ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

2025 Annual/Summary Report for the Haileybury Drinking Water System

PREPARED BY

Ontario Clean Water Agency
on behalf of the City of Temiskaming Shores

February 18, 2026
Rev: 0

Revision History

Rev. No.	Date	Prepared by:	Approved by:	Description
0	February 18, 2026	I. Bruneau, PCT	B. Logan, Senior Operations Manger	Revision 0 issued

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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	**Haileybury Drinking Water System**
Drinking-Water System Number	210000309
Drinking-Water System Owner	The Corporation of the City of Temiskaming Shores
Drinking-Water System Category	Large Municipal, Residential System
Municipal Drinking Water Licence No.	218-102 (issued July 23, 2021)
Drinking Water Works Permit No.	218-202 (issued July 23, 2021)
Permit to Take Water No.	P-300-1067513491 (issued February 13, 2020)
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:

City of Temiskaming Shores Municipal Office
325 Farr Drive, P.O. Box 2050
Haileybury, ON P0J 1K0

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

The Haileybury Drinking Water System provides drinking water to the communities of Haileybury and North Cobalt within the City of Temiskaming Shores.

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 Haileybury Drinking Water System and provided a copy to the system owner; the City of Temiskaming Shores.

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

- Notice on the City's Facebook page

- Notice in the local newspaper

2. Description of the Haileybury Drinking Water System

The Haileybury Drinking Water System is owned by the Corporation of the City of Temiskaming Shores and consists of a Class 3 water treatment subsystem and a Class 2 water distribution subsystem. It is a surface water system that services the communities of Haileybury and North Cobalt. 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 water treatment plant is located at 322 Browning Street and obtains its raw water from Lake Temiskaming. A 197 m long, 450 mm diameter raw water intake pipe extends 168 m into the lake. The intake structure is an upturned bell inside a cribbed structure. The intake is approximately 12.5 m below the low recorded water level and 2 m above the lake bottom.

Water flows into the intake structure by gravity, through two removable inlet screens and is stored in the raw water wet well. The wet well contains a heated superstructure and has a storage volume of 37.2 m^3. The low lift pumping station is equipped with three low lift duty pumps; all are vertical turbine pumps which operate on an alternating basis. A magnetic 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

Raw water is pumped to the water treatment building where it is injected with sodium carbonate (soda ash) for pH and alkalinity adjustment and aluminum sulphate for the coagulation/ flocculation process. The process water undergoes rapid mixing, flows into two flocculation basins, where polymer is added as a coagulant aid and pH is continuously monitored. It is then directed to a settling tank for clarification. The process water flows through three dual media filters consisting of anthracite and silica sand. The filter system is equipped with an automated backwash sequence, filter-to-waste capabilities, air system and an underdrain system. The backwash wastewater and the settled solids from the settling tank are discharged to the municipal sanitary system. On-line turbidity analyzers are used to monitor the turbidity off each filter.

After filtration, the process water is chlorinated and pH adjusted with soda ash before entering the dual celled clearwell. Three high lift pumps equipped with variable frequency drives (VFDs) are located at the end of the clearwell, where a magnetic flow meter is used to measure flow on the discharge main. In a separate room, with outside access only, a gas chlorine system equipped with automatic switchover is used for post-filtration chlorination in the clearwell. The water leaving the clearwell is continuously monitored for flow, pH, turbidity and free chlorine residual as it is directed to an off-site reservoir.

Water Storage

The Niven Street reservoir is a baffled contact tank consisting of two reservoirs and one pumping chamber that provide sufficient chlorine contact time to meet CT requirements. The water in the reservoir is monitored for free chlorine residual and level to ensure primary disinfection is achieved. An ammonium sulphate dosing system is used to chloraminate the treated water before being gravity fed or pumped to the distribution system by four high lift pumps equipped with VFDs. The water directed to the pressure zones are continuously monitored for flow, pH, turbidity, pressure and total chorine residual. The gravity fed zone is continuously monitored for flow.

Control System

The Haileybury Water Treatment System is controlled by a dedicated Programmable Logic Controller (PLC) and monitored through a Control System Supervisory Control and Data Acquisition (SCADA) system. All analyzing, monitoring and control module equipment information is routed through the SCADA system for operator monitoring and control. Control of equipment can be accomplished using the SCADA computer located at the Haileybury water treatment plant. Alarm capability and set point adjustment along with trend monitoring are also available through SCADA system controls.

Emergency Power

A 250 kW diesel generator with a 2000 L fuel tank is available outside of the main water treatment plant and is capable of supplying power to the facility during power failures.

A 200 kW diesel engine generator with a 1000 L fuel tank is located outside of the Niven Street Reservoir to provide emergency power during emergencies.

Distribution System

The Haileybury drinking water system is classified as a Large Municipal Residential Drinking Water System that provides water to a population of approximately 4,200 residents. The distribution system has approximately 1940 service connections and is comprised of various pipe materials including 4" - 12" cast iron with lead joints or ductile iron, 10" and 12" asbestos cement, and PVC with mechanical joints. There are several isolation valves to allow for the repair and maintenance of selected sections of the distribution system, one air relief valve and four pressure reducing valves. Approximately 174 fire hydrants are connected to the system to aid in fire protection.

The system consists of four pressure zones. Zone 1 is a gravity fed area in downtown Haileybury, Zone 2 is an intermediate pressure region located at higher elevations along the west side of Haileybury, Zone 3 is a controlled pressure system which is fed off of the high pressure system and is located in the central part of Haileybury and North Cobalt and Zone 4 is a high pressure zone in North Cobalt. The water distribution piping system is continuous between the four

identified pressure zones; however the various zones are isolated from each other via closed valves.

3. List of Water Treatment Chemicals Used

- Aluminum Sulphate – coagulation/flocculation
- Ammonium Sulphate – secondary disinfection
- Chlorine Gas – disinfection
- Polyelectrolyte (Polymer) - coagulant aid
- Sodium Carbonate (Soda Ash) – pH and alkalinity adjustment

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.

- Floc tank maintenance and repairs
- Chemical pump and analyzer parts
- Alum pumps
- Ammonia sulphate pumps
- Chlorination system parts and maintenance
- Turbidity analyzers (4)
- Back-up chlorine analyzer
- 2 chlorine bottle mount rebuilds
- Filter solenoid panel
- Air relief valve on main to reservoir
- VFD cooling fans
- Backflow preventer testing and certification
- Annual generator service
- High lift pump No. 3 maintenance
- High lift pump No. 4 assessment
- Low lift pump maintenance
- Temperature alarms at reservoir
- PLC cards
- pH meters
- Air dryer maintenance
- Distribution planned and emergency repairs
- DWQMS re-accreditation external audit
- Municipal Drinking Water License renewal

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

Based on information kept on record by OCWA, one (1) adverse water quality incident (AWQI) was reported to the Ministry's Spills Action Centre in 2025.

Incident #1: Planned Valve Replacement / Loss of Pressure/ BWA

AWQI No.	169605
Date	August 28, 2025

Incident #1: Planned Valve Replacement / Loss of Pressure/ BWA

Details	A planned valve replacement resulted in a loss of pressure to 72 homes in the community of North Cobalt on Maple Street South, Groom Drive and a section of Lakeview Drive (Birch Street to Proctor Road).
Corrective Actions	After the work was complete and pressure restored, the area was flushed until an acceptable combined chlorine residual was achieved (1.19 mg/L). Two sets of 3 bacteriological samples were collected 24 hours apart (1 upstream, 1 downstream and 1 near the site of the work) on August 28th and August 29th. Sample results were acceptable having zero total coliforms and *E.coli.* The MOH lifted the BWA on September 2nd at 8:46 AM.

Four (4) suspected or confirmed blue-green algae bloom events were also reported to the Medical Officer of Health and the Ministry's SAC during the reporting period. See Section 9(2) – Additional Testing Performed in Accordance with a Legal Instrument (Harmful Algae Bloom Monitoring).

