

SYSTEM OVERVIEW

July 1st to September 30th , 2024

OPERATIONAL HIGHLIGHTS

Drinking Water System

- The water treatment system operated well during the third quarter.
- Internet was interrupted when Bell technician accidentally disconnected the line.

Wastewater Treatment

- The wastewater treatment system performed well during the third quarter.
- Pump at McKenzie Station plugged after heavy rain. Pump was pulled and cleared of the blockage

CAPITAL PLAN PROGRESS

Drinking Water System

- New Trojan UVT analyzer installed and operational

Wastewater Treatment

- Alum pumps failed. Spare was placed into service until replacement pumps were purchased.

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 2024 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 24, 2024.
- Annual above ground well inspections completed September 12, 2024, for both wells.
- Drinking Water Quality Management System (DWQMS) completed on September 20, 2024, 3 Opportunities for improvement have been identified and 8 action items addressed.
- All sewage samples required under the system's C of A collected and tested in the third quarter of 2024.

INCIDENTS AND COMPLAINTS

Mattawa Drinking Water System

Incident	N/A
Date	
Details	

Mattawa Wastewater System

Incident	N/A
Date	
Details	

HEALTH AND SAFETY

- Staff training completed on SDS/MSDS.
- Staff training completed on Psychological Hazards
- Staff training completed on OCWA's STOP Program

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



Appendix A - Work Order Summary for WTP

Workorder Summary Report

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

Report End Date: Sep 30, 2024 11:59 PM

Location: 1517*

Work Order Type: CALL,CAP,CORR,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
4045968			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV1 valve failed to close	CLOSE		6/28/24 11:30 PM	6/28/24 11:45 PM	UV1 valve failed to close - UV1 valve failed to close after cycle completed. Manually reset valve, closed then placed UV1 back into duty position. Valve opened like normal. Happened twice over the weekend.
4048913			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Mattawa Power Outage	COMP		7/10/24 08:10 PM	10/15/24 08:48 AM	
4049617			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV Fail- 1517	CLOSE		7/12/24 09:15 PM	7/16/24 02:52 PM	UV Fail- 1517 - Called by monique for UV 1 and 2 fail. Unable to remotely check. I offered to go see what the issue was. Found UV 1 to be tripped in wiper home sensor issue. Reset wiper manually to home. Changed home sensor. All seems ok. UV2, unkown shut down issue. will look into it further
4051130			1517, Mattawa DWS	CALL	Inspection	0		UV failure	CLOSE		7/21/24 06:15 AM	7/21/24 09:30 AM	UV failure - Multiple UV #1 & #2 failure alarms for WTP. Was able to run UV2 after resetting twice. UV1 would not stay running for a pump cycle. Faulty electrical connection to UV1 wiper was found and repaired later.
4052190			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Chemical Pump Fail-1517	CLOSE		7/23/24 10:45 PM	7/31/24 01:01 PM	
4052195			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Low Chlorine Alarm-1517	CLOSE		7/24/24 10:30 PM	7/31/24 01:04 PM	Low Chlorine Alarm-1517 - Called for low chlorine alarm. Arrived found plant to not be running. Both chlorine pumps are ok not faulted. Just low chlorine level. Switched to chlorine pump 1, restarted plant. Levels are up. Will calibrate and adjust p2 tomorrow

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4052196			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Low Chlorine Alarm-1517	CLOSE		7/25/24 05:00 PM	7/31/24 01:06 PM	Low Chlorine Alarm-1517 - On-site for low chlorien. Arrived found one valve still closed, p2 tripped out under calibration fault. Recalibrated p2, checked settings, found the signalling to be wrong. Changed from 0-20 to 4-20 mA control. All ok now. Checked chlorine pump 1 found it to be on pump curve, changed to 4-20mA control. SCADA now controlling both pump intensity with 4-20mA and operator can up and down pump level from scada/ remote
4093697			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		POE low chlorine	COMP		8/7/24 03:45 PM	8/7/24 06:00 PM	POE low chlorine - Received call from Josh regarding alarm at WTP. Low POE chlorine locked out system. On site, found chlorine pump 1 air locked and in fault. Switched duty pump and started plant. Primed pump 1 to clear air.

