

SYSTEM OVERVIEW

July 1st to September 30th , 2021

OPERATIONAL HIGHLIGHTS

Drinking Water System

- The water treatment system operated well during the third quarter.
- Town of Mattawa completed a curb stop replacement on 12th and Bissett.
- Annual flushing started by the Town of Mattawa.

Wastewater Treatment

- The wastewater treatment system performed well during the third quarter.
- Thieves cut through the chain link fence at Blake Station and stole all the electrical cable associated with the Xylem pump control panel rental. Replacement cable purchased.

CAPITAL PLAN PROGRESS

Drinking Water System

- Electrical storm damaged equipment at the reservoir. Replacement level sensor and two loop isolator cards ordered.
- UV system failure. Refurbished programmable logic controllers (PLC) ordered.
- Changed PLC in SCADA and in UV #2 to test for continual issues. Changed SCADA and UV connectors on the PLCs. Issues are still unknown as to its origins.

Wastewater Treatment

- Blake Station: The surge valve, air relief valve and pressure gauge were replaced. The original equipment was severely corroded, inoperable and allowing water hammer to impact the headworks. The new valves are operating properly and the system is no longer experiencing water hammer.
- Blake Station pump panel breaker replaced.

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 third quarter of 2021 and all results fell within regulatory limits.
- There was no Ministry of the Environment, Conservation and Parks (MECP) or Ministry of Labour (MOL) inspections conducted this quarter.
- Quarterly trihalomethanes (THM), haloacetic acids (HAA), Nitrate and Nitrite sampling completed July 27, 2021.
- 36-month sampling, Schedule 23/24, completed September 8, 2021.
- Annual above ground well inspections completed September 9, 2021, for both wells.
- Internal audit completed on DWQMS 2.0 and annual risk assessment review completed on September 9, 2021. Five Opportunities for Improvement (OFI) identified and addressed.
- Operational Plan updated September 22, 2021 due to recent internal audit findings.
- All sewage samples required under the system's C of A collected and tested in the third quarter of 2021.

INCIDENTS AND COMPLAINTS

Mattawa Drinking Water System

Incident	Community Complaint – 700 Rankin St.
Date	August 26, 2021
Details	700 Rankin St. (Lynn Bastien) - Home owner told the Town of Mattawa Operator about brown dirty water while bathing children in the tub and also showing up in the toilet (had pictures). The Town of Mattawa flushed area where home owner lives, which would be Rankin St. on August 27, 2021 at 0800. Source is older piping with rust build up.

Mattawa Wastewater System

- Nothing to report for the Wastewater System in the 3rd Quarter.

HEALTH AND SAFETY

- Staff training completed on SCBA Application and Maintenance.
- Staff training completed on SDS/MSDS.
- Staff training completed on OCWA's OHSS Resource Portal.

