

SYSTEM OVERVIEW

October 1st to December 31st, 2023

OPERATIONAL HIGHLIGHTS

Drinking Water System

- The water treatment system operated well during the fourth quarter.
- Fall hydrant maintenance flushing completed. Hydrant records are maintained on OCWA's public drive and are available upon request.
- UV #1 became stuck in cooling mode. Nothing seemed to work until replacing the wiper motor, sensor and reset it to home position. Returned to service.
- Annual generator service completed.

Wastewater Treatment

- The wastewater treatment system performed well during the fourth quarter.
- Annual generator service completed.
- Pulled out and cleared plugged pump at 1101 Bissett.
- Blower motor #2 failed and will be sent out for rebuild assessment.

CAPITAL PLAN PROGRESS

Drinking Water System

- Internet speed and connectivity began failing and causing nuisance alarms. Experienced difficulties obtaining technicians for setting up the new internet provider and completing the switchover from old internet. Nuisance alarms ceased once the new internet was in place.
- Programming completed to switchover to new Bell internet service. Communications issues between the plant and reservoir are now resolved. Nuisance communication failure alarms have ceased.
- Purchased replacement for leaking chlorine drum pump.
- River crossing watermain was reinforced with riprap on the river banks and new concrete collars were used to secure the watermain to the riverbed.

Wastewater Treatment Lagoon

- N/A

ASSET MANAGEMENT

See Appendix A - Work Order summary for water treatment plant (WTP)
See Appendix B - Work Order summary for wastewater treatment lagoon (WWTL)

CALL-OUT SUMMARY

See Appendix C - Call-out Report for WTP
See Appendix D - Call-out Report for WWTL

REGULATORY

- All drinking water samples required under O. Regulation 170/03 were collected and tested in the fourth quarter of 2023 and all results fell within regulatory limits.
- Quarterly trihalomethanes (THM), haloacetic acids (HAA), Nitrate and Nitrite sampling completed October 10, 2023.
- Summer Term lead, alkalinity and pH sampling completed October 10, 2023.
- Annual Capital and Major Maintenance Recommendations Report completed and submitted.
- Annual Hach instrument calibrations completed on October 31, 2023.
- THM running annual average below limit of 100 ug/L with a result of 5.00 ug/L in the past four quarters.
- HAA running annual average below limit of 80 ug/L (came into effect January 1, 2020) with a result of 4.00 ug/L in the past four quarters.
- There were no Ministry of the Environment, Conservation and Parks (MECP) or Ministry of Labour (MOL) inspections conducted this quarter.
- DWQMS Management Review completed December 8, 2023.
- All required sewage samples required under the system's Environmental Compliance Approval (ECA) were collected and tested in the fourth quarter of 2023.
- Lagoon sample results were well below ECA limits.
- Flowmeter data flat lined in "Wonderware" and "WISKI". IT got trending back but the data is lost. Flows to be determined with other methods for flat lined period. New batteries were replaced in the OCWA panels.

INCIDENTS AND COMPLAINTS

Mattawa Drinking Water System

Incident	n/a
Date	
Details	

Mattawa Wastewater System

Incident	n/a
Date	
Details	

HEALTH AND SAFETY

- Staff training completed on Critical Risks and Work Planning.
- Staff training completed on Lockout/Tagout.
- Staff training completed on Winter Working and Driving.