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4094833			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Power Outage-1517/1541	COMP		8/11/24 08:15 AM	8/11/24 06:00 PM	Power Outage-1517/1541 - 0815- Called for power outage, Received multiple alarms for UV1/2 Fail, Diesel Alarm. 0900- Onsite to check Plant and generator. Found genertor not running. DIst chlorine analyzer and SCADA still running on Battery backups, all ok at this time. 0918- Unknown issue with generator not start, called Gary from Vals to figure out issues with generator. 0920- I was able to reset generator motor panel, found Overvoltage alarm to be active and locking out generator. Reset the alarm and generator started. But the transfer panel display is broke and not displaying but still transferring properly. Plant started. 1100- Gary from vals onsite to check generator, found no issues. except for the display on the transfer panel. Gary figures the generator generator started and over revved and caused over voltage issue. 1340- Plant shut down, back onsite for Low chlorine alarms.PLC fail. Dist

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													chlorine anaylzer not reading properly. Switched out flow cell, cleaned and replaced. Changed electrolyte and membrane cap. Chlorine analyzer then spiked to Max. and PH of 8.00. Tried calibrating and resetting chlorine analyzer, no response. Changed the PH Probe. and analyzer started responding properly. Calibrated PH agains standards, calibrated chorine to 0.50 mg/l against handheld. will continue to monitor and recheck PH and chlorine next time onsite. Cleared all alarms and plant restarted OK. 1730- Onsite to check plant after power restored. ALL OK, plant transfered and generator switched off normally. All OK
4094834			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV issues- 1517	COMP		8/12/24 05:00 AM	8/20/24 07:50 AM	UV issues- 1517 - Onsite for UV issues, Found alarm due to no water flow. Checked relays, removed alarms and opened and clo

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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
4143718			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Power Outage 1517/1541	COMP		9/8/24 09:00 AM	9/13/24 12:14 PM	- 16:30
4144349			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Call in Chlorine pump failure	COMP		9/14/24 01:17 PM	9/14/24 02:35 PM	Call in Chlorine pump failure - Sept 14th 2024 13:20 arrived on site for chlorine pump chlorine failure - POE analyzer was reading 0.11mg/l -primed both chlorine pumps - got chlorine residual back up. - compared analyzer with handheld within calibration no adjustment needed - reset all alarms and started WTP back up. 14:30 left site after call out.



Appendix B - Work Order Summary for WWTL

Workorder Summary Report

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

Report End Date: Sep 30, 2024 11:59 PM

Location: 1541*

Work Order Type: CAP,CORR,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4026051			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	7/1/24 12:00 AM	9/23/24 09:28 AM	9/23/24 09:28 AM	
4026058			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	CLOSE	7/1/24 12:00 AM	7/15/24 09:28 AM	7/15/24 09:28 AM	
4029949			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	CLOSE	7/1/24 12:00 AM	7/15/24 09:36 AM	7/15/24 09:36 AM	
4048655			1541, Mattawa Wastewater System	CAP	Refurbish/ Replace/Repair	0		Duty Alum Pump Replacement	CLOSE		7/26/24 08:02 AM	7/26/24 08:02 AM	Duty Alum Pump Replacement - Replace old inoperable Watson Marlow alum pump. Qdos 30 Universal 24V Relay pump 30l/hr 7bar, 100 PSI ReNu Santoprene pumphead to the left Duty Alum Pump Replacement - New Duty Alum pump arrived mopnday July 21/24, was installed July 22/24, working OK at this time
4048656			1541, Mattawa Wastewater System	CAP	Refurbish/ Replace/Repair	0		Standby Alum Pump Replacement	CLOSE		7/26/24 08:03 AM	7/26/24 08:03 AM	Standby Alum Pump Replacement - Replace old inoperable Watson Marlow alum pump. Qdos 30 Universal 24V Relay pump 30l/hr 7bar, 100 PSI ReNu Santoprene pumphead to the left Standby Alum Pump Replacement - New Standby Alum pump arrived monday July 21/24, was installed July 22/24, working OK at this time
4049472	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	CLOSE	7/16/24 12:00 AM	7/22/24 09:13 AM	7/22/24 09:13 AM	
4073705			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	8/1/24 12:00 AM	9/23/24 09:29 AM	9/23/24 09:29 AM	
4073712			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	8/1/24 12:00 AM	9/23/24 09:30 AM	9/23/24 09:30 AM	

