

SYSTEM OVERVIEW

January 1st to March 31st, 2024

OPERATIONAL HIGHLIGHTS

Drinking Water System

- The water treatment system operated well during the first quarter.
- OCWA IT fixed issue to allow for remote access to SCADA.

Wastewater Treatment

- The wastewater treatment system performed well during the first quarter.
- Pulled pump at McKenzie St. Sewage Lift Station (SLS) and sent off for rebuild.
- McKenzie St. SLS #1 gate valve and #1 check valve were replaced.

CAPITAL PLAN PROGRESS

Drinking Water System

- N/A

Wastewater Treatment System

- New blower motor installed to replace failed motor.

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 first quarter of 2024 and all results fell within regulatory limits.

- 2023 annual report completed February 14, 2024.
- Permit to take Water (PTTW) reporting completed January 30, 2024.
- Quarterly trihalomethanes (THM), haloacetic acids (HAA), Nitrate and Nitrite, sampling completed January 30, 2024.
- Ministry of the Environment Conservation and Parks (MECP) inspection completed on February 14, 2024, one non-compliance was identified and resolved. Final inspection rating of 98.96%.
- No Ministry of Labour (MOL) inspections conducted this quarter.
- Flow meter verifications completed for both facilities.
- All required sewage samples required under the system's Environmental Compliance Approval (ECA) were collected and tested in the first quarter of 2024.
- 2023 annual sewage report completed February 12, 2024.
- Annual WSER reporting completed February 12, 2024.

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 WHMIS.
- Staff training completed on Respiratory Protection.
- Staff training completed on Workplace Hazard Inspections.
- Annual certifications for confined space lifting rigs and gas meters completed.



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: Jan 1, 2024 12:00 AM

Report End Date: Mar 31, 2024 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
3737225	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	1/1/24 12:00 AM	5/15/24 08:39 AM	5/15/24 08:39 AM	Generator Monthly Test (1m) 1517 - Monthly teat was completed no issues found at this time
3737228			1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	1/1/24 12:00 AM	5/15/24 09:00 AM	5/15/24 09:00 AM	-
3737231			1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	1/1/24 12:00 AM	5/15/24 09:01 AM	5/15/24 09:01 AM	UVR Reference Sensor check (UV#2) (1m / 1y) 1517 - UV reference sensor check completed, UV #2 pass
3737234	0000349404	ANALYZER UV REFERENCE #1	1517, Mattawa DWS	PM	Calibration	0		0000349404 ANALYZER UV REFERENCE #1	COMP	1/1/24 12:00 AM	5/15/24 09:01 AM	5/15/24 09:01 AM	
3737237	0000349405	ANALYZER UV REFERENCE #2	1517, Mattawa DWS	PM	Calibration	0		0000349405 ANALYZER UV REFERENCE #2	COMP	1/1/24 12:00 AM	5/15/24 09:01 AM	5/15/24 09:01 AM	
3737240	0000349406	ANALYZER UV #2 DUTY #1	1517, Mattawa DWS	PM	Calibration	0		0000349406 ANALYZER UV #2 DUTY #1	COMP	1/1/24 12:00 AM	5/15/24 09:01 AM	5/15/24 09:01 AM	
3737243	0000349408	ANALYZER UV #2 DUTY #2	1517, Mattawa DWS	PM	Calibration	0		0000349408 ANALYZER UV #2 DUTY #2	COMP	1/1/24 12:00 AM	5/15/24 09:01 AM	5/15/24 09:01 AM	
3737323	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	1/1/24 12:00 AM	5/15/24 08:54 AM	5/15/24 08:54 AM	UVT Analyzer calibration to yellow box (1m) 1517 - Opitview has been checked against the yellow box verification. Within specs, no adjustments needed
3737344			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Critical Alarm Dialer Route (1m) - 1517	CLOSE	1/1/24 12:00 AM	1/17/24 10:17 AM	1/17/24 10:17 AM	
3737353	0000328801	PUMP DIAPHRAGM 01 SODIUM HYPOCHLORITE	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Diaphragm Inspection (1y) 1517	CLOSE	1/1/24 12:00 AM	1/17/24 10:13 AM	1/17/24 10:13 AM	
3737359	0000328802	PUMP DIAPHRAGM 02 SODIUM HYPOCHLORITE	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Diaphragm Inspection (1y) 1517	CLOSE	1/1/24 12:00 AM	1/17/24 10:14 AM	1/17/24 10:14 AM	
3737365			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	CLOSE	1/1/24 12:00 AM	1/17/24 10:12 AM	1/17/24 10:12 AM	
3737378			1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	Annual Facility Valves Inspection (1y) 1517	COMP	1/1/24 12:00 AM	5/15/24 09:06 AM	5/15/24 09:06 AM	Annual Facility Valves Inspection (1y) 1517 - All valving visually inspected, all non automated valves operated, no issues found at this time