6. Microbiological Testing

Table 1: Summary of Microbiological Results

Sample Type	# of Samples	*Range of E.coli* Results *(min to max)*	Range of Total Coliform Results *(min to max)*	# of HPC Samples	Range of HPC Results *(min to max)*
Raw	52	1 to 24	2 to 596	N/A	N/A
Treated	52	0 to 0	0 to 0	52	< 10 to 150
Distribution	156	0 to 0	0 to 0	52	< 10 to 130

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

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 No. 1)	8760 Note 1	0.00 to 0.97	NTU	≤ 1.0 Note 2
Turbidity (Filter No. 2)	8760	0.00 to 0.64	NTU	
Turbidity (Filter No. 3)	8760	0.00 to 0.96	NTU	
Free Chlorine Residual	8760	1.45 to 2.57	mg/L	CT Note 3

Notes:

1. For continuous monitors 8760 is used as the number of samples.
2. 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 0.7 NTU and will shut down and filter to waste at 1.0 NTU. The system performed as programmed and no high turbidity water was directed to the next phase of the process.
3. 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 Haileybury system if the free chlorine residual level drops below 0.3 mg/L to ensure primary disinfection is achieved. CT is achieved at the Niven Street Reservoir.

Table 3: Summary of Chlorine Residuals in the Distribution System

Parameter	# of Samples	Range of Results (min to max)	Unit of Measure	Standard
Combined Chlorine Residual	364	0.30 to 2.11	mg/L	≥ 0.25 to ≤ 3.0

Notes:

1. 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.

2. There were three days in March 2025 (March 3, 10 and 13) where distribution samples were collected at the Haileybury Reservoir, which is not a 'distribution sample' location. See *Section 10 - Requirements the System Failed to Meet* for further details.

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	0.3	< 0.01	mg/L	No
April 14	0.4	< 0.01	mg/L	No
July 7	0.8	< 0.01	mg/L	No
October 15	0.40	< 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	59.4	ug/L	Q1 = 66.3	No
April 14	79.1	ug/L	Q2 = 66.8	No
July 7	98.5	ug/L	Q3 = 77.0	No
October 15	103	ug/L	Q4 = 85.0	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	63	ug/L	Q1 = 69.3	No
April 14	29	ug/L	Q2 = 69.5	No
July 7	89	ug/L	Q3 = 72.3	No
October 15	86	ug/L	Q4 = 66.8	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	3	7.25 to 7.41	5.1 to 9.9	29 to 29	N/A
September 8	3	6.94 to 7.05	16.8 to 19.4	35 to 37	N/A

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

The system is required to test for total alkalinity and pH in three distribution samples collected during the period of December 15 to April 15 (winter period) and three 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 not required this reporting period, but was done in 2024. The results ranged from <0.1 to 0.2 ug/L sampled on March 20th and from <0.1 to 0.1 ug/L sampled on September 26th. Next lead sampling is scheduled for 2027.

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	< 0.5	ug/L	10	No	No
Barium	7	ug/L	1000	No	No
Boron	5	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	0.4	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	< 0.261	ug/L	5	No	No

Parameter	Result Value	Unit of Measure	Standard	MAC Exceedance	½ MAC Exceedance
Atrazine + N-dealkylated metobolites	< 0.5	ug/L	5	No	No
Azinphos-methyl	< 0.196	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	< 0.0715	ug/L	5	No	No
Carbaryl	< 0.5	ug/L	90	No	No
Carbofuran	< 0.5	ug/L	90	No	No
Carbon Tetrachloride	< 0.2	ug/L	2	No	No
Chlorpyrifos	< 0.196	ug/L	90	No	No
Diazinon	< 0.196	ug/L	20	No	No
Dicamba	< 0.0625	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	< 3	ug/L	50	No	No
2-4 Dichlorophenol	< 0.2	ug/L	900	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	< 0.268	ug/L	100	No	No
Diclofop-methyl	< 0.0894	ug/L	9	No	No
Dimethoate	< 0.196	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	< 0.196	ug/L	190	No	No
Metolachlor	< 0.131	ug/L	50	No	No

Parameter	Result Value	Unit of Measure	Standard	MAC Exceedance	½ MAC Exceedance
Metribuzin	< 0.131	ug/L	80	No	No
Monochlorobenzene	< 0.5	ug/L	80	No	No
Paraquat	< 0.2	ug/L	10	No	No
Polychlorinated Biphenyls (PCBs)	< 0.05	ug/L	3	No	No
Pentachlorophenol	< 0.3	ug/L	60	No	No
Phorate	< 0.131	ug/L	2	No	No
Picloram	< 0.0625	ug/L	190	No	No
Prometryne	< 0.0654	ug/L	1	No	No
Simazine	< 0.196	ug/L	10	No	No
Terbufos	< 0.131	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	< 0.131	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)	< 4.47	ug/L	100	No	No
Trifluralin	< 0.131	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)*

Parameter	Result Value	Unit of Measure	Standard	MAC Exceedance	½ MAC Exceedance
Benzo(a)pyrene	< 0.01	ug/L	0.01	No	No

Note: Sample date = *October 29, 2025.* An extra treated water sample was taken for benzo(a)pyrene after the laboratory incorrectly reported an exceedance. This sample was collected before the lab withdrew the erroneous high result.

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 17, 2022	1	21.3	mg/L	20	Yes
October 25, 2022 (resample)	1	24.8	mg/L	20	Yes

Note: Sample required every 60 months. Next sampling scheduled for October 2027.

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.

OCWA strives to ensure safe and reliable drinking water to consumers and is committed to meeting the regulatory requirements for sodium. Water is treated as per government regulations and certified operators closely monitor and optimize treatment processes to ensure its compliance. Any exceedances are responded to as per Schedule 16 of Ontario Regulation 170/03 under the Safe Drinking Water Act. Sodium sampling is scheduled for October 2027 and any result above 20 mg/L will be reported to the Ministry of the Environment, Conservation and Parks (MECP) and to the local Health Unit as required under Ontario Regulation 170/03. If elevated levels are detected, appropriate corrective actions will be implemented.

The above adverse sodium result was reported to the Ministry's SAC and the Timiskaming Health Unit on October 25, 2022 as required (AWQI No. 160432).

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 22, 2022	1	< 0.05	mg/L	1.5	No

Note: Sample required every 60 months. Next sampling scheduled for October 2027.

9. Additional Testing Performed in Accordance with a Legal Instrument

1. Nitrosodimethylamine (NDMA)

Condition 5.0 (5.1) of Schedule C to Municipal Drinking Water Licence (MDWL) #218-102 issued on July 23, 2021 requires sampling, testing and monitoring of Nitrosodimethylamine (NDMA). The sample is to be collected each quarter from the farthest point in the distribution system and not exceed the maximum allowable concentration (MAC) of 0.009 ug/L.

Table 12: Summary of NDMA Results

Date of Sample	NDMA Result	Unit of Measure	Exceedance
January 13	< 0.0009	ug/L	No
April 14	0.0045	ug/L	No
July 7	0.0024	ug/L	No
October 15	< 0.0009	ug/L	No

Maximum Allowable Concentration (MAC) for NDMA = 0.009 ug/L.

2. Harmful Algae Bloom Monitoring

Condition 6.0 (6.1) of Schedule C to MDWL No. 218-102 requires a Harmful Algae 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 Haileybury Drinking Water System during the HAB season. The Plan includes visual inspection of the HAB monitoring area at least once per week. Sampling for microcystins on the raw and treated water each week. Reporting to the local Health Unit and the Ministry's Spills Actions Center (SAC) is done if a suspected or occurring bloom is observed or if microcystins are detected in either the raw or treated water samples.

Table 13: Summary of Microcystin Results

Sample Type	# of Samples	*Range of Microcystin* Results *(min to max)*	Unit of Measure	Exceedance
Raw	23	< 0.15 to 0.52	ug/L	No
Treated	23	< 0.15 to 0.16	ug/L	No

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

Four (4) events of suspected and/or confirmed blue green algae blooms were reported to the Medical Officer of Health and the Ministry's SAC during the reporting period.

Incident #1: Detectable Total Microcystins in Raw Water	
Event No.	1-OKC1W
Date	June 9, 2025
Details	Total microcystins were detected in a raw water sample collected on June 9th at 12:14 AM. Result = 0.52 ug/L. The treated water was also sampled on June 9th at 11:10 AM and no microcystins were detected. Result = < 0.15 ug/L. No blooms were observed in the HAB monitoring area.
Corrective Actions	Filtration and disinfection processes were optimized and were closely monitored. Weekly sampling and testing of the raw and treated water continued as per the system's HAB Plan. Visual monitoring of the HAB monitoring area was done daily during the work week. The incident was resolved on July 7th after three consecutive weeks of sampling showed no detectable microcystins and no blue-green algae blooms were observed within the HAB monitoring area

Incident #2: Suspected Observation of a Harmful Algal Bloom

Event No.	1-OSMZGS
Date	July 9, 2025
Details	A suspected harmful algae bloom was observed in the Haileybury HAB monitoring area on the shoreline of Lake Temiskaming. Raw and treated water samples collected July 7th: Raw water = 0.16 ug/L, Treated water = < 0.15 ug/L

Incident #2: Suspected Observation of a Harmful Algal Bloom

Corrective Actions	MECP conducted on-site sampling, and microcystins were not detected (<0.1 µg/L). OCWA conducted weekly sampling of the raw and treated water as per the system's HAB Plan. OCWA performed daily observations of the HAB monitoring area. The incident was resolved once three consecutive weeks of sampling results showed non-detectable microcystins and no signs of visible blue-green algae blooms.

