

SYSTEM OVERVIEW

January 1st to March 31st, 2023

OPERATIONAL HIGHLIGHTS

Drinking Water System

- The water treatment system operated well during the first quarter.

Wastewater Treatment

- The wastewater treatment system performed well during the first quarter.

CAPITAL PLAN PROGRESS

Drinking Water System

- TrojanUV Optiview failed. New seals and drive motor installed before returning to service.
- New UV #1 and #2 treatment units installed to replace old obsolete units.
- Reservoir level sensor failed and was replaced with spare. New spare purchased.
- Backflow preventer repaired.

Wastewater Treatment System

- Alum tank level sensor failed. Replacement on order.

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 2023 and all results fell within regulatory limits.

- One best practice recommendations from past MECP inspection now resolved. Two new functional UV units.
- 2022 annual report completed January 27, 2023.
- Permit to take Water (PTTW) reporting completed January 19, 2023.
- Quarterly trihalomethanes (THM), haloacetic acids (HAA), Nitrate and Nitrite, Sodium and Fluoride sampling completed January 24, 2023. Lab lost the Fluoride sample in transit to sub-lab, Fluoride re-sampled February 15, 2023.
- Mattawa eligible for free light-emitting diode (LED) upgrades.
- No Ministry of the Environment Conservation and Parks (MECP) or Ministry of Labour (MOL) inspections conducted this quarter.
- Flow meter verifications completed.
- PTTW renewal application completed on February 9, 2023.
- All required sewage samples required under the system's Environmental Compliance Approval (ECA) were collected and tested in the first quarter of 2023.
- 2022 annual sewage report completed February 17, 2023.
- Annual WSER reporting completed February 13, 2023.

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 H&S Workplace Inspection Program.
- Staff training completed on Hearing Protection.
- Staff training completed on Eyewash Requirements.
- 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, 2023 12:00 AM

Report End Date: Mar 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
3181493	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	CLOSE	1/1/23 12:00 AM	2/12/23 07:17 PM	2/12/23 07:17 PM	
3181496	0000328770	UV LIGHT REACTOR #1	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	CLOSE	1/1/23 12:00 AM	2/12/23 06:46 PM	2/12/23 06:46 PM	UVR Reference Sensor check (UV#1) (1m / 1y) 1517 - UV 1 still out of service
3181499	0000328771	UV LIGHT REACTOR #2	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	CLOSE	1/1/23 12:00 AM	2/12/23 06:48 PM	2/12/23 06:48 PM	UVR Reference Sensor check (UV#2) (1m / 1y) 1517 - UV 2 Reference sensor check completed, Pass
3181573			1517, Mattawa DWS	PM	Inspection	3	MONTHS	Replace UV Air Filters 1517	CLOSE	1/1/23 12:00 AM	2/12/23 07:18 PM	2/12/23 07:18 PM	Replace UV Air Filters 1517 - New reactors are set to be installed, visually checked UV 2 filters and they were not too dirty, reinstalled them
3181581	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	CLOSE	1/1/23 12:00 AM	2/12/23 07:19 PM	2/12/23 07:19 PM	
3181602			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Critical Alarm Dialer Route (1m) - 1517	CLOSE	1/1/23 12:00 AM	2/12/23 07:01 PM	2/12/23 07:01 PM	Critical Alarm Dialer Route (1m) - 1517 - Multiple alarms during the month caused the alarming, and checked during generator testing. All OK
3181616	0000328801	PUMP DIAPHRAGM 01 SODIUM HYPOCHLORITE	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Diaphragm Inspection (1y) 1517	CLOSE	1/1/23 12:00 AM	2/12/23 07:20 PM	2/12/23 07:20 PM	Pump Diaphragm Inspection (1y) 1517 - Inspection and calibration completed. All OK
3181622	0000328802	PUMP DIAPHRAGM 02 SODIUM HYPOCHLORITE	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Diaphragm Inspection (1y) 1517	CLOSE	1/1/23 12:00 AM	2/12/23 07:21 PM	2/12/23 07:21 PM	Pump Diaphragm Inspection (1y) 1517 - Inspection and calibration completed. All OK
3181628			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	CLOSE	1/1/23 12:00 AM	2/12/23 07:24 PM	2/12/23 07:24 PM	
3181641			1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	Annual Facility Valves Inspection (1y) 1517	CLOSE	1/1/23 12:00 AM	2/12/23 07:19 PM	2/12/23 07:19 PM	Annual Facility Valves Inspection (1y) 1517 - All valving checked in prep for UV installs, all OK