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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
3737385	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	1/1/24 12:00 AM	5/15/24 09:05 AM	5/15/24 09:05 AM	Valve Regulating Inspection (1m) 1517 - All valving visually inspection, no signs of defect or issues found at this time
3737390	0000328757	VALVE RELIEF	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	Valve Relief Air Insp/Service (1y) 1517	COMP	1/1/24 12:00 AM	5/15/24 09:08 AM	5/15/24 09:08 AM	Valve Relief Air Insp/Service (1y) 1517 - Air relief valve visually inspected no issues, audible check when plans turns on and off, all Ok
3737393	0000328762	VALVE RELIEF	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	Valve Relief Air Insp/Service (1y) 1517	COMP	1/1/24 12:00 AM	5/15/24 09:08 AM	5/15/24 09:08 AM	Valve Relief Air Insp/Service (1y) 1517 - Air relief valve visually inspected no issues, audible check when plans turns on and off, all Ok
3737659			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	CLOSE	1/1/24 12:00 AM	1/17/24 10:11 AM	1/17/24 10:11 AM	
3742569			1517, Mattawa DWS	PM	Health and Safety	1	YEARS	WHMIS/MSDS/NSF Review and Update (1y) 1517	CLOSE	1/1/24 12:00 AM	1/17/24 10:15 AM	1/17/24 10:15 AM	
3759774			1517, Mattawa DWS	CAP	Refurbish/ Replace/Repair	0		Replacement Chemical Transfer Pump WTP - 1517	CLOSE		1/4/24 07:28 AM	1/4/24 07:28 AM	Replacement Chemical Transfer Pump WTP - 1517 - Order placed to acklands for new drum chemical pump price of 1021.28 total. Addittional longer hose required from Homehardware,
3764145	0000328818	METER FLOW FIT 101	1517, Mattawa DWS	PM	Calibration	1	YEARS	Meter Flow Calibration (1y) 1517	COMP	1/25/24 12:00 AM	4/2/24 08:11 AM	4/2/24 08:11 AM	Meter Flow Calibration (1y) 1517 - verify flow meter-pass tf mar 25-2024
3764151	0000328820	METER FLOW	1517, Mattawa DWS	PM	Calibration	1	YEARS	Meter Flow Calibration (1y) 1517	COMP	1/25/24 12:00 AM	4/2/24 08:12 AM	4/2/24 08:12 AM	Meter Flow Calibration (1y) 1517 - verify flows-pass Tf mar 25/24
3786462	0000328787	ANALYZER UV TRANSMITTANCE	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	3	MONTHS	UV Transmitter Optiview calibration (3m) 1517	COMP	2/1/24 12:00 AM	5/15/24 08:55 AM	5/15/24 08:55 AM	UV Transmitter Optiview calibration (3m) 1517 - Opitview has been verified against the yellow box verification. Within specs, no adjustments needed