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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
4077085			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	8/1/24 12:00 AM	9/23/24 02:28 PM	9/23/24 02:28 PM	Pump Submersible Group Inspection (1m) 1541 - Pumps ran and visual inspection completed weekly. No issues found at this time
4094064	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	8/16/24 12:00 AM	9/23/24 09:32 AM	9/23/24 09:32 AM	
4095611	0000328874	GENERATOR ELECTRIC DIESEL BACKUP POWER	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	8/26/24 12:00 AM	9/23/24 02:29 PM	9/23/24 02:29 PM	Generator Monthly Test (1m) 1541 - Generator ran under power outage conditions. No issues found at this time.
4095614	0000328842	GENERATOR ELECTRIC DIESEL 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	8/26/24 12:00 AM	9/23/24 02:29 PM	9/23/24 02:29 PM	Generator Monthly Test (1m) 1541 -Generator ran under power outage conditions. No issues found at this time.
4095617	0000328901	GENERATOR ELECTRIC DIESEL	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	8/26/24 12:00 AM	9/23/24 02:30 PM	9/23/24 02:30 PM	Generator Monthly Test (1m) 1541 -Generator ran under power outage conditions. No issues found at this time.
4095620			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 1541	COMP	8/26/24 12:00 AM	9/23/24 09:33 AM	9/23/24 09:33 AM	
4121279			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	9/1/24 12:00 AM	10/15/24 03:34 PM	10/15/24 03:34 PM	
4121286			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	9/1/24 12:00 AM	9/23/24 09:33 AM	9/23/24 09:33 AM	
4125236			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	9/1/24 12:00 AM	9/23/24 09:34 AM	9/23/24 09:34 AM	
4144081	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	9/16/24 12:00 AM	9/23/24 09:35 AM	9/23/24 09:35 AM	



Appendix C - Call-out Report for WTP

Workorder Summary Report

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

Report End Date: Sep 30, 2024 11:59 PM

Location: 1517*

Work Order Type: CALL,EMER

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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
4045968			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV1 valve failed to close	CLOSE		6/28/24 11:30 PM	6/28/24 11:45 PM	UV1 valve failed to close - UV1 valve failed to close after cycle completed. Manually reset valve, closed then placed UV1 back into duty position. Valve opened like normal. Happened twice over the weekend.
4048913			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Mattawa Power Outage	COMP		7/10/24 08:10 PM	10/15/24 08:48 AM	Mattawa Power Outage -Received a call from Telus alarms advising of a power outage in Mattawa. Logged in remotely and genset was running at WTP. Checked hydro one website and estimated restoration time was 2300. Continued to monitor remotely. When power was restored checked to make sure it was back to normal, all ok.
4049617			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV Fail- 1517	CLOSE		7/12/24 09:15 PM	7/16/24 02:52 PM	UV Fail- 1517 - Called by monique for UV 1 and 2 fail. Unable to remotely check. I offered to go see what the issue was. Found UV 1 to be tripped in wiper home sensor issue. Reset wiper manually to home. Changed home sensor. All seems ok. UV2, unkown shut down issue. will look into it furher
4051130			1517, Mattawa DWS	CALL	Inspection	0		UV failure	CLOSE		7/21/24 06:15 AM	7/21/24 09:30 AM	UV failure - Multiple UV #1 & #2 failure alarms for WTP. Was able to run UV2 after resetting twice. UV1 would not stay running for a pump cycle. Faulty electrical connection to UV1 wiper was found and repaired later.