Incident #3: Detectable Total Microcystins in Raw and Treated Water

Event No.	1-PAU7AO
Date	August 8, 2025
Details	Total microcystins were detected in a raw and treated water samples collected on August 5th. Raw water = 0.16 ug/L. Treated water = 0.16 ug/L
Corrective Actions	Weekly sampling of the raw and treated water continued as per the system's HAB Plan. Visual monitoring of the HAB monitoring area was done daily during the work week. The local Health Unit requested 3 sets of samples be collected daily, 24 hours apart and tested for total microcystins until three (3) consecutive sets of results had no detectable microcystins (<0.15 ug/L). The incident was resolved on September 2nd when all samples collected had no detectable microcystins and no blue-green algae blooms were observed in the monitoring area.

Incident #4: Observation of a Suspected Harmful Algal Bloom

Event No.	1-PJF1YS
Date	September 23, 2025

Incident #4: Observation of a Suspected Harmful Algal Bloom

Details	A suspected harmful algae bloom was observed on the Lake Temiskaming shoreline. Raw and treated samples were collected on September 22nd and both results were <0.15 ug/L.
Corrective Actions	Daily sampling and testing of the raw and treated water occurred until 3 consecutive sets of results were non-detectable for microcystins. OCWA performed daily observations of the HAB monitoring area. Weekly sampling and testing of the raw and treated water continued as per the HAB Plan. The incident was resolved on October 7th after all results were non- detectable for microcystins and no blue-green algae blooms observed in the monitoring area.

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 Haileybury Drinking Water System failed to meet the following regulatory requirements set out in the above mentioned legal instruments.

Table 14: Requirements the System Failed to Meet

Legislation	Requirement(s) not Met	Duration	Corrective Action(s)
Schedule 7 of O. Regulation 170/03	Secondary disinfectant residual was not tested as required for the large municipal residential distribution system. There were three days in March 2025 (March 3, 10 and 13) where the requirements of section 7-2(4) of Schedule 7 of O. Reg. 170/03 were not met because one of the intended distribution samples was collected at the Haileybury Reservoir, which is not a 'distribution sample' location.	March 3, 10 and 13, 2025	Refresher training was held with all operators on February 4th and 11th. Enhanced sampling program was implemented by increasing the number of weekly distribution bacteriological samples from 3 to 4 so that chlorine residuals are collected from 4 distribution sites each week. A label was installed on the reservoir sample tap to clearly indicate that it is a POE sample location and not a distribution sampling point. The Distribution Chorine Residual Sheet was updated to include an “important note” stating that the reservoir is not a distribution sample location.

Also noted in this section, One (1) adverse water quality incident was also 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 5 of this report for details.

11. Summary of Quantities and Flow Rates

11.1 Flow Monitoring

Municipal Drinking Water Licence (MDWL) #218-102 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) #P-300-1067513491 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 Haileybury drinking water system has one flow meter to monitor the raw water entering the treatment plant and one to monitor the treated water leaving the plant and entering an off-site reservoir. 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 Permit to Take Water (PTTW) No. P-300-1067513491 allows the plant to withdraw a maximum volume of 6816 cubic meters from Lake Temiskaming 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 3632 m^3.

The Permit also allows a maximum flow rate of 4733 L/minute which was not exceeded during the reporting period having a maximum flow rate of 4507 L/minute.

Condition 1.0 (1.1) to Schedule C of MDWL No. 218-102 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 6820 m^3 on any calendar day. The Haileybury DWS complied with this limit having a recorded maximum volume of 3560 m^3/day, which is 52% of the rated capacity.

Table 15 and Table 16 provide 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 1 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 17 lists historical maximum raw and treated flows from 2016 to 2025.

Table 15: 2025 – Monthly Summary of Water Takings from the Source (Lake Temiskaming)

Regulated by Permit to Take Water (PTTW) #P-300-1067513491, issued February 13, 2020

Lake Temiskaming	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Total Volume (m^3)	71219	73136	79823	64999	68689	72003	74063	80470	74377	75765	65598	68085	868227
Average Volume (m^3/d)	2297	2612	2575	2167	2216	2400	2389	2596	2479	2444	2187	2196	2380
Maximum Volume (m^3/d)	2466	2896	2960	2516	2464	2925	3632	2933	3536	2948	2537	2348	3632
PTTW - Maximum Allowable Volume (m^3/day)	6816	6816	6816	6816	6816	6816	6816	6816	6816	6816	6816	6816	6816
Maximum Flow Rate (L/min)	2774	3348	3756	4395	2957	3261	4001	4507	4507	4139	3962	3912	4507
PTTW - Maximum Allowable Flow Rate (L/min)	4733	4733	4733	4733	4733	4733	4733	4733	4733	4733	4733	4733	4733

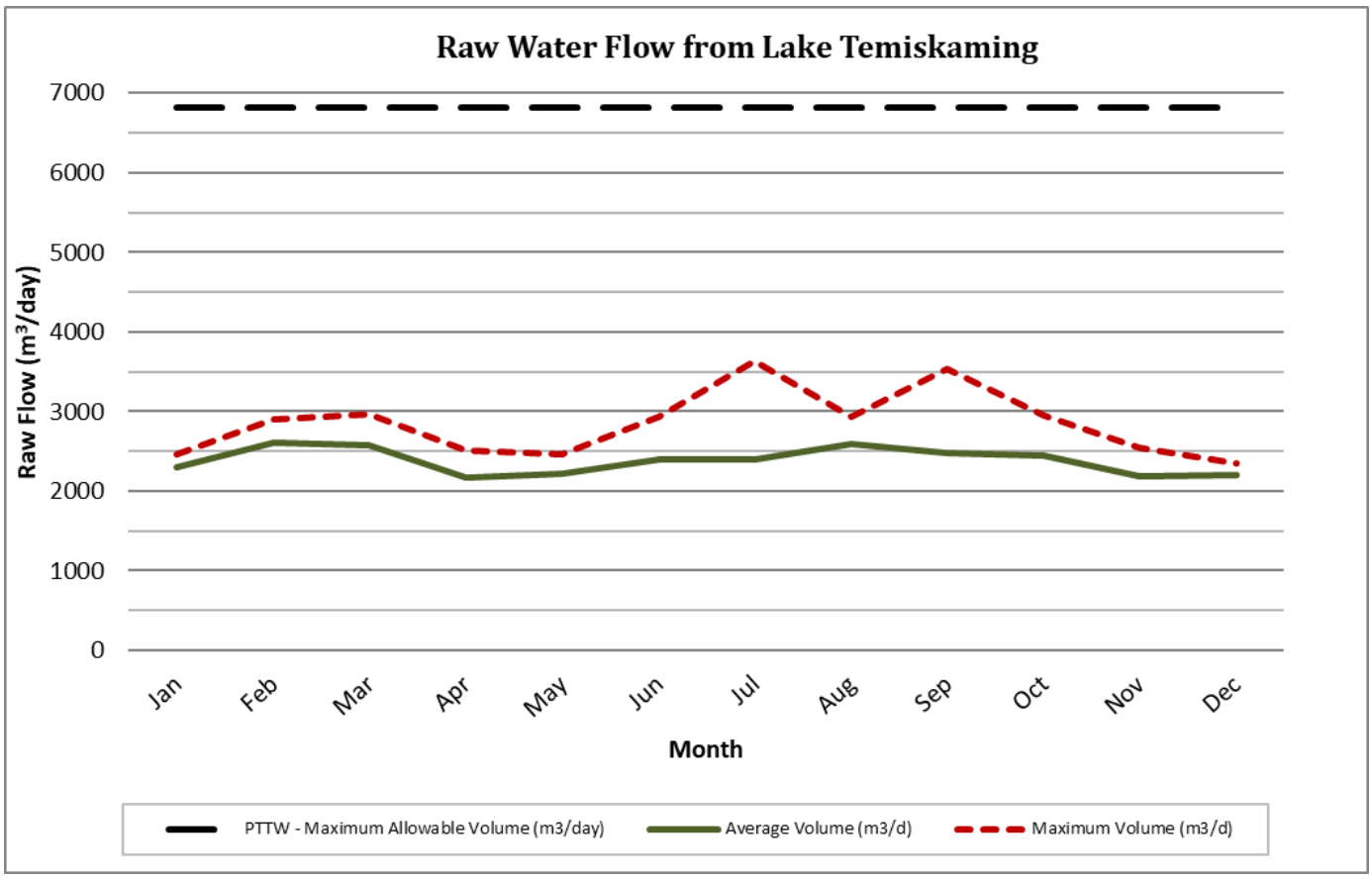

Figure 1: Comparison of Raw Water Flows to the Maximum Allowable Water Taking

Table 16: 2025 – Monthly Summary of Treated Water Supplied to the Distribution System