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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
3786473	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	2/1/24 12:00 AM	5/15/24 08:40 AM	5/15/24 08:40 AM	Generator Monthly Test (1m) 1517 - Monthly teat was completed no issues found at this time
3786476			1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	2/1/24 12:00 AM	5/15/24 08:59 AM	5/15/24 08:59 AM	UVR Reference Sensor check (UV#1) (1m / 1y) 1517 - UV reference sensro check completed, Sensor well within specs
3786479			1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	2/1/24 12:00 AM	5/15/24 09:00 AM	5/15/24 09:00 AM	UVR Reference Sensor check (UV#2) (1m / 1y) 1517 - UV reference sensor check completed, Sensor well within specs
3786482	0000349404	ANALYZER UV REFERENCE #1	1517, Mattawa DWS	PM	Calibration	0		0000349404 ANALYZER UV REFERENCE #1	COMP	2/1/24 12:00 AM	5/15/24 09:00 AM	5/15/24 09:00 AM	
3786485	0000349405	ANALYZER UV REFERENCE #2	1517, Mattawa DWS	PM	Calibration	0		0000349405 ANALYZER UV REFERENCE #2	COMP	2/1/24 12:00 AM	5/15/24 09:00 AM	5/15/24 09:00 AM	
3786488	0000349406	ANALYZER UV #2 DUTY #1	1517, Mattawa DWS	PM	Calibration	0		0000349406 ANALYZER UV #2 DUTY #1	COMP	2/1/24 12:00 AM	5/15/24 09:00 AM	5/15/24 09:00 AM	
3786491	0000349408	ANALYZER UV #2 DUTY #2	1517, Mattawa DWS	PM	Calibration	0		0000349408 ANALYZER UV #2 DUTY #2	COMP	2/1/24 12:00 AM	5/15/24 09:00 AM	5/15/24 09:00 AM	
3786547			1517, Mattawa DWS	PM	Inspection	6	MONTHS	CL2 sensor change Electrolyte and membrane cap (POE) (6m) 1517	COMP	2/1/24 12:00 AM	5/15/24 08:56 AM	5/15/24 08:56 AM	CL2 sensor change Electrolyte and membrane cap (POE) (6m) 1517 - Changes flow cell, electrolye, and membrane cap.
3786554	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	2/1/24 12:00 AM	5/15/24 08:55 AM	5/15/24 08:55 AM	UVT Analyzer calibration to yellow box (1m) 1517 - Opitview has been verified against the yellow box verification. Within specs, no adjustments needed
3786575			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Critical Alarm Dialer Route (1m) - 1517	COMP	2/1/24 12:00 AM	5/15/24 08:57 AM	5/15/24 08:57 AM	Critical Alarm Dialer Route (1m) - 1517 - Various alarms over the month, showing alarm dialer is operating correctly at this time
3786584			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	2/1/24 12:00 AM	4/2/24 08:14 AM	4/2/24 08:14 AM	
3786597			1517, Mattawa DWS	PM	Inspection	1	YEARS	Ups Battery Bank Insp/Service (1y) 1517	COMP	2/1/24 12:00 AM	5/15/24 08:58 AM	5/15/24 08:58 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
3786604	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	2/1/24 12:00 AM	5/15/24 08:58 AM	5/15/24 08:58 AM	
3786731			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	2/1/24 12:00 AM	5/15/24 09:05 AM	5/15/24 09:05 AM	Analyzer Chlorine Inspection/ Service (1m) 1517 - Chlorine analyzer cheecked against handheld, no adjustments needed at this time
3804559	0000328804	ANALYZER CHLORINE / PH AIT 102	1517, Mattawa DWS	PM	Calibration	1	YEARS	PH Analyzer change Probe & Calibration (1y) 1517	COMP	2/12/24 12:00 AM	5/15/24 09:04 AM	5/15/24 09:04 AM	
3804565			1517, Mattawa DWS	PM	Calibration	1	YEARS	PH Analyzer change Probe & Calibration (POE) (1y) 1517	COMP	2/12/24 12:00 AM	5/15/24 09:04 AM	5/15/24 09:04 AM	PH Analyzer change Probe & Calibration (POE) (1y) 1517 - PH probe checked against standards, no issues at this time
3830020	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	3/1/24 12:00 AM	5/15/24 08:43 AM	5/15/24 08:43 AM	Generator Monthly Test (1m) 1517 - Monthly test was completed, no issues were found.
3830023			1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	3/1/24 12:00 AM	5/15/24 09:02 AM	5/15/24 09:02 AM	UVR Reference Sensor check (UV#1) (1m / 1y) 1517 - UV reference sensor check completed, UV #1 pass
3830026			1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	3/1/24 12:00 AM	5/15/24 09:01 AM	5/15/24 09:01 AM	UVR Reference Sensor check (UV#2) (1m / 1y) 1517 - UV reference sensor check completed, UV #2 pass
3830029	0000349404	ANALYZER UV REFERENCE #1	1517, Mattawa DWS	PM	Calibration	0		0000349404 ANALYZER UV REFERENCE #1	COMP	3/1/24 12:00 AM	5/15/24 09:01 AM	5/15/24 09:01 AM	
3830032	0000349405	ANALYZER UV REFERENCE #2	1517, Mattawa DWS	PM	Calibration	0		0000349405 ANALYZER UV REFERENCE #2	COMP	3/1/24 12:00 AM	5/15/24 09:01 AM	5/15/24 09:01 AM	
3830035	0000349406	ANALYZER UV #2 DUTY #1	1517, Mattawa DWS	PM	Calibration	0		0000349406 ANALYZER UV #2 DUTY #1	COMP	3/1/24 12:00 AM	5/15/24 09:01 AM	5/15/24 09:01 AM	
3830038	0000349408	ANALYZER UV #2 DUTY #2	1517, Mattawa DWS	PM	Calibration	0		0000349408 ANALYZER UV #2 DUTY #2	COMP	3/1/24 12:00 AM	5/15/24 09:01 AM	5/15/24 09:01 AM	
3830101	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	3/1/24 12:00 AM	5/15/24 08:54 AM	5/15/24 08:54 AM	UVT Analyzer calibration to yellow box (1m) 1517 - Opitview has been checked against the yellow box verification. Within specs, no adjustments needed

