

SYSTEM OVERVIEW

October 1st to December 31st, 2020

OPERATIONAL HIGHLIGHTS

Drinking Water System

- The water treatment system operated well during the fourth quarter.
- Annual generator service completed.
- New service connection installation at 354 Main St.
- Attempt to smooth out flow meter interference by reducing free chlorine residual concentration and increasing the dosage. Also, tried reposition injection point. Neither attempts had any affect.

Wastewater Treatment

- The wastewater treatment system performed well during the fourth quarter.
- Annual generator service completed.
- Flow meter damaged due to weather event.
- Alarms set up for the new pump control panel at the main sewage pump station.

CAPITAL PLAN PROGRESS

Drinking Water System

- Alarm panel had expander installed to allow for programming changes for flow meter and additional alarming.
- Stroma completed programming for well pump lockout on low UVT, power fail and instrument failure/malfunction.
- Well house generator repairs completed.

Wastewater Treatment Lagoon

- Generator engines being refurbished.
- Lagoon level was dropped in order to repair aerations lines.
- Sludge was removed at the inlet.
- Lagoon generator repairs completed.
- New pump control panel installed at the main sewage pump station to replace obsolete and failing equipment.
- Generator fuel line upgrades completed.

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 2020 and all results fell within regulatory limits.
- Annual well inspections completed for both wells in November 2020. No issues.
- The Ministry of the Environment, Conservation and Parks (MECP) performed an annual inspection on November 17, 2020. The inspection included a physical assessment of the Mattawa Water Treatment Plant and a document review. The inspection report identified 1 non-compliance and 0 best practice issues. All items have been addressed. Final inspection rating of 99.04%.
- Operational Plan last updated September 3, 2020 to resolved action items identified in internal audit. This info was missed in previous Q3 client report.
- Quarterly trihalomethanes (THM), haloacetic acids (HAA), Nitrate and Nitrite sampling completed October 27, 2020.
- Annual Capital and Major Maintenance Recommendations Report completed and submitted.
- UVT plant lockout programming completed on November 2, 2020. Plant will now lockout when the UVT analyzer is in low alarm (less than 95%) or instrument loses power or malfunctions.
- Annual Hach instrument calibrations completed on November 24, 2020.
- THM running annual average below limit of 100 ug/L with a result of 2.60 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.
- No Ministry of Labour (MOL) inspections conducted this quarter.
- DWQMS Management Review completed November 24, 2020.
- All required sewage samples required under the system's Environmental Compliance Approval (ECA) were collected and tested in the fourth quarter of 2020.
- Lagoon sample results were well below ECA limits.

INCIDENTS AND COMPLAINTS

Mattawa Drinking Water System

Incident	Community Complaint – 581 McCool St.
Date	November 30, 2020
Details	Resident (Karen Groulx) complaint due to dirty/rusty water. Flushing and winterizing hydrants was the cause. Flushed hydrant at 451 Hurdman St. until water from hydrant was clear. Ran water in the Arena @ 450 Hurdman St until clear as well. Action taken in response was flushing hydrant. The source of problem was the flushing and winterizing of hydrants.

Incident	Community Complaint – 700 Rankin St.
Date	November 30, 2020
Details	Resident (Lynne Bastien) complaint due to dirty/rusty water and metal taste. Flushing to be completed in the area, completed December 3, 2020. Low flow in the area, causing standing water in the mains.

Mattawa Wastewater System

Incident	n/a
Date	
Details	

HEALTH AND SAFETY

- Staff training completed on ladder safety.
- Staff training completed on working in confined spaces.
- Staff training completed on hearing protection.