Regulated by Municipal Drinking Water Licence (MDWL) #218-102-3, issued July 23, 2021

Treatment Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Total Volume (m^3)	67865	69880	74562	60992	64934	68288	69183	75972	69665	70993	61556	64216	818106
Average Volume (m^3/d)	2189	2496	2405	2033	2095	2276	2232	2451	2322	2290	2052	2071	2243
Maximum Volume (m^3/d)	2303	2846	2887	2161	2288	2802	3376	2738	3560	2693	2291	2262	3560
MDWL - Rated Capacity (m^3/day)	6820	6820	6820	6820	6820	6820	6820	6820	6820	6820	6820	6820	6820

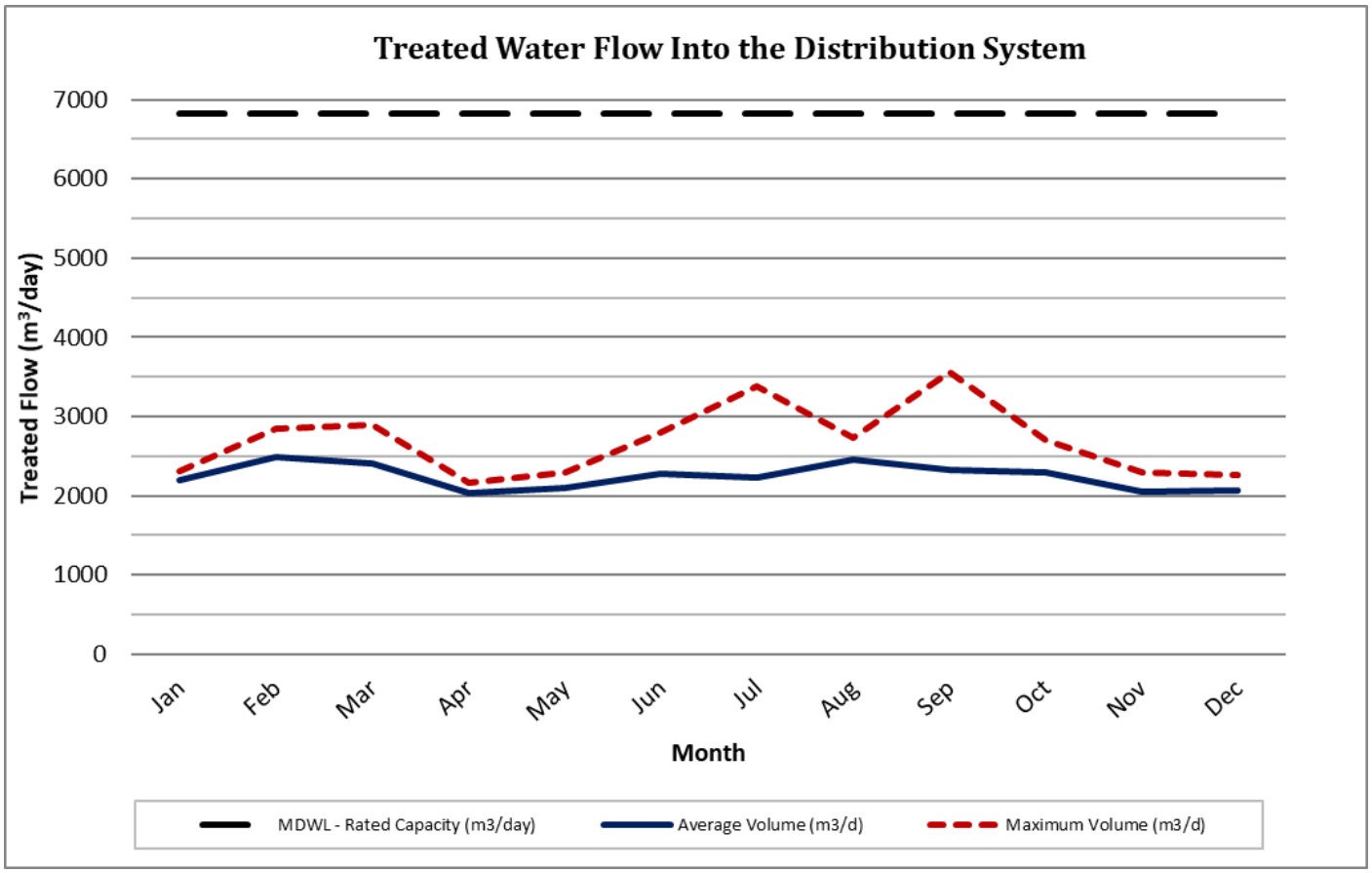

Figure 2: Comparison of Treated Flows to the Maximum Rated Capacity

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)	6820 m^3/day	
Average Daily Flow for 2025	2243 m^3/day	33 % of the rated capacity
Maximum Daily Flow for 2025	3560 m^3/day	52 % of the rated capacity
Total Treated Water Produced in 2025	818,107 m^3	

Table 17: 2025 – Historical Maximum Flows (2016 to 2025)

Year	Maximum Raw Flow (m^3/d)	Max. Day % of PTTW Allowable (6816 m3/d)	Maximum Treated Flow (m^3/d)	Max. Day % of MDWL Capacity (6820 m^3/d)
2025	3632	53%	3560	52%
2024	3318	49%	3114	46%
2023	3561	52%	2969	44%
2022	4088	60%	3836	56%
2021	3487	51%	3372	49%
2020	3788	56%	3565	52%
2019	4154	61%	3486	51%
2018	4427	65%	4220	62%
2017	3366	49%	2722	40%
2016	3677	54%	3446	51%

Conclusion

The water quality data collected in 2025 demonstrates that the Haileybury 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 Municipal Drinking Water Licence while meeting the community's demand for water use.

Any non-compliances identified during the reporting period were addressed promptly. All Adverse Water Quality Incidents and related events that occurred during the

reporting period were responded to and reported as per Schedule 16 of Ontario Regulation 170/03 under the Safe Drinking Water Act. All corrective actions were implemented, and the incidents were resolved as quickly as possible.