MATTAWA DRINKING WATER SYSTEM PERFORMANCE

See Appendix E – Performance Assessment Report Water

MATTAWA WASTEWATER TREATMENT LAGOON – WASTEWATER FLOW SUMMARY

See Appendix E – 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: Jul 1, 2021 12:00 AM
Report End Date: Sep 30, 2021 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
2345451	0000328763	ANALYZER TURBIDITY PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Turbidity Analyzer Calibration (1m) 1517	COMP	7/1/21 12:00 AM	11/15/21 12:56 PM	11/15/21 12:56 PM	
2345456	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	7/1/21 12:00 AM	11/15/21 12:56 PM	11/15/21 12:56 PM	
2345459	0000328770	UV LIGHT REACTOR #1	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	7/1/21 12:00 AM	11/15/21 12:57 PM	11/15/21 12:57 PM	
2345464	0000328771	UV LIGHT REACTOR #2	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	7/1/21 12:00 AM	11/15/21 12:56 PM	11/15/21 12:56 PM	
2345469	0000328765	ANALYZER CHLORINE UNIT #3 PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Portable chlorine Analyzer #3 Calibration (1m) 1517	COMP	7/1/21 12:00 AM	11/15/21 12:57 PM	11/15/21 12:57 PM	
2345514			1517, Mattawa DWS	PM	Inspection	3	MONTHS	Replace UV Air Filters 1517	COMP	7/1/21 12:00 AM	11/15/21 12:57 PM	11/15/21 12:57 PM	
2345522	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	7/1/21 12:00 AM	11/15/21 12:58 PM	11/15/21 12:58 PM	
2345543			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1517	COMP	7/1/21 12:00 AM	11/15/21 12:59 PM	11/15/21 12:59 PM	
2345552			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	7/1/21 12:00 AM	11/15/21 12:59 PM	11/15/21 12:59 PM	
2345565	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	7/1/21 12:00 AM	11/15/21 01:00 PM	11/15/21 01:00 PM	
2345716			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	7/1/21 12:00 AM	11/15/21 01:00 PM	11/15/21 01:00 PM	
2363390			1517, Mattawa DWS	CAP	Refurbish/ Replace/Repair	0		1517 Reservoir transmitter replacement	COMP		8/30/21 02:32 PM	8/30/21 02:32 PM	Replace Storm Damaged Equipment - ECHOPOD, 5.5m RANGE, 2"MNPT 4-20mA, 4 x SPST RELAY FOB USB ADAPTER FOR ALL ECHOPOD, ECHOTOUCH & ECHOWAVE 2" VITON GASKET FOR 50 KHZ TRANSDUCER

