

SYSTEM OVERVIEW

October 1st to December 31st, 2021

OPERATIONAL HIGHLIGHTS

Drinking Water System

- The water treatment system operated well during the fourth quarter.
- Annual generator service completed.
- Flow test completed for hydrant #47 at Poplar St. for a construction company.
- Replacement supervisory control and data acquisition (SCADA) programmable logic controller (PLC) appeared to be failing and created operational issues. Sure feed system had to be cycled between hand and remote.
- Curb stop replacement at 354 Main St.

Wastewater Treatment

- The wastewater treatment system performed well during the fourth quarter.
- Annual generator service completed.
- Site visit to review obsolete UV system with H2Flow representative.
- Pump blockage at Blake Station. Lifting device controller required temporary repair due to water intrusion and corrosion. Replacement will be installed at later date.

CAPITAL PLAN PROGRESS

Drinking Water System

- Problematic SCADA PLC exchanged in effort to resolve PLC issues.
- Problematic UV system PLC #2 exchanged in effort to resolve PLC issues.
- Main plant PLC changed out again. Outputs for pump starts were blown.

Wastewater Treatment Lagoon

- First St. sewage pump failed. Pump pulled and sent off for rebuild.

ASSET MANAGEMENT

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

CALL-OUT SUMMARY

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

REGULATORY

- All drinking water samples required under O. Regulation 170/03 were collected and tested in the fourth quarter of 2021 and all results fell within regulatory limits.
- Quarterly trihalomethanes (THM), haloacetic acids (HAA), Nitrate and Nitrite sampling completed October 13, 2021.
- Annual Capital and Major Maintenance Recommendations Report completed and submitted.
- Annual Hach instrument calibrations completed on November 18, 2021.
- Fire system annual inspections.
- Lifting devices annual inspections.
- Backflow preventer annual inspections.
- THM running annual average below limit of 100 ug/L with a result of 2.75 ug/L in the past four quarters.
- HAA running annual average below limit of 80 ug/L (came into effect January 1, 2020) with a result of <2.0 ug/L in the past four quarters.
- There were no Ministry of the Environment Conservation and Parks (MECP) or Ministry of Labour (MOL) inspections conducted this quarter.
- DWQMS Management Review completed November 30, 2021.
- All required sewage samples required under the system's Environmental Compliance Approval (ECA) were collected and tested in the fourth quarter of 2021.
- Lagoon sample results were well below ECA limits.
- Lagoon UV replacement requirements under review by MECP prior to placing order. No guidance provided as of yet.

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 lockout/tagout.
- Staff training completed on lifting devices.
- Staff training completed on chemical use/handling and Personal Protective Equipment.

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
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MATTAWA WATER & WASTEWATER SYSTEMS QUARTERLY OPERATIONS REPORT