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, 2020 12:00 AM
Report End Date: Dec 31, 2020 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
1948199	0000328763	ANALYZER TURBIDITY PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Turbidity Analyzer Calibration (1m) 1517	COMP	10/1/20 12:00 AM	10/30/20 02:12 PM	10/30/20 02:12 PM	
1948204	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	10/1/20 12:00 AM	10/30/20 02:07 PM	10/30/20 02:07 PM	
1948207	0000328770	UV LIGHT REACTOR #1	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	10/1/20 12:00 AM	11/2/20 01:22 PM	11/2/20 01:22 PM	
1948210	0000328771	UV LIGHT REACTOR #2	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	10/1/20 12:00 AM	11/2/20 01:22 PM	11/2/20 01:22 PM	
1948213	0000328765	ANALYZER CHLORINE UNIT #3 PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Portable chlorine Analyzer #3 Calibration (1m) 1517	COMP	10/1/20 12:00 AM	11/2/20 01:21 PM	11/2/20 01:21 PM	
1948264			1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	UVR Service (Spring & Fall) 1517	COMP	10/1/20 12:00 AM	10/30/20 02:11 PM	10/30/20 02:11 PM	
1948271			1517, Mattawa DWS	PM	Inspection	3	MONTHS	Replace UV Air Filters 1517	COMP	10/1/20 12:00 AM	1/27/21 03:25 PM	1/27/21 03:25 PM	
1948279	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	10/1/20 12:00 AM	12/21/20 01:13 PM	12/21/20 01:13 PM	
1948325			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1517	COMP	10/1/20 12:00 AM	12/21/20 01:12 PM	12/21/20 01:12 PM	
1948334			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	10/1/20 12:00 AM	10/30/20 02:11 PM	10/30/20 02:11 PM	
1948347	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	10/1/20 12:00 AM	11/2/20 01:29 PM	11/2/20 01:29 PM	
1948352	0000328754	WELL PRODUCING #2	1517, Mattawa DWS	PM	Inspection	1	YEARS	Well Producing (1y / 10y) Inspection 1517	COMP	10/1/20 12:00 AM	11/5/20 10:48 AM	11/5/20 10:48 AM	Well Producing (1y / 10y) Inspection 1517 - check casing, piping chlorine system well house. TF Nov 5/20
1948514			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	10/1/20 12:00 AM	10/30/20 02:14 PM	10/30/20 02:14 PM	

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1959620			1517, Mattawa DWS	CAP	Refurbish/ Replace/Repair	0		Leak detection main st Mattawa 1517	CLOSE		10/2/20 10:55 AM	10/2/20 10:55 AM	Leak detection main st Mattawa 1517 - Used correlator for leak detection on main st from foodland to hwy17. picked up multiple leaks hard to verify exact location due to traffic noise and multiple leak locations. appeared to be leaks on all hydrant 'T's. correlator fee \$110/hr as per Dave Sharp. was there from 0800 to 1200. TF Sept 29/20
1961495			Mattawa DWS	CAP	Compliance	0		Mattawa Municipal Drinking Water Licence (MDWL) Renewal	COMP		10/15/20 01:12 PM	1/4/21 04:32 PM	MDWL Renewal - MDWL renewal application and supporting documentation for the Mattawa DWS Mattawa Municipal Drinking Water Licence (MDWL) Renewal - Completed work on supporting documents for Mattawa MDWL Renewal Application Mattawa Municipal Drinking Water Licence (MDWL) Renewal - Application and supporting documents emailed to MECP.
1987795	0000328787	ANALYZER UV TRANSMITTANCE	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	3	MONTHS	UV Transmitter Optiview calibration (3m) 1517	COMP	11/2/20 12:00 AM	1/27/21 03:18 PM	1/27/21 03:18 PM	
1987806	0000328763	ANALYZER TURBIDITY PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Turbidity Analyzer Calibration (1m) 1517	COMP	11/2/20 12:00 AM	12/21/20 01:11 PM	12/21/20 01:11 PM	
1987811	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	11/2/20 12:00 AM	12/21/20 01:10 PM	12/21/20 01:10 PM	
1987814	0000328770	UV LIGHT REACTOR #1	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	11/2/20 12:00 AM	1/27/21 03:19 PM	1/27/21 03:19 PM	
1987817	0000328771	UV LIGHT REACTOR #2	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	BUSCOMP	11/2/20 12:00 AM	1/27/21 03:19 PM	1/27/21 03:19 PM	
1987820	0000328765	ANALYZER CHLORINE UNIT #3 PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Portable chlorine Analyzer #3 Calibration (1m) 1517	COMP	11/2/20 12:00 AM	11/2/20 01:44 PM	11/2/20 01:44 PM	

