

# TOWN OF MATTAWA

2021

## WASTEWATER TREATMENT & COLLECTION SYSTEM REPORT



Prepared on February 14, 2022.

## **Mattawa Class 1 Wastewater Lagoon System**

The Town of Mattawa owns the Mattawa Lagoon Sewage Treatment Plant and the Mattawa Wastewater Collection System. OCWA operates the Mattawa Lagoon Sewage Treatment Plant, while The Town of Mattawa maintains the Mattawa Wastewater Collection System. The Lagoon is a Class 1 Wastewater Treatment Plant, and sanitary system is a Class 1 Wastewater Collection System. The Lagoon operates under the Ministry of Environment, Conservation and Parks Certificate of Approval number 3-1115-91-926. The works number on file is 110000436.

The Lagoon accepts sanitary discharge from a network of sewer mains and pumping stations within the physical boundary of the Town of Mattawa only. All influent entering the lagoon passes through a magnetic flow meter, after which the flow can be diverted to either the spare maintenance / emergency cell (clay lined), or the primary or secondary lagoon cell depending on requirements.

Both the primary and secondary lagoon cells are plastic lined and aerated, with 80% of the supplied air being discharged into the primary cell. Alum is injected into the control box for phosphorous removal, where flow from cell #1 is sent over to cell #2. This location provides good mixing, and is ideally suited for the system.

Effluent is continually discharged from the final control box at the end of cell #2, where it passes through a chamber of Ultra-Violet lights before finally discharging into the Ottawa River.

Sludge levels in the Cell #1 lagoon checked regularly and there is beginning to be an accumulation of sludge around the intake, which tapers off throughout the lagoon cell. The last full cleaning was completed in 2007, which means that removal may be expected in the upcoming years. 5000 gallons of sludge removed from inlet in 2020, and in future years, by an approved sludge hauler, with a vacuum truck and disposed of at an approved waste management system. Cell #1 sludge levels checked in 2020 while repairing aeration lines. Current levels indicate an average of 3-6 inches throughout the entire cell; however, there is an accumulation of sludge around the intake, which tapers off throughout the cell. No sludge removal completed in 2021.

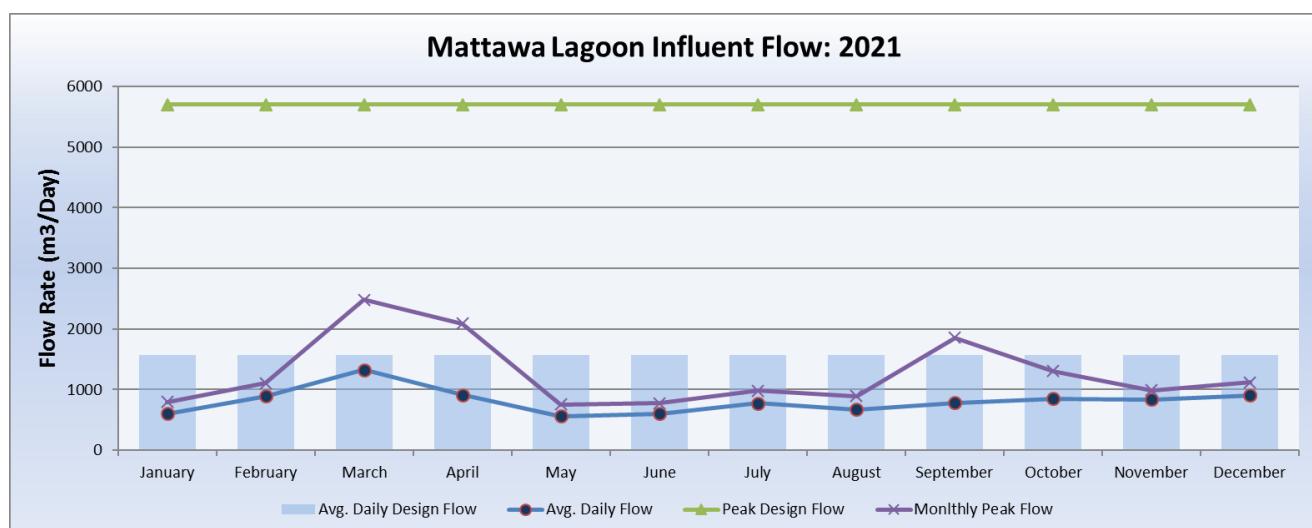
## **Mattawa Class 1 Wastewater Collection System (WWCS)**

The Mattawa WWCS is comprised of approximately 15 kilometers of sewer mains, 4.4 kilometers of forcemains, and a total of seven (7) sewage lift stations that receive gravity fed sewage and pump raw sewage through the forcemains to the Lagoon system for waste water treatment.

## Flow Assessment

Rated Capacity:	=	Avg. 1,564 m <sup>3</sup> / day with a peak flow of 5,702 m <sup>3</sup> / day
Connected Population	=	Approximately 2,150 people
2021 Avg. Daily Flow	=	808.4 m <sup>3</sup> / Day
Total Flow for 2021	=	295,056 m <sup>3</sup>

As the chart below indicates, peak flow single day limit has not been exceeded during 2021, and the average daily flow is well below the average daily design flow. The magnetic flow meter verified on April 30, 2021 by Marsh Instrumentation.



## Sampling & Testing Requirements

EFFLUENT PARAMETER	MEASUREMENT FREQUENCY	SAMPLE TYPE
5 day Biochemical Oxygen Demand	Monthly	Composite
Total Suspended Solids	Monthly	Composite
Total Phosphorus	Weekly	Composite
Ammonia (expressed as N)	Weekly	Composite
Total Residual Chlorine*	As Required*	Grab*
Total Kjeldahl Nitrogen	Monthly	Composite
Nitrite + Nitrate	Monthly	Composite
Fecal Coliforms	Monthly	Grab
Fecal Streptococcus	Monthly	Grab

\*Effluent is not chlorinated, so there is no requirement to collect Total Residual Chlorine samples.

## Annual Monitoring Data Summary & Effluent Quality Control

### a. Compliance and Objective Sampling Results:

EFFLUENT PARAMETER	Compliance Limit	Objective Limit	Yearly Average	Single Year Maximum
5 day Biochemical Oxygen Demand	30 mg / L (12-month avg.)	25 mg / L (12-month avg.)	11.7 mg / L	23.8 mg /L (April)
5 day Carbonaceous Biochemical Oxygen Demand	WSER 25 mg/L (12-month avg.)	N/A	8.68 mg/L	15.3 mg/L (April)
Total Suspended Solids	30 mg / L (12-month avg.) WSER 25 mg/L (12-month avg.)	25 mg / L (12-month avg.)	19.8 mg / L	46.2 mg /L (July)
Total Phosphorus	2.5 mg / L (monthly avg.)	2.5 mg / L (monthly avg.)	1.22 mg / L	1.79 mg / L (January) Monthly Average Maximum
Fecal Coliforms	N/A	100 / 100 mL (single sample)	Annual GEO MEAN = 152 cfu/100 mL	7200 cfu / 100 mL (January)

### b. Compliance and Objective Loading Calculations:

EFFLUENT PARAMETER	Compliance Limit and considerations	Objective Limit and considerations	Results
5 day Biochemical Oxygen Demand	46.92 Kg/day from 12 month average multiplied by 12 month	39.1 Kg/day from 12 month average multiplied by 12 month	9.48 Kg / day
Suspended Solids	46.92 Kg/day from 12 month average multiplied by 12 month	39.1 Kg/day from 12 month average multiplied by 12 month	16.02 Kg / day
Total Phosphorus	3.91 Kg/day from monthly average multiplied by avg. daily flow for month	3.91 Kg/day from monthly average multiplied by avg. daily flow for month	*0.97 Kg / day (yearly avg.)

\*No month in 2021 exceeded the Total Phosphorous loading limit. The average loading for 12 months was 0.97 Kg/day, well below the compliance limit. The maximum month was 1.86 Kg/day. (see Appendix A—2021 Parameter Average Calculations).

**c. Additional Sampling Results:**

EFFLUENT PARAMETER	Range	Units
pH	7.19 – 9.58	N/A
Fecal Strep	< 10 – 5200	cfu/100 mL
Total Kjeldahl Nitrogen	9.39 – 20.36	mg / L
Nitrite + Nitrate	< 1.0 — < 1.0	mg / L
Ammonia	3.04 – 27.90	mg / L

(See Appendix A and Appendix B for 2021 influent and effluent sample results.)