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2363391			1517, Mattawa DWS	CAP	Refurbish/ Replace/Repair	0		1517 Replacement Isolators for Reservoir	CLOSE		7/30/21 10:49 AM	7/30/21 10:49 AM	Replace storm damaged equipment - Replace storm damaged equipment: PHOENIX MINI-MCR-SL-C-I-I-DC MCR 3-WAY ISOLATOR AMP. FOR ELEC. ISOL. OF ANA. SIG. 4-20 IN/OUT
2365209			1517, Mattawa DWS	CAP	Refurbish/ Replace/Repair	0		1517 purchase of new UV PLC's (Mattawa)	COMP		8/27/21 11:29 AM	8/27/21 11:29 AM	UV PLCs -Purchase refurbished PLC's for UV system to replace obsolete equipment.
2389907			1517, Mattawa DWS	PM	Inspection	6	MONTHS	CL2 sensor change Electrolyte and membrane cap (6m) 1517	COMP	8/1/21 12:00 AM	11/15/21 01:01 PM	11/15/21 01:01 PM	
2389914	0000328787	ANALYZER UV TRANSMITTANCE	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	3	MONTHS	UV Transmitter Optiview calibration (3m) 1517	COMP	8/1/21 12:00 AM	11/15/21 01:01 PM	11/15/21 01:01 PM	
2389925	0000328763	ANALYZER TURBIDITY PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Turbidity Analyzer Calibration (1m) 1517	COMP	8/1/21 12:00 AM	11/15/21 01:01 PM	11/15/21 01:01 PM	
2389930	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	8/1/21 12:00 AM	11/15/21 01:01 PM	11/15/21 01:01 PM	
2389933	0000328770	UV LIGHT REACTOR #1	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	8/1/21 12:00 AM	11/15/21 01:02 PM	11/15/21 01:02 PM	
2389936	0000328771	UV LIGHT REACTOR #2	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	8/1/21 12:00 AM	11/15/21 01:01 PM	11/15/21 01:01 PM	
2389939	0000328765	ANALYZER CHLORINE UNIT #3 PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Portable chlorine Analyzer #3 Calibration (1m) 1517	COMP	8/1/21 12:00 AM	11/15/21 01:02 PM	11/15/21 01:02 PM	
2389987			1517, Mattawa DWS	PM	Inspection	6	MONTHS	CL2 sensor change Electrolyte and membrane cap (POE) (6m) 1517	COMP	8/1/21 12:00 AM	11/15/21 01:08 PM	11/15/21 01:08 PM	
2389994	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	8/1/21 12:00 AM	11/15/21 01:02 PM	11/15/21 01:02 PM	
2390015			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1517	COMP	8/1/21 12:00 AM	11/15/21 01:02 PM	11/15/21 01:02 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
2390024			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	8/1/21 12:00 AM	11/15/21 01:03 PM	11/15/21 01:03 PM	
2390037	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	8/1/21 12:00 AM	11/15/21 01:03 PM	11/15/21 01:03 PM	
2390117			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	8/1/21 12:00 AM	11/15/21 01:03 PM	11/15/21 01:03 PM	
2404118	0000328804	ANALYZER CHLORINE / PH AIT 102	1517, Mattawa DWS	PM	Calibration	1	YEARS	PH Analyzer change Probe & Calibration (1y) 1517	COMP	8/13/21 12:00 AM	11/15/21 01:04 PM	11/15/21 01:04 PM	
2405367			1517, Mattawa DWS	CAP	Refurbish/ Replace/Repair	0		1517 Spare Plant PLC components	COMP		8/27/21 11:48 AM	8/27/21 11:48 AM	Spare Plant PLC components -Critical spare plant PLC components purchased for failing and obsolete equipment.
2408068			1517, Mattawa DWS	CORR	Refurbish/ Replace/Repair	0		1517 reservoir level sensor reconfigure and test	COMP		8/30/21 02:29 PM	8/30/21 02:29 PM	
2408238			1517, Mattawa DWS	CAP	Refurbish/ Replace/Repair	0		PLC and Cable for PLC network	COMP		10/1/21 02:33 PM	10/1/21 02:33 PM	Cable for PLC network -Purchase cable for troubleshooting PLC network issues. PLC -Purchase replacement Siemens PLC.
2435447	0000328763	ANALYZER TURBIDITY PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Turbidity Analyzer Calibration (1m) 1517	COMP	9/1/21 12:00 AM	11/15/21 01:05 PM	11/15/21 01:05 PM	
2435452	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	9/1/21 12:00 AM	11/15/21 01:05 PM	11/15/21 01:05 PM	
2435455	0000328770	UV LIGHT REACTOR #1	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	9/1/21 12:00 AM	11/15/21 01:05 PM	11/15/21 01:05 PM	
2435458	0000328771	UV LIGHT REACTOR #2	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	9/1/21 12:00 AM	11/15/21 01:06 PM	11/15/21 01:06 PM	
2435461	0000328765	ANALYZER CHLORINE UNIT #3 PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Portable chlorine Analyzer #3 Calibration (1m) 1517	COMP	9/1/21 12:00 AM	11/15/21 01:06 PM	11/15/21 01:06 PM	
2435511	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	9/1/21 12:00 AM	11/15/21 01:06 PM	11/15/21 01:06 PM	
2435532			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1517	COMP	9/1/21 12:00 AM	11/15/21 01:06 PM	11/15/21 01:06 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
2435541			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	9/1/21 12:00 AM	11/15/21 01:06 PM	11/15/21 01:06 PM	
2435554	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	9/1/21 12:00 AM	11/15/21 01:06 PM	11/15/21 01:06 PM	
2435653			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	9/1/21 12:00 AM	11/15/21 01:07 PM	11/15/21 01:07 PM	
2454257			Mattawa DWS	CAP	Inspection	0		Fire flow test Mattawa 1517 445 Poplar st	COMP		9/23/21 09:32 AM	9/23/21 09:32 AM	Fire flow test Mattawa 1517 445 Poplar st - Perform fire flow test on hydrant 46 at 445 poplar st. with Josh DeWaal. complete paperwork and send to Barry and Paul. TF Sept 21,2021
2455533	0000328787	ANALYZER UV TRANSMITTANCE	Mattawa DWS	PM	Refurbish/ Replace/Repair	0		1517 TROJAN OPTIVIEW	COMP		10/1/21 02:32 PM	10/1/21 02:32 PM	1517 TROJAN OPTIVIEW -Purchase of new bulbs



MATTAWA WATER & WASTEWATER SYSTEMS QUARTERLY OPERATIONS REPORT

Appendix B - Work Order Summary for WWTL

Workorder Summary Report

Report Start Date: Jul 1, 2021 12:00 AM

Report End Date: Sep 30, 2021 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
2345588			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	7/1/21 12:00 AM	11/15/21 01:00 PM	11/15/21 01:00 PM	
2345595			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	7/1/21 12:00 AM	11/15/21 01:00 PM	11/15/21 01:00 PM	
2360189			1541, Mattawa Wastewater System	CORR	Refurbish/ Replace/Repair	0		Mattawa Soft Start Troubleshooting Technical Service	CLOSE		7/6/21 02:37 PM	7/6/21 02:37 PM	Service Call -Technical service call was required for troubleshooting SPS soft start. Techniserve via Xylem, responded to assist electricians to resolve problems and bring the panel back online.