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4052190			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Chemical Pump Fail-1517	COMP		7/23/24 10:45 PM	7/31/24 01:01 PM	Chemical Pump Fail-1517 - Received chemical pump fail alarms. On-site found chemical pump 1 air locked. Chemical pump 2 seemed ok. But did not switch over. Cleared air reset pumps and alarms. Plant starting ok.
4052195			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Low Chlorine Alarm-1517	COMP		7/24/24 10:30 PM	7/31/24 01:04 PM	Low Chlorine Alarm-1517 - Called for low chlorine alarm. Arrived found plant to not be running. Both chlorine pumps are ok not faulted. Just low chlorine level. Switched to chlorine pump 1, restarted plant. Levels are up. Will calibrate and adjust p2 tomorrow
4052196			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Low Chlorine Alarm-1517	COMP		7/25/24 05:00 PM	7/31/24 01:06 PM	Low Chlorine Alarm-1517 - On-site for low chlorien. Arrived found one valve still closed, p2 tripped out under calibration fault. Recalibrated p2, checked settings, found the signalling to be wrong. Changed from 0-20 to 4-20 mA control. All ok now. Checked chlorine pump 1 found it to be on pump curve, changed to 4-20mA control. SCADA now controlling both pump intensity with 4-20mA and operator can up and down pump level from scada/ remote

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4093697			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		POE low chlorine	COMP		8/7/24 03:45 PM	8/7/24 06:00 PM	POE low chlorine - Received call from Josh regarding alarm at WTP. Low POE chlorine locked out system. On site, found chlorine pump 1 air locked and in fault. Switched duty pump and started plant. Primed pump 1 to clear air.

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4094833			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Power Outage-1517/1541	COMP		8/11/24 08:15 AM	8/11/24 06:00 PM	Power Outage-1517/1541 - 0815- Called for power outage, Received multiple alarms for UV1/2 Fail, Diesel Alarm. 0900- Onsite to check Plant and generator. Found genertor not running. DIst chlorine analyzer and SCADA still running on Battery backups, all ok at this time. 0918- Unknown issue with generator not start, called Gary from Vals to figure out issues with generator. 0920- I was able to reset generator motor panel, found Overvoltage alarm to be active and locking out generator. Reset the alarm and generator started. But the transfer panel display is broke and not displaying but still transferring properly. Plant started. 1100- Gary from vals onsite to check generator, found no issues. except for the display on the transfer panel. Gary figures the generator generator started and over revved and caused over voltage issue. 1340- Plant shut down, back onsite for Low chlorine alarms.PLC fail. Dist

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4094834			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV issues- 1517	COMP		8/12/24 05:00 AM	8/20/24 07:50 AM	UV issues- 1517 - Onsite for UV issues, Found alarm due to no water flow. Checked relays, removed alarms and opened and clo

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4144349			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Call in Chlorine pump failure	COMP		9/14/24 01:17 PM	9/14/24 02:35 PM	Call in Chlorine pump failure - Sept 14th 2024 13:20 arrived on site for chlorine pump chlorine failure - POE analyzer was reading 0.11mg/l -primed both chlorine pumps - got chlorine residual back up. - compared analyzer with handheld within calibration no adjustment needed - reset all alarms and started WTP back up. 14:30 left site after call out.



Appendix D – Call-out Report for WWTL

Workorder Summary Report

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Report End Date: Sep 30, 2024 11:59 PM

