

SYSTEM OVERVIEW

April 1st to June 30th , 2023

OPERATIONAL HIGHLIGHTS

Drinking Water System

- The water treatment system operated well during the second quarter.
- Watermain river crossing experienced damage to concrete anchors from floodwaters. The Town will arrange for divers to inspect the watermain and other infrastructure.
- Flood risk warning was issued by North Bay Mattawa Conservation Authority (NBMCA), and a state of emergency was declared by the Town on May 3rd lasting several weeks. OERT flood response trailer was towed from Kirkland Lake to Mattawa. Staff worked late into the night to lay out the inflatable berms and filled them to protect three vulnerable sewage lift stations. Several lift stations were pumping nearly continuously and experienced high levels. Flood waters did not breach the berms and the flood risk eventually subsided after several weeks. NBMCA downgraded the flood warning on May 17th, and the Town maintained a state of emergency until the end of the month.

Wastewater Treatment

- The wastewater treatment system performed well during the second quarter.
- 1101 Bissett St. Sewage Lift Station (SLS) pumps were plugged and pulled for cleaning.

CAPITAL PLAN PROGRESS

Drinking Water System

- Free lighting upgrade to light-emitting diode (LED) using IESO's Save On Energy program.
- Pilot project with Synergy Controls to trial an ultrasonic flowmeter, since injection of hypo upstream of original magmeter causes erratic readings due to conductivity. Initial results are overwhelmingly positive with the ultrasonic flowmeter providing smooth and accurate trends. It should have a positive influence on process. Phase 2 of the trial will be to run the plant off of the ultrasonic flowmeter. Trial began on June 22. Form 2 completed prior.

Wastewater Treatment

- Free lighting upgrade to LED using IESO's Save On Energy program.
- Replaced alum tank level transducer however, it did not solve all glitches. The transmitter also needs to be replaced. A new transmitter was ordered.
- Pulled pump at 601 McKenzie 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 second quarter of 2023 and all results fell within regulatory limits.
- Winter term lead, pH and alkalinity sampling completed April 12, 2023.
- Quarterly trihalomethanes (THM), haloacetic acids (HAA), Nitrate and Nitrite sampling completed April 12, 2023.
- Annual internal audit and risk assessment completed June 8, 2023. Five (5) opportunities for improvement (OFIs) identified and resolved.
- Off-site external Re-Accreditation audit completed June 7, 2023, there was one (1) OFI identified. Onsite Re-Accreditation audit completed June 21, 2023. One (1) OFI was identified. All resolved.
- No Ministry of the Environment, Conservation and Parks (MECP) or Ministry of Labour (MOL) inspections conducted this quarter.
- All required sewage samples required under the system's ECA collected and tested in the second quarter of 2023.
- Flow meter verification completed.

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 Transportation of Dangerous Goods.
- Staff training completed on Human and Organizational Performance.
- Staff training completed on FEP Binder.

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



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MATTAWA WATER & WASTEWATER SYSTEMS QUARTERLY OPERATIONS REPORT

Appendix A - Work Order Summary for WTP

Workorder Summary Report

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

Report End Date: Jun 30, 2023 11:59 PM

Location: 1517*

Work Order Type: CAP,CORR,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3318772	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	4/1/23 12:00 AM	6/21/23 05:55 AM	6/21/23 05:55 AM	Generator Monthly Test (1m) 1517 - Monthly generator test - Generator OK, no issues found
3318775			1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	4/1/23 12:00 AM	6/21/23 05:56 AM	6/21/23 05:56 AM	UVR Reference Sensor check (UV#1) (1m / 1y) 1517 - UV 1 passed monthly reference check .90 ratio
3318778			1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	4/1/23 12:00 AM	6/21/23 05:57 AM	6/21/23 05:57 AM	UVR Reference Sensor check (UV#2) (1m / 1y) 1517 - UV 2 passed monthly reference check, 1.0 ratio
3318781	0000349404	ANALYZER UV REFERENCE #1	1517, Mattawa DWS	PM	Calibration	0		0000349404 ANALYZER UV REFERENCE #1	COMP	4/1/23 12:00 AM	6/21/23 05:57 AM	6/21/23 05:57 AM	
3318784	0000349405	ANALYZER UV REFERENCE #2	1517, Mattawa DWS	PM	Calibration	0		0000349405 ANALYZER UV REFERENCE #2	COMP	4/1/23 12:00 AM	6/21/23 05:57 AM	6/21/23 05:57 AM	
3318787	0000349406	ANALYZER UV #2 DUTY #1	1517, Mattawa DWS	PM	Calibration	0		0000349406 ANALYZER UV #2 DUTY #1	COMP	4/1/23 12:00 AM	6/21/23 05:57 AM	6/21/23 05:57 AM	
3318790	0000349408	ANALYZER UV #2 DUTY #2	1517, Mattawa DWS	PM	Calibration	0		0000349408 ANALYZER UV #2 DUTY #2	COMP	4/1/23 12:00 AM	6/21/23 05:57 AM	6/21/23 05:57 AM	
3318853			1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	UVR Service (Spring & Fall) 1517	COMP	4/1/23 12:00 AM	6/21/23 05:58 AM	6/21/23 05:58 AM	UVR Service (Spring & Fall) 1517 - Reactors not serviced due to recent install
3318860			1517, Mattawa DWS	PM	Inspection	3	MONTHS	Replace UV Air Filters 1517	COMP	4/1/23 12:00 AM	6/21/23 05:59 AM	6/21/23 05:59 AM	Replace UV Air Filters 1517 - Air filters in UV's checked, still ok
3318868	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	4/1/23 12:00 AM	6/21/23 06:00 AM	6/21/23 06:00 AM	UVT Analyzer calibration to yellow box (1m) 1517 - Checked optiview to Yellow box- 99.8%/100%
3318889			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Critical Alarm Dialer Route (1m) - 1517	COMP	4/1/23 12:00 AM	6/21/23 06:00 AM	6/21/23 06:00 AM	
3318898			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	4/1/23 12:00 AM	6/21/23 06:00 AM	6/21/23 06:00 AM	
3318911	0000328800	TANK STORAGE SODIUM HYPO	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Holding Sodium Hypo Inspection/Maintenance (1y) 1517	COMP	4/1/23 12:00 AM	6/21/23 06:01 AM	6/21/23 06:01 AM	Tank Holding Sodium Hypo Inspection/Maintenance (1y) 1517 - Holding tank inspected daily, No issues found