Workorder Summary Report

Report Start Date: Jul 1, 2021 12:00 AM

Report End Date: Sep 30, 2021 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
2362251			Mattawa WWT	CAP	Refurbish/ Replace/Repair	0		Mattawa, Blake Station, Valve Replacement Installation	CLOSE		8/13/21 01:46 PM	8/13/21 01:46 PM	Replace valves - This work order captures the labour and hardware to install the replacement valves at Blake station. Refer to work order #2134018 for details of the valves purchased. Mattawa, Blake Station, Valve Replacement Installation -Travel to Mattawa with service trailer to perform an entry with OCWA staff, as well as town staff to monitor feeder SLS levels, and staffing to aid in the entries. Original surge valve removed, new 4" gate, and then new surge valve installed. old air release valve removed and replaced with new. Old discharge piping pressure gauge removed and replaced with a S.S. saddle and new gauge plumbed. 8 hrs

Workorder Summary Report

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Report End Date: Sep 30, 2021 11:59 PM

Location: 1541*

Work Order Type: CAP,CORR,OPER,PM

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
													valve, air relief, and pressure gauge install - Hey everyone, the surge valve install went well yesterday. It is working like it should relieving pressure on the return surge as pressure starts to spike it is relieved through the valve. Of note is it takes about 15-20 seconds for the surge to come back. As the pumps shut down the flow continues drawing vacuum through the air relief and a zero reading on pressure gauge before returning 15-20 seconds later as pressure starts to spike >60psi surge valve opens to relief pressure to about 35 psi with no hammering or slamming. Thank you to everyone involved, great work. We would like to install a couple jack style stilts to support the surge valve and piping as we had to remove a bracket to install saddle for pressure gauge. The galvanised fittings to the gauge and air relief were in very bad shape and crumbled as we attempted to remove them so that was only a matter of time as well.

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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
2362345	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	7/16/21 12:00 AM	11/15/21 01:00 PM	11/15/21 01:00 PM	
2390057			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	8/1/21 12:00 AM	11/15/21 01:03 PM	11/15/21 01:03 PM	
2390064			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	8/1/21 12:00 AM	11/15/21 01:03 PM	11/15/21 01:03 PM	
2393662			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	8/1/21 12:00 AM	11/15/21 01:04 PM	11/15/21 01:04 PM	
2402280			1541, Mattawa Wastewater System	CORR	Refurbish/ Replace/Repair	0		1541 purchase of cable for Blake Station	COMP		8/27/21 11:44 AM	8/27/21 11:44 AM	purchase of cable for Blake Station -Replacement electrical cable for Blake Station
2403471			1541, Mattawa Wastewater System	CAP	Refurbish/ Replace/Repair	0		1541 Blake Street staion Breaker change	COMP		8/30/21 02:30 PM	8/30/21 02:30 PM	
2404669	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	8/16/21 12:00 AM	11/15/21 01:04 PM	11/15/21 01:04 PM	
2407735	0000328874	GENERATOR ELECTRIC DIESEL BACKUP POWER	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	8/29/21 12:00 AM	11/15/21 01:04 PM	11/15/21 01:04 PM	
2407738	0000328842	GENERATOR ELECTRIC DIESEL 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	8/29/21 12:00 AM	11/15/21 01:04 PM	11/15/21 01:04 PM	
2407741	0000328901	GENERATOR ELECTRIC DIESEL	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	8/29/21 12:00 AM	11/15/21 01:04 PM	11/15/21 01:04 PM	
2435582			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	9/1/21 12:00 AM	11/15/21 01:07 PM	11/15/21 01:07 PM	
2435589			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	9/1/21 12:00 AM	11/15/21 01:07 PM	11/15/21 01:07 PM	
2439912			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	9/1/21 12:00 AM	11/15/21 01:07 PM	11/15/21 01:07 PM	