Location: 1541*

Work Order Type: CALL,EMER

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
4051476			1541, Mattawa Wastewater System	CALL	Inspection	0		555 Mattawan St sewer backup	CLOSE		7/27/24 10:30 AM	7/27/24 12:45 PM	555 Mattawan St sewer backup - Resident at 555 Mattawan St called in for backed up sewer. She was told from plumber friend to call the city. Checked both manholes up and downstream. Both flowing fine. Informed caller that a plumber is needed to assess the situation from inside building.
4051477			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		Brooke Station pump 2 tripped	CLOSE		7/26/24 09:30 PM	7/26/24 11:30 PM	Brooke Station pump 2 tripped - Received call for general alarm at Brooke St lift station at 21:30. Arrived on site at 22:30 and found pump#2 breaker tripped. Reset breaker and ran pump manually. Pumped down station successfully.
4140627			1541, Mattawa Wastewater System	CALL	Inspection	0		Low battery 101 Bissett LS	COMP		8/31/24 10:00 AM	8/31/24 11:30 AM	Low battery 101 Bissett LS - Received call from Telus for low battery alarm at 101 Bissett lift station. Checked station to make sure hydro was still supplied to pumps. Power was present upon arrival. Manually pumped down lift station and placed back into AUTO
4145630			1541, Mattawa Wastewater System	CALL	Inspection	0		Louis LS high float	COMP		9/17/24 04:30 PM	9/17/24 06:30 PM	Louis LS high float - Received Alarm for high float at Louis St lift station. Arrived on site, station was pumped down. No signs of high water level earlier. Manually ran pump to verify operation.



Appendix E - Performance Assessment Report Water

Water Performance Assessment Report

From 01/07/2024 to 30/09/2024

1517 MATTAWA DRINKING WATER SYSTEM 210001905

7 / 2024 8/ 2024 9/ 2024 <--Total--> <--Avg--> <--Max--> <--Min-->

Flows

Raw Flow: Monthly Total - RW1 - Well #1 (m³)	41,563.10	43,069.53	41,144.32	125,776.95			
Raw Flow: Monthly Total - RW2 - Well #2 (m³)	3,740.20	2,545.39	3,435.94	9,721.53			
Raw Flow: Monthly Avg - RW1 - Well #1 (m³)	1,385.44	1,389.34	1,371.48		1,382.08		
Raw Flow: Monthly Avg - RW2 - Well #2 (m³)	120.65	82.11	114.53		105.76		
Raw Flow: Monthly Max - RW1 - Well #1 (m³)	1,779.96	1,772.29	1,693.14			1,779.960	
Raw Flow: Monthly Max - RW2 - Well #2 (m³)	915.32	403.07	409.74			915.324	
Raw Flow: Monthly Total - RWT - Raw Water - Total (m³)	45,303.30	45,614.92	44,580.25	135,498.47			
Raw Flow: Monthly Avg - RWT - Raw Water - Total (m³)	1,461.40	1,471.45	1,486.01		1,472.95		
Raw Flow: Monthly Max - RWT - Raw Water - Total (m³)	1,779.96	1,798.82	1,766.51			1,798.821	

Turbidity

Raw: Max Turbidity - RW1 - Well #1 (NTU)	0.260	0.280	0.270			0.280	
Raw: Max Turbidity - RW2 - Well #2 (NTU)	0.250	0.290	0.280			0.290	

Chemical Parameters

Treated: Max Nitrite - TW - TW (mg/L)	< 0.003				<	0.003	<
Treated: Max Nitrate - TW - TW (mg/L)	1.750					1.750	
Distribution: Max THM - DW - DW (µg/l)	5.000					5.000	
Distribution: Max HAA - DW - DW (µg/l)	< 5.300				<	5.300	<

Chlorine Residuals

Treated: Min Free Cl2 Resid - TW - TW (mg/L)	0.145	0.032	0.101				0.032
Treated: Max Free Cl2 Resid - TW - TW (mg/L)	3.852	3.917	3.943			3.943	
Dist: Min Free Cl2 Resid - DW - DW (mg/L)	0.181	-0.072	0.585				-0.072
Dist: Max Free Cl2 Resid - DW - DW (mg/L)	2.356	3.496	1.049			3.496	

Bacti Samples Collected

Raw Bacti: # of samples - RW1 - Well #1	5	4	4	13			
Raw Bacti: # of samples - RW2 - Well #2	5	4	4	13			
Treated Bacti: # of samples - TW - TW	5	4	4	13			
Dist Bacti: # of samples - DW - DW	15	12	12	39			