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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
3318915	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	4/1/23 12:00 AM	6/21/23 06:02 AM	6/21/23 06:02 AM	Valve Regulating Inspection (1m) 1517 - visually check valving during routine water plant inspections, all ok
3319092			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	4/1/23 12:00 AM	6/21/23 06:03 AM	6/21/23 06:03 AM	Analyzer Chlorine Inspection/ Service (1m) 1517 - Compared both POE and distribution analyzers to hand held, within allowances
3340577			1517, Mattawa DWS	CORR	Refurbish/ Replace/Repair	0		Pump 2 Pressure Switch Replacement	COMP		6/15/23 12:35 PM	6/15/23 12:35 PM	Pump 2 Pressure Switch Replacement - New Mercoid Pressure switch on order from Davis controls. Order Details - PRESSURE SWITCH, 10-200 PSIG, SPDT Davis Controls Item #DS-7231-153-8
3366335	0000328787	ANALYZER UV TRANSMITTANCE	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	3	MONTHS	UV Transmitter Optiview calibration (3m) 1517	COMP	5/1/23 12:00 AM	6/21/23 06:04 AM	6/21/23 06:04 AM	UV Transmitter Optiview calibration (3m) 1517 - Compared Optiview to hand held 100%/100% all ok
3366346	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	5/1/23 12:00 AM	6/21/23 06:05 AM	6/21/23 06:05 AM	Generator Monthly Test (1m) 1517 - Generator tested OK, issues found on SCADA where alarms still coming in, to speak with Chris about programming once he is onsite
3366349			1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	5/1/23 12:00 AM	6/21/23 06:06 AM	6/21/23 06:06 AM	
3366352			1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	5/1/23 12:00 AM	6/21/23 06:06 AM	6/21/23 06:06 AM	
3366355	0000349404	ANALYZER UV REFERENCE #1	1517, Mattawa DWS	PM	Calibration	0		0000349404 ANALYZER UV REFERENCE #1	COMP	5/1/23 12:00 AM	6/21/23 06:06 AM	6/21/23 06:06 AM	
3366358	0000349405	ANALYZER UV REFERENCE #2	1517, Mattawa DWS	PM	Calibration	0		0000349405 ANALYZER UV REFERENCE #2	COMP	5/1/23 12:00 AM	6/21/23 06:06 AM	6/21/23 06:06 AM	
3366361	0000349406	ANALYZER UV #2 DUTY #1	1517, Mattawa DWS	PM	Calibration	0		0000349406 ANALYZER UV #2 DUTY #1	COMP	5/1/23 12:00 AM	6/21/23 06:06 AM	6/21/23 06:06 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
3366364	0000349408	ANALYZER UV #2 DUTY #2	1517, Mattawa DWS	PM	Calibration	0		0000349408 ANALYZER UV #2 DUTY #2	COMP	5/1/23 12:00 AM	6/21/23 06:06 AM	6/21/23 06:06 AM	
3366420	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	5/1/23 12:00 AM	6/21/23 06:07 AM	6/21/23 06:07 AM	UVT Analyzer calibration to yellow box (1m) 1517 -Compared Optiveiw to Yellowbox 98.9%/99.5% all ok
3366441			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Critical Alarm Dialer Route (1m) - 1517	COMP	5/1/23 12:00 AM	6/21/23 06:07 AM	6/21/23 06:07 AM	
3366450			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	5/1/23 12:00 AM	6/21/23 06:10 AM	6/21/23 06:10 AM	
3366461	0000328792	TANK STORAGE RESERVOIR	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	3	YEARS	Tank Reservoir Inspection (1y) 1517	COMP	5/1/23 12:00 AM	6/21/23 06:10 AM	6/21/23 06:10 AM	Tank Reservoir Inspection (1y) 1517 - Completed visit to reservoir, observed both entry points and buildings, all ok. Opened hatch and all seems to be in order.
3366475	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	5/1/23 12:00 AM	6/21/23 06:09 AM	6/21/23 06:09 AM	
3366480	0000328753	WELL PRODUCING #1	1517, Mattawa DWS	PM	Inspection	1	YEARS	Well Producing (1y / 10y) Inspection 1517	COMP	5/1/23 12:00 AM	6/21/23 06:09 AM	6/21/23 06:09 AM	Well Producing (1y / 10y) Inspection 1517 - Visual inspection of well head completed, Parging needs to be looked at to be patched, This is just the cement that is built up around pump base.
3366625			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	5/1/23 12:00 AM	8/3/23 03:18 PM	8/3/23 03:18 PM	Analyzer Chlorine Inspection/ Service (1m) 1517 - Analyzer compared to handheld mukltiple times weekly, no issues found,
3384968	0000328804	ANALYZER CHLORINE / PH AIT 102	1517, Mattawa DWS	PM	Inspection	3	MONTHS	PH Analyzer Calibration (3m) 1517	COMP	5/12/23 12:00 AM	8/3/23 03:18 PM	8/3/23 03:18 PM	PH Analyzer Calibration (3m) 1517 - Analyzer checked against handheld all ok
3384971			1517, Mattawa DWS	PM	Inspection	3	MONTHS	PH Analyzer Calibration (POE) (3m) 1517	COMP	5/12/23 12:00 AM	8/3/23 03:19 PM	8/3/23 03:19 PM	PH Analyzer Calibration (POE) (3m) 1517 - Analyzer checked against handheld, no calibration needed at this time