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Report End Date: Mar 31, 2024 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
3830134			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Critical Alarm Dialer Route (1m) - 1517	COMP	3/1/24 12:00 AM	5/15/24 08:53 AM	5/15/24 08:53 AM	Critical Alarm Dialer Route (1m) - 1517 - Multiple alarms over the course of the month, alarm dialer is working as it should.
3830143			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	3/1/24 12:00 AM	5/15/24 08:52 AM	5/15/24 08:52 AM	Health And Safety Inspection (1m) 1517 - Health and safety inspoection completed at time of generator test. Checked First aid kit and fire extinguishers, al ok at this time
3830154	0000328772	TANK STORAGE HOT WATER	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Hot Water Insp. (1y) - 1517	COMP	3/1/24 12:00 AM	5/15/24 08:51 AM	5/15/24 08:51 AM	Tank Hot Water Insp. (1y) - 1517 - Visual inspection of Hot water tank completed, no leaks or defects found
3830159	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	3/1/24 12:00 AM	5/15/24 08:50 AM	5/15/24 08:50 AM	Valve Regulating Inspection (1m) 1517 - Visually inspected all valves weekly. Operated non auto valves. All working ok, no issues at this time
3830235			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	3/1/24 12:00 AM	5/15/24 08:50 AM	5/15/24 08:50 AM	Analyzer Chlorine Inspection/ Service (1m) 1517 - Chlorine analyzer checked against handheld weekly and adjusted as needed.



Ontario Clean Water Agency
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MATTAWA WATER & WASTEWATER SYSTEMS QUARTERLY OPERATIONS REPORT