## By-passes and Spills

**a. Lagoon:** There were no lagoon by-passes/overflows in 2021.

**b. Collection System:** There were two sewage lift station spills in 2021, details below.

Location: 451 Bissett St. (Blake Station)

Type of Incident: Spill

SAC Ref No.: 1-C4KP8

Start Date & Time: April 7, 2021 at 1430 hours

Termination: April 7, 2021 at 2130 hours

Duration: 7 hours

Approximate volume: 370 m<sup>3</sup>

Details: Sewage spill caused by failure of equipment (pump panel damaged during new transfer switch install).

Receiver: Mattawa River

Actions: Temporary Panel installed April 7, repairs are ongoing for panel, will be completed upon receipt of parts.

Reporting: Verbal & written reports to MOE SAC and MOH, faxed to EC as required, also notification made to local MECP inspector Vesna Alimpic via email.

Location: 451 Bissett St. (Blake Station)

Type of Incident: Spill

SAC Ref No.: 1-EJ9RG

Start Date & Time: May 2, 2021 at 1630 hours

Termination: May 2, 2021 at 1730 hours

Duration: 1 hours

Approximate volume: 22 m<sup>3</sup>

Details: Sewage spill caused by failure of equipment, P1 pump failure.

Receiver: Mattawa River

Actions: Temporary Panel installed April 7, repairs are ongoing for panel, will be completed upon receipt of parts. Temporary panel wiring change from P1 to P2 occurred on May 2.

Reporting: Verbal & written reports to MOE SAC and MOH, faxed to EC as required, also notification made to local MECP inspector Vesna Alimpic via email.

Please note, that in the spring of 2019, the area received record rainfall and the dam upstream opened releasing heavy water flows causing the river to breach its banks. This is what led to a state of emergency for the Town of Mattawa. Both OCWA and the Town worked tirelessly during the time, installing berms to prevent the river from entering the sewage lift stations and working around the clock to minimize the bypasses as much as physically possible.

## **Contingency Manual & Procedures**

Operators follow the “Operations Brief for Sewage Works Upgrading Manual” that was produced following the sewage works upgrade in 1992. This manual was updated upon OCWA becoming ORO/Operating Authority of the Wastewater Lagoon and Collection System. A Facility Emergency Plan (FEP) binder was produced to provide additional direction; including, standard operating procedures (SOP) and contingencies.

## **Repairs and Maintenance**

### **a. Lagoon and Control Building**

Regular maintenance at the lagoon and control building included monthly generator testing, ensuring automatic power switch-over, blower motor maintenance (changing oils, belts, etc.) and cleaning of the UV lights and discharge chamber. The lights were cleaned quarterly during the spring, summer and fall months, and all bulbs and lamp sleeves were replaced in the fall of 2018. Normal practice is to clean the lamp sleeves monthly during the spring, summer and fall months and replace them every two years or as necessary. Bulbs replaced as they burn out.

The malfunction of the UV system control board that we experienced in August of 2016 continued to plague us well into 2018, despite several onsite visits from H2Flow technicians. After replacing every critical component in the UV system we finally achieved a proper communication between the UV lamps and the control board located in the Lagoon building. Throughout the problems, the UV lights continued to work as intended, giving us good disinfection of the effluent during the season when users downstream are active. Operators verified the UV lights were operational with visual confirmation while the communications link remained non-functional.

The main lagoon control box (where all sewage enters the primary lagoon cell) was isolated and cleaned with a vacuum truck, removing all rags and heavy grit. This is an annual practice.

Regular inspections of the berms around the lagoon were conducted, with the roadway around the cells maintained by cutting the grass, removing debris, etc.

Lagoon level control boxes were inspected, and levels were adjusted before winter to account for ice cover.

A new PLC/HMI was purchased and installed to trend flows and capture daily flows / totalizer readings on a midnight to midnight basis. Unfortunately, the flow meter outputs were not working properly to be able to connect to it. Council authorized the purchase of a new flow meter in December of 2017, and at the time of this report the new flow meter had already arrived and was installed in the spring of 2018. New flow meter installed and calibrated on April 27, 2018. Annual verification/calibration completed on April 26, 2019 and April 24, 2020. Lightning strike caused damage to the outputs of the flow meter in 2019. Flow meter is still working as it should, just no output signal from it, which doesn't allow for totalized readings on a midnight to

midnight basis. Readings being recorded onsite. The issue with the flow meter is being addressed as time permits. Raw sewage flow meter malfunctioned, ceased normal operations and discovered on July 9, 2020. Incident of non-compliance reported to MECP. While, flow meter out of service, alternate method of calculating daily raw flows was used. Daily pump hours and average pump rate were used to calculate approximate flows. A new raw sewage flow meter installed and functional on August 21, 2020, MECP updated. The new flow meter corrected issues with HMI. However, shortly after, lightning strike caused HMI failure again. There were also upgrades to Blake (451 Bissett) SLS pump panel, which allowed for calculated flows as backup flow recording. Temporary flow meter was installed at lagoon in mid-February 2021 (which was damaged and out of service in mid-March), and values were compared to Blake Station flows. They were constantly within 5 % of each other, showing that the Blake Station calculations are accurate. February 24, 2021 the damaged flow meter sent out for repair, while recording accurate flows from Blake Station. April 7, soft starts for pump panel damaged during new transfer switch install, which resulted in loss of flow recording from the Blake Station. Therefore, since April 7, 2021 @ 1430 there have been no flow recording devices functional. While, flow meter and backup device out of service, alternate method of calculating daily raw flows used. Daily pump hours and average pump rate used to calculate approximate flows. The original lagoon flow meter repaired by the manufacturer and shipped back. The pump panel at Blake Station repaired upon receipt of parts. Repaired lagoon flow meter arrived, installed and functional as of April 9, 2021 @ 1030. Incident of non-compliance reported to MECP.

Blower motor failed following power bump. Suspected rebuild to be required; however, further troubleshooting revealed a burnt and loose wire. Wire repaired and the blower brought back online.

Annual generator servicing completed.

Electrical Safety Authority inspection completed at lagoon building on October 1, 2021. One deficiency noted.

#### **b. Lift stations and Collection System**

The three year flushing and CCTV inspection program completed during the third year in 2018, providing GPS points of all the sanitary connections to the sewage mains. Last year's report incorrectly reported the cost to be \$60, 000 for the three year contract when in fact it is \$90,000. The entire sanitary system has now been flushed and CCTV'd. Manhole repair continued through 2018 with several problematic manhole structure repaired and/or refurbished. Almost all of the footage from the inspections showed the sanitary in good condition, with no major problems except for an old sanitary line than runs in an easement where the new Long Term Care Home (LTCH) is currently being built. This short but critical section of old eight inch asbestos cement sanitary pipe was replaced with the cooperation Hospital management team.

Approximately 160 meters of twelve-inch plastic sewer pipe installed at a cost of approximately \$210,000.

Typically, all seven lift stations are pumped down and all debris (grit/rags) are vacuumed out using a vacuum excavator annually. However, due to pandemic, not able to be completed for 2020. All completed in 2021. In 2019, Xylem inspected and serviced impellors/ wear rings on pumps at all seven sewage lift stations. In 2019, all seven lift stations were pumped down and all debris was vacuumed out using a vacuum excavator. Additionally, the lift stations are flushed, as necessary, by operators using high-pressure hoses, and then cleaned by manually removing rags and debris, also as necessary.

Purchase of a portable generator to help run the sewage lift stations that do not have standby generators. Currently, the electrical connections and panels are not installed. Plans are in place to complete panels and electrical connections upon receiving quotes from contractors. All electrical components required procured and installed where possible.

New pump panel installed at Blake Station, which has the ability to calculate flow based off pump run time and dimensions of wet well. Flows verified with the lagoon flow meter. This will act as redundancy in case of lagoon flow meter failure.

Soft start replacement installed and still blows breaker. Further troubleshooting required. Xylem set up Teckniseve to investigate the problem and discovered reversed phases.

Pump #1 at Blake Station sheered bolts from impellor, repaired.

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

Blake Station pump panel breaker replaced.

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

Annual generator servicing completed.

Refer to *Appendix C* for a 2021 summary of maintenance.

## **Record Keeping**

Operators attend the lagoon and control building typically three-five times per week from Monday to Friday, excluding holidays. Regular observations recorded in the facility Logbook. Xylem sewage lift station inspection findings are saved on OCWA's public drive. Results from these inspections are included in the annual Capital and Major Maintenance Recommendations Report that is provided to the Owner.

### **A summary of any effluent quality assurance or control measures undertaken during the reporting period;**

The effluent parameters specified in the above tables *a, b and c* on page 4: are analyzed by an accredited laboratory.

In-house tests are conducted by licensed Operators for monitoring purposes using Standard Methods and the data generated from these tests is used to determine the treatment efficiency while maintaining process control. All in-house monitoring equipment is calibrated based on the manufactures recommendations.