MATTAWA DRINKING WATER SYSTEM PERFORMANCE

See Appendix E – Performance Assessment Report Water

MATTAWA WASTEWATER TREATMENT LAGOON – WASTEWATER FLOW SUMMARY

See Appendix F – Performance Assessment Report Wastewater



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Northeastern Ontario Region

MATTAWA WATER & WASTEWATER SYSTEMS

QUARTERLY OPERATIONS REPORT

Appendix A - Work Order Summary for WTP

Workorder Summary Report

Report Start Date: Oct 1, 2023 12:00 AM

Report End Date: Dec 31, 2023 11:59 PM

Location: 1517*

Work Order Type: CAP,CORR,OPER,PM

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
3601729	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	10/1/23 12:00 AM	1/15/24 09:32 AM	1/15/24 09:32 AM	Generator Monthly Test (1m) 1517 - Monthly generator test completed, All OK no issues
3601732			1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	10/1/23 12:00 AM	1/15/24 09:34 AM	1/15/24 09:34 AM	UVR Reference Sensor check (UV#1) (1m / 1y) 1517 - UV 1 monthly check completed, Passed, no issues found at time of mntce
3601735			1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	10/1/23 12:00 AM	1/15/24 09:34 AM	1/15/24 09:34 AM	UVR Reference Sensor check (UV#2) (1m / 1y) 1517 - Uv 2 monthly check completed, no issues found at time of mntce, UV passed
3601738	0000349404	ANALYZER UV REFERENCE #1	1517, Mattawa DWS	PM	Calibration	0		0000349404 ANALYZER UV REFERENCE #1	COMP	10/1/23 12:00 AM	1/15/24 09:34 AM	1/15/24 09:34 AM	
3601741	0000349405	ANALYZER UV REFERENCE #2	1517, Mattawa DWS	PM	Calibration	0		0000349405 ANALYZER UV REFERENCE #2	COMP	10/1/23 12:00 AM	1/15/24 09:34 AM	1/15/24 09:34 AM	
3601744	0000349406	ANALYZER UV #2 DUTY #1	1517, Mattawa DWS	PM	Calibration	0		0000349406 ANALYZER UV #2 DUTY #1	COMP	10/1/23 12:00 AM	1/15/24 09:34 AM	1/15/24 09:34 AM	
3601747	0000349408	ANALYZER UV #2 DUTY #2	1517, Mattawa DWS	PM	Calibration	0		0000349408 ANALYZER UV #2 DUTY #2	COMP	10/1/23 12:00 AM	1/15/24 09:34 AM	1/15/24 09:34 AM	
3601811			1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	UVR Service (Spring & Fall) 1517	COMP	10/1/23 12:00 AM	1/15/24 09:35 AM	1/15/24 09:35 AM	
3601818			1517, Mattawa DWS	PM	Inspection	3	MONTHS	Replace UV Air Filters 1517	COMP	10/1/23 12:00 AM	1/15/24 09:29 AM	1/15/24 09:29 AM	Replace UV Air Filters 1517 - Replaced UV air filters. Still have some in stock.
3601826	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	10/1/23 12:00 AM	1/15/24 09:36 AM	1/15/24 09:36 AM	UVT Analyzer calibration to yellow box (1m) 1517 - Monthly Optiview calibration check completed. Optiview within parameters of the Yellow box all oK
3601850			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Critical Alarm Dialer Route (1m) - 1517	COMP	10/1/23 12:00 AM	1/11/24 02:53 PM	1/11/24 02:53 PM	
3601859			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	10/1/23 12:00 AM	10/20/23 11:35 AM	10/20/23 11:35 AM	

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3601872	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	10/1/23 12:00 AM	1/15/24 09:37 AM	1/15/24 09:37 AM	Valve Regulating Inspection (1m) 1517 - Valve inspections. visual inspections completed weekly- All OK, operated all valvles manually- no issues found at this time
3601877	0000328754	WELL PRODUCING #2	1517, Mattawa DWS	PM	Inspection	1	YEARS	Well Producing (1y / 10y) Inspection 1517	COMP	10/1/23 12:00 AM	1/15/24 09:38 AM	1/15/24 09:38 AM	Well Producing (1y / 10y) Inspection 1517 - Visually inspected well # 1 & 2, no visual issues found. Ran pumps- listened to and felt for issues- None found at this time
3602094			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	10/1/23 12:00 AM	10/20/23 11:34 AM	10/20/23 11:34 AM	
3646785	0000328787	ANALYZER UV TRANSMITTANCE	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	3	MONTHS	UV Transmitter Optiview calibration (3m) 1517	COMP	11/1/23 12:00 AM	1/15/24 09:42 AM	1/15/24 09:42 AM	UV Transmitter Optiview calibration (3m) 1517 - Checked Optiview with Yellow box, within operatingspecs, no Calibration required
3646796	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	11/1/23 12:00 AM	1/15/24 09:33 AM	1/15/24 09:33 AM	Generator Monthly Test (1m) 1517 - No Test needed generator ran on back up power.
3646799			1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	11/1/23 12:00 AM	1/15/24 10:33 AM	1/15/24 10:33 AM	UVR Reference Sensor check (UV#1) (1m / 1y) 1517 - UV 1 monthly check completed, No issues found at time of service
3646802			1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	11/1/23 12:00 AM	1/15/24 10:34 AM	1/15/24 10:34 AM	UVR Reference Sensor check (UV#2) (1m / 1y) 1517 - Uv 2 monthly checks completed, no issues found at the time of service. UV 2 Passed
3646805	0000349404	ANALYZER UV REFERENCE #1	1517, Mattawa DWS	PM	Calibration	0		0000349404 ANALYZER UV REFERENCE #1	COMP	11/1/23 12:00 AM	1/15/24 10:34 AM	1/15/24 10:34 AM	
3646808	0000349405	ANALYZER UV REFERENCE #2	1517, Mattawa DWS	PM	Calibration	0		0000349405 ANALYZER UV REFERENCE #2	COMP	11/1/23 12:00 AM	1/15/24 10:34 AM	1/15/24 10:34 AM	
3646811	0000349406	ANALYZER UV #2 DUTY #1	1517, Mattawa DWS	PM	Calibration	0		0000349406 ANALYZER UV #2 DUTY #1	COMP	11/1/23 12:00 AM	1/15/24 10:34 AM	1/15/24 10:34 AM	
3646814	0000349408	ANALYZER UV #2 DUTY #2	1517, Mattawa DWS	PM	Calibration	0		0000349408 ANALYZER UV #2 DUTY #2	COMP	11/1/23 12:00 AM	1/15/24 10:34 AM	1/15/24 10:34 AM	