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3181648	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	CLOSE	1/1/23 12:00 AM	2/12/23 06:53 PM	2/12/23 06:53 PM	Valve Regulating Inspection (1m) 1517 - Valves located in the WTP are visually inspected weekly and operated monthly, no issues found to date
3181653	0000328757	VALVE RELIEF	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	Valve Relief Air Insp/Service (1y) 1517	CLOSE	1/1/23 12:00 AM	2/12/23 07:24 PM	2/12/23 07:24 PM	
3181656	0000328762	VALVE RELIEF	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	Valve Relief Air Insp/Service (1y) 1517	CLOSE	1/1/23 12:00 AM	2/12/23 07:24 PM	2/12/23 07:24 PM	
3181893			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	CLOSE	1/1/23 12:00 AM	2/12/23 07:23 PM	2/12/23 07:23 PM	Analyzer Chlorine Inspection/ Service (1m) 1517 - Changed the flow cell, cleaned all components and reinstalled all ok
3203486			1517, Mattawa DWS	PM	Calibration	1	YEARS	PH Analyzer change Probe & Calibration (POE) (1y) 1517	CLOSE	1/13/23 12:00 AM	2/12/23 07:22 PM	2/12/23 07:22 PM	PH Analyzer change Probe & Calibration (POE) (1y) 1517 - Changed the flow cell, cleaned all components and reinstalled all ok
3228961	0000328787	ANALYZER UV TRANSMITTANCE	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	3	MONTHS	UV Transmitter Optiview calibration (3m) 1517	COMP	2/1/23 12:00 AM	5/15/23 06:54 AM	5/15/23 06:54 AM	UV Transmitter Optiview calibration (3m) 1517 - Checked against handheld, within specs, no calibration needed
3228972	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	2/1/23 12:00 AM	5/15/23 06:55 AM	5/15/23 06:55 AM	Generator Monthly Test (1m) 1517 - Test ok
3228975	0000328770	UV LIGHT REACTOR #1	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	CLOSE	2/1/23 12:00 AM	2/12/23 06:46 PM	2/12/23 06:46 PM	UVR Reference Sensor check (UV#1) (1m / 1y) 1517 - UV 1 still out of service
3228978	0000328771	UV LIGHT REACTOR #2	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	2/1/23 12:00 AM	5/15/23 06:53 AM	5/15/23 06:53 AM	UVR Reference Sensor check (UV#2) (1m / 1y) 1517 - Reference check completed, Pass
3229041	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	2/1/23 12:00 AM	5/15/23 06:56 AM	5/15/23 06:56 AM	UVT Analyzer calibration to yellow box (1m) 1517 - Optiview- 100%, Yellowbox 99.8, all oK
3229062			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Critical Alarm Dialer Route (1m) - 1517	COMP	2/1/23 12:00 AM	5/15/23 06:51 AM	5/15/23 06:51 AM	Critical Alarm Dialer Route (1m) - 1517 - Completed during generator test all ok. no issues found.