APPENDIX A

Major Maintenance and Capital Expenditures

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM
Report End Date: Dec 31, 2025 11:59 PM
Location: 5752*
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
4334059			5752, Haileybury WTP	CAP	Compliance	0		Temiskaming Shores Lab Analysis 5752	COMP		1/13/26 01:15 PM	1/13/26 01:15 PM	
4334062			5752, Haileybury WTP	CAP	Refurbish/ Replace/Repair	0		Haileybury WTP Chemicals 5752	COMP		1/13/26 01:16 PM	1/13/26 01:16 PM	
4336132			5752, Haileybury Reservoir	CORR	Refurbish/ Replace/Repair	0		Reservoir Pump number 1 5752	CLOSE		1/15/25 02:19 PM	1/15/25 02:19 PM	- Troubleshoot no cabinet fan operation on number one duty pump. Shut pump down for now until new fans are installed.
4337035			5752, Haileybury Reservoir	CAP	Refurbish/ Replace/Repair	0		Troubleshoot Blown Fuses on Pump 3 Hail Res 5752	CLOSE		3/27/25 09:23 AM	3/27/25 09:23 AM	
4379784			5752, Haileybury WTP, Facility	CORR	Refurbish/ Replace/Repair	0		Replace Filter 1 and 2 turbidimeter controller 5752	CLOSE		2/13/25 01:45 PM	2/13/25 01:45 PM	- Replace filter 1 and 2 turbidity controller due to a suspected faulty output card. Upgraded to a sc4500 from a sc200.
4380176			5752, Haileybury Reservoir	CORR	Refurbish/ Replace/Repair	0		replace cabinet fan in no 1 High Lift drive 5752 Hail Res	CLOSE		2/13/25 01:17 PM	2/13/25 01:17 PM	- Remove the one working fan from fried drive no 3 and replace into drive no 1. Now the drive will run with some cabinet cooling. - New fans are on order, waiting for budget approval.
4382259			5752, Haileybury WTP	CAP	Refurbish/ Replace/Repair	0		CL-17 PM Kits TemShores 5752	CLOSE		5/7/25 10:45 AM	5/7/25 10:45 AM	Order Parts -
4382261			5752, Haileybury WTP	CAP	Refurbish/ Replace/Repair	0		Rebuild 2 Failed Chlorine Gas Bottle Mounts with PM Kits 5752	CLOSE		4/9/25 07:27 AM	4/9/25 07:27 AM	
4382265			5752, Haileybury WTP	CAP	Refurbish/ Replace/Repair	0		Replace Failed Air Relief on LL#3 5752	CLOSE		3/27/25 12:17 PM	3/27/25 12:17 PM	Replace Failed Air Relief on LL#3 5752 -Locked out low lift. Removed old air relief. Installed new air relief with new teflon tape. Tested the low lift and verified air relief was no loner leaking.
4382272			5752, Haileybury WTP	CAP	Refurbish/ Replace/Repair	0		Replace Failed VFD Cooling Fans 5752	CLOSE		3/25/25 03:04 PM	3/25/25 03:04 PM	
4382292			5752, Haileybury WTP	CAP	Refurbish/ Replace/Repair	0		Install and Calibrate 2 Low Temp Alarms Hail Rez 5752	CLOSE		9/25/25 12:36 PM	9/25/25 12:36 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
4382311			5752, Haileybury Reservoir	CAP	Refurbish/ Replace/Repair	0		Replace Aging Ammonium Sulfate Pumps 5752	CLOSE		3/25/25 03:05 PM	3/25/25 03:05 PM	- Help Marc replace ammonium pumps at reservoir.
4382621			5752, Haileybury WTP	CAP	Refurbish/ Replace/Repair	0		Test and Certify Tem Shores Backflow Preventers 5752	COMP		11/4/25 12:16 PM	11/4/25 12:16 PM	Tested - Tested backflow preventer at Dymond Res. No succes, test ports are leaking, shut off valve #1 has no stopper. Tested both backflow preventers at North Cobalt Lagoon. Serial #070942 RP will not open and check #2 is leaking. RP with serial #070941 passed, I tagged it and completed the test inspection report Test and Certify Tem Shores Backflow Preventers 5752 - Tested Gray Rd. SPS backflow preventer and passed inspection. Tested Station St. SPS backflow preventer and passed inspection. Attached are the inspection report for both backflow preventers. Tested and Certified -Tested and certified the backflow preventer at Haileybury Reservoir. See attached test inspection form.
4382622			5752, Haileybury Reservoir	CAP	Refurbish/ Replace/Repair	0		Replace Failed Air Relief On Main Header In Basement at Rez 5752	CLOSE		7/29/25 08:28 AM	7/29/25 08:28 AM	- Work with Marc to replace air relief valve on main pipe coming up to reservoir. Valve is located in basement.
4382623			5752, Haileybury Reservoir	CAP	Refurbish/ Replace/Repair	0		Replace Failing Turbidity Analyzer Rez 5752	CLOSE		5/7/25 01:07 PM	5/7/25 01:07 PM	- Remove old turbidimeter and take to lagoon. Install new TU5300 and set up in scada system, run new analogue wiring and sample plumbing. Build a new PM in maximo for monthly and quarterly WOs.

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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
4424124			5752, Haileybury WTP, Process, Filtration	CORR	Predictive Maintenance	0		Filter 3 High Turbidity	CLOSE		3/18/25 03:19 PM	3/18/25 03:19 PM	Filter 3 High Turbidity Issue -This work order was completed on March 5/25. Turned Filter 3 off and cleaned the turbidity analyzer and then re-started the filter after completion of the work.
4424943			5752, Haileybury Reservoir	EMER	Refurbish/ Replace/Repair	0		Troubleshoot Haileybury Reservoir low pH issue and replaced defective pH probe with new probe	CLOSE		3/7/25 07:23 PM	3/7/25 07:23 PM	-Was called by the operator to investigate a low/fluctuating pH level at the Haileybury Reservoir. Once onsite I attempted to calibrate the pH probe and it passed. I then placed it back into the process and allowed it to stabilize. I then identified that the probe calibration had drifted therefore calibrated the probe a second time. After stabilization it drifted again and it was decided to replace the probe. The new probe was calibrated and placed into the process with no issues.
4426787			5752, Haileybury WTP	CAP	Refurbish/ Replace/Repair	0		Replace Faulty PH Probe 5752	CLOSE		4/9/25 08:37 AM	4/9/25 08:37 AM	
4426793			5752, Haileybury WTP	CAP	Refurbish/ Replace/Repair	0		Replace Aging Filter Turbidity Analyzers 5752	CLOSE		4/29/25 12:01 PM	4/29/25 12:01 PM	Ordered Parts -
4426794			5752, Haileybury WTP	CAP	Refurbish/ Replace/Repair	0		Replace Failing Agning Alum Pumps 5752	CLOSE		4/25/25 02:53 PM	4/25/25 02:53 PM	- Figure out wiring for the pumps as they do not function in quite the same manner as the old ones. The new ones need to be powered all of the time. Find cables as the new ones did not come with control cables. Check ml/min and set up and install pump no. 2

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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
4428240			5752, Haileybury WTP, Process	CAP	Refurbish/ Replace/Repair	0		Hail WTP Floc tanks and Mud Valve Repair 5752	CLOSE		5/13/25 07:59 AM	5/13/25 07:59 AM	Drain FlocTank #2/ Mud valve cleaning - Followed Procedure for draining Floc Tank #2 with Danny; Turned off High Lifts / Low lifts. Reduced Raw flow from 40 l/s to 30 l/s. Put the desludge valve in manual off closed position. Closed the mud valves on floc tank #1. Keep the mud valves open on floc tank #2. Locked out the flow mixer for floc tank #2. Attached the poly line that feeds floc tank #2 to direct the poly to floc tank #1 to keep the proper chemical dosage. Closed the Intake valve to floc tank #2. Turn the sedimentation tank rake to manual on to pull more sludge out of the floc tank. Prime poly pumps 3 and 4 to fill the temporary poly line to avoid a process upset. Put the pH probe for floc tank #1 in a pet bottle with water to keep it wet. Cleaned out the sedimentation hopper valves with Chris Barkhouse

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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
													Floc Tank #2 Maintenance/ Process adjustments - Completed Floc Mixer paddle repairs in Floc Tank #2 with Chris and Cassie Putting Floc Tank #2 back online; Correct Time @ 1036 Set Sedimentation Rake and desludge valve into auto. Opened up Mud valves on Tank 1&2. Turned off Low lifts and High lifts. Took lock/ tags of Floc Mixer #2 in MCC room. Redirected the poly line from #1 tank, flowing into #2 tank. Opened up Floc intake valve # 2 and closed off Floc intake valve # 1 to help increase the fill rate on tank #2. Turned Low lifts and High lifts back on, with the raw flows up to 50L/ s. Adjusted Post Soda and Chlorine k-factor dosages to 0.02. Sedimentation tanks noticed to be dropping due to mud valves and the auto delsudge valve opening. removed the polyline directing from Floc tank #1 into #2. Re-opened up Floc intake valve #1 to start filling up both tanks. As the water level started to

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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
													hit the top troughs in the sedimentation tanks, I decreased the Raw flow from 50 L/s to 35 L/s, I adjusted the chlorine dosage k-factors from 0.02 to 0.79 and Post soda ash pumps from 0.02 to 0.64. Once I started seeing flow in the filters, I set the High Lifts back into Auto. Set Start and Stop limits for Low lift pump #1 and #2; #1 Start 1.8m, Stop 2.0m. #2 Start 1.6m, Stop 2.0m Floc Tank #2 Chain Drive Troubleshoot -Assisted Chris with troubleshooting the Chain Drive as the belts were slipping and the chain was no longer moving. Locked out the chain drive, Chris reversed the wires, and the flow mixer ran properly in reverse. This indicated something may have been jamming the chain while turning in proper direction. Repairs were made. Marc and I put the plant back to normal operation.