Appendix A - Work Order Summary for WTP

Workorder Summary Report

Report Start Date: Oct 1, 2021 12:00 AM
Report End Date: Dec 31, 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
2483215	0000328763	ANALYZER TURBIDITY PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Turbidity Analyzer Calibration (1m) 1517	COMP	10/1/21 12:00 AM	11/15/21 01:08 PM	11/15/21 01:08 PM	
2483220	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	10/1/21 12:00 AM	1/13/22 10:26 AM	1/13/22 10:26 AM	
2483223	0000328770	UV LIGHT REACTOR #1	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	10/1/21 12:00 AM	1/13/22 10:27 AM	1/13/22 10:27 AM	
2483226	0000328771	UV LIGHT REACTOR #2	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	10/1/21 12:00 AM	1/13/22 10:27 AM	1/13/22 10:27 AM	
2483229	0000328765	ANALYZER CHLORINE UNIT #3 PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Portable chlorine Analyzer #3 Calibration (1m) 1517	COMP	10/1/21 12:00 AM	1/13/22 10:28 AM	1/13/22 10:28 AM	
2483287			1517, Mattawa DWS	PM	Inspection	3	MONTHS	Replace UV Air Filters 1517	COMP	10/1/21 12:00 AM	1/13/22 10:28 AM	1/13/22 10:28 AM	
2483295	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	10/1/21 12:00 AM	1/13/22 10:28 AM	1/13/22 10:28 AM	
2483341			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1517	COMP	10/1/21 12:00 AM	1/13/22 10:29 AM	1/13/22 10:29 AM	
2483350			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	10/1/21 12:00 AM	1/13/22 10:29 AM	1/13/22 10:29 AM	
2483363	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	10/1/21 12:00 AM	1/13/22 10:29 AM	1/13/22 10:29 AM	
2483559			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	10/1/21 12:00 AM	1/13/22 10:31 AM	1/13/22 10:31 AM	
2504092	0000328804	ANALYZER CHLORINE / PH AIT 102	1517, Mattawa DWS	PM	Inspection	3	MONTHS	PH Analyzer Calibration (3m) 1517	COMP	10/29/21 12:00 AM	1/13/22 10:17 AM	1/13/22 10:17 AM	
2504095			1517, Mattawa DWS	PM	Inspection	3	MONTHS	PH Analyzer Calibration (POE) (3m) 1517	COMP	10/29/21 12:00 AM	1/13/22 10:17 AM	1/13/22 10:17 AM	
2504098			1517, Mattawa DWS	PM	Calibration	1	YEARS	PH Analyzer change Probe & Calibration (POE) (1y) 1517	COMP	10/29/21 12:00 AM	1/13/22 10:17 AM	1/13/22 10:17 AM	
2527461	0000328787	ANALYZER UV TRANSMITTANCE	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	3	MONTHS	UV Transmitter Optiview calibration (3m) 1517	COMP	11/1/21 12:00 AM	1/13/22 10:05 AM	1/13/22 10:05 AM	
2527472	0000328763	ANALYZER TURBIDITY PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Turbidity Analyzer Calibration (1m) 1517	COMP	11/1/21 12:00 AM	1/13/22 10:05 AM	1/13/22 10:05 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
2527477	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	11/1/21 12:00 AM	1/13/22 10:05 AM	1/13/22 10:05 AM	
2527480	0000328770	UV LIGHT REACTOR #1	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	11/1/21 12:00 AM	1/13/22 10:06 AM	1/13/22 10:06 AM	
2527483	0000328771	UV LIGHT REACTOR #2	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	11/1/21 12:00 AM	1/13/22 10:06 AM	1/13/22 10:06 AM	
2527486	0000328765	ANALYZER CHLORINE UNIT #3 PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Portable chlorine Analyzer #3 Calibration (1m) 1517	COMP	11/1/21 12:00 AM	1/13/22 10:06 AM	1/13/22 10:06 AM	
2527529	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	11/1/21 12:00 AM	1/13/22 10:07 AM	1/13/22 10:07 AM	
2527563			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1517	COMP	11/1/21 12:00 AM	1/13/22 10:07 AM	1/13/22 10:07 AM	
2527572			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	11/1/21 12:00 AM	1/13/22 10:07 AM	1/13/22 10:07 AM	
2527593	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	11/1/21 12:00 AM	1/13/22 10:08 AM	1/13/22 10:08 AM	
2527694			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	11/1/21 12:00 AM	1/13/22 10:09 AM	1/13/22 10:09 AM	
2541803			Mattawa DWS	CAP	Refurbish/ Replace/Repair	0		1517 Main Plant PLC failure	COMP		12/13/21 12:09 PM	12/13/21 12:09 PM	1517 Main Plant PLC failure -Diagnose Pump 2 and CL2 pump start issues , found bad outputs on plant PLC (New Refurbished) 1517 Main Plant PLC failure -Replace Plant PLC with old spare that can accommodate low pressure logic , Stroma onsite with PLC software , made changes to pump startup logic , increased time allowed for pump fail alarm on low pressure switch to 60 seconds
2567167	0000328763	ANALYZER TURBIDITY PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Turbidity Analyzer Calibration (1m) 1517	COMP	12/1/21 12:00 AM	1/13/22 10:10 AM	1/13/22 10:10 AM	
2567172	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	12/1/21 12:00 AM	1/13/22 10:10 AM	1/13/22 10:10 AM	
2567175	0000328770	UV LIGHT REACTOR #1	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	12/1/21 12:00 AM	1/13/22 10:11 AM	1/13/22 10:11 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
2567178	0000328771	UV LIGHT REACTOR #2	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	12/1/21 12:00 AM	1/13/22 10:11 AM	1/13/22 10:11 AM	
2567181	0000328765	ANALYZER CHLORINE UNIT #3 PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Portable chlorine Analyzer #3 Calibration (1m) 1517	COMP	12/1/21 12:00 AM	1/13/22 10:11 AM	1/13/22 10:11 AM	
2567224	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	12/1/21 12:00 AM	1/13/22 10:12 AM	1/13/22 10:12 AM	
2567245			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1517	COMP	12/1/21 12:00 AM	1/13/22 10:12 AM	1/13/22 10:12 AM	
2567270			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	12/1/21 12:00 AM	1/13/22 10:13 AM	1/13/22 10:13 AM	
2567283	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	12/1/21 12:00 AM	1/13/22 10:13 AM	1/13/22 10:13 AM	
2567376			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	12/1/21 12:00 AM	1/13/22 10:19 AM	1/13/22 10:19 AM	
2582798			Mattawa DWS	OPER	Inspection	0		Power Fail to all stations	COMP		12/16/21 12:45 PM	12/16/21 10:00 PM	Power Fail to all stations -Due to wind storm, power was out to all stations, generators were running, Checked all stations for potential overflow conditions, All stations were OK, none of the stations made it to the overflows.