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3229071			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	2/1/23 12:00 AM	5/15/23 06:52 AM	5/15/23 06:52 AM	Health And Safety Inspection (1m) 1517 - Completed, visually checked first aid kits all ok. no issues found.
3229094	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	2/1/23 12:00 AM	5/15/23 06:57 AM	5/15/23 06:57 AM	Valve Regulating Inspection (1m) 1517 - Checked all valves, no physical issues found
3229219			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	2/1/23 12:00 AM	5/15/23 07:01 AM	5/15/23 07:01 AM	Analyzer Chlorine Inspection/ Service (1m) 1517 - Analyzer compared to handheld weekly, no issues found to date
3244873			1517, Mattawa DWS	CAP	Compliance	0		Mattawa Permit to Take Water Renewal	COMP		2/8/23 02:18 PM	3/8/23 03:19 PM	Mattawa Permit to Take Water Renewal - Mattawa Permit to Take Water Renewal Application completed by Josh Gravelle.
3246091			1517, Mattawa DWS	CORR	Refurbish/ Replace/Repair	0		New level sensor for Mattawa reservoir	COMP		3/2/23 02:42 PM	3/2/23 02:42 PM	New level sensor for Mattawa reservoir -A new level sensor from Davis controls has been order unit price is 897 as per quote 90138336 from Davis controls. Ordered on 2/16/23
3271905	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	3/1/23 12:00 AM	5/15/23 07:02 AM	5/15/23 07:02 AM	
3271908			1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	3/1/23 12:00 AM	5/15/23 07:02 AM	5/15/23 07:02 AM	
3271911	0000349409	ANALYZER UV #1 DUTY #1	1517, Mattawa DWS	PM	Calibration	0		0000349409 SENSOR UV #1 DUTY #1	COMP	3/1/23 12:00 AM	5/15/23 07:02 AM	5/15/23 07:02 AM	
3271914	0000349407	ANALYZER UV #1 DUTY #2	1517, Mattawa DWS	PM	Calibration	0		0000349407 SENSOR UV #1 DUTY #2	COMP	3/1/23 12:00 AM	5/15/23 07:02 AM	5/15/23 07:02 AM	
3271917	0000349404	ANALYZER UV REFERENCE #1	1517, Mattawa DWS	PM	Calibration	0		0000349404 SENSOR UV REFERENCE #1	BUSCOMP	3/1/23 12:00 AM	5/15/23 07:02 AM	5/15/23 07:02 AM	0000349404 SENSOR UV REFERENCE #1 - Uv reference checked passed
3271920	0000349405	ANALYZER UV REFERENCE #2	1517, Mattawa DWS	PM	Calibration	0		0000349405 SENSOR UV REFERENCE #2	BUSCOMP	3/1/23 12:00 AM	5/15/23 07:02 AM	5/15/23 07:02 AM	0000349405 SENSOR UV REFERENCE #2 - UV passed referecnce sensor checks, all ok

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3271932	0000349406	ANALYZER UV #2 DUTY #1	1517, Mattawa DWS	PM	Calibration	0		0000349406 SENSOR UV #2 DUTY #1	COMP	3/1/23 12:00 AM	5/15/23 07:06 AM	5/15/23 07:06 AM	0000349406 SENSOR UV #2 DUTY #1 - UV reference sensor check completed and passed, no issues found
3271935	0000349408	ANALYZER UV #2 DUTY #2	1517, Mattawa DWS	PM	Calibration	0		0000349408 SENSOR UV #2 DUTY #2	COMP	3/1/23 12:00 AM	5/15/23 07:06 AM	5/15/23 07:06 AM	0000349408 SENSOR UV #2 DUTY #2 - UV reference sensor check completed and passed, no issues found
3271991			1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	UVR Service (Spring & Fall) 1517	COMP	3/1/23 12:00 AM	5/15/23 07:08 AM	5/15/23 07:08 AM	UVR Service (Spring & Fall) 1517 - Both reactors newly installed no servce required at this time
3271998	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	3/1/23 12:00 AM	5/15/23 07:08 AM	5/15/23 07:08 AM	
3272036			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Critical Alarm Dialer Route (1m) - 1517	COMP	3/1/23 12:00 AM	5/15/23 07:10 AM	5/15/23 07:10 AM	
3272045			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	3/1/23 12:00 AM	5/15/23 07:10 AM	5/15/23 07:10 AM	Health And Safety Inspection (1m) 1517 - Checked all first aid kits and stations, all ok
3272056	0000328772	TANK STORAGE HOT WATER	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Hot Water Insp. (1y) - 1517	COMP	3/1/23 12:00 AM	5/15/23 07:09 AM	5/15/23 07:09 AM	Tank Hot Water Insp. (1y) - 1517 - No leaks
3272061	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	3/1/23 12:00 AM	5/15/23 07:13 AM	5/15/23 07:13 AM	
3272135			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	3/1/23 12:00 AM	5/15/23 07:13 AM	5/15/23 07:13 AM	
3289034			1517, Mattawa DWS	OPER	Predictive Maintenance	0		Installation parts/Tools/Cleaning Aids For new UV reactors-1517	COMP		3/9/23 04:57 PM	3/9/23 04:57 PM	Installation parts/Tools/Cleaning Aids For new UV reactors-1517 - Odds and ends parts for uv install, tools and cleaning aids to better care for new uv reactors.