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2452618	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	9/16/21 12:00 AM	11/15/21 01:07 PM	11/15/21 01:07 PM	



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Northeastern Ontario Region

MATTAWA WATER & WASTEWATER SYSTEMS

QUARTERLY OPERATIONS REPORT

Appendix C - Call-out Report for WTP

Workorder Summary Report

Report Start Date: Jul 1, 2021 12:00 AM

Report End Date: Sep 30, 2021 11:59 PM

Location: 1517*

Work Order Type: CALL,EMER

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
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2363362			Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Low pressure Mattawa reservoir 1517	CLOSE		7/20/21 06:00 AM	7/20/21 07:30 AM	Low pressure Mattawa reservoir 1517 - Called by Josh Dewaal at 0545 for low system pressure. said pressure at 20 psi and pump 2 failed to start had to switch to pump1 pump 1 started building pressure. level transmitter not working as level erratic. going to try and change output cards. TF July 20/2021
2364045			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Firehydrant emergency shut off-1517	CLOSE		7/16/21 08:15 PM	7/16/21 09:30 PM	Firehydrant emergency shut off-1517 -Called by Mattawa Fire Department Deputy Fire Chief Paul Dupras @ 2020, for a broken hydrant. The fire department was using the hydrant for training purposes. when turned on it was leaking from around the traffic flange. they shut it down and called Josh D. When I arrived on site, the hydrant was not leaking anymore. I dug out the traffic flange as it was buried. I found it cracked and pieces missing. I advised the fire department it was out of service until public works could address the issue. I shut the hydrant isolation valve and tagged the hydrant. the location of hydrant was lily st and henry st. JD
2405808			Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		PLC fault wtp Mattawa 1517	COMP		8/18/21 12:00 AM	8/18/21 04:00 AM	PLC fault wtp Mattawa 1517 - Called by Josh D at 2345 for low uvt, tried resetting remotely, unable to reset. arrived at 0110 tried starting plant by raising setpoints. plant wouldnt start. noticed uv 1 set to duty, switched duty to uv 2 pumps started. plant now ok. TF Aug 18/21

Workorder Summary Report

Report Start Date: Jul 1, 2021 12:00 AM

Report End Date: Sep 30, 2021 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
2449251			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Emergency water shut off-1517	COMP		8/14/21 10:00 AM	9/1/21 01:51 PM	Emergency water shut off-1517 -While completing call for blocked sewer I received a call for a waterline leaking and draining into the basement next door. Arrived to find water on the sidewalk, determined water leak was on the resident. Called the home owner, advised the needed to be shut off due to leaking into the building next door. The owner hooked up a temp servidc to a neighbour and the builing water was shut off. JD
2449766			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Chemical pump fail Mattawa 1517	COMP		8/31/21 04:30 AM	8/31/21 07:30 AM	Chemical pump fail Mattawa 1517 - Called by Josh Dewaal for chemical pump fault at 0430. arrived at 0530 and found fitting broken to cl2 injection system. replaced fitting and reset pump alarms plant started. TF Aug 31/21
2449767			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		PLC fault wtp Mattawa 1517	COMP		9/3/21 03:30 AM	9/3/21 05:15 AM	PLC fault wtp Mattawa 1517 - Called by Don Michaud for plc fault. checked remotely noticed uv 1 set for duty switched to uv2 plant failed to start uv2 ballast fail had to manually reset uv2 fault on panel. plant started. TF Sept 3/21
2450518			Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		PLC fault wtp Mattawa 1517	COMP		9/4/21 01:15 AM	9/4/21 04:00 AM	PLC fault wtp Mattawa 1517 - called by josh d for plc fail 0111 tried starting pumps remotely unable to start, figured uv in fault. drove to mattawa to reset uv, uv ok switched pumps to auto plant started. TF Sept 4/21