MATTAWA WATER & WASTEWATER SYSTEMS QUARTERLY OPERATIONS REPORT

Appendix B - Work Order Summary for WWTL

Workorder Summary Report

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Report End Date: Dec 31, 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
2483201	0000328854	UV LIGHT REACTOR SYSTEM	1541, Mattawa Wastewater System	PM	Inspection	6	MONTHS	UV Reactor service Fall (6m) 1541	COMP	10/1/21 12:00 AM	1/13/22 10:26 AM	1/13/22 10:26 AM	
2483434			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	10/1/21 12:00 AM	1/13/22 10:30 AM	1/13/22 10:30 AM	
2483441			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	10/1/21 12:00 AM	1/13/22 10:30 AM	1/13/22 10:30 AM	
2487604			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	10/1/21 12:00 AM	1/13/22 10:31 AM	1/13/22 10:31 AM	
2500097			1541, Mattawa Wastewater System	CAP	Refurbish/ Replace/Repair	0		1541 lift station at Bissit and bridge	COMP		12/13/21 12:04 PM	12/13/21 12:04 PM	1541 lift station at Bissit and bridge -Main 600 volt breaker tripping feeding pump 2 , check winding resistance of motor , suspect windings damaged , pump will need to be removed and sent for repair
2500101			1541, Mattawa Wastewater System	CAP	Refurbish/ Replace/Repair	0		1541 lagoon blower	COMP		12/13/21 12:05 PM	12/13/21 12:05 PM	1541 lagoon blower -Blower # 1 would not start on auto or hand , found two blown fuses on the 600 volt primary side of the control transformer... very odd...new fuses will need to be ordered. 1541 lagoon blower -take pictures of existing fuse holders as existing fuse components are unavailable , might need to drill and remount new components inside MCC 1541 lagoon blower -Replace 600 v primary fuses on control transformer , and test , blower started and ran with no issues.
2501048	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	10/16/21 12:00 AM	1/13/22 10:16 AM	1/13/22 10:16 AM	
2527613			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	11/1/21 12:00 AM	1/13/22 10:08 AM	1/13/22 10:08 AM	
2527620			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	11/1/21 12:00 AM	1/13/22 10:09 AM	1/13/22 10:09 AM	