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3385523			1517, Mattawa DWS	OPER	Administrative	0		E&H Prosonic W400 Ultrasonic Flow Meter	COMP		7/24/23 11:03 AM	7/24/23 11:03 AM	PO for Synergy E&H Prosonic W400 Ultrasonic Flow Meter Trial - PO for Synergy E&H Prosonic W400 Ultrasonic Flow Meter Trial. Trial is proposed to use ultrasonic flow measurement since the magnetic flow meter currently being used produces erratic readings due to chemical interference from sodium hypochlorite. E&H Prosonic W400 Ultrasonic Flow Meter Purchase - The pilot project has been successful. The new flowmeter provides very stable trends and has several positive impacts on process operations. The flowmeter will be purchased for permanent installation.
3413666	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	6/1/23 12:00 AM	8/3/23 03:19 PM	8/3/23 03:19 PM	Generator Monthly Test (1m) 1517 - Generator test was completed no issues found
3413669			1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	6/1/23 12:00 AM	8/3/23 03:20 PM	8/3/23 03:20 PM	UVR Reference Sensor check (UV#1) (1m / 1y) 1517 - UV check was completed, UV 1 found within specs
3413672			1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	6/1/23 12:00 AM	8/3/23 03:21 PM	8/3/23 03:21 PM	UVR Reference Sensor check (UV#2) (1m / 1y) 1517 - UV 2 reference check was completed, no issues found at this time
3413675	0000349404	ANALYZER UV REFERENCE #1	1517, Mattawa DWS	PM	Calibration	0		0000349404 ANALYZER UV REFERENCE #1	COMP	6/1/23 12:00 AM	8/3/23 03:21 PM	8/3/23 03:21 PM	
3413678	0000349405	ANALYZER UV REFERENCE #2	1517, Mattawa DWS	PM	Calibration	0		0000349405 ANALYZER UV REFERENCE #2	COMP	6/1/23 12:00 AM	8/3/23 03:21 PM	8/3/23 03:21 PM	
3413681	0000349406	ANALYZER UV #2 DUTY #1	1517, Mattawa DWS	PM	Calibration	0		0000349406 ANALYZER UV #2 DUTY #1	COMP	6/1/23 12:00 AM	8/3/23 03:21 PM	8/3/23 03:21 PM	
3413684	0000349408	ANALYZER UV #2 DUTY #2	1517, Mattawa DWS	PM	Calibration	0		0000349408 ANALYZER UV #2 DUTY #2	COMP	6/1/23 12:00 AM	8/3/23 03:21 PM	8/3/23 03:21 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
3413746	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	6/1/23 12:00 AM	8/3/23 03:22 PM	8/3/23 03:22 PM	UVT Analyzer calibration to yellow box (1m) 1517 - Optiview checked against yellow box found 100%/99.9%
3413767			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Critical Alarm Dialer Route (1m) - 1517	COMP	6/1/23 12:00 AM	8/3/23 03:22 PM	8/3/23 03:22 PM	
3413776			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	6/1/23 12:00 AM	8/3/23 03:22 PM	8/3/23 03:22 PM	
3413789	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	6/1/23 12:00 AM	8/3/23 03:23 PM	8/3/23 03:23 PM	Valve Regulating Inspection (1m) 1517 - Checked all valving, all valvles operate as they should
3413915			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	6/1/23 12:00 AM	8/3/23 03:24 PM	8/3/23 03:24 PM	Analyzer Chlorine Inspection/ Service (1m) 1517 - Analyzer checked against handheld all ok