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3646870	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	11/1/23 12:00 AM	1/15/24 09:49 AM	1/15/24 09:49 AM	UVT Analyzer calibration to yellow box (1m) 1517 - Checked optiview against yellow box- all OK 99.9%-100%
3646891			1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	HVAC, Fans, Dehumidifiers, Heaters ,Louvres (1y) 1517	COMP	11/1/23 12:00 AM	1/15/24 09:48 AM	1/15/24 09:48 AM	HVAC, Fans, Dehumidifiers, Heaters ,Louvres (1y) 1517 - Checked all HVAC, heater near well 1 is out of service, heater under desk area being used right now and all seems to be OK
3646904			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Critical Alarm Dialer Route (1m) - 1517	COMP	11/1/23 12:00 AM	1/11/24 02:53 PM	1/11/24 02:53 PM	
3646913			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	11/1/23 12:00 AM	1/11/24 02:54 PM	1/11/24 02:54 PM	
3646924	0000328789	TANK STORAGE FUEL ELECTRIC GENERATOR	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Storage Fuel Diesel Insp/ Service (1y) 1517	COMP	11/1/23 12:00 AM	1/11/24 02:55 PM	1/11/24 02:55 PM	
3646934	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	11/1/23 12:00 AM	1/15/24 09:47 AM	1/15/24 09:47 AM	Valve Regulating Inspection (1m) 1517 - All valving visually inspected, operated manually- all OK
3647028			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	11/1/23 12:00 AM	1/11/24 02:56 PM	1/11/24 02:56 PM	
3661999	0000328804	ANALYZER CHLORINE / PH AIT 102	1517, Mattawa DWS	PM	Inspection	3	MONTHS	PH Analyzer Calibration (3m) 1517	COMP	11/3/23 12:00 AM	1/15/24 10:36 AM	1/15/24 10:36 AM	PH Analyzer Calibration (3m) 1517 - PH analyzer checked and cleaned, No issues found
3662002			1517, Mattawa DWS	PM	Inspection	3	MONTHS	PH Analyzer Calibration (POE) (3m) 1517	COMP	11/3/23 12:00 AM	1/15/24 10:36 AM	1/15/24 10:36 AM	PH Analyzer Calibration (POE) (3m) 1517 - POE analyzer checked, replaced probe, all ok
3666579			1517, Mattawa DWS	CAP	Refurbish/ Replace/Repair	0		Replacement Electric Heater for Desk area-1517	COMP		11/29/23 10:26 AM	11/29/23 10:26 AM	Replacement Electric Heater for Desk area-1517 - Purchased replacement space heater for under desk area of water plant
3688248	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	12/1/23 12:00 AM	1/15/24 09:47 AM	1/15/24 09:47 AM	Generator Monthly Test (1m) 1517 - Generator ran during power outage, no issues were found

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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
3688251			1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	12/1/23 12:00 AM	1/15/24 10:35 AM	1/15/24 10:35 AM	UVR Reference Sensor check (UV#1) (1m / 1y) 1517 - Uv 1 monthly checks completed, NO issues found at time of maintenance. UV 1 Passed
3688254			1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	12/1/23 12:00 AM	1/15/24 10:34 AM	1/15/24 10:34 AM	UVR Reference Sensor check (UV#2) (1m / 1y) 1517 - Uv 2 monthly checks completed, no issues found at the time of service. UV 2 Passed
3688257	0000349404	ANALYZER UV REFERENCE #1	1517, Mattawa DWS	PM	Calibration	0		0000349404 ANALYZER UV REFERENCE #1	COMP	12/1/23 12:00 AM	1/15/24 10:34 AM	1/15/24 10:34 AM	
3688260	0000349405	ANALYZER UV REFERENCE #2	1517, Mattawa DWS	PM	Calibration	0		0000349405 ANALYZER UV REFERENCE #2	COMP	12/1/23 12:00 AM	1/15/24 10:34 AM	1/15/24 10:34 AM	
3688263	0000349406	ANALYZER UV #2 DUTY #1	1517, Mattawa DWS	PM	Calibration	0		0000349406 ANALYZER UV #2 DUTY #1	COMP	12/1/23 12:00 AM	1/15/24 10:34 AM	1/15/24 10:34 AM	
3688266	0000349408	ANALYZER UV #2 DUTY #2	1517, Mattawa DWS	PM	Calibration	0		0000349408 ANALYZER UV #2 DUTY #2	COMP	12/1/23 12:00 AM	1/15/24 10:34 AM	1/15/24 10:34 AM	
3688322	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	12/1/23 12:00 AM	1/15/24 09:52 AM	1/15/24 09:52 AM	UVT Analyzer calibration to yellow box (1m) 1517 - Optiview checked against yellow box analyzer, all ok well within operating specs
3688343			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Critical Alarm Dialer Route (1m) - 1517	COMP	12/1/23 12:00 AM	1/11/24 02:57 PM	1/11/24 02:57 PM	
3688352	0000328755	PUMP CENT WELL #1	1517, Mattawa DWS	PM	Inspection	1	YEARS	Pump Cent Insp/Service (1y) - 1517	COMP	12/1/23 12:00 AM	1/15/24 09:45 AM	1/15/24 09:45 AM	Pump Cent Insp/Service (1y) - 1517 - Visual inspection of well 1 completed, all ok, slight cracking on parging on top of well, not an operational issue
3688360	0000328756	PUMP CENT WELL #2	1517, Mattawa DWS	PM	Inspection	1	YEARS	Pump Cent Insp/Service (1y) - 1517	COMP	12/1/23 12:00 AM	1/15/24 09:46 AM	1/15/24 09:46 AM	Pump Cent Insp/Service (1y) - 1517 - Visual inspection of well 2 completed no issues found at this time
3688368			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	12/1/23 12:00 AM	1/11/24 02:58 PM	1/11/24 02:58 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
3688381	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	12/1/23 12:00 AM	1/15/24 09:44 AM	1/15/24 09:44 AM	Valve Regulating Inspection (1m) 1517 - Visual inspection of Valves completed weekly, no issues found at this time
3688467			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	12/1/23 12:00 AM	1/11/24 02:59 PM	1/11/24 02:59 PM	
3702958			1517, Mattawa DWS	CORR	Refurbish/ Replace/Repair	0		Internet, Reservoir Comms Issues Repair-1517	COMP		12/1/23 09:30 AM	12/1/23 01:16 PM	Internet, Reservoir Comms Issues Repair-1517 - Claudel from Stroma onsite to make changes to internet, from VIAnet to Bell internet service. Attempted to change settigns in the modems onsite to new static IP, was unable to connect. Called bell and made the bell modem a bridge modem, Internet returned and all comms with reservoir back online.