## **Conclusion**

All effluent sample results were well below compliance **requirements**. All effluent sample results were at, or below the effluent quality **objectives**, with the exception of Fecal Coliforms. Often during the winter months, the effluent quality **objective** for Fecal Coliforms was not always achieved in single sample analysis. The onset of winter and colder temperatures slows the natural biological processes that help the UV disinfection system to control this parameter. Good disinfection is achieved during the summer season when recreational activities are expected downstream of the discharge. See *Appendix B* for individual sample results.

Regular deliveries of Alum ensure dosage targets are met, and phosphorus levels in the effluent remain below the effluent objectives.

All indications are that the Mattawa Lagoons provide adequate treatment for the size of the municipality and the raw water parameters.

## **Certification**

I certify that the information in this document and all attachments are correct, accurate and complete to the best of my knowledge.

Joshua Gravelle  
Process & Compliance Technician  
Ontario Clean Water Agency  
705-568-7000

## APPENDIX A--2021 Parameter Average Calculations

January-09-21

Days	<u>January</u> 31	<u>February</u> 28	<u>March</u> 31	<u>April</u> 30	<u>May</u> 31	<u>June</u> 30	<u>July</u> 31	<u>August</u> 31	<u>September</u> 30	<u>October</u> 31	<u>November</u> 30	<u>December</u> 31
Reading #1	861080	879695	904588	945658	972929	990413	1008543	1032443	1053328	1076725	1103133	1128149
Reading #2	879695	904588	945658	972929	990413	1008543	1032443	1053328	1076725	1103133	1128149	1156136
Total Flow *	18615	24893	41070	27271	17484	18130	23900	20885	23397	26408	25016	27987
Peak Flow	793.0	1105.0	2479.0	2092.0	754.0	774.0	983.0	890.0	1853.0	1304.0	987.0	1118.0
M <sup>3</sup> / Day	600.5	889.0	1324.8	909.0	564.0	604.3	771.0	673.7	779.9	851.9	833.9	902.8

\* = measured at Sewage Treatment Plant Meter

\*high TSS in June, July and August due to daphnia in samples.

<u>BOD<sub>5</sub> Treated</u>	5.8	15.7	7.1	23.8	7.1	8.8	15.3	11.8	8.3	6.3	17.0	13.8										
<u>BOD<sub>5</sub> Raw</u>	144.2	237.0	137.5	176.8	169.2	209.4	75.7	92.2	138	131.8	130.7	62.0										
<u>CBOD<sub>5 WSFR</sub> Treated</u>	2.7	10.0	4.3	15.3	5.2	9.2	13.8	8.8	5.8	3.3	15.2	10.6										
<u>TSS Treated</u>	17.5	17.5	14.5	17.7	13.7	42.0	46.2	45.3	8.7	3.0	2.3	9.5										
<u>TSS Raw</u>	133.0	157.0	155.0	194.0	102.0	210.0	117.0	183.0	150.0	218.0	158.00	130.0										
<u>TP Raw</u>	3.86	2.99	3.19	3.16	2.59	3.25	2.68	4.15	2.31	1.82	3.41	3.64										
<u>TKN</u>	15.20	20.36	19.9	15.7	12.8	10.2	17.7	10.4	9.39	13.6	20.0	18.3										
<u>Nitrate</u>	<0.1	<RDL	<RDL	<RDL	<RDL	<RDL	<RDL	0.5	<RDL	<RDL	<RDL	<RDL										
<u>Nitrate &amp; Nitrite</u>	<RDL	<RDL	<RDL	<RDL	<RDL	<RDL	<RDL	<RDL	<RDL	<RDL	<RDL	<RDL										
<u>Ammonia</u>	15.20	19.30	13.40	15.30	13.10	14.10	16.80	9.89	3.14	13.00	15.70	15.70										
	13.70	17.00	16.30	14.80	12.80	10.80	12.40	8.97	3.04	8.49	16.10	16.70										
	16.60	17.90	19.20	16.60	11.80	9.22	11.70	7.08	5.53	14.50	15.70	16.30										
	16.90	19.60	16.30	27.90	16.10	11.30	11.30	4.76	8.29	27.70	16.00	16.20										
						14.50			10.40			19.10										
<u>Avg Ammonia</u>	<b>15.60</b>	<b>18.45</b>	<b>15.78</b>	<b>18.65</b>	<b>13.45</b>	<b>11.98</b>	<b>13.05</b>	<b>7.68</b>	<b>6.08</b>	<b>15.92</b>	<b>15.88</b>	<b>16.80</b>										
<u>Phosp</u>	1.94	1.67	1.38	1.54	1.12	1.32	1.38	1.02	1.09	0.87	0.45	0.91										
Weekly Test Results	2.00	1.77	1.90	1.51	1.24	1.88	1.22	1.04	0.83	1.06	0.43	0.92										
	1.60	1.93	1.52	1.10	1.85	1.43	0.82	1.01	0.63	0.90	0.50	0.98										
	1.62	1.27	1.14	0.94	1.87	1.24	0.77	1.07	1.47	0.51	0.83	1.24										
				1.07		1.66			0.77			1.03										
<u>Avg Phosp.:</u>	1.79	1.66	1.40	1.27	1.52	1.51	1.05	1.04	0.96	0.84	0.55	1.02										
<u>Monthly Phos Loading: Kg/d</u>	<b>1.07</b>	<b>1.48</b>	<b>1.86</b>	<b>1.16</b>	<b>0.86</b>	<b>0.91</b>	<b>0.81</b>	<b>0.70</b>	<b>0.75</b>	<b>0.71</b>	<b>0.46</b>	<b>0.92</b>										
<u>Annual BOD<sub>5</sub> Loading:</u>	<b>9.48 Kg/day</b>		Annual Loading Average = 46.92 Kg/d					Total Annual Flow: <b>295,056.0 M<sup>3</sup></b>														
<u>Annual TSS Loading:</u>	<b>16.02 Kg/day</b>		Annual Loading Average = 46.92 Kg/d					Annual Avg Daily flow (M <sup>3</sup> /Day): <b>808.4 M<sup>3</sup>/Day</b>														
	BOD <sub>5</sub> Annual Average: <b>11.7 mg/L</b>																					
	TSS Annual Average: <b>19.8 mg/L</b>																					
	Phosphorous Annual Average: <b>1.22 mg/L</b>																					
	CBOD <sub>5</sub> Annual Average: <b>8.68 mg/L</b>																					

NOTES:

## Appendix B - Effluent Weekly Samples

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>December</u>
<b>Fecal Coliform</b>	1750	4500	5400	50	10	< 10	80	30	20	10	170	1600
weekly	2150	5100	4600	50	< 10	4	10	110	40	80	250	800
cfu/100 ml	3500	3800	2800	30	< 10	20	40	50	10	170	580	2140
	7200	5400	400	150	20	40	40	30	< 10	210	> 2000	1175
			200		< 10			10				700
<b>Avg Fecal Coli</b>	<b>3120.5</b>	<b>4658.4</b>	<b>1409.5</b>	<b>57.9</b>	<b>11.9</b>	<b>12.6</b>	<b>33.6</b>	<b>47.2</b>	<b>15.2</b>	<b>73.1</b>	<b>471.2</b>	<b>1176.4</b>
<b>Fecal Strep</b>	1500	3500	4200	100	< 10	< 10	40	< 10	20	30	70	240
weekly	2000	2900	3700	25	< 10	8	20	40	30	40	50	150
cfu/100 ml	2700	3900	2600	20	< 10	10	< 10	80	20	60	100	920
	5200	3700	100	10	20	140	< 10	100	10	130	540	575
			100		10			< 10				150
<b>Avg Fecal Stre</b>	<b>2547.5</b>	<b>3478.8</b>	<b>834.2</b>	<b>26.6</b>	<b>11.9</b>	<b>16.2</b>	<b>16.8</b>	<b>42.3</b>	<b>16.4</b>	<b>55.3</b>	<b>117.3</b>	<b>309.9</b>
<b>pH</b>	7.35	7.19	7.31	7.71	8.18	8.64	7.97	7.77	7.31	7.52	7.46	7.72
weekly	7.34	7.20	7.22	7.98	8.32	9.58	8.03	7.29	7.42	7.45	7.52	7.57
	7.33	7.21	7.25	7.61	7.43	8.31	8.11	7.20	7.55	7.53	7.76	7.46
	7.27	7.23	7.42	7.95	7.49	7.70	8.07	7.32	7.43	7.48	7.80	7.40
			7.57		7.48			7.37				7.37
<b>Avg pH</b>	<b>7.32</b>	<b>7.21</b>	<b>7.35</b>	<b>7.81</b>	<b>7.86</b>	<b>8.34</b>	<b>8.05</b>	<b>7.40</b>	<b>7.42</b>	<b>7.50</b>	<b>7.64</b>	<b>7.50</b>