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1987863	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	11/2/20 12:00 AM	12/21/20 01:13 PM	12/21/20 01:13 PM	
1987884			1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	HVAC, Fans, Dehumidifiers, Heaters ,Louvres (1y) 1517	COMP	11/2/20 12:00 AM	12/21/20 01:12 PM	12/21/20 01:12 PM	
1987897			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1517	COMP	11/2/20 12:00 AM	12/21/20 01:10 PM	12/21/20 01:10 PM	
1987906			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	11/2/20 12:00 AM	12/8/20 01:12 PM	12/8/20 01:12 PM	
1987917	0000328789	TANK STORAGE FUEL ELECTRIC GENERATOR	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Storage Fuel Diesel Insp/ Service (1y) 1517	COMP	11/2/20 12:00 AM	11/2/20 01:47 PM	11/2/20 01:47 PM	
1987927	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	11/2/20 12:00 AM	12/21/20 01:15 PM	12/21/20 01:15 PM	
1988030			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	11/2/20 12:00 AM	11/2/20 01:41 PM	11/2/20 01:41 PM	
1999058	0000328804	ANALYZER CHLORINE / PH AIT 102	1517, Mattawa DWS	PM	Inspection	3	MONTHS	PH Analyzer Calibration (3m) 1517	COMP	11/13/20 12:00 AM	12/21/20 01:11 PM	12/21/20 01:11 PM	
1999061			1517, Mattawa DWS	PM	Inspection	3	MONTHS	PH Analyzer Calibration (POE) (3m) 1517	COMP	11/13/20 12:00 AM	1/27/21 03:26 PM	1/27/21 03:26 PM	
2025725	0000328763	ANALYZER TURBIDITY PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Turbidity Analyzer Calibration (1m) 1517	COMP	12/1/20 12:00 AM	12/8/20 01:10 PM	12/8/20 01:10 PM	
2025730	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	12/1/20 12:00 AM	1/27/21 03:17 PM	1/27/21 03:17 PM	
2025733	0000328770	UV LIGHT REACTOR #1	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	12/1/20 12:00 AM	1/27/21 03:22 PM	1/27/21 03:22 PM	
2025736	0000328771	UV LIGHT REACTOR #2	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	BUSCOMP	12/1/20 12:00 AM	1/27/21 03:22 PM	1/27/21 03:22 PM	
2025739	0000328765	ANALYZER CHLORINE UNIT #3 PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Portable chlorine Analyzer #3 Calibration (1m) 1517	COMP	12/1/20 12:00 AM	12/8/20 01:11 PM	12/8/20 01:11 PM	
2025782	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	12/1/20 12:00 AM	1/27/21 03:24 PM	1/27/21 03:24 PM	
2025803			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1517	COMP	12/1/20 12:00 AM	1/27/21 03:23 PM	1/27/21 03:23 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
2025812	0000328755	PUMP CENT WELL #1	1517, Mattawa DWS	PM	Inspection	1	YEARS	Pump Cent Insp/Service (1y) - 1517	COMP	12/1/20 12:00 AM	12/21/20 01:14 PM	12/21/20 01:14 PM	
2025820	0000328756	PUMP CENT WELL #2	1517, Mattawa DWS	PM	Inspection	1	YEARS	Pump Cent Insp/Service (1y) - 1517	COMP	12/1/20 12:00 AM	12/21/20 01:15 PM	12/21/20 01:15 PM	
2025828			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	12/1/20 12:00 AM	12/21/20 01:14 PM	12/21/20 01:14 PM	
2025841	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	12/1/20 12:00 AM	1/27/21 03:24 PM	1/27/21 03:24 PM	
2025933			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	12/1/20 12:00 AM	12/8/20 01:14 PM	12/8/20 01:14 PM	