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MATTAWA WATER & WASTEWATER SYSTEMS QUARTERLY OPERATIONS REPORT

Appendix B - Work Order Summary for WWTL

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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
3601715	0000328854	UV LIGHT REACTOR SYSTEM	1541, Mattawa Wastewater System	PM	Inspection	6	MONTHS	UV Reactor service Fall (6m) 1541	COMP	10/1/23 12:00 AM	1/15/24 09:30 AM	1/15/24 09:30 AM	UV Reactor service Fall (6m) 1541 - Fall service was completed, cleaned lights and chamber all ok
3601722	0000328854	UV LIGHT REACTOR SYSTEM	1541, Mattawa Wastewater System	PM	Inspection	6	MONTHS	UV Reactor service Spring (6m) 1541	COMP	10/1/23 12:00 AM	1/15/24 09:30 AM	1/15/24 09:30 AM	
3601886	0000328878	BLOWER CENTRIFUGAL B01 AERATION	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Blower Centrifugal Inspection/ Service (1y) 1541	COMP	10/1/23 12:00 AM	1/15/24 09:39 AM	1/15/24 09:39 AM	Blower Centrifugal Inspection/ Service (1y) 1541 - Visually inspected blower, Oil is still clean and full, changed air filter, All OK
3601899	0000328879	BLOWER CENTRIFUGAL B02 AERATION	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Blower Centrifugal Inspection/ Service (1y) 1541	COMP	10/1/23 12:00 AM	1/15/24 09:40 AM	1/15/24 09:40 AM	Blower Centrifugal Inspection/ Service (1y) 1541 - Visually inspected blower, Oil is still clean and full, changed air filter, All OK
3601912			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	HVAC, Fans, Dehumidifiers, Heaters ,Louvres Route (1y) 1541	COMP	10/1/23 12:00 AM	1/15/24 09:41 AM	1/15/24 09:41 AM	HVAC, Fans, Dehumidifiers, Heaters ,Louvres Route (1y) 1541 - Visual inspection of all hvac, 601 mckenzie heater is sluggish at heating up the building. All else OK
3601934			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	10/1/23 12:00 AM	1/9/24 12:05 PM	1/9/24 12:05 PM	
3601941			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	10/1/23 12:00 AM	10/20/23 11:32 AM	10/20/23 11:32 AM	
3605891			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	10/1/23 12:00 AM	1/9/24 01:26 PM	1/9/24 01:26 PM	
3623093	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	10/16/23 12:00 AM	10/20/23 11:33 AM	10/20/23 11:33 AM	
3646945			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	11/1/23 12:00 AM	1/9/24 12:06 PM	1/9/24 12:06 PM	
3646952			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	11/1/23 12:00 AM	1/9/24 01:28 PM	1/9/24 01:28 PM	
3650161			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	11/1/23 12:00 AM	1/9/24 01:30 PM	1/9/24 01:30 PM	