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MATTAWA WATER & WASTEWATER SYSTEMS QUARTERLY OPERATIONS REPORT

Appendix B - Work Order Summary for WWTL

Workorder Summary Report

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

Report End Date: Jun 30, 2023 11:59 PM

Location: 1541*

Work Order Type: CAP,CORR,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3318929			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	4/1/23 12:00 AM	6/21/23 06:02 AM	6/21/23 06:02 AM	
3318936			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	4/1/23 12:00 AM	8/3/23 03:10 PM	8/3/23 03:10 PM	
3318950	0000328876	TANK STORAGE FUEL LAGOON	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Storage Fuel Diesel Lagoon Insp/Service (1y) 1541	COMP	4/1/23 12:00 AM	8/3/23 03:11 PM	8/3/23 03:11 PM	Tank Storage Fuel Diesel Lagoon Insp/Service (1y) 1541 - Visual inspection done, no fuels leaks or issues found
3318958	0000328903	TANK STORAGE FUEL LAGOON	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Storage Fuel Diesel Lagoon Insp/Service (1y) 1541	COMP	4/1/23 12:00 AM	8/3/23 03:11 PM	8/3/23 03:11 PM	Tank Storage Fuel Diesel Lagoon Insp/Service (1y) 1541 - Visual inspection done, no fuels leaks or issues found
3318966	0000328838	TANK STORAGE FUEL 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Storage Fuel Diesel Mckenzie St. Insp/Service (1y) 1541	COMP	4/1/23 12:00 AM	8/3/23 03:12 PM	8/3/23 03:12 PM	
3323681			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	4/1/23 12:00 AM	8/3/23 03:12 PM	8/3/23 03:12 PM	Pump Submersible Group Inspection (1m) 1541 - All pumps checked weekly, no issues found at this time
3338017	0000328856	METER LEVEL ALUM	1541, Mattawa Wastewater System	CORR	Refurbish/ Replace/Repair	0		New level sensor for alum tank -1541	COMP		6/15/23 12:36 PM	6/15/23 12:36 PM	level sensor for alum tank - SIEMENS XPS-10 TRANSDUCER, 10M CABLE, RANGE:10M, BUILT-IN TEMP SENSOR, KYNAR HOUSING, 1" NPT NIPPL
3340108	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	4/16/23 12:00 AM	8/3/23 03:13 PM	8/3/23 03:13 PM	Tank Alum Inspection (1m) - 1541 - Checked alum tank, no leaks, no issues found

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3341636	0000328856	METER LEVEL ALUM	1541, Mattawa Wastewater System	CAP	Refurbish/ Replace/Repair	0		Alum Tank Level Transmitter-1541	COMP		6/27/23 03:32 PM	6/27/23 03:32 PM	Alum Tank Level Transmitter-1541 - Approval given by town to order new level transmitter, Order from chess today april 26/23 Order Details - 7ML5033-2DA00-2A SIEMENS MULTIRANGER 200 WITH HMI DISPLAY 4 BUTTON HMI, WALL MOUNT, STANDARD ENCLOSURE 100 to 230 VAC, SINGLE POINT VERSION, 6 RELAYS, 0-20 mA or 4-20 mA OUTPUT
3366495			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	5/1/23 12:00 AM	8/3/23 03:13 PM	8/3/23 03:13 PM	
3366502			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	5/1/23 12:00 AM	8/3/23 03:13 PM	8/3/23 03:13 PM	
3366513	0000328912	TANK PROCESS WET WELL 300 MATTAWAN ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Wet well 300 Mattawan St. Insp/Service (1y) - 1541	COMP	5/1/23 12:00 AM	8/3/23 03:15 PM	8/3/23 03:15 PM	Tank Wet well 300 Mattawan St. Insp/Service (1y) - 1541 - Station checked weekly, no physical issues found, a cleaning of soap/grease may be needed soon
3366522	0000328922	TANK PROCESS WET WELL 101 BISSETT ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Wet well 101 Bissett St. Insp/ Service (1y) - 1541	COMP	5/1/23 12:00 AM	8/3/23 03:15 PM	8/3/23 03:15 PM	Tank Wet well 101 Bissett St. Insp/ Service (1y) - 1541 - Station checked weekly, no physical issues found, a cleaning of soap/grease may be needed soon
3366531	0000328919	TANK PROCESS WET WELL 200 BROOK ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Wet well 200 Brook St. Insp/ Service (1y) - 1541	COMP	5/1/23 12:00 AM	8/3/23 03:15 PM	8/3/23 03:15 PM	Tank Wet well 200 Brook St. Insp/ Service (1y) - 1541 - Station checked weekly, no physical issues found, a cleaning of soap/grease may be needed soon
3366543	0000328916	TANK PROCESS WET WELL 300 LOUIS ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Wet well 300 Louis St. Insp/ Service (1y) - 1541	COMP	5/1/23 12:00 AM	8/3/23 03:16 PM	8/3/23 03:16 PM	Tank Wet well 300 Louis St. Insp/ Service (1y) - 1541 - Station checked weekly, no physical issues found, a cleaning of soap/grease may be needed soon