Workorder Summary Report

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Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
2531040			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	11/1/21 12:00 AM	1/13/22 10:09 AM	1/13/22 10:09 AM	
2541886	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	11/16/21 12:00 AM	1/13/22 10:10 AM	1/13/22 10:10 AM	
2543324			1541, Mattawa Wastewater System	CAP	Refurbish/ Replace/Repair	0		1541 Lagoon UV wiring inspection	COMP		12/13/21 12:03 PM	12/13/21 12:03 PM	1541 Lagoon UV wiring inspection -inspect power wiring and sensor feed. Wiring running from Lagoon building to UV system appears okay. Wiring and hardware at UV location will need to be repaired .
2567288	0000328859	ANALYZER GAS BUMP TEST	1541, Mattawa Wastewater System	PM	Calibration	6	MONTHS	Analyzer Gas C02 (6m) 1541	COMP	12/1/21 12:00 AM	1/13/22 10:13 AM	1/13/22 10:13 AM	
2567308			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	12/1/21 12:00 AM	1/13/22 10:18 AM	1/13/22 10:18 AM	
2567315			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	12/1/21 12:00 AM	1/13/22 10:18 AM	1/13/22 10:18 AM	
2567335	0000328828	UPS BATTERY BACKUP 451 BISSETT ST.	1541, Mattawa Wastewater System	PM	Inspection	1	YEARS	Ups Battery Bank Insp/Service (1y) 1541	COMP	12/1/21 12:00 AM	1/13/22 10:19 AM	1/13/22 10:19 AM	
2570755			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	12/1/21 12:00 AM	1/13/22 10:32 AM	1/13/22 10:32 AM	
2580244	0000328827	PUMP SUBMERSIBLE 451 BISSETT ST.	1541, Mattawa Wastewater System	CORR	Refurbish/ Replace/Repair	0		P1 Plugged pump @ 451 Bissett	COMP		12/6/21 09:48 AM	12/6/21 09:48 AM	P1 Plugged pump @ 451 Bissett -Found P1 to be clogged, called by trustee on Thursday afternoon. Pump was tripped, reset breaker and the amperage was very high and pump was not starting. Pulled pump with Curtis on Friday morning, Piece of cloth was plugging the impellor from moving. Reinstalled the pump and all OK
2581911	0000328874	GENERATOR ELECTRIC DIESEL BACKUP POWER	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	12/15/21 12:00 AM	1/13/22 10:21 AM	1/13/22 10:21 AM	
2581914	0000328842	GENERATOR ELECTRIC DIESEL 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	12/15/21 12:00 AM	1/13/22 10:16 AM	1/13/22 10:16 AM	
2581917	0000328901	GENERATOR ELECTRIC DIESEL	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	12/15/21 12:00 AM	1/13/22 10:16 AM	1/13/22 10:16 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
2582056	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	12/16/21 12:00 AM	1/13/22 10:15 AM	1/13/22 10:15 AM	



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: Oct 1, 2021 12:00 AM

Report End Date: Dec 31, 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
2500337			1517, Mattawa DWS	CALL	Inspection	0		Emergency Water Off	CLOSE		9/24/21 04:00 PM	9/24/21 06:15 PM	Emergency Water Off -Called by Town of Mattawa call centre. Emergency water off @ 551 Mckenzie St, Arrived, found water running down the driveway. SHut the service off to ensure leak location, leak was on the customer near the home. Advised the customer of the leak on their side and they would need to address it sooner then later. JD
2502362			1517, Mattawa DWS	CALL	Compliance	0		uv2 fail mattawa 1517	COMP		10/21/21 05:45 AM	10/21/21 06:15 AM	uv2 fail mattawa 1517 - called at 0527 for uv2 fail mattawa checked remotely, alarm was for pump 2 fail, started pump 1, monitored reset alarm when onsite. Tf Oct 21/21
2542372			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Water Plant PLC Fail,Low Level-1517	COMP		11/13/21 12:00 AM	11/13/21 01:30 AM	Water Plant PLC Fail,Low Level-1517 -Called by Trueteel @ 1155 for WTP PLC fail. Logged in remotely to find WTP in LOW level alarm. Plant attempted to switch to UV1 which is out of service. Unable to remotely reset alarms. Arrived onsite @ 1230 am, checked plant all seemed OK, Reset all alarms, switch to UV 2, plant started OK. Signed out at 0100 plant was running OK. JD
2543082			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Low cl2 alarm 1517 Mattawa	COMP		11/22/21 11:45 PM	11/23/21 02:30 AM	Low cl2 alarm 1517 Mattawa - called at 2326 for low cl2. reviewed remotely noticed poe reading .02 and dw reading 0.17. pumps shut down on low cl2. arrived at 0040 noticed line to injector broke. started backflushing system. replaced fittings. cl2 up to .31 on poe and .35 on dw started plant in auto. now ok. TF Nov 23/21