## Appendix C

### Maintenance Summary

## Workorder Summary Report

Report Start Date: Jan 1, 2021 12:00 AM  
 Report End Date: Dec 31, 2021 11:59 PM  
 Location: 1541\*  
 Work Order Type: CALL,CAP,CORR,EMER,OPER,PM  
 Work Order Class:

WO #	Asset ID	Asset Description	Location Description	WorkOrder		PM Schedule		Workorder Details					WorkLog Detail
				Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	
<a href="#">2074777</a>			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	CLOSE	1/1/21 12:00 AM	3/23/21 09:24 AM	3/23/21 09:24 AM	
<a href="#">2567315</a>			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	12/1/21 12:00 AM	1/13/22 10:18 AM	1/13/22 10:18 AM	
<a href="#">2527620</a>			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	11/1/21 12:00 AM	1/13/22 10:09 AM	1/13/22 10:09 AM	
<a href="#">2483441</a>			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	10/1/21 12:00 AM	1/13/22 10:30 AM	1/13/22 10:30 AM	
<a href="#">2435589</a>			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	9/1/21 12:00 AM	11/15/21 01:07 PM	11/15/21 01:07 PM	
<a href="#">2390064</a>			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	8/1/21 12:00 AM	11/15/21 01:03 PM	11/15/21 01:03 PM	
<a href="#">2345595</a>			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	7/1/21 12:00 AM	11/15/21 01:00 PM	11/15/21 01:00 PM	
<a href="#">2299195</a>			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	CLOSE	6/1/21 12:00 AM	7/29/21 06:58 PM	7/29/21 06:58 PM	
<a href="#">2252130</a>			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	CLOSE	5/1/21 12:00 AM	7/29/21 06:48 PM	7/29/21 06:48 PM	
<a href="#">2206879</a>			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	CLOSE	4/1/21 12:00 AM	7/29/21 06:41 PM	7/29/21 06:41 PM	
<a href="#">2160354</a>			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	CLOSE	3/1/21 12:00 AM	3/30/21 09:29 AM	3/30/21 09:29 AM	
<a href="#">2118266</a>			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	CLOSE	2/1/21 12:00 AM	3/2/21 12:23 PM	3/2/21 12:23 PM	
<a href="#">2080706</a>			1541, Mattawa Wastewater System	PM	Health and Safety	1	YEARS	WHMIS/MSDS/NSF Review and Update (1y) 1541	CLOSE	1/1/21 12:00 AM	1/27/21 02:49 PM	1/27/21 02:49 PM	
<a href="#">2361574</a>			1541, Mattawa Wastewater System	OPER	Compliance	0		Yearly alum order for stp	COMP		12/22/21 09:05 AM	12/22/21 09:05 AM	

## Workorder Summary Report

Report Start Date: Jan 1, 2021 12:00 AM  
Report End Date: Dec 31, 2021 11:59 PM  
Location: 1541\*  
Work Order Type: CALL,CAP,CORR,EMER,OPER,PM  
Work Order Class:

WO #	Asset ID	Asset Description	Location Description	WorkOrder		PM Schedule		Workorder Details					WorkLog Detail
				Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	
<a href="#">2581475</a>			1541, Mattawa Wastewater System	CALL	Inspection	0		300 Mattawan P#2 failure	COMP	12/1/21 09:00 AM	12/1/21 11:15 AM		300 Mattawan P#2 failure -Received call from True-Steel for alarm at 300 Mattawan. Arrived on site, level in wet well was fine. Pump #2 had tripped the breaker. I reset the breaker tested pump, which ran fine. Put both pumps back on auto and monitored a full cycle of which it performed without issues. Left site.
<a href="#">2527613</a>			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	11/1/21 12:00 AM	1/13/22 10:08 AM	1/13/22 10:08 AM	
<a href="#">2567335</a>	0000328828	UPS BATTERY BACKUP 451 BISSETT ST.	1541, Mattawa Wastewater System	PM	Inspection	1	YEARS	Ups Battery Bank Insp/Service (1y) 1541	COMP	12/1/21 12:00 AM	1/13/22 10:19 AM	1/13/22 10:19 AM	
<a href="#">2074047</a>			1541, Mattawa Wastewater System	PM	Inspection	1	YEARS	Daily O&M Activities Wastewater System (1y) 1541	COMP	1/1/21 12:00 AM	1/4/22 01:33 PM	1/4/22 01:33 PM	
<a href="#">2074729</a>	0000328860	ANALYZER SPECTROPHOTOMETI	1541, Mattawa Wastewater System	PM	Inspection	1	YEARS	Analyzer Spectrophotometer (1y) Inspection 1541	COMP	1/1/21 12:00 AM	1/12/22 09:41 AM	1/12/22 09:41 AM	
<a href="#">2074756</a>			1541, Mattawa Wastewater System	PM	Inspection	1	YEARS	Lifting Equipment Inspection Route (1y) 1541	CLOSE	1/1/21 12:00 AM	2/25/21 10:10 AM	2/25/21 10:10 AM	
<a href="#">2074763</a>			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	CLOSE	1/1/21 12:00 AM	1/27/21 03:31 PM	1/27/21 03:31 PM	
<a href="#">2449250</a>			1541, Mattawa Wastewater System	CALL	Inspection	0		Sewer blockage 120 Water St, 1541	CLOSE	8/14/21 08:30 AM	9/1/21 01:47 PM		Sewer blockage 120 Water St, 1541 -Called by town of Mattawa call center for blocked sewer backing up into house. Arrived found the homeowner cleaning up sewer backup. advised the home owner needs to contact a plumber with a auger and camera to determine the type of blockage and where it was located. JD
<a href="#">2407775</a>			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 1541	COMP	8/29/21 12:00 AM	1/20/22 10:21 AM	1/20/22 10:21 AM	
<a href="#">2483201</a>	0000328854	UV LIGHT REACTOR SYSTEM	1541, Mattawa Wastewater System	PM	Inspection	6	MONTHS	UV Reactor service Fall (6m) 1541	COMP	10/1/21 12:00 AM	1/13/22 10:26 AM	1/13/22 10:26 AM	
<a href="#">2435582</a>			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	9/1/21 12:00 AM	11/15/21 01:07 PM	11/15/21 01:07 PM	

## Workorder Summary Report

Report Start Date: Jan 1, 2021 12:00 AM  
 Report End Date: Dec 31, 2021 11:59 PM  
 Location: 1541\*  
 Work Order Type: CALL,CAP,CORR,EMER,OPER,PM  
 Work Order Class:

WO #	Asset ID	Asset Description	Location Description	WorkOrder		PM Schedule		Workorder Details					WorkLog Detail
				Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	
<a href="#">2567308</a>			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	12/1/21 12:00 AM	1/13/22 10:18 AM	1/13/22 10:18 AM	
<a href="#">2483434</a>			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	10/1/21 12:00 AM	1/13/22 10:30 AM	1/13/22 10:30 AM	
<a href="#">2483208</a>	0000328854	UV LIGHT REACTOR SYSTEM	1541, Mattawa Wastewater System	PM	Inspection	6	MONTHS	UV Reactor service Spring (6m) 1541	COMP	10/1/21 12:00 AM	1/20/22 10:21 AM	1/20/22 10:21 AM	
<a href="#">2543315</a>			1541, Mattawa Wastewater System	CALL	Inspection	0		Loss of power to Brooke St LS	COMP		11/17/21 07:45 PM	11/17/21 10:00 PM	Loss of power to Brooke St LS -Received call from True Steel for general alarm at Brooke St LS on November 17, 2021. Arrived on site, confirmed that system working fine and it was a power blip. All three phases fine
<a href="#">2118225</a>			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	CLOSE	2/1/21 12:00 AM	3/23/21 09:25 AM	3/23/21 09:25 AM	
<a href="#">2252123</a>			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	CLOSE	5/1/21 12:00 AM	7/29/21 06:47 PM	7/29/21 06:47 PM	
<a href="#">2134318</a>			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 1541	CLOSE	2/27/21 12:00 AM	3/23/21 09:26 AM	3/23/21 09:26 AM	
<a href="#">2160347</a>			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	CLOSE	3/1/21 12:00 AM	3/30/21 09:28 AM	3/30/21 09:28 AM	
<a href="#">2225220</a>			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 1541	CLOSE	4/23/21 12:00 AM	7/29/21 06:49 PM	7/29/21 06:49 PM	
<a href="#">2206716</a>	0000328854	UV LIGHT REACTOR SYSTEM	1541, Mattawa Wastewater System	PM	Inspection	6	MONTHS	UV Reactor service Spring (6m) 1541	COMP	4/1/21 12:00 AM	1/20/22 10:18 AM	1/20/22 10:18 AM	
<a href="#">2206872</a>			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	CLOSE	4/1/21 12:00 AM	7/29/21 06:40 PM	7/29/21 06:40 PM	
<a href="#">2206709</a>	0000328854	UV LIGHT REACTOR SYSTEM	1541, Mattawa Wastewater System	PM	Inspection	6	MONTHS	UV Reactor service Fall (6m) 1541	COMP	4/1/21 12:00 AM	1/20/22 10:17 AM	1/20/22 10:17 AM	
<a href="#">2345588</a>			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	7/1/21 12:00 AM	11/15/21 01:00 PM	11/15/21 01:00 PM	
<a href="#">2390057</a>			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	8/1/21 12:00 AM	11/15/21 01:03 PM	11/15/21 01:03 PM	
<a href="#">2299188</a>			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	CLOSE	6/1/21 12:00 AM	7/29/21 06:57 PM	7/29/21 06:57 PM	