Appendix B - Work Order Summary for WWTL

Workorder Summary Report

Report Start Date: Jan 1, 2024 12:00 AM

Report End Date: Mar 31, 2024 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
3737450			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	CLOSE	1/1/24 12:00 AM	1/9/24 01:55 PM	1/9/24 01:55 PM	
3737464			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	CLOSE	1/1/24 12:00 AM	1/9/24 01:43 PM	1/9/24 01:43 PM	
3741970			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	CLOSE	1/1/24 12:00 AM	1/9/24 01:50 PM	1/9/24 01:50 PM	
3742576			1541, Mattawa Wastewater System	PM	Health and Safety	1	YEARS	WHMIS/MSDS/NSF Review and Update (1y) 1541	CLOSE	1/1/24 12:00 AM	1/9/24 01:51 PM	1/9/24 01:51 PM	
3762704	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	CLOSE	1/16/24 12:00 AM	1/17/24 10:17 AM	1/17/24 10:17 AM	
3786634			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	2/1/24 12:00 AM	5/15/24 08:44 AM	5/15/24 08:44 AM	Alarm Dialer Route (1m) - 1541 - Alarm dialer was tested at time of generator test, all checked out OK
3786675			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	2/1/24 12:00 AM	5/15/24 08:46 AM	5/15/24 08:46 AM	Health And Safety Inspection (1m) 1541 - Health and safety inspection was completed, checked First aid kit and Fire extinguishers- All OK
3790180			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	2/1/24 12:00 AM	5/15/24 08:47 AM	5/15/24 08:47 AM	Pump Submersible Group Inspection (1m) 1541 - Pumps are all checked by running on fridays each week, No issues found at this time with available pumps. JD
3802468			1541, Mattawa Wastewater System	OPER	Refurbish/ Replace/Repair	0		STP Water Pump Repair Parts	COMP		5/15/24 08:48 AM	5/15/24 08:48 AM	STP Water Pump Repair Parts - Water pump at STP failed, Diagnosed issues to be pump starter and pressure switch.
3803584	0000328855	METER FLOW	1541, Mattawa Wastewater System	PM	Calibration	1	YEARS	Meter Flow Calibration (1y) 1541	COMP	2/8/24 12:00 AM	4/2/24 08:16 AM	4/2/24 08:16 AM	Meter Flow Calibration (1y) 1541 - verify flow meter pass mar 25/24 TF
3804397			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 1541	COMP	2/9/24 12:00 AM	5/15/24 08:49 AM	5/15/24 08:49 AM	
3805038	0000328874	GENERATOR ELECTRIC DIESEL BACKUP POWER	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	2/15/24 12:00 AM	5/15/24 08:41 AM	5/15/24 08:41 AM	Generator Monthly Test (1m) 1541 - Monthly teat was completed no issues found at this time

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3805041	0000328842	GENERATOR ELECTRIC DIESEL 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	2/15/24 12:00 AM	5/15/24 08:42 AM	5/15/24 08:42 AM	Generator Monthly Test (1m) 1541 - Monthly teat was completed no issues found at this time
3805044	0000328901	GENERATOR ELECTRIC DIESEL	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	2/15/24 12:00 AM	5/15/24 08:42 AM	5/15/24 08:42 AM	Generator Monthly Test (1m) 1541 - Monthly teat was completed no issues found at this time
3805330	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	2/16/24 12:00 AM	5/15/24 08:48 AM	5/15/24 08:48 AM	Tank Alum Inspection (1m) - 1541 - Inspected alum tank, no visual defects or leaks found at this time
3806338			1541, Mattawa Wastewater System	CAP	Refurbish/ Replace/Repair	0		McKenzie Street Pump Rebuild and Hardware for Valve Replacements	COMP		3/1/24 11:13 AM	3/1/24 11:13 AM	Pump Rebuild and Hardware for Valve Replacements - PO for Pump rebuild and hardware.
3830170			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	3/1/24 12:00 AM	5/15/24 08:45 AM	5/15/24 08:45 AM	Alarm Dialer Route (1m) - 1541 - Alarm dialer was tested at time of generator test, all checked out OK
3830177			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	3/1/24 12:00 AM	4/2/24 08:17 AM	4/2/24 08:17 AM	
3833636			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	3/1/24 12:00 AM	5/15/24 08:47 AM	5/15/24 08:47 AM	Pump Submersible Group Inspection (1m) 1541 - Pumps are all checked by running on fridays each week, No issues found at this time with available pumps. JD