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3661762	0000328841	SWITCH DISCONNECT MAIN POWER 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	3	YEARS	Switch Disconnect (3y) Inspection 601 Mckenzie St. - 1541	COMP	11/2/23 12:00 AM	1/15/24 09:52 AM	1/15/24 09:52 AM	Switch Disconnect (3y) Inspection 601 Mckenzie St. - 1541 - Visual inspection completed, all OK
3664306			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 1541	COMP	11/13/23 12:00 AM	1/9/24 01:31 PM	1/9/24 01:31 PM	
3664746	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	11/16/23 12:00 AM	1/9/24 01:32 PM	1/9/24 01:32 PM	
3688386	0000328859	ANALYZER GAS BUMP TEST	1541, Mattawa Wastewater System	PM	Calibration	6	MONTHS	Analyzer Gas C02 (6m) 1541	COMP	12/1/23 12:00 AM	1/15/24 09:44 AM	1/15/24 09:44 AM	Analyzer Gas C02 (6m) 1541 - Gas monitor is checked at time of each use, bump test and calibration on fail.
3688397			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	12/1/23 12:00 AM	1/9/24 01:35 PM	1/9/24 01:35 PM	
3688404			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	12/1/23 12:00 AM	1/9/24 01:37 PM	1/9/24 01:37 PM	
3688426	0000328828	UPS BATTERY BACKUP 451 BISSETT ST.	1541, Mattawa Wastewater System	PM	Inspection	1	YEARS	Ups Battery Bank Insp/Service (1y) 1541	COMP	12/1/23 12:00 AM	1/15/24 09:50 AM	1/15/24 09:50 AM	
3691583			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	12/1/23 12:00 AM	1/9/24 01:39 PM	1/9/24 01:39 PM	
3702956			1541, Mattawa Wastewater System	CAP	Compliance	0		Alum Order For Lagoon-1541	COMP		12/1/23 01:10 PM	1/4/24 09:24 AM	Alum Order Details - KEMIRA ALS BULK 24,970.000 KG 463.0000 Net weight: 24,970.000 KG 55,049.472 LB Gross weight: 24,970.000 KG 55,049.472 LB Delivery no / Date:86056912 / 12/06/2023 UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminium sulphate), 8, PGIII, RQ Country of Origin: CA 24,970.000 KG
3705699	0000328874	GENERATOR ELECTRIC DIESEL BACKUP POWER	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	12/15/23 12:00 AM	1/15/24 09:50 AM	1/15/24 09:50 AM	Generator Monthly Test (1m) 1541 - Generator ran during power outage, no issues while operating normally

Workorder Summary Report

Report Start Date: Oct 1, 2023 12:00 AM

Report End Date: Dec 31, 2023 11:59 PM

Location: 1541*

Work Order Type: CAP,CORR,OPER,PM

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
3705702	0000328842	GENERATOR ELECTRIC DIESEL 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	12/15/23 12:00 AM	1/15/24 09:51 AM	1/15/24 09:51 AM	Generator Monthly Test (1m) 1541 - Generator ran during power outage, no issues while operating normally
3705705	0000328901	GENERATOR ELECTRIC DIESEL	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	12/15/23 12:00 AM	1/15/24 09:51 AM	1/15/24 09:51 AM	Generator Monthly Test (1m) 1541 - Generator ran during power outage, no issues while operating normally
3705788	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	12/16/23 12:00 AM	1/9/24 01:40 PM	1/9/24 01:40 PM	
3706622			1541, Mattawa Wastewater System	CAP	Refurbish/ Replace/Repair	0		Mattawa Lagoon Blower Motor Replacement	COMP		12/22/23 08:35 AM	12/22/23 08:35 AM	Replacement Blower Motor -TechTop GRC0304F Electric Motor 30HP, 1755RPM, 575V, 27.92A, 60HZ, 3PH, Frame 286T, TEFC.



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Northeastern Ontario Region

MATTAWA WATER & WASTEWATER SYSTEMS

QUARTERLY OPERATIONS REPORT

Appendix C – Call-out Report for WTP

Workorder Summary Report

Report Start Date: Oct 1, 2023 12:00 AM

Report End Date: Dec 31, 2023 11:59 PM

Location: 1517*

Work Order Type: CALL,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
3623728			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Low chlorine Mattawa DWS	COMP		10/15/23 01:20 AM	10/19/23 08:13 AM	Low chlorine Mattawa DWS -Received low chlorine for Mattawa at 0120, arrived on site at 0250. Primed both pumps, noticed air in chlorine pump 1. Looked for leaks, no leaks found. Started well pump and monitored, chlorine remained stable.
3623906			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Emergency water off 975 James St-1517	COMP		10/7/23 05:30 PM	10/20/23 03:28 PM	Emergency water off 975 James St-1517 - Called by homeowner for emergency water off at 975 james due to substantial leak in basment. Arrived, found standpipe to be non operable. Cut the standpipe down and used a wrench to operate the valve. Water to remain off for now. Water back on 975 James - Water turned back on sunday morning at 1100, after repair was made to the line in basment.
3624522			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV 1 Fault	COMP		10/22/23 10:15 PM	10/22/23 10:45 PM	UV 1 Fault - Received UV1 valve fault alarm. Remotely checked system. UV1 Valve failed to close after run. Reset valve and valve opened fine. Returned UV1 to lead