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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
													Floc Tank #2 Wood Paddle Maintenance - Completed maintenance with Chris Barkhouse on Floc Tank #2 wood paddles. Once Job was complete, High Lift set into Manual. Set Low lift #1 to manual off. Closed Floc tank #1 Inlet valve. Chlorine dosage changed from 0.79 to 0.02. Post Soda ash dosage changed from 0.64 to 0.02. Directed Polymer line from floc tank #1 into #2. Set Low lift #1 to auto on to start filling Floc Tank #2. - Drain no 1 floc tank and inspect/ repair mud valve and paddles - Apr 14 Finish repairing floc tank paddles
4429333		5752, Haileybury WTP		CAP	Refurbish/ Replace/Repair	0		Spare Pace to Flow Chlorinator 5752	CLOSE	9/8/25 12:14 PM	9/8/25 12:14 PM		Ordered Parts -
4464458		5752, Haileybury WTP, Process		CAP	Refurbish/ Replace/Repair	0		Relocate and install heat trace on Post Soda Ash Lines 5752	CLOSE	7/17/25 09:32 AM	7/17/25 09:32 AM		

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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
4487867			5752, Haileybury WTP, Process	CAP	Refurbish/ Replace/Repair	0		Filter Valve 1,2,3 Solenoid Panels 5752	CLOSE		10/7/25 03:38 PM	10/7/25 03:38 PM	-Get set up, go buy bolts and strut. Install filter three panel. -Install rack for panels 1 and 2 but run out of unistrut parts. Discount should have them in on Wed. -Finished up number two filter panel and continued on filter one. -Completed connection of no. 1 filter panel and clean up
4487964	0000293667	ANALYZER CHLORINE PORTABLE BRYCE	5752, Haileybury WTP	CAP	Refurbish/ Replace/Repair	0		Install Replacement Filter Turb Analyzers WTP	CLOSE		5/9/25 08:52 AM	5/9/25 08:52 AM	- Make room to replace old turbidimeters. Old lighting conduit has fallen down and has to be removed. Re wire light as conduit is no longer there. Start installation of guide rails for new turbidity sample lines. - For May 8, Remove old 1720E turbidimeters and install three new TU5300 Hach units. Run new sample lines to units. Run filters in manual until meters stabilized and then reset all alarms and put online.
4609142			5752, Haileybury WTP	CAP	Compliance	0		NL And Hail MDWL Renewal 5752	BUSCOMP		12/16/25 10:02 AM	12/31/25 12:24 PM	

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4661058			5752, Haileybury WTP, Facility	CAP	Refurbish/ Replace/Repair	0		Emergency Repair # 2 Floc tank Broken Paddles and Belts 5752	CLOSE		7/30/25 01:40 PM	7/30/25 01:40 PM	Floc Motor #2 repairs -Performing maintenance on Floc mixing motor with Chris Barkhouse. The belts were worn off and wasn't turning the paddles. Need to order the right size belts for the motor. Isolated #2 floc tank intake valve, directed poly line from #2 into #1, closed #2 mud valves and locked out the floc motor in MCC with Chris. Emergency Repair # 2 Floc tank Broken Paddles and Belts - -Assist Trevor in repairing broken floc tank paddles and drive belts.

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4662520			5752, Haileybury Reservoir	CAP	Refurbish/ Replace/Repair	0		Hail Rez Number 4 Pump Failure 5752	CLOSE		7/30/25 01:37 PM	7/30/25 01:37 PM	Hail Rez Number 4 Pump Failure 5752 - Hail Rez Number 4 Pump Failure 5752 -Stayed on site while Andy Lachapelle from Lisand wired drive #4 to pump 3 to have a 3rd pump in case of emergency. I tested the pump once he was done in manual and increased the operation by 10% increments to not surge the system. Pump was operating good. I put pump 1 and 2 in manual off and switched pump 4 to auto to let it run on its own and the pressure maintained at around 57.5psi. I put pump 1 and 2 back to auto and shut pump 4 down to let pump 1 start up and be the primary pump to run
4663467			5752, Haileybury WTP	CAP	Refurbish/ Replace/Repair	0		Hail WTP FLoc Drive Assemblie replacement 5752	BUSCOMP	11/25/25 12:11 PM	12/2/25 09:45 AM		
4707863			5752, Haileybury Reservoir	CAP	Refurbish/ Replace/Repair	0		Pull HL 4 pump Assiste with new VFD Install Hail rez 5752	BUSCOMP	12/10/25 01:49 PM	12/19/25 03:22 PM		Pull and re install HL 4 pump Hail rez 5752 -Stayed on site while Sarah from Nor Arc operated the crane to remove pump 4 from the building. Al, Jamie and Dave from Xylem were on site to assist removing the pump as well. I covered the whole where the pump was with plywood and put a cap on the pipe

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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
4709058			5752, Haileybury WTP, Facility	CAP	Refurbish/ Replace/Repair	0		Load Cell no.2 Chlorine Cylinder Replace 5752	CLOSE		8/12/25 09:04 AM	8/12/25 09:04 AM	-Replace load cell on no. 2 chlorine scale and adjust.
4709594	0000293657	ANALYZER PH 01 PROCESS	5752, Haileybury WTP, Process	CORR	Calibration	0		Process #1 pH probe calibration verification	CLOSE		8/15/25 07:48 AM	8/15/25 07:48 AM	Process #1 pH probe calibration verification - performed a calibration due to the process pH value behind inaccurate. Calibration report can be found on the shared drive.
4709597			5752, Haileybury WTP, Process, Process Controls	CORR	Calibration	0		Process pH #2 calibration verification	CLOSE		8/15/25 07:52 AM	8/15/25 07:52 AM	Process pH #2 calibration verification - performed calibration verification calibration record can be found on the shared drive.
4709599	0000293667	ANALYZER CHLORINE PORTABLE BRYCE	5752, Haileybury WTP	CORR	Calibration	0		lab pH probe calibration verification	CLOSE		8/15/25 07:57 AM	8/15/25 07:57 AM	lab pH probe calibration verification - performed calibration verification record can be found on the shared drive.
4711670	0000293667	ANALYZER CHLORINE PORTABLE BRYCE	5752, Haileybury WTP	CAP	Compliance	0		Lakeview AWQI 169605 5752	CLOSE		9/5/25 10:29 AM	9/5/25 10:29 AM	Lakeview AWQI 169605 5752 -Provided lab reports to the local Health Unit to lift the BWA in North Cobalt. Prepared and submitted the resolution report to SAC, MOH, MECP and the Owner. Completed the BWA/DWA form and Incident Summary.
4762447			5752, Haileybury WTP	CAP	Compliance	0		Tem-Shores On Site Audit 5752-6211	COMP		10/30/25 06:48 AM	10/30/25 06:48 AM	Tem-Shores On Site Audit 5752-6211 -External Audit completed on August 21, 2025

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Location: 5752*
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
4762826			5752, Haileybury WTP	CORR	Calibration	0		Hach pH process #1 verification and calibration at Hai WTP, 5752	CLOSE		9/19/25 03:09 PM	9/19/25 03:09 PM	Hach pH process #1 verification and calibration at Hai WTP, 5752 - Completed verification using pH buffer 4.01 and 7.00 and 1 point calibration for each as they both have drifted. Recommendation that the probe be replaced. As found: 3.84 As left: 3.99 As found: 6.76 As left: 7.01

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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
4764132			5752, Haileybury Reservoir	CAP	Refurbish/ Replace/Repair	0		Hail Rez Failed Analog input Card	CLOSE		9/30/25 09:33 AM	9/30/25 09:33 AM	Call In - Low Pump Chamber Level at Hai Res - Called in for major alarm at Hai Res. Logged in remotely and low pump chamber level below 2.13m. Drove to Hai WTP and pump chambers level at 2.11m therefore completed CT which passed and a worst case scenario. Changed high lifts set point from 3.25m to 3.33m to start up high lift and put the other in manual on to feed water to the pump chambers. According to SCADA, Reservoir No. 3 level was 3.33m therefore it was not calling for water. Checked trends and water plant stop making water at 5:54:30 AM on Sep 25. Checked trends for Reservoir No. 3 LIT01 and it flatlined on Sept 24 at 12:30:02AM which is why it did not call for water because the level never dropped. Changed low lift setpoints duty #2 start from 1.20 to 1.40 and stop 1.40 to 1.60 so flow coming in and out are alike. Level started to increase in pump chambers. Droved to Hai

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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
													Res and the LIT controller displayed a level of 1.89m and SCADA showing 3.33m therefore there is an issue with the signal. Drove back to Hai WTP and everything is stable and monitoring level. I will discuss with Marc once he arrives.