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2543322			Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Plc fail Mattawa Wtp 1517	COMP		11/24/21 04:44 AM	11/24/21 02:13 PM	-Called by true steel at 0444 for plc fail. Logged on remotely and and noticed pump 2 failed to start. Low flow condition. Started pump 1 in hand and stopped at 3.00m. Back to auto. Tf Nov 24/21
2580248			1517, Mattawa DWS	CALL	Inspection	0		High Chlorine in Distribution system	COMP		12/1/21 12:45 AM	12/1/21 04:30 AM	High Chlorine in Distribution system -Received alarm for high chlorine. Arrived on site and dialed down the chlorine pump stroke from 90% to 80% then calibrated. Manually started well pump and monitored residual in system until stabilized.
2582800			1517, Mattawa DWS	EMER	Refurbish/ Replace/Repair	0		Power line/Pole Break to Reservoir	COMP		12/16/21 12:45 PM	12/16/21 09:00 PM	Power line/Pole Break to Reservoir -Tree fell on the power line to the reservoir @ 4th st and Rankin st, causing the wire to land on the ground and the breaking of one hydro pole, After soaking with Paul D and Rick H, BWR was called in to repair the line and install a new Pole. BWR tied up the downed power line to for the night and fixed it to run power to the reservoir once power to the town was restored. BWR returned Friday Dec 17/21 to complete the install of the new pole and complete the power line repairs.

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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
2582802			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		PLC Fail/ UV 2 Bulb Fail	COMP		12/9/21 10:45 PM	12/10/21 12:45 AM	PLC Fail/ UVT Meter Issues -Called by truesteel for WTP PLC Fail, checked remotely all seemed OK. PLant had not started due to UV trying to switch to the out of service UV. 1 switched to UV 2, the plant failed to start. Once Onsite, UV 2 had a bulb failure. Switched Bulb 2 with a new one. Restarted the plant. UV 2 failed again under ballast fail. Allowed it to cool down and restarted, Ballast fail on the opposite ballast. Tried a third time and had same issue. Switched both Ballast from UV 1 to UV 2. Restarted and all seems OK. JD



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MATTAWA WATER & WASTEWATER SYSTEMS

QUARTERLY OPERATIONS REPORT

Appendix D - Call-out Report for WWTL

Workorder Summary Report

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

Report End Date: Dec 31, 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
2500008			1541, Mattawa Wastewater System	EMER	Refurbish/ Replace/Repair	0		Mattawa 1st Street Sewage Pump Emergency Repair	COMP		11/25/21 01:33 PM	11/25/21 01:33 PM	1st Street SPS Pump Repair -Pump malfunction, suspect bad windings after troubleshooting. Pump to be pulled and brought in for emergency repair.