Workorder Summary Report

Report Start Date: Oct 1, 2023 12:00 AM

Report End Date: Dec 31, 2023 11:59 PM

Location: 1517*

Work Order Type: CALL,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
3665676			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Low Chlorine/ reservoir communication lost Mattawa DWS	COMP		11/21/23 09:05 PM	12/1/23 09:27 AM	Low chlorine/ reservoir communication loss - Mattawa dws -Received alarm at 2110 for reservoir communication loss and low chlorine at POE. Chlorine was at 0.30 mg/L, plant shut off. Arrived on site at 2259 and noticed chlorine level was at 0.57 mg/L. Primed both chlorine pumps. Tightened a fitting on chlorine pump 2. Uv started warm up process, switched duty to well pump 2 due to intermittent communication loss with reservoir. Well pump 2 started and monitored plant. Chlorine residual maintained ~ 0.80 mg/L at POE.
3666636			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV #1 failure Mattawa DWS	COMP		11/25/23 03:04 PM	11/29/23 03:10 PM	UV #1 failure Mattawa DWS -Received alarm for UV 1 failure at 1500. Arrived on site at 1630, tried returning wiper to home, but location was undefined. Started up plant using UV 2 and plant shut off on chlorine pump fault. Cleaned foot valves on both pumps and replaced suction valve on pump 1. Primed both units and no issues. Plant started up. Josh came onto site to assist with wiper troubleshooting, and removed wiper motor
3666640			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Communication loss with reservoir Mattawa	COMP		11/26/23 09:00 AM	11/29/23 03:18 PM	Communication loss with reservoir Mattawa DWS -Received numerous communication loss with reservoir during the week. Went in on Sunday to reset modem, communication was down for 24 hours. After resetting modem communication was restored. Continued to monitor plant remotely.

Workorder Summary Report

Report Start Date: Oct 1, 2023 12:00 AM

Report End Date: Dec 31, 2023 11:59 PM

Location: 1517*

Work Order Type: CALL,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
3703619			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		uv2 fail - No access remotely	COMP		12/2/23 07:30 PM	12/2/23 10:00 PM	uv2 fail - No access remotely - Received UV2 fail alarm. Unable to log in remotely, made a site visit. Plant started on arrival with UV1. Reset UV2 alarm and monitored process then left facility.
3703626			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Reservoir communication loss	COMP		11/29/23 07:30 PM	11/29/23 09:00 PM	Reservoir communication loss - Received multiple reservoir communication loss alarms during week. Logged in remotely each time to confirm that plant is running and to switch duty to well pump #2 if needed. Continued to monitor plant remotely.

Workorder Summary Report

Report Start Date: Oct 1, 2023 12:00 AM

Report End Date: Dec 31, 2023 11:59 PM

Location: 1517*

Work Order Type: CALL,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
3705100			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Water on 630 McConnell St-1517	COMP		12/9/23 01:00 PM	12/11/23 07:20 AM	Water on 630 McConnell St-1517 - Called by Mattawa Call center for water at 630 mcconnell st, they completed their repair. Called the contact given. Spoke with the Joseph Petten, he informed me they needed the water turned back on. I asked if they had installed the temporary line from one building to another as instructed by the town staff. He said they did. i proceeded to inform him that this was not an emergent call then and we can schedule the water on for first thing monday morning as the building has water. He said no it will freeze, to which i told him to leave a tap run and there will be no issues. He hung up the phone. I then recieved a call from the building owner Mr. Sharma, he asked for the water to be turned on. I had the same discussion with him about the temp service, he understood and said monday morning was fine. Received a third call from a different site person, and was told he needed the water back on and there was no temp service, so the people in the house have been out of water since friday morning and he cant go any longer. I went and turned the water on at this point.

Workorder Summary Report

Report Start Date: Oct 1, 2023 12:00 AM

Report End Date: Dec 31, 2023 11:59 PM

Location: 1517*

Work Order Type: CALL,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
3705102			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV 1 & 2 Fail WTP - 1517	COMP		12/2/23 07:15 PM	12/11/23 07:34 AM	UV 1 & 2 Fail WTP - 1517 - called by telus for UV 1 and 2 Fail at WTP. Was alreadyin mattawa for other issues. Arrived to find plant off. NO alarms or Issues on UV 2 Panel, UV 1 had wiper counter issues. Reset UV 2 on Scada and plant came online. Took wipe rmotor off UV1 and reset wiper manually to home position, once here the UV was able to be reset and in ready mode. no other issues found at this point
3706653			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Mattawa UV Fail - 1517	COMP		12/14/23 11:00 PM	12/22/23 01:03 PM	Mattawa UV Fail - 1517 - Calledby Monique for uv fail. Monique unavaliable and asked if i could go in. found both UVs faulted in low dosage. Manually wiped uv bulbs, switched wiper motor to other uv and wiped in manual as well. reset all alarms and plant started OK
3706654			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Leaking Watermain River Crossing	COMP		12/17/23 04:15 PM	12/22/23 01:07 PM	Leaking Water main River crossing-1517 - Called by monique who had been contacted by TOwn of Mattawa call centre. For water spraying fron the ground at Hurdman and Mattawan where the water main crossing the river had just been repaired. I was in town and monique asked if i could have a look. Upon arrival i found no water leaking anywhere. no signs of any water. All ok with the water main. Called monique back and she had attempted to cantact the caller with no luck.
3707301			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		LLP1 fault	COMP		12/19/23 12:30 AM	12/19/23 03:15 AM	LLP1 fault - Received alarm for low reservoir. Saw well pump 1 faulted upon site visit. Reset alarm and plant started on P2. Switched over to pump 1 and monitored process.