## Workorder Summary Report

Report Start Date: Jan 1, 2021 12:00 AM  
Report End Date: Dec 31, 2021 11:59 PM  
Location: 1541\*  
Work Order Type: CALL,CAP,CORR,EMER,OPER,PM  
Work Order Class:

WO #	Asset ID	Asset Description	Location Description	WorkOrder		PM Schedule		Workorder Details					WorkLog Detail
				Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	
<a href="#">2454002</a>			1541, Mattawa Wastewater System	CAP	Predictive Maintenance	0		Sewage Pump Stations and Lagoon Discharge Box Cleaning	COMP	12/22/21 09:30 AM	12/22/21 09:30 AM		Wet well cleaning -Purchase order for the following: clean seven (7) sewage lift stations, and one (1) lagoon discharge box
<a href="#">2268165</a>	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	CLOSE	5/16/21 12:00 AM	7/29/21 06:52 PM	7/29/21 06:52 PM	
<a href="#">2252159</a>	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	5/1/21 12:00 AM	1/13/22 10:23 AM	1/13/22 10:23 AM	
<a href="#">2252169</a>	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	5/1/21 12:00 AM	1/13/22 10:24 AM	1/13/22 10:24 AM	
<a href="#">2252178</a>	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	5/1/21 12:00 AM	1/13/22 10:24 AM	1/13/22 10:24 AM	
<a href="#">2252195</a>	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	5/1/21 12:00 AM	1/13/22 10:24 AM	1/13/22 10:24 AM	
<a href="#">2252204</a>	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	5/1/21 12:00 AM	1/13/22 10:22 AM	1/13/22 10:22 AM	
<a href="#">2255859</a>			1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	CLOSE	5/1/21 12:00 AM	7/29/21 06:50 PM	7/29/21 06:50 PM	
<a href="#">2267088</a>			1541, Mattawa Wastewater System	EMER	Refurbish/Replace/Repair	0		Blake Street Station spare 400 amp fuse for main disconnect	CLOSE		9/1/21 09:24 AM	9/1/21 09:24 AM	
<a href="#">2267154</a>			1541, Mattawa Wastewater System	CAP	Refurbish/Replace/Repair	0		451 Bissett Sewage Pump Station: Temporary pump panel rental	CLOSE		9/1/21 09:30 AM	9/1/21 09:30 AM	Temporary pump panel rental -PO for renting temporary pump panel required for operating the sewage pump station while waiting for replacement soft starts.
<a href="#">2299206</a>			1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	YEARS	Tank Process Lagoon Cells Insp/Service (1y) - 1541	COMP	6/1/21 12:00 AM	11/15/21 12:56 PM	11/15/21 12:56 PM	
<a href="#">2299218</a>	0000328858	TANK STORAGE HOT WATER	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	YEARS	Tank Hot Water Insp. (1y) - 1541	COMP	6/1/21 12:00 AM	11/15/21 12:55 PM	11/15/21 12:55 PM	
<a href="#">2303327</a>			1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	CLOSE	6/1/21 12:00 AM	7/29/21 06:58 PM	7/29/21 06:58 PM	

## Workorder Summary Report

Report Start Date: Jan 1, 2021 12:00 AM  
 Report End Date: Dec 31, 2021 11:59 PM  
 Location: 1541\*  
 Work Order Type: CALL,CAP,CORR,EMER,OPER,PM  
 Work Order Class:

WO #	Asset ID	Asset Description	Location Description	WorkOrder		PM Schedule		Workorder Details					WorkLog Detail
				Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	
<a href="#">2315562</a>	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	CLOSE	6/16/21 12:00 AM	7/29/21 06:59 PM	7/29/21 06:59 PM	
<a href="#">2206891</a>	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	4/1/21 12:00 AM	1/20/22 10:19 AM	1/20/22 10:19 AM	
<a href="#">2206899</a>	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	4/1/21 12:00 AM	1/20/22 10:19 AM	1/20/22 10:19 AM	
<a href="#">2206907</a>	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	4/1/21 12:00 AM	1/20/22 10:20 AM	1/20/22 10:20 AM	
<a href="#">2164153</a>			1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	CLOSE	3/1/21 12:00 AM	3/30/21 09:59 AM	3/30/21 09:59 AM	
<a href="#">2172693</a>	0000328887	VALVE SLUICE GATE DIVERSION CHAMBER	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	YEARS	Sluice Gate Inspection (1y) 1541	CLOSE	4/1/21 12:00 AM	3/30/21 09:31 AM	3/30/21 09:31 AM	
<a href="#">2173216</a>	0000328901	GENERATOR ELECTRIC DIESEL	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	CLOSE	3/3/21 12:00 AM	3/30/21 09:24 AM	3/30/21 09:24 AM	
<a href="#">2175412</a>	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	CLOSE	3/16/21 12:00 AM	3/30/21 09:29 AM	3/30/21 09:29 AM	
<a href="#">2176067</a>			1541, Mattawa Wastewater System	CAP	Refurbish/Replace/Repair	0		1541 configure new soft starts	CLOSE		3/19/21 12:35 PM	3/19/21 12:35 PM	1541 configure new soft starts -operator reported new pump soft starts needed reset's after brown out conditions , found restart after fault parameter set to off (factory default setting)) turn parameter on to allow 6 restart attempts at 60 sec intervals
<a href="#">2252141</a>	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	5/1/21 12:00 AM	1/13/22 10:23 AM	1/13/22 10:23 AM	
<a href="#">2252150</a>	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	5/1/21 12:00 AM	1/13/22 10:23 AM	1/13/22 10:23 AM	
<a href="#">2211805</a>			1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	CLOSE	4/1/21 12:00 AM	7/29/21 06:42 PM	7/29/21 06:42 PM	
<a href="#">2221449</a>	0000328874	GENERATOR ELECTRIC DIESEL BACKUP POWER	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	CLOSE	4/2/21 12:00 AM	7/29/21 06:42 PM	7/29/21 06:42 PM	

## Workorder Summary Report

Report Start Date: Jan 1, 2021 12:00 AM  
 Report End Date: Dec 31, 2021 11:59 PM  
 Location: 1541\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">2222837</a>			1541, Mattawa Wastewater System	CAP	Refurbish/Replace/Repair	0		451 Bissett Sewage Pump Station: soft start replacements	CLOSE		5/10/21 02:34 PM	5/10/21 02:34 PM	soft start replacements -Replace soft starts that were damaged during Wellhouse ATS installation. soft start details - Two SCHNEIDER ATS48C11Y (100HP/600V/3PH soft starter) Two SCHNEIDER VW3G48101 (remote display c/w cable)
<a href="#">2224112</a>	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	CLOSE	4/16/21 12:00 AM	7/29/21 06:43 PM	7/29/21 06:43 PM	
<a href="#">2225088</a>			1541, Mattawa Wastewater System	CAP	Refurbish/Replace/Repair	0		5141 install repaired lagoon flow meter	CLOSE		8/30/21 02:35 PM	8/30/21 02:35 PM	5141 install repaired lagoon flow meter -install repaired flow meter and test , we will have Marsh Instrumentation check calibration/ configuration when they are on site to do annual flow calibrations.
<a href="#">2225169</a>	0000328842	GENERATOR ELECTRIC DIESEL 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	CLOSE	4/23/21 12:00 AM	7/29/21 06:43 PM	7/29/21 06:43 PM	
<a href="#">2122132</a>			1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	CLOSE	2/1/21 12:00 AM	3/30/21 09:32 AM	3/30/21 09:32 AM	
<a href="#">2132456</a>	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	CLOSE	2/16/21 12:00 AM	3/23/21 09:26 AM	3/23/21 09:26 AM	
<a href="#">2134309</a>	0000328874	GENERATOR ELECTRIC DIESEL BACKUP POWER	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	CLOSE	2/27/21 12:00 AM	3/2/21 12:25 PM	3/2/21 12:25 PM	
<a href="#">2226274</a>	0000328901	GENERATOR ELECTRIC DIESEL	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	CLOSE	4/30/21 12:00 AM	7/29/21 06:44 PM	7/29/21 06:44 PM	
<a href="#">2093227</a>	0000328901	GENERATOR ELECTRIC DIESEL	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	CLOSE	1/21/21 12:00 AM	2/3/21 12:23 PM	2/3/21 12:23 PM	
<a href="#">2094117</a>	0000328842	GENERATOR ELECTRIC DIESEL 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	CLOSE	1/28/21 12:00 AM	3/23/21 09:24 AM	3/23/21 09:24 AM	
<a href="#">2074814</a>	0000328844	TRANSFORMER AIR 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	3	YEARS	Transformer Air Insp/Service (3y) 1541	CLOSE	1/1/21 12:00 AM	1/27/21 03:34 PM	1/27/21 03:34 PM	