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Location: 5752*
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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
													Call In- High Level Filter Alarm at Hai WTP Sept 27 -Called in at Hai WTP. Logged in remotely and filter alarm. Drove to site and all filters were functionning. The alarm history is no longer working. I will email Peter. Able to find high filter #1 anf #2 level alarm in “Alarm Log Viewer” . Reviewed trends and Filter #2 had just completed a backwash then Filter #1. Got a surge tank alarm while in filter to waste turbidity cycle. Filter #1 and #2 will have to be staggered once the plant is stable again. Lowered the raw flow rate from 55 L/s to 45L/s because the Res. No. 3 is full and keeping up and likely why the filters got high level. All three filters are functionning and Filter 3 is due to backwash in approx 3 hours. Changed the high lifts setpoints from 3.25 to 3.10 to allow the WTP clearwell to fill up. Process pH is 6.05. Increased alum from 0.74 to 0.75.

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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
													Called In- Filter Alarm at Hai WTP Sept 17 -Called in for Filter #3 because it was stuck in filter to waste because NTU was above 1. Drove to site and surge tank was full therefore manually shutdown Filter#3. Filter #1 and #2 functioning. Reviewed trends and the filter spiked aboved 0.600 NTU at the start of the backwash and decreased during settling stage and spiked aboved 1 NTU during filter to waste turbidity. Cleaned the filter turbidity analyzer by flushing distilled because there was a significant amount of media in the vial. Once cleaned the NTU decreased and was able to put the filter back in auto finished the cycle. The surge tank alarm re -initiated at the end but the filter was back in service. Alum and pre soda was increased on Friday but the plant ran for apporx. 17 hours straight on Saturday causing some issues with filters. Decreased chlorine kfactor from 0.88 to 0.2 and post soda from 0.76 to 0.22 because it increased while Filter #3 was stuck in filter to waste. Remaining onsite till plant is stable.

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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
4814322	0000293667	ANALYZER CHLORINE PORTABLE BRYCE	5752, Haileybury WTP	CAP	Refurbish/ Replace/Repair	0		Morissette Watermain Break Oct 03 5752	CLOSE		10/6/25 03:42 PM	10/6/25 03:42 PM	Rorke Watermain Break Oct 03 5752 -At 1442 I was notified by the ORO of a water main break on the high pressure side of distribution. I drove to site to inspect break and come up with a plan to avoid having no pressure in the main. We decided to close the gate valve on zone 2/3 to reduce the flow from 55L/s to approx 25-30L/s. The town guys (Mackenzie, Jeremy, Tia) reduced the flow by isolating certain sections that were feeding Morissette Dr. (Location of break) along with opening 5 hydrants. Once they started to dig, a couple of pumps were set up to remove the water from the hole while still maintaining lots of pressure. Once the break was exposed, I put 2 high lifts in manual off due to the pressure continuously going up and down and controlled the distribution flow/pressure by putting the last high lift in manual and slowly decreasing the operation from 100% down to 15%. The distribution pressure never went below 5 psi and flow was still 21L/s. This was enough reduction that they could put a Himax clamp on the break without shutting the main off. Once

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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
													the clamp was put on, they reopened all distribution valves, closed 4 out of 5 hydrants and refilled the hole. I went back to the res to slowly increase the flow rate and pressure in the main. I slowly increased the high lift manual operation from 15% to 50%, slowly reopened the gate valve for zone 2/3. Once the pressure got to 40psi, it was holding stable and I was able to slowly continue increasing the pump operation from 50% to 95%, once the gate valve was fully opened, and put the pump back to auto. I let it stabilize for a few minutes and put the other 2 high lifts back to auto. I confirmed with Mackenzie that everything was back to normal operation, everything was good at the break and a residual was taken from the hydrant and got a combined residual of 1.30mg/L Rorke Watermain Break Oct 03 5752 -Drove to site to assist break on Rorke. The town was not able to throttle down therefore drove to Hai Res with Bryce and Shannen. Throttled down Zone 2/3 gate valve and monitor flows until the town could isolate.

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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
4815639			5752, Haileybury WTP, Facility	CAP	Compliance	0		Hail WTP Extra HAB Sampling 5752	COMP		11/4/25 08:50 AM	11/4/25 08:50 AM	Hail WTP Extra HAB Sampling 5752 - Sept. 23 - Verbally reported a suspected HAB located on the shores of Lake Temiskaming in front of the Haileybury WTP to MOH and SAC (SAC Event No. 1-PJF1YS). Bloom observed by Mark Ziller. Prepared and submitted a written notification to MOH, SAC, local MECP and Owner Oct 7 - completed and submitted the resolution report to MOH, SAC, local MECP and Owner.
4818200	0000293667	ANALYZER CHLORINE PORTABLE BRYCE	5752, Haileybury WTP	CAP	Refurbish/ Replace/Repair	0		Replace Failed Process PH Probe 5752	BUSCOMP		12/17/25 10:26 AM	12/31/25 12:24 PM	
4860831	0000293667	ANALYZER CHLORINE PORTABLE BRYCE	5752, Haileybury WTP	CAP	Refurbish/ Replace/Repair	0		Replace Old CL-17 Feed Water Pump Head and Purchase a Spare 5752	BUSCOMP		12/15/25 11:22 AM	12/19/25 03:34 PM	
4860833	0000293667	ANALYZER CHLORINE PORTABLE BRYCE	5752, Haileybury WTP	CAP	Refurbish/ Replace/Repair	0		PM Kit Replacement on Air Dryer System 5752	BUSCOMP		11/18/25 01:44 PM	11/27/25 11:09 AM	PM Kit Replacement on Air Dryer System 5752 -Took air dryer out of service and isolated. Depressurized the dryer before diassembling. Removed old air filter. Cleaned the bowl before inserting new filter. Greased o-rings with NSF grease. Put back together, slowly repressurized and put back online. Everything seems to be operating as normal PM Kit Replacement on Air Dryer System 5752 - Removed old air filter and replaced with new one Sealed and observed for leaks - none apparent operating as intended

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Work Order Type: CAP,CORR,EMER
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
4860834	0000293667	ANALYZER CHLORINE PORTABLE BRYCE	5752, Haileybury WTP	CAP	Refurbish/ Replace/Repair	0		Replace Failed Lifting Chain on #2 Pump at Cedar SPS 6212	BUSCOMP		11/24/25 10:37 AM	11/27/25 11:10 AM	Replace Failed Lifting Chain on #2 Pump at Cedar SPS 6212 -Pumped down wet well with the pumps. Lifted pump 1 up with the hoist and put a new chain on it. Checked pump 2 and the chain looks to be in good condition
4862359			5752, Haileybury WTP, Facility	CORR	Compliance	0		Haiileybury DWS - AWQI 170571 (Benzo(a)pyrene) - 5752	COMP		11/6/25 01:00 PM	11/6/25 02:00 PM	Haiileybury DWS - AWQI 170571 (Benzo(a)pyrene) - 5752 -Resolved AWQI 170571 for benzo(a)pyrene exceedance which was rescinded due to lab error.
4862806			5752, Haileybury Reservoir	CORR	Refurbish/ Replace/Repair	0		Intrusion System issue with Ammonium door at Hail Rez 5752	COMP		11/14/25 07:38 AM	11/14/25 07:38 AM	-The ammonium door was not activating within the building intrusion system. To resolve the issue, the door magnet was replaced and the program reinstalled. The door was then tested and confirmed to function correctly, triggering an alarm if opened without the system being disarmed.

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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
4864537	0000293667	ANALYZER CHLORINE PORTABLE BRYCE	5752, Haileybury WTP	CAP	Refurbish/ Replace/Repair	0		Emergency Repair #2 Floc Tank 5752	BUSCOMP		12/8/25 03:21 PM	12/19/25 03:21 PM	-Assist in floc tank repair. Emergency Repair #2 Floc Tank 5752 - During Hlby WTP rounds found two sets of floc paddles in floc tank 2 not turning. Paddles attached directly to drive operating fine. Participated in tailgate meeting and assisted throughout the repair process. Isolated tank to drain, found sprocket powering additional paddles had lost a bolt and was slipping off the key. Tightened and/ or replaced all 4 bolts on the sprocket. Tested okay.