Workorder Summary Report

Report Start Date: Jul 1, 2021 12:00 AM

Report End Date: Sep 30, 2021 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
2450522			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Low cl2 alarm 1517 Mattawa	COMP		9/4/21 05:30 AM	9/4/21 09:30 AM	Low cl2 alarm 1517 Mattawa - Receieved low cl2 alarm from Don m. reviewed remotely cl2 actually high 3.00 mg/l. tried starting pump pump didnt start on my way to mattawa noticed pump 1 running cl2 coming down 2.51 mg/l continued to monitor remotely. had to start pump in hand later on to avoid alarms will attend later for 72 hour checks continue to monitor remotely. TF sept 4/21
2450527			Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Low cl2 alarm 1517 Mattawa	COMP		9/4/21 01:00 AM	9/4/21 05:45 AM	- Low cl2 alarm 1517 Mattawa - Recieved text from josh d at 1236 for low cl2 alarm. reviewed remotely dw cl2 res 0.23mg/l reservoir at 2.65. pumps shut down due to low cl2 reviewed alarms chemical pump fail tried resetting alarms remotely unable to due so. arrived at 0315. primed and bled cl2 pumps as they were air locked. reset sure feed panel. acknowledged on scada and plant started in auto.cl2 pump 2 failed and in alarm automatically switched to pump 1. reprimed pump 2 and reset appears to be ok. poe analyzer reading over 1.00 mg/l. TF Sept 6,2021
2450583	0000328759	PANEL CONTROL PUMP	1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		PLC Fail Mattawa WTP-1517	COMP		8/28/21 02:30 PM	8/28/21 04:00 PM	PLC Fail Mattawa WTP-1517 -On site at 1500, for PLC fail. Reset alarms, there were no alarms showing PLC fail. The plant was running at time of alarm. Pumps were found in Manual, reset them to Auto. Changed start level to allow plant to auto start. All seems to be running OK. Everything in auto, start level back to 1.50M. JD

Workorder Summary Report

Report Start Date: Jul 1, 2021 12:00 AM

Report End Date: Sep 30, 2021 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
2450585			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Emergency Water Off-1517	COMP		9/5/21 02:30 PM	9/5/21 03:15 PM	Emergency Water Off-1517 -Called bt Mattawa call centre for emergency water off @ 569 New st, water boiling up in lawn and running into basement. Arrived and shut the water off. Customer to make repair and call back for on in future. JD
2454262			Mattawa DWS	CALL	Predictive Maintenance	0		PLC fault wtp Mattawa 1517	COMP		9/14/21 03:30 PM	9/14/21 09:00 PM	PLC fault wtp Mattawa 1517 - called by true steel for intrusion alarm plc fail at wtp. at 1513, checked remotely, cleared alarms restarted plant. recieved calls for mattawan st ps high temp and uv at lagoon. recieved call for brook st general fault, asked Jim A to attend recieved call back he had to reset alarm pumps ok. monitored wtp levels remotely. TF Sept 14,2021



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MATTAWA WATER & WASTEWATER SYSTEMS