Workorder Summary Report

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

Report End Date: Dec 31, 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
													Rebuild Details - Submersible Pump: Flygt 9.4HP, 1750RPM, 575V, 10.2A, 60HZ, 3PH, Model 3126.180-870069. 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. Remove stator from housing and re-install after rewinding Rewind Stator, dip & bake Bore & sleeve ODE housing Dynamic Balance Rotor & Impeller 6018946 Repair Kit (Bearings,O-rings & Seals)

Workorder Summary Report

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

Report End Date: Dec 31, 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
													3947710 Cable Entry - F-Pump
2500125			1541, Mattawa Wastewater System	EMER	Refurbish/ Replace/Repair	0		1541 purchase of control transformer and fuses for lagoon blower	COMP		12/13/21 12:06 PM	12/13/21 12:06 PM	
2543315			1541, Mattawa Wastewater System	CALL	Inspection	0		Loss of power to Brooke St LS	COMP		11/17/21 07:45 PM	11/17/21 10:00 PM	Loss of power to Brooke St LS -Received call from True Steel for general alarm at Brooke St LS on November 17, 2021. Arrived on site, confirmed that system working fine and it was a power blip. All three phases fine

Workorder Summary Report

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

Report End Date: Dec 31, 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
2580243	0000328834	LIFTING DEVICE CRANE JIB 451 BISSETT ST.	1541, Mattawa Wastewater System	EMER	Refurbish/ Replace/Repair	0		451 Bissett Crane Failure Repairs	COMP		12/6/21 09:43 AM	1/13/22 10:20 AM	451 Bissett Crane Failure Repairs -Attempted to use the crane to pull pump #1, crane would not operate, checked fuses they checked out OK. Called Dan Moran with trans Canada safety, he was not available, Called Gary with Vals, he came down to fix the issue. Issue was found in the Remote, it was rusted and iced up. Gary managed to get it working enough to pull plugged pump. Dan from Trans Canada will be onsite Tuesday or Wednesday to replace with a new remote. JD
2581475			1541, Mattawa Wastewater System	CALL	Inspection	0		300 Mattawan P#2 failure	COMP		12/11/21 09:00 AM	12/11/21 11:15 AM	300 Mattawan P#2 failure -Received call from True-Steel for alarm at 300 Mattawan. Arrived on site, level in wet well was fine. Pump #2 had tripped the breaker. I reset the breaker tested pump, which ran fine. Put both pumps back on auto and monitored a full cycle of which it performed without issues. Left site.



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MATTAWA WATER & WASTEWATER SYSTEMS QUARTERLY OPERATIONS REPORT

Appendix E - Performance Assessment Report Water

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

Report extracted 02/09/2022 14:57

01/10/2021 to 31/12/2021

Facility: [1517] MATTAWA DRINKING WATER SYSTEM

Works: [210001905]

	10/2021	11/2021	12/2021	<--Total-->	<--Avg.-->	<--Max.-->	<--Min.-->
Flows:							
Raw Flow: Monthly Total - Well #1 (m³)	33314.09	37329.19	43771.03	114414.31			
Raw Flow: Monthly Total - Well #2 (m³)	3809.95	3641.14	5965.4	13416.49			
Raw Flow: Monthly Avg - Well #1 (m³/d)	1074.65	1244.31	1411.97		1243.64		
Raw Flow: Monthly Avg - Well #2 (m³/d)	122.9	121.37	192.43		145.57		
Raw Flow: Monthly Max - Well #1 (m³/d)	1337.49	1708.83	1749.32			1749.32	
Raw Flow: Monthly Max - Well #2 (m³/d)	437.69	589.98	429.38			589.98	
Raw Flow: Monthly Total - Raw Water - Total (m³)	37124.04	40970.33	49736.43	127830.8			
Raw Flow: Monthly Avg - Raw Water - Total (m³/d)	1197.55	1365.68	1604.4		1389.21		
Raw Flow: Monthly Max - Raw Water - Total (m³/d)	1440.89	1829.37	2005.6			2005.6	
Turbidity:							
Raw: Max Turbidity - Well #1 (NTU)	0.28	0.27	0.28			0.28	
Raw: Max Turbidity - Well #2 (NTU)	0.3	0.27	0.31			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)	2.41					2.41	
Chlorine Residuals:							
Treated: Min Free Cl2 Resid - TW (mg/L)	0.157	0	0.59				0
Treated: Max Free Cl2 Resid - TW (mg/L)	4.119	3.528	4.119			4.119	
Dist: Min Free Cl2 Resid - DW (mg/L)	0.527	0.125	0.775				0.125
Dist: Max Free Cl2 Resid - DW (mg/L)	2.824	2.846	2.959			2.959	
Bacti Samples Collected:							
Raw Bacti: # of samples - Well #1	5	4	5	14			
Raw Bacti: # of samples - Well #2	5	4	5	14			
Treated Bacti: # of samples - TW	5	4	5	14			
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 02/14/2022 11:19