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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
3289035	0000328758	VALVE REGULATING	1517, Mattawa DWS	CORR	Refurbish/ Replace/Repair	0		Parts For Singer Valve Pressure control-1517	COMP		3/9/23 05:01 PM	3/9/23 05:01 PM	Parts For Singer Valve Pressure control-1517 - Brass fittings for plumbing on the control portion of the singer valve
3289689			1517, Mattawa DWS	CAP	Predictive Maintenance	0		Free chlorine Residual DPD Packs/ Chlorine analyzer PH Buffer	COMP		3/15/23 12:27 PM	3/21/23 01:04 PM	Free chlorine Residual DPD Packs/ Chlorine analyzer PH Buffer - Quote from HACH Canada, Quote # 100891403, all to ne ordered March 15/23 Order Details - DPD FREE CHLORINE RGT 10 ML, PK/1000 Item # 2105528-CA KTO: PH BUFFER SOLUTION KIT 500mL Item # 2947600
3290643			1517, Mattawa DWS	CORR	Refurbish/ Replace/Repair	0		UV 1 & 2 cooling water parts	COMP		5/15/23 07:07 AM	5/15/23 07:07 AM	-2- 2" ball valves 2- 1/2" auto air relief Parts were ordered and arrived March 21/23. Pickup parts on March 22/23. JD



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Northeastern Ontario Region

MATTAWA WATER & WASTEWATER SYSTEMS QUARTERLY OPERATIONS REPORT

Appendix B - Work Order Summary for WWTL

Workorder Summary Report

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

Report End Date: Mar 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
3181722			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	CLOSE	1/1/23 12:00 AM	2/12/23 07:23 PM	2/12/23 07:23 PM	
3181736			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	CLOSE	1/1/23 12:00 AM	2/12/23 07:23 PM	2/12/23 07:23 PM	
3186366			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	CLOSE	1/1/23 12:00 AM	2/12/23 07:04 PM	2/12/23 07:04 PM	Pump Submersible Group Inspection (1m) 1541 - Visually checked pumps, switched from hand to manual, no issues seen at this time
3203912	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	CLOSE	1/16/23 12:00 AM	2/12/23 06:43 PM	2/12/23 06:43 PM	Tank Alum Inspection (1m) - 1541 - Visual inspection of alum tank completed weekly, no issues found, no leaks found
3229124			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	2/1/23 12:00 AM	5/15/23 06:57 AM	5/15/23 06:57 AM	
3229131	0000328891	PUMP PERISTALTIC 01	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Peristaltic 01 Alum Insp/ Service (1y) - 1541	COMP	2/1/23 12:00 AM	5/15/23 06:59 AM	5/15/23 06:59 AM	Pump Peristaltic 01 Alum Insp/ Service (1y) - 1541 - Visually inspected, all ok, ran pump at max for 2 min. no issues found
3229148	0000328892	PUMP PERISTALTIC 02	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Peristaltic 01 Alum Insp/ Service (1y) - 1541	COMP	2/1/23 12:00 AM	5/15/23 06:59 AM	5/15/23 06:59 AM	Pump Peristaltic 01 Alum Insp/ Service (1y) - 1541 - Visually inspected, all ok, ran pump at max for 2 min. no issues found
3229165			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	2/1/23 12:00 AM	5/15/23 07:00 AM	5/15/23 07:00 AM	Health And Safety Inspection (1m) 1541 - Visual inispecton of fre extinguishers and first aid kits, all ok
3232768			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	CLOSE	2/1/23 12:00 AM	2/12/23 07:05 PM	2/12/23 07:05 PM	Pump Submersible Group Inspection (1m) 1541 - Visually checked pumps, switched from hand to manual, no issues seen at this time