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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
													Emergency Repair #2 Floc Tank 5752 -Completed in-house lab on Process Alkalinity, turb, Treated temp and Floc drive checks. Noticed Floc Tank #2 drive was turning only 1 axel because the chain sprocket had came loose and off the key notch. The sprocket was loose and unable to spin the other paddles. Followed the Floc Tank Isolation & Refilling SOP to drain Floc Tank #2 while running with Floc Tank #1. Completed Tailgate Meeting Form. Performed work on the Chain sprocket and replaced new Bolts, Nuts and washers and fastened that sprocket onto the axel with the key notch. Tested the floc drive in Hand and all axles/paddles are moving again properly. Running plant with Floc Tank #1 for the night while Floc Tank #2 remains isolated.

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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
													Refilling #2 Floc Tank 5752 -Put HL & LL in Manual off, opened up all mud valves and allowed the floc in tank 1 to transfer into tank 2 and level out. Re-opened Raw inlet valve to floc tank 2, removed lock/tags for Floc Drive #2, Turned on plant with raw flow set at 45 L/s, and both floc tanks to fill at same rate. HL remained in Manual off till plant start filling clearwells. Process alkalinity is still low at 13. Floc tanks filled - set HL back into auto, set sedimentation Tank Rake and Desludge Valve to Auto. Adjusted Alum dosage k-factor to help process - 0.74 to 0.75. Adjusted Pre Soda ash dosage k-factor to help process ph increase - 0.37 to 0.40.
4908144	0000293667	ANALYZER CHLORINE PORTABLE BRYCE	5752, Haileybury WTP	CAP	Refurbish/ Replace/Repair	0		Recharge Air Dryer Refrigerant 5752	BUSCOMP	12/29/25 09:19 AM		12/31/25 12:23 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
4909048			5752, Haileybury Reservoir	CORR	Refurbish/ Replace/Repair	0		Troubleshoot Ammonia Pump #2 at Haileybury Reservoir 5752	COMP		1/2/26 09:46 AM	1/2/26 09:46 AM	Troubleshoot Ammonia Pump #2 at Haileybury Reservoir 5752 -Ammonia pump 2 was tripped again this morning. As I was on site I noticed a slight leak at the top check valve. Took it apart and cleaned it and put it back together. No leaks after I put it back together. Will check on it again tomorrow
4909111			5752, Haileybury Reservoir	CORR	Refurbish/ Replace/Repair	0		Replace diaphragm on Ammonium pump number 2	COMP		12/17/25 09:29 AM	12/17/25 09:29 AM	Replace diaphragm on Ammonium pump number 2 -Took apart pump for inspection due to faults and pumping issues. Noticed some minor cracks in the diaphragm and replaced. Also cleaned the pump thoroughly. Returned to service and tested for proper operation.

APPENDIX B

Monthly Summary of Microbiological & Operational Test Results

Raw Water

Lake Timiskaming	Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	2025 Total	2025 Avg	2025 Max	2025 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	4.00	2.00	14.00	4.00	6.00	2.00	2.00	2.00	14.00	24.00	14.00	2.00			24.00	
Lab Month.Mean	< 2.50	< 2.00	< 4.20	< 3.50	< 3.00	< 2.00	< 2.00	< 2.00	< 5.60	9.50	6.50	< 2.00		< 3.71		
Lab Month.Min	< 2.00	< 2.00	1.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	4.00	2.00	< 2.00				1.00
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	392.00	44.00	296.00	596.00	232.00	86.00	48.00	14.00	66.00	42.00	82.00	90.00			596.00	
Lab Month.Mean	264.00	35.50	92.80	284.00	106.50	28.00	31.00	9.00	24.80	28.50	44.00	74.80		82.92		
Lab Month.Min	82.00	30.00	8.00	122.00	26.00	6.00	6.00	2.00	2.00	18.00	18.00	64.00				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	2025 Total	2025 Avg	2025 Max	2025 Min
Turbidity (Max 1 NTU) - NTU																
OL Month.Max	0.24	0.25	0.77	0.97	0.59	0.26	0.20	0.72	0.34	0.15	0.23	0.22			0.97	
OL Month.Mean	0.04	0.04	0.05	0.05	0.04	0.06	0.04	0.05	0.05	0.06	0.05	0.06		0.05		
OL Month.Min	0.00	0.00	0.00	0.04	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.02				0.00

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	2025 Total	2025 Avg	2025 Max	2025 Min
Turbidity (Max 1 NTU) - NTU																
OL Month.Max	0.47	0.36	0.64	0.32	0.33	0.15	0.20	0.13	0.12	0.24	0.26	0.27			0.64	
OL Month.Mean	0.04	0.03	0.04	0.04	0.05	0.04	0.04	0.03	0.03	0.06	0.06	0.07		0.04		
OL Month.Min	0.03	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.03				0.00

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	2025 Total	2025 Avg	2025 Max	2025 Min
Turbidity (Max 1 NTU) - NTU																
OL Month.Max	0.46	0.56	0.87	0.96	0.70	0.14	0.24	0.11	0.67	0.70	0.25	0.30			0.96	
OL Month.Mean	0.04	0.04	0.10	0.07	0.05	0.04	0.04	0.04	0.05	0.08	0.05	0.05		0.05		
OL Month.Min	0.02	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.02				0.00

Treated Water

Treated Water	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	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	30.00	10.00	100.00	100.00	30.00	10.00	60.00	150.00	10.00			150.00	
Lab Month.Mean	< 10.00	< 10.00	< 10.00	< 15.00	< 10.00	< 28.00	47.50	< 17.50	< 10.00	25.00	< 45.00	< 10.00		< 19.42		
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

Reservoir	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 (Min 0.3 mg/L) - mg/L																
OL Month.Max	2.19	2.32	2.54	2.57	2.19	1.94	2.04	2.00	2.43	2.25	2.57	2.40			2.57	
OL Month.Mean	1.98	2.07	2.06	2.00	1.96	1.71	1.70	1.72	1.98	2.09	2.14	1.85		1.94		
OL Month.Min	1.81	1.86	1.65	1.71	1.74	1.46	1.45	1.48	1.75	1.91	1.89	1.67				1.45

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: Combined - mg/L																
IH Edited Count	9.00	8.00	6.00	8.00	9.00	9.00	9.00	8.00	9.00	9.00	8.00	10.00	102.00			
IH Month.Max	1.95	2.11	1.90	1.90	1.77	1.67	1.53	1.68	1.59	1.84	1.74	1.77			2.11	
IH Month.Mean	1.87	1.83	1.77	1.78	1.59	1.48	1.40	1.46	1.22	1.53	1.31	1.58		1.56		
IH Month.Min	1.78	1.37	1.52	1.65	1.34	1.24	1.28	1.28	0.62	1.11	0.63	1.43				0.62
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

	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
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

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
Cl Residual: Combined - 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	1.94	1.88	1.85	1.81	1.81	1.60	1.47	1.65	1.51	1.86	1.62	1.64			1.94	
IH Month.Mean	1.39	1.50	1.48	1.47	1.51	1.32	1.16	1.10	0.92	1.22	1.30	1.16		1.29		
IH Month.Min	0.99	1.08	1.11	1.25	1.21	1.01	0.87	0.80	0.30	0.78	0.45	0.59				0.30
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	< 10.00	10.00	< 10.00	10.00	< 10.00	20.00	130.00	10.00	< 10.00	< 10.00	10.00	10.00			130.00	
Lab Month.Mean	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	< 12.00	< 40.00	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00		< 12.50		
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

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
Cl Residual: Combined - 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	1.94	1.96	1.89	1.81	1.71	1.31	1.44	1.68	1.67	1.84	1.65	1.62			1.96	
IH Month.Mean	1.59	1.53	1.39	1.49	1.49	1.18	1.19	1.24	0.99	1.34	1.31	1.26		1.33		
IH Month.Min	1.21	1.20	1.07	1.12	1.20	1.00	0.78	0.79	0.49	0.62	0.66	0.85				0.49

E. Coli - cfu/100mL																							
Lab Count	4.00		4.00		5.00		4.00		4.00		5.00		4.00		5.00		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
Lab Month.Mean	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
Total Coliform: TC - cfu/100mL																							
Lab Count	4.00		4.00		5.00		4.00		4.00		5.00		4.00		5.00		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
Lab Month.Mean	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

4th 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: Combined - 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	1.72	1.87	1.70	1.55	1.67	1.58	1.45	1.34	1.04	1.12	1.71	1.69			1.87	
IH Month.Mean	1.62	1.67	1.42	1.43	1.56	1.25	1.27	1.19	0.88	0.91	1.22	1.33		1.30		
IH Month.Min	1.53	1.53	0.99	1.24	1.49	0.99	0.88	1.05	0.55	0.77	0.66	0.93				0.55