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MATTAWA WATER & WASTEWATER SYSTEMS QUARTERLY OPERATIONS REPORT

Appendix B - Work Order Summary for WWTL

Workorder Summary Report

Report Start Date: Oct 1, 2020 12:00 AM

Report End Date: Dec 31, 2020 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
1948192	0000328854	UV LIGHT REACTOR SYSTEM	1541, Mattawa Wastewater System	PM	Inspection	6	MONTHS	UV Reactor service Fall (2m) 1541	COMP	10/1/20 12:00 AM	10/30/20 01:32 PM	10/30/20 01:32 PM	
1948361			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	HVAC, Fans, Dehumidifiers, Heaters ,Louvres Route (1y) 1541	COMP	10/1/20 12:00 AM	1/27/21 03:30 PM	1/27/21 03:30 PM	
1948392			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	10/1/20 12:00 AM	11/2/20 02:01 PM	11/2/20 02:01 PM	
1948400			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	10/1/20 12:00 AM	10/30/20 01:21 PM	10/30/20 01:21 PM	- check eye was station, chemical room inspection. inspect gates locks, fire ext. TF Oct 29/20
1959410	0000328884	TANK PROCESS CELL 1 LAGOON	1541, Mattawa Wastewater System	CORR	Refurbish/ Replace/Repair	0		Mattawa Sewage Lagoon Air Line repairs	CLOSE		10/20/20 02:30 PM	10/20/20 02:30 PM	Aeration Line Repairs Completed -Lagoon water lever was lowered to allow for repairs to be completed Oct 13, with sludge removal at the inlet to follow in a few days time.
1961581	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	10/16/20 12:00 AM	10/30/20 01:29 PM	10/30/20 01:29 PM	- inspect tank, ventilation.
1961754			1541, Mattawa Wastewater System	OPER	Predictive Maintenance	0		Mattawa Lagoon Desludge at Inlet	CLOSE		10/16/20 03:28 PM	10/16/20 03:28 PM	Desludge Lagoon Inlet -Sludge accumulation was removed from the inlet while the water level was lowered in order to repair aeration lines.
1963105			1541, Mattawa Wastewater System	CAP	Refurbish/ Replace/Repair	0		1541 Main Station xylem panel retrofit	COMP		10/26/20 10:45 AM	12/8/20 01:30 PM	1541 Main Station xylem panel retrofit -Meet with Xylem to discuss panel install panel comissioning - assist with panel install, power up and commisioning of new panel. review flyght multiviewer screen and softstarts with xylem. TF Nov 27/20
1987947			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	11/2/20 12:00 AM	12/21/20 01:16 PM	12/21/20 01:16 PM	
1987954			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	11/2/20 12:00 AM	11/2/20 02:00 PM	11/2/20 02:00 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
1999414	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	11/16/20 12:00 AM	12/21/20 01:19 PM	12/21/20 01:19 PM	Tank Alum Inspection (1m) - 1541 -Alum tank inspected, No leaks or defects found. JD
2000966	0000328901	GENERATOR ELECTRIC DIESEL	1541, Mattawa Wastewater System	CAP	Refurbish/ Replace/Repair	0		Mattawan SPS Generator Fuel Line Upgrades	COMP		12/21/20 01:13 PM	12/21/20 01:13 PM	Mattawan SPS Generator Fuel Line Upgrades - To remove and install new fue lines. 50' - 3/8" double wall fuel line, fire valve, stainless steel flex lines, misc. fittings, and floor covering. Mattawan SPS Generator Fuel Line Upgrades -Vals Equipment was onsite, Removed all old fuels lines, Installed new fire valve and fuel lines. Primed and tested the systems, all ok JD

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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
2000968	0000328901	GENERATOR ELECTRIC DIESEL	1541, Mattawa Wastewater System	CAP	Refurbish/ Replace/Repair	0		McKenzie SPS Generator Fuel Line Upgrades	COMP		12/21/20 01:14 PM	12/21/20 01:14 PM	McKenzie SPS Generator Fuel Line Upgrades - To remove and install new fuel l 50' - 3/8" double wall fuel line, floor covering McKenzie SPS Generator Fuel Line Upgrades -Vals Equipment was on site, completed the removal and installation of new fuel lines, and fire valve. Once completed they primed and tested the systems all operational. JD