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3245162			1541, Mattawa Wastewater System	CAP	Refurbish/ Replace/Repair	0		Alum Order For Lagoon-1541	COMP		3/14/23 02:55 PM	3/14/23 02:55 PM	Alum Order For Lagoon-1541 - Yearly order of Alum Alum Order Details - KEMIRA ALS BULK 24,990.000 KG 386.0000 CN code: 2833220000 Net weight: 24,990.000 KG 55,093.564 LB Gross weight: 24,990.000 KG 55,093.564 LB Delivery no / Date:85813573 / 02/13/2023 UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminium sulphate), 8, PGIII, RQ Country of Origin: CA 24,990.000 KG
3245938	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	2/16/23 12:00 AM	5/15/23 07:02 AM	5/15/23 07:02 AM	Tank Alum Inspection (1m) - 1541 - CHecked alum tank no issues found
3272072			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	3/1/23 12:00 AM	5/15/23 07:13 AM	5/15/23 07:13 AM	
3272079			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	3/1/23 12:00 AM	5/15/23 07:13 AM	5/15/23 07:13 AM	
3275630			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	3/1/23 12:00 AM	5/15/23 07:13 AM	5/15/23 07:13 AM	Pump Submersible Group Inspection (1m) 1541 - All pumps operated in manual, all ok
3287418	0000328887	VALVE SLUICE GATE DIVERSION CHAMBER	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Sluice Gate Inspection (1y) 1541	COMP	4/1/23 12:00 AM	5/15/23 07:12 AM	5/15/23 07:12 AM	Sluice Gate Inspection (1y) 1541 - Moved sluice gate up and down, all ok
3287552			1541, Mattawa Wastewater System	CAP	Health and Safety	0		Lagoon Generator Health & Safety Guarding	COMP		3/2/23 08:00 AM	3/2/23 08:00 AM	Generator Health & Safety Guarding - Installed cages around moving parts on generator to remove risk of injury.
3287553			1541, Mattawa Wastewater System	CAP	Health and Safety	0		Mattawan Sewage Pump Station Generator: Health & Safety Guarding	COMP		3/2/23 08:04 AM	3/2/23 08:04 AM	Health & Safety Guarding - Installed cage around moving parts on the SPS generator to avoid potential for injury.

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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
3289242	0000328874	GENERATOR ELECTRIC DIESEL BACKUP POWER	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	3/12/23 12:00 AM	5/15/23 07:11 AM	5/15/23 07:11 AM	Generator Monthly Test (1m) 1541 - generator test ok
3289245	0000328842	GENERATOR ELECTRIC DIESEL 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	3/12/23 12:00 AM	5/15/23 07:11 AM	5/15/23 07:11 AM	Generator Monthly Test (1m) 1541 - Generator test OK
3289248	0000328901	GENERATOR ELECTRIC DIESEL	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	3/12/23 12:00 AM	5/15/23 07:11 AM	5/15/23 07:11 AM	Generator Monthly Test (1m) 1541 - Generator test OK
3289729	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	3/16/23 12:00 AM	5/15/23 07:07 AM	5/15/23 07:07 AM	0000349408 SENSOR UV #2 DUTY #2 - no leaks in the alum tank



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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, 2023 12:00 AM

Report End Date: Mar 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
3204360			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Low chlorine Mattawa WTP	COMP		1/13/23 07:40 PM	1/17/23 01:06 PM	Low chlorine Mattawa WTP -Received low chlorine alarm at 1940 arrived on site at 2125. Reset alarms and looked at trending. Reservoir was at 1.35 m and P POE was at 0.65 mg/L. Changed chlorine duty pumps and increased chlorine factor from 88 to 93.
3204362			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		High chlorine and lamp 2 fail in UV #2	COMP		1/14/23 08:00 AM	1/17/23 01:12 PM	High chlorine and UV lamp fail Mattawa -received a call in for high chlorine at 4:36 AM logged into Wonderware and checked POE was at 3.65 mg/L and all chlorine residual is at 2.98 mg perL and reservoir level was 2.91 m. Arrived on site at 8:45 adjusted well number one factor from 93 to 90%. POE chlorine 2.05 mg/L and old at 1.42 mg/L and reservoir level at 2.11 m. Started up plant and UV failure due to lamp failure replace lamp two on UV system start system back up and monitor UV dosage. Return pump one into duty and reduce stroke from 65 to 55% and monitor plant
3288206			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Pump 2 Fail 400 Bissett - 1517	COMP		2/18/23 01:45 AM	2/18/23 02:30 AM	Pump 2 Fail 400 Bissett - 1517 - Saturday - called at 0145 for p2 fail. Remotely logged in and found plant shut down. Reviewed trending and reservoir had filled to capacity. Unsure why p2 failed alarm was engaged.