QUARTERLY OPERATIONS REPORT

Appendix D – Call-out Report for WWTL

Workorder Summary Report

Report Start Date: Jul 1, 2021 12:00 AM

Report End Date: Sep 30, 2021 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
2360615	0000328912	TANK PROCESS WET WELL 300 MATTAWAN ST.	1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		High level alarm 300 Mattawanst - 1541	CLOSE		6/26/21 05:15 PM	6/26/21 09:15 PM	High level alarm 300 Mattawanst - 1541 -Called by trusteeel for high level alarm. arrived to find no issue with the station, some signs of foam in the wetwell. cleaned the sensor. allowed the station to cycle 2 times. all ok will check again monday
2363359			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		Brooke st pump fault Mattawa wwtp 1541	CLOSE		7/19/21 08:00 PM	7/19/21 11:30 PM	Brooke st pump fault Mattawa wwtp 1541 - called by true steel at 1955 for pump fault brooke st pump station. arrived at 2105 and reset pumps. panel reading phase loss. called hydro to check transformer. pumps operating in hand and dewatering station. TF July 19/21
2363361			Mattawa WWT	CALL	Refurbish/ Replace/Repair	0		UV fault mattawa wwtp 1541	CLOSE		7/19/21 08:00 PM	7/19/21 11:30 PM	UV fault mattawa wwtp 1541 - Called by True steel at 1955 for uv fault at the wwtp. arrived at 2145 acknowledged alarm checked uv for operation. all ok. TF July 19/21
2406711			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		pump 1 fail blake st pump station	COMP		8/21/21 02:30 AM	8/21/21 05:30 AM	pump 1 fail blake st pump station - Called by Josh D at 0223 for pump 1 fail, arrived at 0320 reset pump reset tripped breaker cleared faults pump 1 started. no sign of over flow. TF aug 21/21
2406714			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		pump 1 fail blake st pump station 1541 mattawa	COMP		8/21/21 09:30 AM	8/21/21 01:00 PM	pump 1 fail blake st pump station 1541 mattawa - Called by Josh D at 0920 for pump 1 fail 451 blake st. arrived at 1045 tried resetting pump 1 continued to trip on breaker. changed leads from pump 1 to pump 2 started pump 2 with pump 1 controls, now pumping. TF aug 21/21

Workorder Summary Report

Report Start Date: Jul 1, 2021 12:00 AM

Report End Date: Sep 30, 2021 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
2449250			1541, Mattawa Wastewater System	CALL	Inspection	0		Sewer blockage 120 Water St, 1541	COMP		8/14/21 08:30 AM	9/1/21 01:47 PM	Sewer blockage 120 Water St, 1541 -Called by town of Mattawa call center for blocked sewer backing up into house. Arrived found the homeowner cleaning up sewer backup. advised the home owner needs to contact a plumber with a auger and camera to determine the type of blockage and where it was located. JD



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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**

01/07/2021 to 30/09/2021

Report extracted 11/12/2021 13:02

Facility: [1517] MATTAWA DRINKING WATER SYSTEM

Works: [210001905]

		07/2021	08/2021	09/2021	<--Total-->	<--Avg.-->	<--Max.-->	<--Min.-->
Flows:								
Raw Flow: Monthly Total - Well #1 (m³)		41179.95	40656.09	32225.04	114061.08			
Raw Flow: Monthly Total - Well #2 (m³)		2898.13	4942.01	4693.14	12533.28			
Raw Flow: Monthly Avg - Well #1 (m³/d)		1328.39	1311.49	1074.17		1238.01		
Raw Flow: Monthly Avg - Well #2 (m³/d)		93.49	159.42	156.44		136.45		
Raw Flow: Monthly Max - Well #1 (m³/d)		1613.73	1696.46	1499.51			1696.46	
Raw Flow: Monthly Max - Well #2 (m³/d)		385.34	445.48	419.65			445.48	
Raw Flow: Monthly Total - Raw Water - Total (m³)		44078.08	45598.1	36918.18	126594.36			
Raw Flow: Monthly Avg - Raw Water - Total (m³/d)		1421.87	1470.91	1230.61		1374.46		
Raw Flow: Monthly Max - Raw Water - Total (m³/d)		1680.54	1826.57	1911.51			1911.51	
Turbidity:								
Raw: Max Turbidity - Well #1 (NTU)		0.29	0.33	0.28			0.33	
Raw: Max Turbidity - Well #2 (NTU)		0.31	0.29	0.3			0.31	
Chemical Parameters:								
Treated: Max Nitrite - TW (mg/L)	<	0.1					< 0.1	
Treated: Max Nitrate - TW (mg/L)		1.45					1.45	
Distribution: Max THM - DW (µg/l)	<	2					< 2	
Chlorine Residuals:								
Treated: Min Free Cl2 Resid - TW (mg/L)		0.311	0.123	0.029				0.029
Treated: Max Free Cl2 Resid - TW (mg/L)		4.119	4.119	4.119			4.119	
Dist: Min Free Cl2 Resid - DW (mg/L)		0.625	0.206	0.159				0.159
Dist: Max Free Cl2 Resid - DW (mg/L)		1.968	1.681	3.573			3.573	
Bacti Samples Collected:								
Raw Bacti: # of samples - Well #1		4	4	5	13			
Raw Bacti: # of samples - Well #2		4	4	5	13			
Treated Bacti: # of samples - TW		4	4	5	13			
Dist Bacti: # of samples - DW		12	12	15	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