01/10/2021 to 31/12/2021

Facility: [1541] MATTAWA WASTEWATER TREATMENT FACILITY

Works: [110000436]

	10/2021	11/2021	12/2021	<--Total-->	<--Avg.-->	<--Max.-->
Flows:						
Raw Flow: Total - Raw (m³)	26408.00	25016.00	27987.00	79411.00		
Raw Flow: Avg - Raw (m³/d)	851.87	833.87	902.81		862.85	
Raw Flow: Max - Raw (m³/d)	1304.00	987.00	1118.00			1304.00
Eff. Flow: Total - Eff (m³)	26408.00	25016.00	27987.00	79411.00		
Eff. Flow: Avg - Eff (m³/d)	851.87	833.87	902.81		862.85	
Eff. Flow: Max - Eff (m³/d)	1304.00	987.00	1118.00			1304.00
Carbonaceous Biochemical Oxygen Demand: CBOD:						
Eff: Avg cBOD5 - Eff (mg/L)	3.300	15.200	10.600		9.700	15.200
Eff: # of samples of cBOD5 - Eff (mg/L)	1	1	1	3		
Loading: cBOD5 - Eff (kg/d)	2.811	12.675	9.570		8.352	12.675
Biochemical Oxygen Demand: BOD5:						
Raw: Avg BOD5 - Raw (mg/L)	131.800	130.700	62.000		108.167	131.800
Raw: # of samples of BOD5 - Raw (mg/L)	1	1	1	3		
Eff: Avg BOD5 - Eff (mg/L)	6.300	17.000	13.800		12.367	17.000
Eff: # of samples of BOD5 - Eff (mg/L)	1	1	1	3		
Loading: BOD5 - Eff (kg/d)	5.367	14.176	12.459		10.667	14.176
Percent Removal: BOD5 - Raw (mg/L)	0.000	0.000	0.000			0.000
Total Suspended Solids: TSS:						
Raw: Avg TSS - Raw (mg/L)	218.000	158.000	130.000		168.667	218.000
Raw: # of samples of TSS - Raw (mg/L)	1	1	1	3		
Eff: Avg TSS - Eff (mg/L)	3.000	< 2.270	9.500		< 4.923	9.500
Eff: # of samples of TSS - Eff (mg/L)	1	1	1	3		
Loading: TSS - Eff (kg/d)	2.556	< 1.893	8.577		< 4.342	8.577
Percent Removal: TSS - Raw (mg/L)	0.000	0.000	0.000			0.000
Total Phosphorus: TP:						
Raw: Avg TP - Raw (mg/L)	1.820	3.410	3.640		2.957	3.640
Raw: # of samples of TP - Raw (mg/L)	1	1	1	3		
Eff: Avg TP - Eff (mg/L)	0.835	0.553	1.016		0.801	1.016
Eff: # of samples of TP - Eff (mg/L)	4	4	5	13		
Loading: TP - Eff (kg/d)	0.741	0.375	0.822		0.646	0.822
Percent Removal: TP - Raw (mg/L)	0.000	0.000	0.000			0.000
Nitrogen Series:						
Eff: Avg TAN - Eff (mg/L)	15.923	15.875	16.800		16.199	16.800
Eff: Avg NO3-N - Eff (mg/L)	< 1.000	< 1.000	< 1.000		< 1.000	< 1.000
Eff: # of samples of NO3-N - Eff (mg/L)	1	1	1	3		
Eff: Avg NO2-N - Eff (mg/L)	< 0.100	< 0.100	< 0.100		< 0.100	< 0.100
Eff: # of samples of NO2-N - Eff (mg/L)	1	1	1	3		