Workorder Summary Report

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

Report End Date: Jun 30, 2023 11:59 PM

Location: 1541*

Work Order Type: CAP,CORR,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3366552	0000328832	TANK PROCESS WET WELL 451 BISSETT ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Wet well 451 Bissett St. Insp/ Service (1y) - 1541	COMP	5/1/23 12:00 AM	8/3/23 03:16 PM	8/3/23 03:16 PM	Tank Wet well 451 Bissett St. Insp/ Service (1y) - 1541 - Station checked weekly, no physical issues found, a cleaning of soap/grease may be needed soon
3366569	0000328850	TANK PROCESS WET WELL 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Wet well 601 Mckenzie St. Insp/Service (1y) - 1541	COMP	5/1/23 12:00 AM	8/3/23 03:17 PM	8/3/23 03:17 PM	Tank Wet well 601 Mckenzie St. Insp/Service (1y) - 1541 - Station checked weekly, no physical issues found, a cleaning of soap/grease may be needed soon
3366578	0000328897	TANK PROCESS WET WELL 1101 BISSETT ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Wet well 1101 Bissett St. Insp/ Service (1y) - 1541	COMP	5/1/23 12:00 AM	8/3/23 03:17 PM	8/3/23 03:17 PM	Tank Wet well 1101 Bissett St. Insp/ Service (1y) - 1541 - Station checked weekly, no physical issues found, a cleaning of soap/grease may be needed soon
3370019			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	5/1/23 12:00 AM	8/3/23 03:26 PM	8/3/23 03:26 PM	Pump Submersible Group Inspection (1m) 1541 - Check pumps weekly, no issues found at this time
3383717			1541, Mattawa Wastewater System	CAP	Refurbish/ Replace/Repair	0		Mattawa 2023 Flooding prevention/ measures	COMP		6/14/23 01:21 PM	6/14/23 01:21 PM	Mattawa flooding -Work order made for supplies and time reporting for flooding prevention/remediation measures.
3385441	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	5/16/23 12:00 AM	8/3/23 03:27 PM	8/3/23 03:27 PM	Tank Alum Inspection (1m) - 1541 - Checked alum tank for leaks or deficiencies, none found at this time
3413794	0000328859	ANALYZER GAS BUMP TEST	1541, Mattawa Wastewater System	PM	Calibration	6	MONTHS	Analyzer Gas C02 (6m) 1541	COMP	6/1/23 12:00 AM	8/3/23 03:33 PM	8/3/23 03:33 PM	
3413805			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	6/1/23 12:00 AM	8/3/23 03:27 PM	8/3/23 03:27 PM	
3413812			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	6/1/23 12:00 AM	8/3/23 03:27 PM	8/3/23 03:27 PM	
3413823			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Lagoon Cells Insp/ Service (1y) - 1541	COMP	6/1/23 12:00 AM	8/3/23 03:28 PM	8/3/23 03:28 PM	Tank Process Lagoon Cells Insp/ Service (1y) - 1541 - Lagoon lining is all ok, air leak in header line top cell far corner. scheduling underway to drain an fix the leak

Workorder Summary Report

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

Report End Date: Jun 30, 2023 11:59 PM

Location: 1541*

Work Order Type: CAP,CORR,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3413837	0000328858	TANK STORAGE HOT WATER	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Hot Water Insp. (1y) - 1541	COMP	6/1/23 12:00 AM	8/3/23 03:28 PM	8/3/23 03:28 PM	
3417644			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	6/1/23 12:00 AM	8/3/23 03:29 PM	8/3/23 03:29 PM	Pump Submersible Group Inspection (1m) 1541 - Pumps checked weekly, no issues found at this time
3433755	0000328874	GENERATOR ELECTRIC DIESEL BACKUP POWER	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	6/15/23 12:00 AM	8/3/23 03:29 PM	8/3/23 03:29 PM	Generator Monthly Test (1m) 1541 - Monthly generator test completed, all ok
3433758	0000328842	GENERATOR ELECTRIC DIESEL 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	6/15/23 12:00 AM	8/3/23 03:30 PM	8/3/23 03:30 PM	Generator Monthly Test (1m) 1541 - Monthly generator test completed, no issues found
3433761	0000328901	GENERATOR ELECTRIC DIESEL	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	6/15/23 12:00 AM	8/3/23 03:30 PM	8/3/23 03:30 PM	Generator Monthly Test (1m) 1541 - Monthly generator test completed, no issues found