Workorder Summary Report

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

Report End Date: Mar 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
3246883			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		High Chlorine Alarm	COMP		2/19/23 06:15 AM	2/19/23 07:15 AM	High Chlorine Alarm - Received alarm from call center for high chlorine residual. Logged in and POE chlorine was 3.72mg/L but dropping. Reviewing at the data, it looks like residual increases much more on pump#2 runs. Reduced P#2 pump factor from 0.95 to 0.90. POE residual has dropped below 2.75mg/L since I have been online.
3289971			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		WTP Low Level Alarm-1517	COMP		3/11/23 08:00 AM	3/17/23 11:35 AM	WTP Low Level Alarm-1517 - 17:00
3289973			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		WTP Low Level Alarm-1517	COMP		3/12/23 07:15 PM	3/17/23 11:40 AM	WTP Low Level Alarm-1517 -
3289974			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		WTP Low Level Alarm-1517	COMP		3/13/23 06:30 AM	3/13/23 06:45 AM	WTP Low Level Alarm-1517 -
3291703	0000349401	PUMP DIAPHRAGM 03 SODIUM HYPOCHLORITE	1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Low chlorine alarm -1517	COMP		3/29/23 06:53 PM	3/29/23 07:44 PM	Chlorine leak on metcon board -Found leaking fitting on chlorine pump 1. Changed fitting. Tested. All ok no more leaks



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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, 2023 12:00 AM

Report End Date: Mar 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
3201216			1541, Mattawa Wastewater System	CALL	Community Complaint	0		300 Mattawan pump station, noise	CLOSE		12/31/22 09:30 AM	1/3/23 10:47 AM	300 Mattawan pump station, noise - Josh received a community complaint at 0230 regarding a banging at lift station at 300 Mattawan street. arrived on site at 1110, checked lift stations for alarms, none. Tested both pumps and no abnormal sounds on start up or shut down noticed. Locked up site.
3243852			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		101 Bissett High level alarm -1541	COMP		1/25/23 06:45 PM	1/25/23 08:00 PM	101 Bissett High level alarm -1541 - 1901- On-site at 101 first st for high level alarm. found pumps to be tripped. Reset pumps and seems to be pumping down quickly. Will monitor pumps.



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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 05/15/2023 15:27

From: 01/01/2023 to 31/03/2023

Facility: [1517] MATTAWA DRINKING WATER SYSTEM

Works: [210001905]

	01/2023	02/2023	03/2023	<--Total-->	<--Avg.-->	<--Max.-->	<--Min.-->
Flows:							
Raw Flow: Monthly Total - Well #1 (m³)	29573.39	31770.65	35667.46	97011.5			
Raw Flow: Monthly Total - Well #2 (m³)	4198.97	2044.24	2741.36	8984.57			
Raw Flow: Monthly Avg - Well #1 (m³/d)	953.98	1134.67	1150.56		1079.74		
Raw Flow: Monthly Avg - Well #2 (m³/d)	135.45	73.01	88.43		98.96		
Raw Flow: Monthly Max - Well #1 (m³/d)	1202.81	1244.95	1321.85			1321.85	
Raw Flow: Monthly Max - Well #2 (m³/d)	448.98	405.9	407.54			448.98	
Raw Flow: Monthly Total - Raw Water - Total (m³)	33772.36	33814.89	38408.82	105996.07			
Raw Flow: Monthly Avg - Raw Water - Total (m³/d)	1089.43	1207.67	1238.99		1178.7		
Raw Flow: Monthly Max - Raw Water - Total (m³/d)	1361.02	1377.41	1466.11			1466.11	
Turbidity:							
Raw: Max Turbidity - Well #1 (NTU)	0.29	0.27	0.31			0.31	
Raw: Max Turbidity - Well #2 (NTU)	0.25	0.3	0.29			0.3	
Chemical Parameters:							
Treated: Max Nitrite - TW (mg/L)	< 0.1					< 0.1	
Treated: Max Nitrate - TW (mg/L)	1.66					1.66	
Distribution: Max THM - DW (µg/l)	< 6					< 6	
Chlorine Residuals:							
Treated: Min Free Cl2 Resid - TW (mg/L)	0.185	0.409	0.092				0.092
Treated: Max Free Cl2 Resid - TW (mg/L)	4.014	4.029	3.972			4.029	
Dist: Min Free Cl2 Resid - DW (mg/L)	0.322	0.491	0.193				0.193
Dist: Max Free Cl2 Resid - DW (mg/L)	3.013	1.626	1.822			3.013	
Bacti Samples Collected:							
Raw Bacti: # of samples - Well #1	4	5	4	13			
Raw Bacti: # of samples - Well #2	4	5	4	13			
Treated Bacti: # of samples - TW	4	5	4	13			
Dist Bacti: # of samples - DW	12	19	12	43			
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