Workorder Summary Report

Report Start Date: Jan 1, 2024 12:00 AM

Report End Date: Mar 31, 2024 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
3847428			1541, Mattawa Wastewater System	CAP	Refurbish/ Replace/Repair	0		Mattawa McKenzie Station Pump Rebuild	COMP		5/13/24 08:43 AM	5/13/24 08:43 AM	McKenzie Station Pump Rebuild - Cause of Failure: Rubber cord material wound up behind impeller in mechanical seal. Submersible Pump: Flygt 3.9HP, 1745RPM, 230 Volts, 17A, 60HZ, 1PH, Imp 433, Model 3102.181-1081, Serial# 3102.181-0820243. Labour to dismantle, clean, check all bearing fits, test stator windings, inspect all parts, access damage Assemble unit with new parts listed & perform no load full voltage test run. 8 95.00 760.00 Dynamic Balance Rotor & Impeller 601 89 06 Basic Repair Kit
3849524	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	3/16/24 12:00 AM	5/15/24 09:03 AM	5/15/24 09:03 AM	Tank Alum Inspection (1m) - 1541 - Alum tank inspection completed, no visual signs of defects



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MATTAWA WATER & WASTEWATER SYSTEMS

QUARTERLY OPERATIONS REPORT

Appendix C – Call-out Report for WTP

Workorder Summary Report

Report Start Date: Jan 1, 2024 12:00 AM

Report End Date: Mar 31, 2024 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
3762647			1517, Mattawa DWS	CALL	Inspection	0		Community Call Centre: Water break 3rd & Rankin	COMP		1/10/24 09:00 PM	1/10/24 11:30 PM	Water break 3rd & Rankin -Message from Lynne Lavallee, 380 3rd street regarding water break in front of house. Arrived on site to find water surfacing from crack in ashphalt road. Public works to dig first thing in morning, placed cones around site.
3802491			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV 1 Fail - 1517	COMP		1/19/24 08:15 PM	2/2/24 09:44 AM	UV 1 Fail - 1517 - 2100 on-site for uv 1 fail alarm. Found plant running on uv 2 ok. Found uv 1 to have faulted on startup due to wiper motor sensor issue. Issues unknown will contact Trojan on Monday.
3803207			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		PLC fail - Comm loss	COMP		2/1/24 02:45 AM	2/1/24 05:15 AM	PLC fail - Comm loss - Received alarm call from Josh D for PLC failure. Arrived on site to find reservoir communication alarm. Attempted to reset modems but did not restore reservoir level. Changed duty to well pump 2. Reservoir level locked in at 2.01m. Everything else looks fine.
3807186			1517, Mattawa DWS	CALL	Compliance	0		Chlorine too high alarm -1518	COMP		2/29/24 01:27 AM	2/29/24 02:59 AM	High chlorine 1517 -Received call from Telus alarms for chlorine to low. Arrived at 0150 to find chlorine too high and plant off. Reviewed trending found chlorine spiked when p2 started. Flushed in water plant to bring residual down to distribution levels. Switch back to p1 for remainder of day so the chlorine levels can dissipate in the holding tank.

Workorder Summary Report

Report Start Date: Jan 1, 2024 12:00 AM

Report End Date: Mar 31, 2024 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
3847297			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		PLC fail - Comm loss	COMP		3/4/24 03:30 AM	3/4/24 06:00 AM	PLC fail - Comm loss - Received call at 03:26 for PLC failure. Arrived on site to find plant running on comm loss to reservoir. Manually turned well pumps off and reset modem. Communication restored, placed well pumps back to auto and acknowledged UV alarms.
3847306			1517, Mattawa DWS	CALL	Inspection	0		UV 2 failure	COMP		2/29/24 05:00 PM	2/29/24 07:45 PM	UV 2 failure - Plant shutdown on UV2 failure at 16:37. Received call at 17:05 and monitored plant remotely to make sure UV1 started when called. Plant started with UV1 at 19:21. Everything else looks fine.
3849209			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Community member emergency water shut off Mattawa	COMP		3/10/24 09:40 AM	3/10/24 02:30 PM	Community member emergency water shut off Mattawa -Received a call from Josh Deewal regarding a community member needing emergency water shut off at 0940. Arrive on site at 1135, shut off water at 1155. Stayed in area as plumber was on site and able to repair leak in house. Turned on water once repair was completed.
3850334			1517, Mattawa DWS	CALL	Inspection	0		Community Call Centre: Water Break Reported Near 801 Bridges St	COMP		3/12/24 07:15 PM	3/12/24 09:15 PM	Water break call near 801 Bridges St - Received message from owner of 801 Bridges St regarding water break between their house and neighbors. Investigated in person but did not see an issue. No signs of water break in area, ditches dry. Called Barry next morning to follow up with caller.
3850335			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		PLC fail - Comm loss	COMP		3/12/24 12:45 AM	3/12/24 03:30 AM	PLC fail - Comm loss - Received call for reservoir communication loss. Left for facility but comm restored upon arrival. As per SCADA the signal came back at 01:45. Walk around facility, everything OK.