Workorder Summary Report

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

Report End Date: Jun 30, 2023 11:59 PM

Location: 1541*

Work Order Type: CAP,CORR,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3433889			1541, Mattawa Wastewater System	CAP	Refurbish/ Replace/Repair	0		601 McKenzie SPS Pump Repair	COMP		6/15/23 11:05 AM	6/28/23 03:55 PM	Pump Repair - Pump at 601 McKenzie tripping main breaker. Pump pulled for inspection and has wobble. Pump to be taken out of service for repair. Repair Details - Submersible Pump: Flygt 3.9HP, 1745RPM, 230 Volts, 17A, 60HZ, 1PH, Imp 433, Model 3102.181-1081, Serial# 3102.181-0820243. Labour to dismantle, clean, check all bearing fits, test stator windings, inspect all parts, access damage and prepare estimate of repair. Assemble unit with new parts listed & perform no load full voltage test run. Dynamic Balance Rotor & Impeller 82 50 60 Sealing Washer 601 89 06 Basic Repair Kit 841794 Seal Sleeve (18)-20mm
3433940	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	6/16/23 12:00 AM	8/3/23 03:33 PM	8/3/23 03:33 PM	Tank Alum Inspection (1m) - 1541 - Checked alum tank for any leaks or issues, none found



Ontario Clean Water Agency
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Northeastern Ontario Region

MATTAWA WATER & WASTEWATER SYSTEMS

QUARTERLY OPERATIONS REPORT

Appendix C - Call-out Report for WTP

Workorder Summary Report

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

Report End Date: Jun 30, 2023 11:59 PM

Location: 1517*

Work Order Type: CALL,EMER

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3338616	0000349410	PANEL CONTROL UV #1	1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV 1 Fail - 1517	COMP		4/1/23 10:30 PM	6/28/23 01:10 PM	UV 1 Fail - 1517 - Called for uv 1 fail. Remotely reviewed trending and plant. Uv 1 failed on startup. Switched auto to uv 2 and started ok. Will address the issue when on-site tomorrow.
3338617	0000349412	PANEL CONTROL UV #2	1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Major Alarm, UV 1 & 2 Fail	CLOSE		4/2/23 12:00 AM	4/2/23 02:00 AM	
3340390			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		WTP Communication Loss	COMP		4/14/23 09:45 PM	4/15/23 12:15 AM	WTP Communication Loss - Received message at 2112 from Josh D regarding a communication loss at the WTP. Arrived on site, turned off pumps. Unplugged routers for 30 seconds. Couple minutes after powered restored to routers communication came back.
3386602			1517, Mattawa DWS	CALL	Compliance	0		Emergency Water Service off/on at 471 Mattawan Street	COMP		5/21/23 09:25 PM	5/21/23 10:45 PM	Emergency Water Service off/on at 471 Mattawan Street - 21:25--Received a call from Monique Mallete requesting assistance for an emergency water off/on at 471 Mattawan Street 21:35--Met with homeowner: water pouring into his crawl space. 21:50--unable to retrieve metal detector to find buried standpipe. Contacted Jim Aucoin to log onto CGIS to locate standpipe and bring the metal detector to find the standpipe. 22:15--Shut off water to 471 Mattawan Street. Supplied 1/2 inch shut off valve to homeowner 22:30--Turned water back on at standpipe

Workorder Summary Report

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

Report End Date: Jun 30, 2023 11:59 PM

Location: 1517*

Work Order Type: CALL,EMER

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3386975			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Mattawa DWS communication loss	COMP		5/21/23 07:15 PM	5/26/23 02:59 PM	Mattawa DWS communication loss -Received an alarm loss of communication, reset power to modem. Communication returned, all ok
3387415			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV2 failure	COMP		5/27/23 08:15 AM	5/27/23 09:30 AM	UV2 failure - Received alarm for UV2 fail. Logged in, reset fault. Monitored until plant started with UV1 as duty. All OK
3434620			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		WTP Communication Loss	COMP		6/16/23 03:15 AM	6/16/23 04:00 AM	WTP Communication Loss - Received alarm for comm loss. Remotely checked in. Found that communication has came back since first logging in. Cycle had just stopped, reservoir full at 3.15 m.
3435831			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Mattawa Low Chlorine alarm	COMP		6/27/23 06:15 PM	6/28/23 10:52 AM	Low chlorine Mattawa DWS -Received alarm at 1815, tried resetting remotely- not successful. Arrived on site at 1955, tried manually priming pump. Cleaned foot valve, 1 was full of plastic shavings. Turned on plant and pump 1 faulted again. Duty switched to pump 2, pumped with no issues. Cleaned out the check valves on pump 1 and reset fault. Left pump 2 in duty for overnight.