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Northeastern Ontario Region

MATTAWA WATER & WASTEWATER SYSTEMS

QUARTERLY OPERATIONS REPORT

Appendix D - Call-out Report for WWTL

Workorder Summary Report

Report Start Date: Oct 1, 2023 12:00 AM

Report End Date: Dec 31, 2023 11:59 PM

Location: 1541*

Work Order Type: CALL,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
3623909			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		1541- Heat/Fire Alarm @ 451 Bissett	COMP		10/18/23 06:15 PM	10/23/23 08:00 AM	1541- Heat/Fire Alarm @ 451 Bissett - On-site for fire alarm, heat alarm, high level, overflow alarm, p1 alarm. Talked to curtis and multiple high priority alarms at 451 bissett. On-site at 1830, found no issues, no alarms in memory, pumps, and overflow all ok. No signs of high level. Unknown issue. Chatted with Curtis, may be mouse chewed wire issues.
3625361			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		Main st flood Mattawa 1541	COMP		10/26/23 09:15 PM	10/30/23 10:55 AM	Main st flood Mattawa 1541 - Called by after hours center for flood on main st. Called operator on call said the call dropped. discussed calling public works but was advised they didnt want us calling them. Called Barry J. said he was just out checking roads and was aware of it and calling crew in. Called complainant back to let them know public works was aware and if any other questions to call back. TF Oct 26/23
3662361			Mattawa WWT	CALL	Refurbish/ Replace/Repair	0		Power outage Mattawa sewage	COMP		11/5/23 11:45 AM	11/5/23 01:50 PM	
3662669			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		200 Brooke st low panel battery Mattawa 1541	COMP		11/5/23 12:45 PM	11/6/23 12:01 PM	200 Brooke st low panel battery Mattawa 1541 - recieved a low panel battery alarm from telus at 1247. messaged Josh and Monique to see who was on call. Monique answered discussed problem and remedies. TF Nov 5/23

Workorder Summary Report

Report Start Date: Oct 1, 2023 12:00 AM

Report End Date: Dec 31, 2023 11:59 PM

Location: 1541*

Work Order Type: CALL,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
3662671			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		low battery panel alarm 200 brooke st Mattawa	COMP		11/5/23 12:45 PM	11/5/23 01:15 PM	low battery panel alarm 200 brooke st Mattawa - called by telus alarm at 1247 for low battery on panel 200 Brook st Mattawa. messaged Josh and Monique to see who was on call Monique answered. discussed problem and possible remedies to problem. TF Nov5/23
3664608			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		451 Bissette pump #1 fault	COMP		11/11/23 09:45 AM	11/11/23 12:45 PM	451 Bissette pump #1 fault - Received call for P#1 failure. Arrived on site to find pump breaker tripped. Reset and tested pump. Ran fine, placed back in AUTO
3705101			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		High level 1101 Bissett-1541	COMP		12/9/23 04:45 PM	12/11/23 07:26 AM	High level 1101 Bissett-1541 - called for high level alarm at 1101 Bissett st. Arrived and found p2 running but level not dropping and p1 to be tripped. Reset p1 and started pumping down, tripped the pump again. did this multiple times to get the wetwell down. P2 is not seated properly and is not pushing out. Switched leads on p1 to run in reverse and clean it out. Switched back the leads and the pump seems to be running ok.
3707302			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		451 Bissette pump #1 fault	COMP		12/18/23 09:30 PM	12/18/23 11:45 PM	451 Bissette pump #1 fault - Received call for pump failure. Arrived on site to find P1 in thermal fault. Reset alarm and tested. Ran OK



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MATTAWA WATER & WASTEWATER SYSTEMS

QUARTERLY OPERATIONS REPORT

Appendix E - Performance Assessment Report Water

**Mattawa Drinking Water System
Performance Assessment Report Water**

Report extracted 02/14/2024 10:27

Facility: [1517] MATTAWA DRINKING WATER SYSTEM

Works: [210001905]

	10/2023	11/2023	12/2023	<--Total-->	<--Avg.-->	<--Max.-->	<--Min.-->
Flows:							
Raw Flow: Monthly Total - Well #1 (m³)	37082.21	29074.64	42648.74	108805.59			
Raw Flow: Monthly Total - Well #2 (m³)	1364.75	8376.53	5838.96	15580.25			
Raw Flow: Monthly Avg - Well #1 (m³/d)	1196.2	969.15	1375.77		1180.37		
Raw Flow: Monthly Avg - Well #2 (m³/d)	44.02	279.22	188.35		170.53		
Raw Flow: Monthly Max - Well #1 (m³/d)	1435.07	1264.48	1720.62			1720.62	
Raw Flow: Monthly Max - Well #2 (m³/d)	390.09	1080.89	793.86			1080.89	
Raw Flow: Monthly Total - Raw Water - Total (m³)	38446.97	37451.17	48487.71	124385.84			
Raw Flow: Monthly Avg - Raw Water - Total (m³/d)	1240.22	1248.37	1564.12		1350.91		
Raw Flow: Monthly Max - Raw Water - Total (m³/d)	1472.04	1687.72	1778.82			1778.82	
Turbidity:							
Raw: Max Turbidity - Well #1 (NTU)	0.27	0.24	0.26			0.27	
Raw: Max Turbidity - Well #2 (NTU)	0.29	0.29	0.27			0.29	
Chemical Parameters:							
Treated: Max Nitrite - TW (mg/L)	< 0.003					< 0.003	
Treated: Max Nitrate - TW (mg/L)	1.76					1.76	
Chlorine Residuals:							
Treated: Min Free Cl2 Resid - TW (mg/L)	0.052	0.191	0.355				0.052
Treated: Max Free Cl2 Resid - TW (mg/L)	4.027	3.294	3.043			4.027	
Dist: Min Free Cl2 Resid - DW (mg/L)	0.22	0.421	0.427				0.22
Dist: Max Free Cl2 Resid - DW (mg/L)	2.425	2.613	2.44			2.613	
Bacti Samples Collected:							
Raw Bacti: # of samples - Well #1	5	4	4	13			
Raw Bacti: # of samples - Well #2	5	4	4	13			
Treated Bacti: # of samples - TW	5	4	4	13			
Dist Bacti: # of samples - DW	15	12	12	39			
Treated Bacti: # of TC exceedances - TW	0	0	0	0			
Treated Bacti: # of EC exceedances - TW	0	0	0	0			
Dist Bacti: # of TC exceedances - DW	0	0	0	0			
Dist Bacti: # of EC exceedances - DW	0	0	0	0			