Water Performance Assessment Report

From 01/07/2024 to 30/09/2024

Dist HPC: # of samples - DW - DW

Treated Bacti: # of TC exceedances - TW - TW

Treated Bacti: # of EC exceedances - TW - TW

Dist Bacti: # of TC exceedances - DW - DW

Dist Bacti: # of EC exceedances - DW - DW

	5		4		4	13			
	0		0		0	0			
	0		0		0	0			
	0		0		0	0			
	0		0		0	0			



Appendix F - Performance Assessment Report Wastewater

Performance Assessment Report

FROM 1/07/2024 to 30/09/2024

1541 MATTAWA WASTEWATER TREATMENT FACILITY 110000436

7 / 2024 8/ 2024 9/ 2024 <--Avg--> <--Max--> <-Criteria->

Flows

Raw Flow: Total - Raw m³/d	22,831.19	20,355.62	21,891.51			0.00
Raw Flow: Avg - Raw m³/d	736.49	656.63	729.72	707.37		1,564.00
Raw Flow: Max - Raw m³/d	883.86	798.08	1,065.35		1,065.35	0.00
Raw Flow: Count - Raw m³/d	31.00	31.00	30.00			0.00
Eff. Flow: Total - Eff m³/d	22,831.19	20,355.62	21,891.51			0.00
Eff. Flow: Avg - Eff m³/d	736.49	656.63	729.72	707.37		
Eff. Flow: Max - Eff m³/d	883.86	798.08	1,065.35		1,065.35	0.00
Eff Flow: Count - Eff m³/d	31.00	31.00	30.00			0.00

Carbonaceous Biochemical Oxygen Demand: CBOD

Eff: Avg cBOD5 - Eff mg/L	24.00	8.00	6.00	12.67	24.00	
Eff: # of samples of cBOD5 - Eff	1.00	1.00	1.00			0.00
Loading: cBOD5 - Eff kg/d	17.676	5.253	4.378	8.96	17.68	

Biochemical Oxygen Demand: BOD5

Raw: Avg BOD5 - Raw mg/L	151.00	89.00	85.00	108.33	151.00	0.00
Raw: # of samples of BOD5 - Raw	1.00	1.00	1.00			0.00
Eff: Avg BOD5 - Eff mg/L	29.00	10.00	10.00	16.33	29.00	30.00
Eff: # of samples of BOD5 - Eff	1.00	1.00	1.00			0.00
Loading: BOD5 - Eff kg/d	21.358	6.566	7.297	11.55	21.36	46.920
Percent Removal: BOD5 - Raw %	0.00	0.00	0.00	0.00		0.00

Total Suspended Solids: TSS

Raw: Avg TSS - Raw mg/L	155.00	140.00	129.00	141.33	155.00	0.00
Raw: # of samples of TSS - Raw	1.00	1.00	1.00			0.00
Eff: Avg TSS - Eff mg/L	46.30	24.90	20.70	30.63	46.30	30.00
Eff: # of samples of TSS - Eff	1.00	1.00	1.00			0.00
Loading: TSS - Eff kg/d	34.099	16.350	15.105	21.67	34.10	46.920
Percent Removal: TSS - Raw %	0.00	0.00	0.00	0.00		0.00

Total Phosphorus: TP

Performance Assessment Report

FROM 1/07/2024 to 30/09/2024

Raw: Avg TP - Raw mg/L

Raw: # of samples of TP - Raw

Eff: Avg TP - Eff mg/L

Eff: # of samples of TP - Eff

Loading: TP - Eff kg/d

Percent Removal: TP - Raw %

3.19	3.05	2.25	2.83	3.19	0.00
1.00	1.00	1.00			0.00
2.04	0.67	0.51	1.15	2.04	2.50
5.00	4.00	4.00			0.00
1.502	0.438	0.374	0.81	1.50	3.910
0.00	0.00	0.00	0.00		0.00

Nitrogen Series

Eff: Avg TAN - Eff mg/L

Eff: Avg NO3-N - Eff mg/L

Eff: # of samples of NO3-N - Eff

Eff: Avg NO2-N - Eff mg/L

Eff: # of samples of NO2-N - Eff

14.84	2.89	7.49	8.90	14.84	
0.19	0.08	0.12	0.13	0.19	0.00
1.00	1.00	1.00			0.00
3.45	0.05	0.03	1.18	3.45	0.00
1.00	1.00	1.00			0.00