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MATTAWA WATER & WASTEWATER SYSTEMS QUARTERLY OPERATIONS REPORT

Appendix D - Call-out Report for WWTL

Workorder Summary Report

Report Start Date: Jan 1, 2024 12:00 AM

Report End Date: Mar 31, 2024 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
3765205			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		Mattawa 300 Mattawan street high level	COMP		1/28/24 04:10 PM	1/28/24 08:00 PM	Mattawa 300 Mattawan street high level -Received page at 1610, arrived on site at 1735 and both pumps were on and looked inside chamber. No high level and no evidence of high level. Tried resetting alarm, still high level alarm. Cleaned level transducer and exercised high level float. There was no build up on float. Cleared alarms, but high level alarm did not clear. Disabled high level float and alarmed cleared. Both pumps shut off and level was 0.51 m.
3806835			1541, Mattawa Wastewater System	EMER	Refurbish/ Replace/Repair	0		Mckenzie st pump 1 fail Mattawa	COMP		3/5/24 09:43 AM	3/5/24 09:43 AM	Mckenzie st pump 1 fail Mattawa - Pulled pump 1 Feb 25/24. impellar free motor wont turn. Josh D tested- fail. brought to industrial motors. pump had a repair tag july/23. TF Rebuild: See PO# 3847428 -Rebuild: See PO# 3847428



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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 05/15/2024 10:24

From: 01/01/2024 to 31/03/2024

Facility: [1517] MATTAWA DRINKING WATER SYSTEM

Works: [210001905]

	01/2024	02/2024	03/2024	<--Total-->	<--Avg.-->	<--Max.-->	<--Min.-->
Flows:							
Raw Flow: Monthly Total - Well #1 (m³)	46278.96	41670.74	31550.61	119500.31			
Raw Flow: Monthly Total - Well #2 (m³)	3648.79	4396	3981.2	12026			
Raw Flow: Monthly Avg - Well #1 (m³/d)	1492.87	1436.92	1017.76		1315.85		
Raw Flow: Monthly Avg - Well #2 (m³/d)	117.7	151.59	128.43		132.57		
Raw Flow: Monthly Max - Well #1 (m³/d)	1794.86	1529.73	1761.56			1794.86	
Raw Flow: Monthly Max - Well #2 (m³/d)	400.95	421.22	524.61			524.61	
Raw Flow: Monthly Total - Raw Water - Total (m³)	49927.75	46066.75	35531.81	131526.31			
Raw Flow: Monthly Avg - Raw Water - Total (m³/d)	1610.57	1588.51	1146.19		1448.42		
Raw Flow: Monthly Max - Raw Water - Total (m³/d)	1820.95	1747.74	1761.56			1820.95	
Turbidity:							
Raw: Max Turbidity - Well #1 (NTU)	0.26	0.24	0.24			0.26	
Raw: Max Turbidity - Well #2 (NTU)	0.27	0.28	0.22			0.28	
Chemical Parameters:							
Treated: Max Nitrite - TW (mg/L)	< 0.003					< 0.003	
Treated: Max Nitrate - TW (mg/L)	1.75					1.75	
Distribution: Max THM - DW (µg/l)	3.5					3.5	
Chlorine Residuals:							
Treated: Min Free Cl2 Resid - TW (mg/L)	0.355	0.3	0.275				0.275
Treated: Max Free Cl2 Resid - TW (mg/L)	2.872	3.903	3.888			3.903	
Dist: Min Free Cl2 Resid - DW (mg/L)	0.457	0.311	0.44				0.311
Dist: Max Free Cl2 Resid - DW (mg/L)	2.783	3.286	2.958			3.286	
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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MATTAWA WATER & WASTEWATER SYSTEMS