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2000969	0000328874	GENERATOR ELECTRIC DIESEL BACKUP POWER	1541, Mattawa Wastewater System	CAP	Refurbish/ Replace/Repair	0		Lagoon SPS Generator Fuel Line Upgrades	COMP		12/21/20 01:16 PM	12/21/20 01:16 PM	Lagoon SPS Generator Fuel Line Upgrades - To remove and install new fuel l 60' - 3/8" double wall fuel line, floor covering. Lagoon SPS Generator Fuel Line Upgrades -Vals Equipment was onsite and completed removal of old fuel lines and installation of new fuel lines, as well as a new fire valve. Once completed, all systems were primed and checked. All operational. JD
2001307	0000328874	GENERATOR ELECTRIC DIESEL BACKUP POWER	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	11/28/20 12:00 AM	12/21/20 01:18 PM	12/21/20 01:18 PM	
2001310	0000328842	GENERATOR ELECTRIC DIESEL 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	11/28/20 12:00 AM	12/21/20 01:18 PM	12/21/20 01:18 PM	
2001313	0000328901	GENERATOR ELECTRIC DIESEL	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	11/28/20 12:00 AM	12/21/20 01:18 PM	12/21/20 01:18 PM	
2025846	0000328859	ANALYZER GAS BUMP TEST	1541, Mattawa Wastewater System	PM	Calibration	6	MONTHS	Analyzer Gas C02 (6m) 1541	COMP	12/1/20 12:00 AM	1/27/21 03:37 PM	1/27/21 03:37 PM	
2025866			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	12/1/20 12:00 AM	1/27/21 03:31 PM	1/27/21 03:31 PM	
2025873			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	12/1/20 12:00 AM	12/21/20 01:17 PM	12/21/20 01:17 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
2025893	0000328828	UPS BATTERY BACKUP 451 BISSETT ST.	1541, Mattawa Wastewater System	PM	Inspection	1	YEARS	Ups Battery Bank Insp/Service (1y) 1541	COMP	12/1/20 12:00 AM	1/27/21 03:31 PM	1/27/21 03:31 PM	
2029453			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	12/1/20 12:00 AM	1/27/21 03:36 PM	1/27/21 03:36 PM	
2029483			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 1541	COMP	12/1/20 12:00 AM	1/27/21 02:45 PM	1/27/21 02:45 PM	
2037833			1541, Mattawa Wastewater System	CAP	Refurbish/ Replace/Repair	0		1541 mattawa Alarming for Blake street station	COMP		1/22/21 11:27 AM	1/22/21 11:27 AM	1541 mattawa Alarming for Blake street station -Connect alarming from xylem multi smart controller to true steel alarm panel and test
2038622	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	12/16/20 12:00 AM	12/21/20 01:17 PM	12/21/20 01:17 PM	Tank Alum Inspection (1m) - 1541 -Alum tank inspection completed by Josh D, all OK no leaks or issues
2039899	0000328842	GENERATOR ELECTRIC DIESEL 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	12/28/20 12:00 AM	1/27/21 03:32 PM	1/27/21 03:32 PM	



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MATTAWA WATER & WASTEWATER SYSTEMS

QUARTERLY OPERATIONS REPORT

Appendix C – Call-out Report for WTP

Workorder Summary Report

Report Start Date: Oct 1, 2020 12:00 AM

Report End Date: Dec 31, 2020 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
1962453			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		water in ditch and on road 975 James st mattawa 1517	COMP		10/21/20 05:45 PM	10/21/20 08:45 PM	water in ditch and on road 975 James st mattawa 1517 - Called by monitoring station for water in ditch and on road at 1739. given Jason rangers name number and address, called said there is water in the ditch and its crossing the raod 921 James. arrived at 1900, found hose to backyard at 941 james st, possibly emptying pool. no water in ditch road still wet and runoff marks in ditch where hose discharging from. no water leak. TF Oct 21/20
1963988			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Emergency Water off 300 Main st	COMP		10/10/20 12:15 PM	10/10/20 01:15 PM	Emergency Water off 300 Main st -Received text message from towns monitoring company for "water from road coming into basement of the pharmacy", received at 1222, Arrived at the building at 1240, spoke with the owner, there was noise on his water line. shut curb stop off and the water and noise stopped. Advised owner leak was on his property and he need to have it repaired. Owner asked to leave the water off for the weekend. JD
1997555			Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Low uv dose Mattawa 1517	COMP		11/1/20 10:30 PM	11/1/20 11:00 PM	Low uv dose Mattawa 1517 - called by true steel at 2220 for low uv alarm. reviewed remotely no pumps running. reviewed trending. reset alarms. possible power bump. TF Nov 1/20
1999565			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		power related alarms Mattawa 1517	COMP		11/15/20 01:00 PM	11/15/20 01:30 PM	power related alarms Mattawa 1517 - recieved multiple alarms for power related issues to both the water and waste water systems from 1217-1226. reviewed remotely and cleared alarms due to power bumps. scada system back to normal operation. TF Nov 15./20