**Mattawa Wastewater Treatment Lagoon
Performance Assessment Report Wastewater/Lagoon**

Report extracted 11/12/2021 13:30

01/07/2021 to 30/09/2021

Facility: [1541] MATTAWA WASTEWATER TREATMENT FACILITY

Works: [110000436]

	07/2021	08/2021	09/2021	<--Total-->	<--Avg.-->	<--Max.-->
Flows:						
Raw Flow: Total - Raw (m³)	23900.00	20885.00	23397.00	68182.00		
Raw Flow: Avg - Raw (m³/d)	770.97	673.71	779.90		741.53	
Raw Flow: Max - Raw (m³/d)	983.00	890.00	1853.00			1853.00
Eff. Flow: Total - Eff (m³)	23900.00	20885.00	23397.00	68182.00		
Eff. Flow: Avg - Eff (m³/d)	770.97	673.71	779.90		741.53	
Eff. Flow: Max - Eff (m³/d)	983.00	890.00	1853.00			1853.00
Carbonaceous Biochemical Oxygen Demand: CBOD:						
Eff: Avg cBOD5 - Eff (mg/L)	13.800	8.800	5.800		9.467	13.800
Eff: # of samples of cBOD5 - Eff (mg/L)	1	1	1	3		
Loading: cBOD5 - Eff (kg/d)	10.639	5.929	4.523		7.030	10.639
Biochemical Oxygen Demand: BOD5:						
Raw: Avg BOD5 - Raw (mg/L)	75.700	92.200	138.000		101.967	138.000
Raw: # of samples of BOD5 - Raw (mg/L)	1	1	1	3		
Eff: Avg BOD5 - Eff (mg/L)	15.300	11.800	8.300		11.800	15.300
Eff: # of samples of BOD5 - Eff (mg/L)	1	1	1	3		
Loading: BOD5 - Eff (kg/d)	11.796	7.950	6.473		8.740	11.796
Percent Removal: BOD5 - Raw (mg/L)	0.000	0.000	0.000			0.000
Total Suspended Solids: TSS:						
Raw: Avg TSS - Raw (mg/L)	117.000	183.000	150.000		150.000	183.000
Raw: # of samples of TSS - Raw (mg/L)	1	1	1	3		
Eff: Avg TSS - Eff (mg/L)	46.200	45.300	8.700		33.400	46.200
Eff: # of samples of TSS - Eff (mg/L)	1	1	1	3		
Loading: TSS - Eff (kg/d)	35.619	30.519	6.785		24.308	35.619
Percent Removal: TSS - Raw (mg/L)	0.000	0.000	0.000			0.000
Total Phosphorus: TP:						
Raw: Avg TP - Raw (mg/L)	2.680	4.150	2.310		3.047	4.150
Raw: # of samples of TP - Raw (mg/L)	1	1	1	3		
Eff: Avg TP - Eff (mg/L)	1.047	1.035	0.958		1.013	1.047
Eff: # of samples of TP - Eff (mg/L)	4	4	5	13		
Loading: TP - Eff (kg/d)	1.064	0.687	0.850		0.867	1.064
Percent Removal: TP - Raw (mg/L)	0.000	0.000	0.000			0.000
Nitrogen Series:						
Eff: Avg TAN - Eff (mg/L)	13.050	7.675	6.080		8.935	13.050
Eff: Avg NO3-N - Eff (mg/L)	< 1.000	0.500	< 1.000		< 0.833	1.000
Eff: # of samples of NO3-N - Eff (mg/L)	1	1	1	3		
Eff: Avg NO2-N - Eff (mg/L)	0.140	0.410	< 0.100		< 0.217	0.410
Eff: # of samples of NO2-N - Eff (mg/L)	1	1	1	3		