## Workorder Summary Report

Report Start Date: Jan 1, 2021 12:00 AM  
 Report End Date: Dec 31, 2021 11:59 PM  
 Location: 1541\*  
 Work Order Type: CALL,CAP,CORR,EMER,OPER,PM  
 Work Order Class:

WO #	Asset ID	Asset Description	Location Description	WorkOrder		PM Schedule		Workorder Details					WorkLog Detail
				Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	
<a href="#">2074817</a>	0000328906	TRANSFORMER AIR LTG TRANSF	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	3	YEARS	Transformer Air Insp/Service (3y) 1541	CLOSE	1/1/21 12:00 AM	1/27/21 03:34 PM	1/27/21 03:34 PM	
<a href="#">2079761</a>			1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	CLOSE	1/1/21 12:00 AM	3/30/21 09:27 AM	3/30/21 09:27 AM	
<a href="#">2118232</a>	0000328891	PUMP PERISTALTIC 01	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	YEARS	Pump Peristaltic 01 Alum Insp/Service (1y) - 1541	CLOSE	2/1/21 12:00 AM	3/30/21 09:33 AM	3/30/21 09:33 AM	
<a href="#">2118249</a>	0000328892	PUMP PERISTALTIC 02	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	YEARS	Pump Peristaltic 01 Alum Insp/Service (1y) - 1541	CLOSE	2/1/21 12:00 AM	3/30/21 09:34 AM	3/30/21 09:34 AM	
<a href="#">2092603</a>	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	CLOSE	1/16/21 12:00 AM	1/27/21 03:36 PM	1/27/21 03:36 PM	
<a href="#">2093224</a>	0000328874	GENERATOR ELECTRIC DIESEL BACKUP POWER	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	CLOSE	1/21/21 12:00 AM	1/27/21 03:35 PM	1/27/21 03:35 PM	
<a href="#">2543324</a>			1541, Mattawa Wastewater System	CAP	Refurbish/Replace/Repair	0		1541 Lagoon UV wiring inspection	COMP		12/13/21 12:03 PM	12/13/21 12:03 PM	1541 Lagoon UV wiring inspection -inspect power wiring and sensor feed. Wiring running from Lagoon building to UV system appears okay. Wiring and hardware at UV location will need to be repaired .
<a href="#">2487604</a>			1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	10/1/21 12:00 AM	1/13/22 10:31 AM	1/13/22 10:31 AM	

## Workorder Summary Report

---

Report Start Date: Jan 1, 2021 12:00 AM  
Report End Date: Dec 31, 2021 11:59 PM  
Location: 1541\*  
Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">2500008</a>			1541, Mattawa Wastewater System	EMER	Refurbish/Replace/Repair	0		Mattawa 1st Street Sewage Pump Emergency Repair	COMP	11/25/21 01:33 PM	11/25/21 01:33 PM		1st Street SPS Pump Repair -Pump malfunction, suspect bad windings after troubleshooting. Pump to be pulled and brought in for emergency repair.

## Workorder Summary Report

Report Start Date: Jan 1, 2021 12:00 AM  
Report End Date: Dec 31, 2021 11:59 PM  
Location: 1541\*  
Work Order Type: CALL,CAP,CORR,EMER,OPER,PM  
Work Order Class:

WO #	Asset ID	Asset Description	Location Description	WorkOrder		PM Schedule		Workorder Details				WorkLog Detail	
				Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	
													Rebuild Details - Submersible Pump: Flygt 9.4HP, 1750RPM, 575V, 10.2A, 60HZ, 3PH, Model 3126.180-870069. Labour to dismantle, clean, check all bearing fits, test stator windings, inspect all parts, access damage Assemble unit with new parts listed & perform no load full voltage test run. Remove stator from housing and re-install after rewinding Rewind Stator, dip & bake Bore & sleeve ODE housing Dynamic Balance Rotor & Impeller 6018946 Repair Kit (Bearings,O-rings & Seals)

## Workorder Summary Report

Report Start Date: Jan 1, 2021 12:00 AM  
Report End Date: Dec 31, 2021 11:59 PM  
Location: 1541\*  
Work Order Type: CALL,CAP,CORR,EMER,OPER,PM  
Work Order Class:

WO #	Asset ID	Asset Description	Location Description	WorkOrder		PM Schedule		Workorder Details					WorkLog Detail
				Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	
													3947710 Cable Entry - F-Pump
<a href="#">2500097</a>		1541, Mattawa Wastewater System		CAP	Refurbish/Replace/Repair	0		1541 lift station at Bissit and bridge	COMP	12/13/21 12:04 PM	12/13/21 12:04 PM		1541 lift station at Bissit and bridge -Main 600 volt breaker tripping feeding pump 2 , check winding resistance of motor , suspect windings damaged , pump will need to be removed and sent for repair

## Workorder Summary Report

Report Start Date: Jan 1, 2021 12:00 AM  
Report End Date: Dec 31, 2021 11:59 PM  
Location: 1541\*  
Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">2500101</a>			1541, Mattawa Wastewater System	CAP	Refurbish/Replace/Repair	0		1541 lagoon blower	COMP		12/13/21 12:05 PM	12/13/21 12:05 PM	1541 lagoon blower -Blower # 1 would not start on auto or hand , found two blown fuses on the 600 volt primary side of the control transformer... very odd...new fuses will need to be ordered.  1541 lagoon blower -take pictures of existing fuse holders as existing fuse components are unavailable , might need to drill and remount new components inside MCC  1541 lagoon blower -Replace 600 v primary fuses on control transformer , and test , blower started and ran with no issues.
<a href="#">2500125</a>			1541, Mattawa Wastewater System	EMER	Refurbish/Replace/Repair	0		1541 purchase of control transformer and fuses for lagoon blower	COMP		12/13/21 12:06 PM	12/13/21 12:06 PM	
<a href="#">2501048</a>	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	10/16/21 12:00 AM	1/13/22 10:16 AM	1/13/22 10:16 AM	
<a href="#">2483377</a>	0000328878	BLOWER CENTRIFUGAL B01 AERATION	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	YEARS	Blower Centrifugal Inspection/Service (1y) 1541	COMP	10/1/21 12:00 AM	1/20/22 10:22 AM	1/20/22 10:22 AM	
<a href="#">2483390</a>	0000328879	BLOWER CENTRIFUGAL B02 AERATION	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	YEARS	Blower Centrifugal Inspection/Service (1y) 1541	COMP	10/1/21 12:00 AM	1/20/22 10:23 AM	1/20/22 10:23 AM	
<a href="#">2483403</a>			1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	YEARS	HVAC, Fans, Dehumidifiers, Heaters ,Louvres Route (1y) 1541	COMP	10/1/21 12:00 AM	1/20/22 10:23 AM	1/20/22 10:23 AM	
<a href="#">2406714</a>			1541, Mattawa Wastewater System	CALL	Refurbish/Replace/Repair	0		pump 1 fail blake st pump station 1541 mattawa	CLOSE		8/21/21 09:30 AM	8/21/21 01:00 PM	pump 1 fail blake st pump station 1541 mattawa - Called by Josh D at 0920 for pump 1 fail 451 blake st. arrived at 1045 tried resetting pump 1 continued to trip on breaker. changed leads from pump 1 to pump 2 started pump 2 with pump 1 controls, now pumping. TF aug 21/21