Workorder Summary Report

Report Start Date: Oct 1, 2020 12:00 AM

Report End Date: Dec 31, 2020 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
2001735			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		well pump 2 fault 1517 Mattawa wtp	COMP		11/29/20 04:15 AM	11/29/20 04:30 AM	well pump 2 fault 1517 Mattawa wtp - Recieved call from Josh D who got a call from true steel at 0358 for well pump 2 fault. reviewed scada remotely well pump 1 started to finish pumping cycle. cleared pump alarms. continued to monitor remotely for next pump cycle. TF Nov 30/20
2037699			1517, Mattawa DWS	CALL	Compliance	0		Low Chlorine Alarm WTP-1517	COMP		11/19/20 12:00 AM	11/19/20 01:45 AM	Low Chlorine Alarm WTP-1517 -Called for chlorine alarm at WTP, arrived at 1235 to find low chlorine alarm, POE analyzer reading 14.58, 4.12 mg/Lon the SCADA. Distribution analyzer reading 1.30 mg/L and 1.25 on Hand held. Run calibration on POE analyzer. New slope 148.915,Current slope of 79.670. flush POE analyzer water line, all back in line with one another. No apparent issues with anything else.
2037701			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Emergency Water off- 1517	COMP		12/9/20 02:25 PM	12/9/20 02:29 PM	Emergency Water off- 1517 -Called by Town of Mattawa Montoring service, for emergency water off at 975 James ST. Arrived to find homeowner with water leak in the basement. Attempted to turn off the curbstop. I was unable to turn off the curbstop. Advised the homeowner I was unable to shut off the water. The home owner elected to allow it to leak for the weekend. I Contacted Mattawa PW supervisor Barry and informed him of the iissue. Town was to dig the curbstop and repair it Monday morning.



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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, 2020 12:00 AM

Report End Date: Dec 31, 2020 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
2037826			1541, Mattawa Wastewater System	EMER	Refurbish/ Replace/Repair	0		451 bissette pump 1 repair mattawa 1541 blake st station	COMP		12/10/20 10:26 AM	12/10/20 10:26 AM	pump 1 impellar repair - while configuring alarms on new panel noticed pump 1 amps low and volume not going down. pulled pump and noticed impellar stayed in volute. bolts sheared off. Jon s able to tap and ease out old bolts before installing new factory bolts and orings onsite and in stock. TF Dec9/20
2037964	0000328834	LIFTING DEVICE CRANE JIB 451 BISSETT ST.	1541, Mattawa Wastewater System	EMER	Health and Safety	0		Repairs For Gantry Crane @ 451 Bissett St lift station	COMP		12/21/20 11:40 AM	12/21/20 11:40 AM	Repairs For Gantry Crane @ 451 Bissett St lift station -Tried to use the crane to lift pump # 1, found the up/down switch to be faulty. Got it working and the limit switch did not stop on the down stroke and the chain came out of the chain block. Trans Canada Safety to come in and Replace the switch, as well as check limits and re-install the chain. Repairs For Gantry Crane @ 451 Bissett St lift station -Work on the JIB crane was completed by Tans Canada Safety on Tuesday Decmeber 8/20, Crane is now in proper working condition. 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**

Report extracted 01/18/2021 17:25

From: 01/10/2020 to 31/12/2020

Facility: [1517] MATTAWA DRINKING WATER SYSTEM

Works: [210001905]

	10/2020	11/2020	12/2020	<--Total-->	<--Avg.-->	<--Max.-->	<--Min.-->
Flows:							
Raw Flow: Monthly Total - Well #1 (m³)	33297.37	26458.59	31277.97	91033.93			
Raw Flow: Monthly Total - Well #2 (m³)	5797.53	5001.16	6152.24	16950.93			
Raw Flow: Monthly Avg - Well #1 (m³/d)	1074.11	881.95	1008.97		988.34		
Raw Flow: Monthly Avg - Well #2 (m³/d)	187.02	166.71	198.46		184.06		
Raw Flow: Monthly Max - Well #1 (m³/d)	1503.05	1096.03	1265.27			1503.05	
Raw Flow: Monthly Max - Well #2 (m³/d)	460.07	443.69	454.86			460.07	
Raw Flow: Monthly Total - Raw Water - Total (m³)	39094.9	31459.75	37430.21	107984.86			
Raw Flow: Monthly Avg - Raw Water - Total (m³/d)	1261.13	1048.66	1207.43		1172.4		
Raw Flow: Monthly Max - Raw Water - Total (m³/d)	1673.9	1403.55	1549.02			1673.9	
Turbidity:							
Raw: Max Turbidity - Well #1 (NTU)	0.33	0.45	0.25			0.45	
Raw: Max Turbidity - Well #2 (NTU)	0.29	0.27	0.21			0.29	
Chemical Parameters:							
Treated: Max Nitrate - TW (mg/L)	1.01					1.01	
Distribution: Max THM - DW (µg/l)	4.49					4.49	
Chlorine Residuals:							
Treated: Min Free Cl2 Resid - TW (mg/L)	0.268	0.364	0.273				0.268
Treated: Max Free Cl2 Resid - TW (mg/L)	4.119	4.119	4.119			4.119	
Dist: Min Free Cl2 Resid - DW (mg/L)	0.548	0.562	0.591				0.548
Dist: Max Free Cl2 Resid - DW (mg/L)	1.784	1.723	2.436			2.436	
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	15	12	15	42			
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 01/20/2021 13:20