QUARTERLY OPERATIONS REPORT

Appendix F - Performance Assessment Report Wastewater

Performance Assessment Report

From: 01/01/2024 to 31/03/2024

1541 MATTAWA WASTEWATER TREATMENT FACILITY 110000436

	1 / 2024	2/ 2024	3/ 2024	<--Total-->	<--Avg-->	<--Max-->	<-Criteria-->
--	----------	---------	---------	-------------	-----------	-----------	---------------

Flows

Raw Flow: Total - Raw m³/d	20,129.83	19,437.50	21,651.14	61,218.47			0.00
Raw Flow: Avg - Raw m³/d	649.35	670.26	698.42		672.73		
Raw Flow: Max - Raw m³/d	718.54	766.85	824.11			824.11	0.00
Raw Flow: Count - Raw m³/d	31.00	29.00	31.00	91.00			0.00
Eff. Flow: Total - Eff m³/d	20,129.83	19,437.50	21,651.14	61,218.47			0.00
Eff. Flow: Avg - Eff m³/d	649.35	670.26	698.42		672.73		
Eff. Flow: Max - Eff m³/d	718.54	766.85	824.11			824.11	0.00
Eff Flow: Count - Eff m³/d	31.00	29.00	31.00	91.00			0.00

Carbonaceous Biochemical Oxygen Demand: CBOD

Eff: Avg cBOD5 - Eff mg/L	5.00	7.00	14.00		8.67	14.00	25.00
Eff: # of samples of cBOD5 - Eff	1.00	1.00	1.00	3.00			0.00
Loading: cBOD5 - Eff kg/d	3.247	4.692	9.778		5.83	9.78	

Biochemical Oxygen Demand: BOD5

Raw: Avg BOD5 - Raw mg/L	153.00	139.00	124.00		138.67	153.00	0.00
Raw: # of samples of BOD5 - Raw	1.00	1.00	1.00	3.00			0.00
Eff: Avg BOD5 - Eff mg/L	9.00	4.00	16.00		9.67	16.00	30.00
Eff: # of samples of BOD5 - Eff	1.00	1.00	1.00	3.00			0.00
Loading: BOD5 - Eff kg/d	5.844	2.681	11.175		6.50	11.17	
Percent Removal: BOD5 - Raw %	0.00	0.00	0.00		0.00		0.00

Total Suspended Solids: TSS

Raw: Avg TSS - Raw mg/L	136.00	194.00	149.00		159.67	194.00	0.00
Raw: # of samples of TSS - Raw	1.00	1.00	1.00	3.00			0.00
Eff: Avg TSS - Eff mg/L	11.00	8.60	18.40		12.67	18.40	30.00
Eff: # of samples of TSS - Eff	1.00	1.00	1.00	3.00			0.00
Loading: TSS - Eff kg/d	7.143	5.764	12.851		8.52	12.85	
Percent Removal: TSS - Raw %	0.00	0.00	0.00		0.00		0.00

Total Phosphorus: TP

Performance Assessment Report

From: 01/01/2024 to 31/03/2024

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 %

	3.28		2.78		2.42			2.83		3.28		0.00
	1.00		1.00		1.00		3.00					0.00
	0.98		0.87		1.36			1.06		1.36		2.50
	5.00		4.00		4.00		13.00					0.00
	0.604		0.690		0.705			0.71		0.71		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

	18.22		20.53		20.45			19.62		20.53		
	0.07		0.11	<	0.05			0.08		0.11		0.00
	1.00		1.00		1.00		3.00					0.00
<	0.05		0.07	<	0.05			0.06	<	0.07		0.00
	1.00		1.00		1.00		3.00					0.00