## Workorder Summary Report

Report Start Date: Jan 1, 2021 12:00 AM  
Report End Date: Dec 31, 2021 11:59 PM  
Location: 1541\*  
Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">2407735</a>	0000328874	GENERATOR ELECTRIC DIESEL BACKUP POWER	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	8/29/21 12:00 AM	11/15/21 01:04 PM	11/15/21 01:04 PM	
<a href="#">2407738</a>	0000328842	GENERATOR ELECTRIC DIESEL 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	8/29/21 12:00 AM	11/15/21 01:04 PM	11/15/21 01:04 PM	
<a href="#">2407741</a>	0000328901	GENERATOR ELECTRIC DIESEL	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	8/29/21 12:00 AM	11/15/21 01:04 PM	11/15/21 01:04 PM	
<a href="#">2435579</a>	0000328870	MCC MAIN POWER DISTRIBUTION LAGOON	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	3	YEARS	MCC Panel Inspection (3y) - 1541	COMP	9/1/21 12:00 AM	1/20/22 12:15 PM	1/20/22 12:15 PM	ESA Inspection Oct 10 -No Deficiency
<a href="#">2439912</a>			1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	9/1/21 12:00 AM	11/15/21 01:07 PM	11/15/21 01:07 PM	
<a href="#">2452618</a>	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	9/16/21 12:00 AM	11/15/21 01:07 PM	11/15/21 01:07 PM	
<a href="#">2349814</a>			1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	7/1/21 12:00 AM	1/20/22 10:20 AM	1/20/22 10:20 AM	
<a href="#">2360189</a>			1541, Mattawa Wastewater System	CORR	Refurbish/Replace/Repair	0		Mattawa Soft Start Troubleshooting Technical Service	CLOSE		7/6/21 02:37 PM	7/6/21 02:37 PM	Service Call -Technical service call was required for troubleshooting SPS soft start. Techniserve via Xylem, responded to assist electricians to resolve problems and bring the panel back online.
<a href="#">2362345</a>	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	7/16/21 12:00 AM	11/15/21 01:00 PM	11/15/21 01:00 PM	
<a href="#">2363359</a>			1541, Mattawa Wastewater System	CALL	Refurbish/Replace/Repair	0		Brooke st pump fault Mattawa wwtp 1541	CLOSE		7/19/21 08:00 PM	7/19/21 11:30 PM	Brooke st pump fault Mattawa wwtp 1541 - called by true steel at 1955 for pump fault brooke st pump station. arrived at 2105 and reset pumps. panel reading phase loss. called hydro to check transformer. pumps operating in hand and dewatering station. TF July 19/21
<a href="#">2393662</a>			1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	8/1/21 12:00 AM	11/15/21 01:04 PM	11/15/21 01:04 PM	

## Workorder Summary Report

Report Start Date: Jan 1, 2021 12:00 AM  
 Report End Date: Dec 31, 2021 11:59 PM  
 Location: 1541\*  
 Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">2402280</a>			1541, Mattawa Wastewater System	CORR	Refurbish/Replace/Repair	0		1541 purchase of cable for Blake Station	CLOSE		8/27/21 11:44 AM	8/27/21 11:44 AM	purchase of cable for Blake Station -Replacement electrical cable for Blake Station
<a href="#">2403471</a>			1541, Mattawa Wastewater System	CAP	Refurbish/Replace/Repair	0		1541 Blake Street station Breaker change	CLOSE		8/30/21 02:30 PM	8/30/21 02:30 PM	
<a href="#">2404669</a>	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	8/16/21 12:00 AM	11/15/21 01:04 PM	11/15/21 01:04 PM	
<a href="#">2406711</a>			1541, Mattawa Wastewater System	CALL	Refurbish/Replace/Repair	0		pump 1 fail blake st pump station	CLOSE		8/21/21 02:30 AM	8/21/21 05:30 AM	pump 1 fail blake st pump station - Called by Josh D at 0223 for pump 1 fail, arrived at 0320 reset pump reset tripped breaker cleared faults pump 1 started. no sign of over flow. TF aug 21/21
<a href="#">2580243</a>	0000328834	LIFTING DEVICE CRANE JIB 451 BISSETT ST.	1541, Mattawa Wastewater System	EMER	Refurbish/Replace/Repair	0		451 Bissett Crane Failure Repairs	COMP		12/6/21 09:43 AM	1/13/22 10:20 AM	451 Bissett Crane Failure Repairs -Attempted to use the crane to pull pump #1, crane would not operate, checked fuses they checked out OK. Called Dan Moran with trans Canada safety, he was not available, Called Gary with Vals, he came down to fix the issue. Issue was found in the Remote, it was rusted and iced up. Gary managed to get it working enough to pull plugged pump. Dan from Trans Canada will be onsite Tuesday or Wednesday to replace with a new remote. JD
<a href="#">2580244</a>	0000328827	PUMP SUBMERSIBLE 451 BISSETT ST.	1541, Mattawa Wastewater System	CORR	Refurbish/Replace/Repair	0		P1 Plugged pump @ 451 Bissett	COMP		12/6/21 09:48 AM	12/6/21 09:48 AM	P1 Plugged pump @ 451 Bissett -Found P1 to be clogged, called by trustee on Thursday afternoon. Pump was tripped, reset breaker and the amperage was very high and pump was not starting. Pulled pump with Curtis on Friday morning, Piece of cloth was plugging the impellor from moving. Reinstalled the pump and all OK

## Workorder Summary Report

Report Start Date: Jan 1, 2021 12:00 AM  
 Report End Date: Dec 31, 2021 11:59 PM  
 Location: 1541\*  
 Work Order Type: CALL,CAP,CORR,EMER,OPER,PM  
 Work Order Class:

WO #	Asset ID	Asset Description	Location Description	WorkOrder		PM Schedule		Workorder Details					WorkLog Detail
				Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	
<a href="#">2224164</a>			1541, Mattawa Wastewater System	CALL	Refurbish/Replace/Repair	0		called for line fault wwtp Mattawa 1541	CLOSE		4/12/21 07:30 PM	4/12/21 11:00 PM	called for line fault wwtp Mattawa 1541 - Called by Josh D for line fault at 1926 at the wwtp. arrived at 2045 found uv in fault acknowledged and checked uv lamps, operational and on. ok TF April 12,2021
<a href="#">2225087</a>			1541, Mattawa Wastewater System	EMER	Refurbish/Replace/Repair	0		1541 soft start damage /rewire with temp. panel	CLOSE		4/22/21 01:27 PM	8/30/21 02:25 PM	1541 soft start damage /rewire with temp. panel -Soft starts at Blake street station damaged during WTP transfer switch replacement , rewire station to bypass soft starts with temporary panel from xylem. 1541 soft start damage /rewire with temp. panel -Ship soft start back to supplier for repair 1541 soft start damage /rewire with temp. panel -Disconnect temporary panel and reconnect softstart and put into service 1541 soft start damage /rewire with temp. panel - 1/ Soft start main breaker fail , order new breaker suspect it was due too defective softstart / shorting 2/ Impeller fell off , remove and replace with new impeller and bolts

## Workorder Summary Report

Report Start Date: Jan 1, 2021 12:00 AM  
 Report End Date: Dec 31, 2021 11:59 PM  
 Location: 1541\*  
 Work Order Type: CALL,CAP,CORR,EMER,OPER,PM  
 Work Order Class:

WO #	Asset ID	Asset Description	Location Description	WorkOrder		PM Schedule		Workorder Details					WorkLog Detail
				Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	
<a href="#">2266238</a>			1541, Mattawa Wastewater System	CALL	Refurbish/Replace/Repair	0		451 Bissett St Pump Fail	CLOSE		5/7/21 10:29 AM	9/1/21 09:58 AM	451 Bissett St Pump Fail -I was driving by 451 Bissett st, saw the overflow was starting, stopped and checked the pump. P1 was running however it was not pumping down. Called SAC, and Health unit to advise of spill. Attempted to call Rick with no answer. Shut the station down and wired to run off P2, All completed and spill finished @ 1730. Will contact Don M to assist with pulling the pump for Monday.
<a href="#">2318517</a>			1541, Mattawa Wastewater System	CALL	Refurbish/Replace/Repair	0		Common Alarm @ 300 Mattawan-1541	CLOSE		6/12/21 09:00 PM	6/12/21 10:30 PM	Common Alarm @ 300 Mattawan-1541 -Called by truesteel for common alarm. Arrived to find the low level alarm activated, the pumps were off and the level was rising. All seemed ok, allowed the station to cycle twice. Will monitor this week. JD
<a href="#">2360615</a>	0000328912	TANK PROCESS WET WELL 300 MATTAWAN ST.	1541, Mattawa Wastewater System	CALL	Refurbish/Replace/Repair	0		High level alarm 300 Mattawanst - 1541	CLOSE		6/26/21 05:15 PM	6/26/21 09:15 PM	High level alarm 300 Mattawanst - 1541 -Called by truesteel for high level alarm. arrived to find no issue with the station, some signs of foam in the wetwell. cleaned the sensor. allowed the station to cycle 2 times. all ok will check again monday

