2025					



Treated Water																		
Treated Water POE		Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Total	Avg	Max	Min	
	Cl Residual OL (Min 1 mg/L) - mg/L																	
	OL Month.Max	1.82	1.96	2.65	2.49	2.41	2.34	2.30	2.30	2.38	2.21	2.16	2.33			2.65		
	OL Month.Mean	1.62	1.77	1.89	1.88	1.83	1.99	1.85	1.79	1.80	1.88	1.89	1.80		1.83			
	OL Month.Min	1.44	1.44	1.15	1.28	0.99	1.73	1.08	1.33	0.87	1.49	1.48	1.51				0.87	
	E. Coli: EC - cfu/100mL																	
	Lab Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00				
	Lab Month.Max	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		
	Lab Month.Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			
	Lab Month.Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00	
	HPC - cfu/mL																	
	Lab Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00				
	Lab Month.Max	< 10.00	10.00	10.00	< 10.00	< 10.00	< 10.00	10.00	< 10.00	20.00	10.00	< 10.00	10.00			20.00		
	Lab Month.Mean	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 12.00	< 10.00	< 10.00	< 10.00		< 10.19			
	Lab Month.Min	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00				< 10.00	
	Total Coliform: TC - cfu/100mL																	
	Lab Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00				
	Lab Month.Max	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		
	Lab Month.Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			
	Lab Month.Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00	
Distribution Water																		
1st Bacti/Residual		Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Total	Avg	Max	Min	
	Cl Residual: Free - mg/L																	
	IH Edited Count	9.00	8.00	9.00	8.00	9.00	9.00	9.00	8.00	9.00	9.00	8.00	10.00	105.00		2.08		
	IH Month.Max	1.62	1.60	2.00	1.80	1.64	2.08	1.90	1.85	1.85	1.92	1.95	1.53			2.08		
	IH Month.Mean	1.30	1.43	1.54	1.47	1.24	1.59	1.45	1.27	1.35	1.36	1.47	1.13		1.38			
	IH Month.Min	1.13	1.33	0.96	1.20	0.92	1.29	1.18	0.89	0.95	1.02	1.20	0.98				0.89	
	E. Coli - cfu/100mL																	
	Lab Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00				
	Lab Month.Max	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		
	Lab Month.Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			
	Lab Month.Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00	
	Total Coliform: TC - cfu/100mL																	
	Lab Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00				
	Lab Month.Max	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		
	Lab Month.Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00			
	Lab Month.Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00	
															2025			



2nd Bacti/Residual		Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Total	Avg	Max	Min
CI Residual: Free - mg/L																	
	IH Edited Count	9.00	8.00	9.00	8.00	9.00	9.00	9.00	8.00	9.00	9.00	8.00	10.00	105.00			
	IH Month.Max	1.24	1.60	1.98	1.98	1.61	2.03	1.88	1.32	1.75	1.96	1.83	1.44			2.03	
	IH Month.Mean	1.07	1.32	1.52	1.58	1.33	1.50	1.64	1.07	1.14	1.27	1.62	1.03		1.34		
	IH Month.Min	0.80	1.07	1.12	1.24	1.00	1.09	1.28	0.81	0.69	0.97	1.14	0.78				0.69
E. Coli - cfu/100mL																	
	Lab Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00			
	Lab Month.Max	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	
	Lab Month.Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		
	Lab Month.Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00
Total Coliform: TC - cfu/100mL																	
	Lab Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00			
	Lab Month.Max	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	
	Lab Month.Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		
	Lab Month.Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00
														2025			
3rd Bacti/Residual		Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Total	Avg	Max	Min
CI Residual: Free - mg/L																	
	IH Edited Count	9.00	8.00	9.00	8.00	9.00	9.00	9.00	8.00	9.00	9.00	8.00	10.00	105.00			
	IH Month.Max	1.65	1.62	1.90	1.95	2.05	1.92	1.85	1.58	1.79	1.89	1.89	1.82			2.05	
	IH Month.Mean	1.43	1.38	1.50	1.62	1.49	1.59	1.45	1.40	1.42	1.37	1.44	1.51		1.47		
	IH Month.Min	1.13	1.07	1.02	1.17	1.09	1.27	1.14	1.11	1.03	1.05	1.01	1.23				1.01
E. Coli - cfu/100mL																	
	Lab Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00			
	Lab Month.Max	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	
	Lab Month.Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		
	Lab Month.Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00
HPC - cfu/mL																	
	Lab Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00			
	Lab Month.Max	140.00	< 10.00	10.00	10.00	10.00	20.00	< 10.00	< 10.00	70.00	10.00	20.00	< 10.00			140.00	
	Lab Month.Mean	< 42.50	< 10.00	< 10.00	< 10.00	< 10.00	< 12.00	< 10.00	< 10.00	< 26.00	< 10.00	< 12.50	< 10.00	<	14.42		
	Lab Month.Min	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00				< 10.00
Total Coliform: TC - cfu/100mL																	
	Lab Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00			
	Lab Month.Max	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	
	Lab Month.Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		
	Lab Month.Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00
														2025			



4th Residual		Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Total	Avg	Max	Min
	Cl Residual: Free - mg/L																
	IH Edited Count	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	52.00			
	IH Month.Max	1.61	1.28	1.51	1.90	2.04	1.74	1.83	1.84	1.95	1.36	1.71	1.80			2.04	
	IH Month.Mean	1.40	1.10	1.36	1.69	1.61	1.57	1.39	1.66	1.60	1.14	1.19	1.46		1.44		
	IH Month.Min	1.01	0.93	1.22	1.50	1.07	1.32	1.14	1.51	1.13	0.84	0.98	1.02				0.84
														2025			

Notes:

May 5 – A free chlorine residual dropped to 0.99 mg/L due to changing water quality. A CT calculation was performed and primary disinfection was achieved.

September 29 - A free chlorine residual of 0.87 mg/L occurred due to a faulty chlorinator. A CT calculation was performed and adequate disinfection was achieved.

December 4 - Filer No. 1 reached a turbidity of 1.3 NTU when the filter valve closed slower tha nintended and high turbid water was directed to the next stage of treatment for a few seconds.

December 6 - Filer No. 2 reached a turbidity of 1.3 NTU when the filter valve closed slower tha nintended and high turbid water was directed to the next stage of treatment for a few seconds.