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Northeastern Ontario Region

MATTAWA WATER & WASTEWATER SYSTEMS

QUARTERLY OPERATIONS REPORT

Appendix D - Call-out Report for WWTL

Workorder Summary Report

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

Report End Date: Jun 30, 2023 11:59 PM

Location: 1541*

Work Order Type: CALL,EMER

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3340389			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		451 Bissette PS Thermal Fault	COMP		4/16/23 06:00 AM	4/16/23 08:30 AM	451 Bissette PS Thermal Fault - Received call from Telus at 0555, alarm at 451 Bissette PS. Headed to site, pump #2 in thermal fault. Reset breaker, cleared fault and monitored cycle. Performed well
3383525			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		Mattawa 1101 bissette street high level	COMP		5/1/23 02:10 AM	5/3/23 05:53 PM	Mattawa 1101 Bissette street high level -Received call at 0210, and arrived on site 03:55. Noticed high level alarm still activated and pumps faulted. Tried resetting pumps, needed to turn off main disconnect. Was able to reset one pump, the other pump had high amperage due to being clogged. Levels in wet well went below high level set point. Pump was still pumping and locked up gate.
3384197			1541, Mattawa Wastewater System	EMER	Predictive Maintenance	0		Mattawa Flood Risk Emergency Response After Hours	COMP		6/14/23 01:08 PM	6/14/23 01:08 PM	May2/23 - set up aqua dams around lift stations. TF may 3/23 - fill and monitor aqua dams. tf may4/23 - reaarange plugs to overflows to minimize infiltration. TF Mattawa Flood Risk Emergency Response After Hours - On May 2, 2023 18:00 to 23:00 helped Tim and Josh with Isolation bags install around lift stations.

Workorder Summary Report

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

Report End Date: Jun 30, 2023 11:59 PM

Location: 1541*

Work Order Type: CALL,EMER

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3384200			1541, Mattawa Wastewater System	EMER	Predictive Maintenance	0		Mattawa Flood Risk Emergency Response	COMP		6/14/23 01:08 PM	6/14/23 01:08 PM	may 3/23 - finish setting up and filling aqua dams around pump stations. TF may 4/23 - purchase additional hoses. top up aqua dams. camera suspected infiltrating manholes. TF may 5/23 - pick up camera trailer. TF may 8/23 - attend meeting at town hall for update. check pump stations. TF

Workorder Summary Report

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

Report End Date: Jun 30, 2023 11:59 PM

Location: 1541*

Work Order Type: CALL,EMER

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3384711			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		Power Outage 1517/1541	COMP		4/23/23 01:45 PM	4/23/23 10:00 PM	Power Outage 1517/1541 - Called by Telus alarms for multiple power failures, Arrived in Mattawa to find a mainline pole broke off. Monitored all stations, Power on Water plant side restored around 1430. Remainder of power back on around 2000. 1350 called by telus, for various alarms at all ststions in regards to power outage. 1440 onsite at 451 bissett. Power has restored. Reset p1 that was in failure. All else ok. 1500 checked 1101 bissett, 601 mckenzie, 101 bossett and 130 moosehead, power all on, all ok. 1615 checked 200 brook st, level is above grating. Woll monitor. 1625 check mattawan, generator running all ok. Check 200 louis st- level is above grating woll continue to montor. 1900 - check loous st- level is 3' below overflow. 1915 - check brook st- level is approx 1' below overflow.

Workorder Summary Report

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

Report End Date: Jun 30, 2023 11:59 PM

Location: 1541*

Work Order Type: CALL,EMER

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
													2000 power restored- checked all stations, no overflow occured at loius or brook. Mattawan switched back to shore power- all ok. 2100 onsite at brook st for general alarm, all ok, no issues found, level is normal , possible dirty eye from hogh level.



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Northeastern Ontario Region

MATTAWA WATER & WASTEWATER SYSTEMS

QUARTERLY OPERATIONS REPORT

Appendix E - Performance Assessment Report Water

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

Report extracted 07/13/2023 13:54

From: 01/04/2023 to 30/06/2023

Facility: [1517] MATTAWA DRINKING WATER SYSTEM

Works: [210001905]