1541 MATTAWA WASTEWATER TREATMENT FACILITY 110000436

	1 / 2023	2/ 2023	3/ 2023	<--Total-->	<--Avg-->	<--Max-->
Flows						
Raw Flow: Total - Raw m ³ /d	21,130.00	19,865.00	21,283.74	62,278.74		
Raw Flow: Avg - Raw m ³ /d	681.61	709.46	686.57		692.55	
Raw Flow: Max - Raw m ³ /d	902.00	980.00	840.43			980.00
Raw Flow: Count - Raw m ³ /d	31.00	28.00	31.00	90.00		
Eff. Flow: Total - Eff m ³ /d	21,130.00	19,865.00	21,283.74	62,278.74		
Eff. Flow: Avg - Eff m ³ /d	681.61	709.46	686.57		518.99	
Eff. Flow: Max - Eff m ³ /d	902.00	980.00	840.43			980.00
Eff Flow: Count - Eff m ³ /d	31.00	28.00	31.00	90.00		
Carbonaceous Biochemical Oxygen Demand: CBOD						
Eff: Avg cBOD5 - Eff mg/L	5.80	7.90	9.00		9.70	9.00
Eff: # of samples of cBOD5 - Eff	1.00	1.00	1.00	3		
Loading: cBOD5 - Eff kg/d	3.953	5.605	6.179		5.03	6.18
Biochemical Oxygen Demand: BOD5						
Raw: Avg BOD5 - Raw mg/L	145.20	151.00	162.00		133.23	162.00
Raw: # of samples of BOD5 - Raw	1.00	1.00	1.00	3		
Eff: Avg BOD5 - Eff mg/L	9.90	11.10	12.00		13.95	12.00
Eff: # of samples of BOD5 - Eff	1.00	1.00	1.00	3		
Loading: BOD5 - Eff kg/d	6.748	7.875	8.239		7.24	8.24
Percent Removal: BOD5 - Raw %	0.00	0.00	0.00		0.00	
Total Suspended Solids: TSS						
Raw: Avg TSS - Raw mg/L	175.00	143.00	174.00		141.25	175.00
Raw: # of samples of TSS - Raw	1.00	1.00	1.00	3		
Eff: Avg TSS - Eff mg/L	14.30	14.00	17.10		20.65	23.20
Eff: # of samples of TSS - Eff	1.00	1.00	1.00	3		
Loading: TSS - Eff kg/d	9.747	9.933	11.740		10.72	11.74
Percent Removal: TSS - Raw %	0.00	0.00	0.00		0.00	
Total Phosphorus: TP						
Raw: Avg TP - Raw mg/L	3.31	2.87	4.38		2.99	4.38
Raw: # of samples of TP - Raw	1.00	1.00	1.00	3		
Eff: Avg TP - Eff mg/L	2.41	2.29	1.51		2.07	2.41
Eff: # of samples of TP - Eff	4.00	5.00	4.00	13		
Loading: TP - Eff kg/d	1.636	1.759	1.195		1.08	1.76
Percent Removal: TP - Raw %	0.00	0.00	0.00		0.00	
Nitrogen Series						
Eff: Avg TAN - Eff mg/L	17.65	17.44	18.25		18.22	18.25
Eff: Avg NO3-N - Eff mg/L	1.00	1.00	1.00		1.00	
Eff: # of samples of NO3-N - Eff	1.00	1.00	1.00	3		
Eff: Avg NO2-N - Eff mg/L	0.10	0.10	0.10		0.10	
Eff: # of samples of NO2-N - Eff	1.00	1.00	1.00	3		