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QUARTERLY OPERATIONS REPORT

Appendix F - Performance Assessment Report Wastewater

Performance Assessment Report

From: 01/10/2023 to 31/12/2023

1541 MATTAWA WASTEWATER TREATMENT FACILITY 110000436

	10 / 2023	11/ 2023	12/ 2023	<--Total-->	<--Avg-->	<--Max-->	<-Criteria-->
--	-----------	----------	----------	-------------	-----------	-----------	---------------

Flows

Raw Flow: Total - Raw m³/d	28,105.53	27,968.36	20,088.37	76,162.26			0.00
Raw Flow: Avg - Raw m³/d	906.63	932.28	648.01		827.85		
Raw Flow: Max - Raw m³/d	1,567.20	1,361.00	752.00			1,567.20	0.00
Raw Flow: Count - Raw m³/d	31.00	30.00	31.00	92.00			0.00
Eff. Flow: Total - Eff m³/d	28,105.53	27,968.36	20,088.37	76,162.26			0.00
Eff. Flow: Avg - Eff m³/d	906.63	932.28	648.01		827.85		
Eff. Flow: Max - Eff m³/d	1,567.20	1,361.00	752.00			1,567.20	0.00
Eff Flow: Count - Eff m³/d	31.00	30.00	31.00	92.00			0.00

Carbonaceous Biochemical Oxygen Demand: CBOD

Eff: Avg cBOD5 - Eff mg/L	13.20	7.00	6.00		9.85	13.20	25.00
Eff: # of samples of cBOD5 - Eff	2.00	1.00	1.00	4.00			0.00
Loading: cBOD5 - Eff kg/d	10.698	6.526	3.888		8.15	10.70	

Biochemical Oxygen Demand: BOD5

Raw: Avg BOD5 - Raw mg/L	135.50	148.00	73.00		118.83	148.00	0.00
Raw: # of samples of BOD5 - Raw	2.00	1.00	1.00	4.00			0.00
Eff: Avg BOD5 - Eff mg/L	27.40	7.00	6.00		16.95	27.40	30.00
Eff: # of samples of BOD5 - Eff	2.00	1.00	1.00	4.00			0.00
Loading: BOD5 - Eff kg/d	26.020	6.526	3.888		14.03	26.02	
Percent Removal: BOD5 - Raw %	0.00	0.00	0.00		0.00		0.00

Total Suspended Solids: TSS

Raw: Avg TSS - Raw mg/L	120.75	133.00	114.00		122.58	133.00	0.00
Raw: # of samples of TSS - Raw	2.00	1.00	1.00	4.00			0.00
Eff: Avg TSS - Eff mg/L	21.45	10.20	6.50		14.90	21.45	30.00
Eff: # of samples of TSS - Eff	2.00	1.00	1.00	4.00			0.00
Loading: TSS - Eff kg/d	26.292	9.509	4.212		12.33	26.29	
Percent Removal: TSS - Raw %	0.00	0.00	0.00		0.00		0.00

Total Phosphorus: TP

Performance Assessment Report

From: 01/10/2023 to 31/12/2023

Raw: Avg TP - Raw mg/L

Raw: # of samples of TP - Raw

Eff: Avg TP - Eff mg/L

Eff: # of samples of TP - Eff

Loading: TP - Eff kg/d

Percent Removal: TP - Raw %

2.33	2.42	3.05	2.60	3.05	0.00
2.00	1.00	1.00	4.00		0.00
0.99	0.61	0.66	0.77	0.99	2.50
5.00	4.00	4.00	13.00		0.00
1.550	0.662	0.350	0.64	1.55	3.910
0.00	0.00	0.00	0.00		0.00

Nitrogen Series

Eff: Avg TAN - Eff mg/L

Eff: Avg NO3-N - Eff mg/L

Eff: # of samples of NO3-N - Eff

Eff: Avg NO2-N - Eff mg/L

Eff: # of samples of NO2-N - Eff

11.32	13.75	15.10	13.23	15.10	
0.34	0.19	0.08	0.21	0.34	0.00
2.00	1.00	1.00	4.00		0.00
2.44	0.26	0.07	0.92	2.44	0.00
2.00	1.00	1.00	4.00		0.00