	04/2023	05/2023	06/2023	<--Total-->	<--Avg.-->	<--Max.-->	<--Min.-->
Flows:							
Raw Flow: Monthly Total - Well #1 (m³)	29798.45	31537.06	41063.66	102399.17			
Raw Flow: Monthly Total - Well #2 (m³)	3109.05	3640.42	2728.94	9478.4			
Raw Flow: Monthly Avg - Well #1 (m³/d)	993.28	1017.32	1368.79		1126.46		
Raw Flow: Monthly Avg - Well #2 (m³/d)	103.63	117.43	90.96		104.01		
Raw Flow: Monthly Max - Well #1 (m³/d)	1305.07	1528.73	1666.54			1666.54	
Raw Flow: Monthly Max - Well #2 (m³/d)	422.39	423.29	411.84			423.29	
Raw Flow: Monthly Total - Raw Water - Total (m³)	32907.5	35177.48	43792.6	111877.57			
Raw Flow: Monthly Avg - Raw Water - Total (m³/d)	1096.92	1134.76	1459.75		1230.48		
Raw Flow: Monthly Max - Raw Water - Total (m³/d)	1471.18	1570.29	1786.02			1786.02	
Turbidity:							
Raw: Max Turbidity - Well #1 (NTU)	0.25	0.28	0.27			0.28	
Raw: Max Turbidity - Well #2 (NTU)	0.37	0.29	0.36			0.37	
Chemical Parameters:							
Treated: Max Nitrite - TW (mg/L)	< 0.1					< 0.1	
Treated: Max Nitrate - TW (mg/L)	1.59					1.59	
Distribution: Max THM - DW (µg/l)	< 6					< 6	
Chlorine Residuals:							
Treated: Min Free Cl2 Resid - TW (mg/L)	0.447	0.311	0.194				0.194
Treated: Max Free Cl2 Resid - TW (mg/L)	3.864	2.115	3.982			3.982	
Dist: Min Free Cl2 Resid - DW (mg/L)	0.483	0.414	0.362				0.362
Dist: Max Free Cl2 Resid - DW (mg/L)	1.44	1.539	1.584			1.584	
Bacti Samples Collected:							
Raw Bacti: # of samples - Well #1	4	5	4	13			
Raw Bacti: # of samples - Well #2	4	5	4	13			
Treated Bacti: # of samples - TW	4	5	4	13			
Dist Bacti: # of samples - DW	12	15	12	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			

Appendix F - Performance Assessment Report Wastewater

1541 MATTAWA WASTEWATER TREATMENT FACILITY 110000436

	4 / 2023	5/ 2023	6/ 2023	<--Total-->	<--Avg-->	<--Max-->
Flows						
Raw Flow: Total - Raw m³/d	41,017.16	45,752.81	23,614.10	110,384.06		
Raw Flow: Avg - Raw m³/d	1,367.24	1,475.90	787.14		1,213.01	
Raw Flow: Max - Raw m³/d	1,813.16	3,243.25	971.93			3,243.25
Raw Flow: Count - Raw m³/d	30.00	31.00	30.00	91.00		
Eff. Flow: Total - Eff m³/d	41,017.16	45,752.81	23,614.10	110,384.06		
Eff. Flow: Avg - Eff m³/d	1,367.24	1,475.90	787.14		1,213.01	
Eff. Flow: Max - Eff m³/d	1,813.16	3,243.25	971.93			3,243.25
Eff Flow: Count - Eff m³/d	30.00	31.00	30.00	91.00		
Carbonaceous Biochemical Oxygen Demand: CBOD						
Eff: Avg cBOD5 - Eff mg/L	8.20	5.30	12.80		8.77	12.80
Eff: # of samples of cBOD5 - Eff	1.00	1.00	1.00	3.00		
Loading: cBOD5 - Eff kg/d	0.245	0.403	0.375		10.63	0.40
Biochemical Oxygen Demand: BOD5						
Raw: Avg BOD5 - Raw mg/L	74.70	125.00	119.40		106.37	125.00
Raw: # of samples of BOD5 - Raw	1.00	1.00	1.00	3.00		
Eff: Avg BOD5 - Eff mg/L	11.70	6.50	11.50		9.90	11.70
Eff: # of samples of BOD5 - Eff	1.00	1.00	1.00	3.00		
Loading: BOD5 - Eff kg/d	0.349	0.494	0.337		12.01	0.49
Total Suspended Solids: TSS						
Raw: Avg TSS - Raw mg/L	73.00	147.00	87.00		102.33	147.00
Raw: # of samples of TSS - Raw	1.00	1.00	1.00	3.00		
Eff: Avg TSS - Eff mg/L	23.20	3.30	21.20		15.90	23.20
Eff: # of samples of TSS - Eff	1.00	1.00	1.00	3.00		
Loading: TSS - Eff kg/d	0.692	0.251	0.621		19.29	0.69
Total Phosphorus: TP						
Raw: Avg TP - Raw mg/L	1.41	2.42	1.84		1.89	2.42
Raw: # of samples of TP - Raw	1.00	1.00	1.00	3.00		
Eff: Avg TP - Eff mg/L	1.55	1.04	0.67		1.09	1.55

Performance Assessment Report
Wastewater Treatment Facility
From (01/04/2023 to 30/06/2023)

Eff: # of samples of TP - Eff

Loading: TP - Eff kg/d

	4.00		4.00		4.00		12.00				
	0.046		0.083		0.026				1.32		0.08

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

	14.95		9.78		13.30				12.68		14.95
<	1.00	<	1.00	<	1.00			<	1.00	<	
	1.00		1.00		1.00		3.00				
<	0.10	<	0.10	<	0.10			<	0.10	<	
	1.00		1.00		1.00		3.00				