From: 01/10/2020 to 31/12/2020

Facility: [1541] MATTAWA WASTEWATER TREATMENT FACILITY

Works: [110000436]

	10/2020	11/2020	12/2020	<--Total-->	<--Avg.-->	<--Max.-->	<--Criteria-->
Flows:							
Raw Flow: Total - Raw (m³)	23728.00	22094.00	20337.00	66159.00			
Raw Flow: Avg - Raw (m³/d)	765.42	736.47	656.03		719.31		
Raw Flow: Max - Raw (m³/d)	1381.00	1121.00	914.00			1381.00	
Eff. Flow: Total - Eff (m³)	23728.00	22094.00	20337.00	66159.00			
Eff. Flow: Avg - Eff (m³/d)	765.42	736.47	656.03		719.31		
Eff. Flow: Max - Eff (m³/d)	1381.00	1121.00	914.00			1381.00	
Carbonaceous Biochemical Oxygen Demand: CBOD:							
Eff: Avg cBOD5 - Eff (mg/L)	2.900	3.700	7.300		4.633	7.300	25.0
Eff: # of samples of cBOD5 - Eff (mg/L)	1	1	1	3			
Loading: cBOD5 - Eff (kg/d)	2.220	2.725	4.789		3.245	4.789	
Biochemical Oxygen Demand: BOD5:							
Raw: Avg BOD5 - Raw (mg/L)	126.900	90.800	115.400		111.033	126.900	
Raw: # of samples of BOD5 - Raw (mg/L)	1	1	1	3			
Eff: Avg BOD5 - Eff (mg/L)	3.900	4.100	7.500		5.167	7.500	30.0
Eff: # of samples of BOD5 - Eff (mg/L)	1	1	1	3			
Loading: BOD5 - Eff (kg/d)	2.985	3.020	4.920		3.642	4.920	
Percent Removal: BOD5 - Raw (mg/L)	0.000	0.000	0.000			0.000	
Total Suspended Solids: TSS:							
Raw: Avg TSS - Raw (mg/L)	115.000	118.000	108.000		113.667	118.000	
Raw: # of samples of TSS - Raw (mg/L)	1	1	1	3			
Eff: Avg TSS - Eff (mg/L)	2.900	2.700	17.900		7.833	17.900	30.0
Eff: # of samples of TSS - Eff (mg/L)	1	1	1	3			
Loading: TSS - Eff (kg/d)	2.220	1.988	11.743		5.317	11.743	
Percent Removal: TSS - Raw (mg/L)	0.000	0.000	0.000			0.000	
Total Phosphorus: TP:							
Raw: Avg TP - Raw (mg/L)	2.940	1.230	1.220		1.797	2.940	
Raw: # of samples of TP - Raw (mg/L)	1	1	1	3			
Eff: Avg TP - Eff (mg/L)	1.240	0.850	1.910		1.333	1.910	2.5
Eff: # of samples of TP - Eff (mg/L)	5	4	5	14			
Loading: TP - Eff (kg/d)	0.735	0.398	1.069		0.734	1.069	3.91
Percent Removal: TP - Raw (mg/L)	0.000	0.000	0.000			0.000	
Nitrogen Series:							
Eff: Avg TAN - Eff (mg/L)	13.025	11.585	11.720		12.110	13.025	
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			
Disinfection:							