## Workorder Summary Report

Report Start Date: Jan 1, 2021 12:00 AM  
Report End Date: Dec 31, 2021 11:59 PM  
Location: 1541\*  
Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">2134018</a>		Mattawa WWT		CAP	Refurbish/ Replace/Repair	0		Mattawa, Blake Station, Valve Replacement Purchase	CLOSE	6/10/21 01:51 PM	6/10/21 01:51 PM		Valve Replacement Purchase - Purchase order for the following GA - 04.00-625-E-12 4" GA INDUSTRIES MODEL 625DS ELBOW SEWAGE SURGE RELIEF VALVE GA AIR / VACUUM VALVE 2" FIG 935 - GA INDUSTRIES FIG 935 SEWAGE AIR/VACUUM VALVE 4" FLG Gate Valve, Open Left, 2" Operating Nut, NRS Liquid Filled Pressure Gauge – 100psi Flanges and hardware

## Workorder Summary Report

Report Start Date: Jan 1, 2021 12:00 AM  
Report End Date: Dec 31, 2021 11:59 PM  
Location: 1541\*  
Work Order Type: CALL,CAP,CORR,EMER,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
<a href="#">2362251</a>		Mattawa WWT		CAP	Refurbish/ Replace/Repair	0		Mattawa, Blake Station, Valve Replacement Installation	CLOSE	8/13/21 01:46 PM	8/13/21 01:46 PM		<p>Replace valves</p> <p>-</p> <p>This work order captures the labour and hardware to install the replacement valves at Blake station. Refer to work order #2134018 for details of the valves purchased.</p> <p>Mattawa, Blake Station, Valve Replacement Installation</p> <p>-Travel to Mattawa with service trailer to perform an entry with OCWA staff, as well as town staff to monitor feeder SLS levels, and staffing to aid in the entries. Original surge valve removed, new 4" gate, and then new surge valve installed. old air release valve removed and replaced with new. Old discharge piping pressure gauge removed and replaced with a S.S. saddle and new gauge plumbed. 8 hrs</p>

## Workorder Summary Report

Report Start Date: Jan 1, 2021 12:00 AM  
Report End Date: Dec 31, 2021 11:59 PM  
Location: 1541\*  
Work Order Type: CALL,CAP,CORR,EMER,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
													<p>valve, air relief, and pressure gauge install  - Hey everyone, the surge valve install went well yesterday. It is working like it should relieving pressure on the return surge as pressure starts to spike it is relieved through the valve. Of note is it takes about 15-20 seconds for the surge to come back. As the pumps shut down the flow continues drawing vacuum through the air relief and a zero reading on pressure gauge before returning 15-20 seconds later as pressure starts to spike &gt;60psi surge valve opens to relief pressure to about 35 psi with no hammering or slamming. Thank you to everyone involved, great work.</p> <p>We would like to install a couple jack style stilts to support the surge valve and piping as we had to remove a bracket to install saddle for pressure gauge. The galvanised fittings to the gauge and air relief were in very bad shape and crumbled as we attempted to remove them so that was only a matter of time as well.</p>

## Workorder Summary Report

Report Start Date: Jan 1, 2021 12:00 AM  
Report End Date: Dec 31, 2021 11:59 PM  
Location: 1541\*  
Work Order Type: CALL,CAP,CORR,EMER,OPER,PM  
Work Order Class:

WO #	Asset ID	Asset Description	Location Description	WorkOrder		PM Schedule		Workorder Details					WorkLog Detail
				Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	
<a href="#">2363361</a>		Mattawa WWT		CALL	Refurbish/Replace/Repair	0		UV fault mattawa wwtp 1541	CLOSE	7/19/21 08:00 PM	7/19/21 11:30 PM		UV fault mattawa wwtp 1541 - Called by True steel at 1955 for uv fault at the wwt. arrived at 2145 acknowledged alarm checked uv for operation. all ok. TF July 19/21
<a href="#">2265566</a>		Mattawa WWT		CORR	Refurbish/Replace/Repair	0		Mattawa Blake St Sewage Lift Station Empellor Bolts Repair. 1541	CLOSE	5/4/21 10:03 AM	5/4/21 10:03 AM		Mattawa Blake St Sewage Lift Station Empellor Bolts Repair. 1541 -On May 3, 2021 Don Michaud and Josh DeWaal pulled faulty pump #1 at Blake Sewage Lift Station. Removed Volute, Removed sheared impellor bolts with drilling and easy out. Re- installed impellor with new bolts, volute, and Pump. Pump #1 now ready for use if needed. <b>Note:</b> Station currently waiting repair on Soft Starts. Pump #2 currently connected and in use only.
<a href="#">2570755</a>		1541, Mattawa Wastewater System		PM	Refurbish/Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	12/1/21 12:00 AM	1/13/22 10:32 AM	1/13/22 10:32 AM	
<a href="#">2074811</a>	0000328869	TRANSFORMER AIR	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	3	YEARS	Transformer Air Insp/Service (3y) 1541	CLOSE	1/1/21 12:00 AM	1/27/21 03:33 PM	1/27/21 03:33 PM	
<a href="#">2531040</a>		1541, Mattawa Wastewater System		PM	Refurbish/Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	11/1/21 12:00 AM	1/13/22 10:09 AM	1/13/22 10:09 AM	
<a href="#">2541886</a>	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	11/16/21 12:00 AM	1/13/22 10:10 AM	1/13/22 10:10 AM	
<a href="#">2581911</a>	0000328874	GENERATOR ELECTRIC DIESEL BACKUP POWER	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	12/15/21 12:00 AM	1/13/22 10:21 AM	1/13/22 10:21 AM	
<a href="#">2581914</a>	0000328842	GENERATOR ELECTRIC DIESEL 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	12/15/21 12:00 AM	1/13/22 10:16 AM	1/13/22 10:16 AM	

## Workorder Summary Report

Report Start Date: Jan 1, 2021 12:00 AM  
 Report End Date: Dec 31, 2021 11:59 PM  
 Location: 1541\*  
 Work Order Type: CALL,CAP,CORR,EMER,OPER,PM  
 Work Order Class:

WO #	Asset ID	Asset Description	Location Description	WorkOrder		PM Schedule		Workorder Details					WorkLog Detail
				Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	
<a href="#">2581917</a>	0000328901	GENERATOR ELECTRIC DIESEL	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	12/15/21 12:00 AM	1/13/22 10:16 AM	1/13/22 10:16 AM	
<a href="#">2582056</a>	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	12/16/21 12:00 AM	1/13/22 10:15 AM	1/13/22 10:15 AM	
<a href="#">2173528</a>	0000328855	METER FLOW	1541, Mattawa Wastewater System	CORR	Refurbish/Replace/Repair	0		Repairs to STP flow meter	CLOSE		3/4/21 12:13 PM	4/12/21 03:20 PM	-
<a href="#">2176765</a>			1541, Mattawa Wastewater System	CALL	Refurbish/Replace/Repair	0		high level alarm 601 Mckenzie ps	CLOSE		3/21/21 11:45 PM	3/22/21 03:00 AM	high level alarm 601 Mckenzie ps - Called by Josh D at 2356 for high level alarm at 601 mckenzie. arrived at 0100 started pump1 reset pump 2 pump 2 started drew station down out of alarm. wetwell level did not get over platform. TF March 21,2021 high level alarm 601 Mckenzie ps -Work Order now complete.
<a href="#">2567288</a>	0000328859	ANALYZER GAS BUMP TEST	1541, Mattawa Wastewater System	PM	Calibration	6	MONTHS	Analyzer Gas C02 (6m) 1541	COMP	12/1/21 12:00 AM	1/13/22 10:13 AM	1/13/22 10:13 AM	
<a href="#">2267248</a>	0000328855	METER FLOW	1541, Mattawa Wastewater System	PM	Calibration	1	YEARS	Meter Flow Calibration (1y) 1541	CLOSE	5/11/21 12:00 AM	7/29/21 06:51 PM	7/29/21 06:51 PM	
<a href="#">2299168</a>	0000328859	ANALYZER GAS BUMP TEST	1541, Mattawa Wastewater System	PM	Calibration	6	MONTHS	Analyzer Gas C02 (6m) 1541	CLOSE	6/1/21 12:00 AM	7/29/21 06:57 PM	7/29/21 06:57 PM	Analyzer Gas C02 (6m) 1541 -Analyzer is bump tested/calibrated before each use JD