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woodardcurran.com

HULL, MA WATER POLLUTION CONTROL FACILITY

MARCH 2023

MONTHLY OPERATING REPORT



0217319.00 Town of Hull, MA

Permit No. MA0101231



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EXECUTIVE SUMMARY

This Monthly Operating Report provides a summary of the pertinent information and activities that occurred at Hull WPCF during the month of March 2023.

- No lost-time incidents for the month of March.
- Continuing Covid-19 awareness- adhering to W&C, Town of Hull, and CDC guidelines and sharing any protocol updates.
- There were 152 effluent samples taken in March.
- There were no after-hours alarm calls that required a response by W&C staff.
- The Asset Management Accounts summaries for contract year #8 is attached- the latest revision date is 3/11/2023.
- There were no calls from residents for E-One grinder pump issues.
- W&C's O&M continued its efforts to support the various ongoing engineering projects and upgrades at the plant- see the projects section.
- The weekly BioBot Covid-19 wastewater sampling & monitoring program continued with W&C staff assisting Brian Kiley of the HSD when needed.

Woodard & Curran strives to deliver a high-quality operations service and is responsive to our customers' concerns. Please feel free to request any modifications to the format or content of this report.

Mike Sullivan – Plant Manager Town of Hull WPCF 5/3//2023



1. FLOWS AND LOADING



1.1 Average Daily Flows and Loadings – March 2023

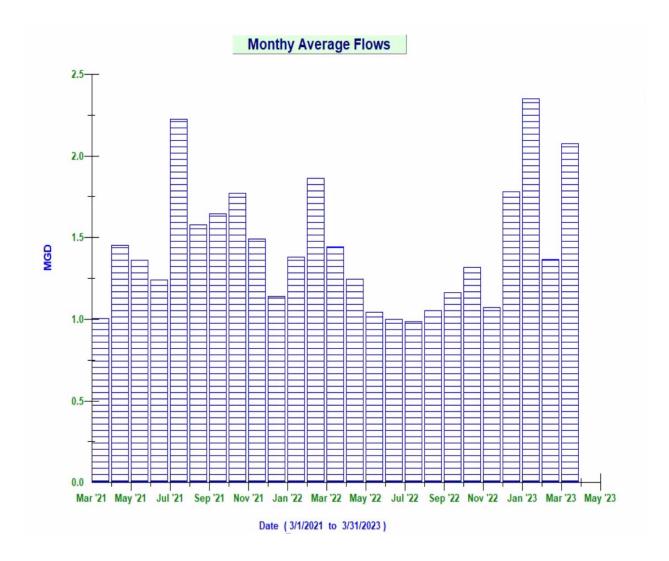
Month / Year	Eff Flow (MGD)	Inf Flow (MGD)	Inf BOD (lbs)	Inf TSS (lbs)	Eff BOD (lbs)	Eff TSS (lbs)
Mar '21	1.00	1.17	2,557.38	3,365.14	25.97	65.54
Mar '22	1.44	1.45	1,452.74	1,686.21	33.73	66.08
Mar '23	2.07	1.82	1,734.82	2,466.42	99.27	150.37

* On-Going -the existing influent flow meters are strap-on doppler flow meters, and the existing pipe condition prevents getting a strong signal. An area velocity meter in the aeration tank inlet channel is used as well as the headworks influent Parshall Flume meter to monitor influent flows. All reported loadings are based on the effluent flow meter [new mag meter April 2021]. All meters are tied into the Scada system so that influent flows can be monitored.



1.2 Average effluent monthly flows – 2+ year comparison

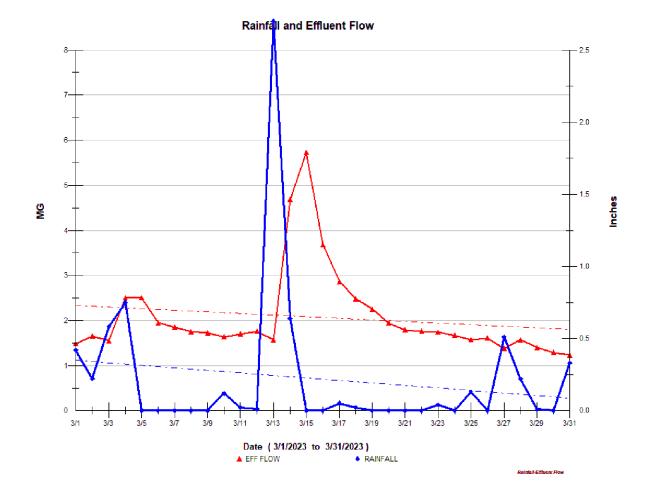
The monthly average flow for March was 2.07 MGD, more than the 1.37 MGD seen in February. The total precipitation for March was 6.77 inches, well more than January's 3.06 inches, yet it had no impact on the plant's process conditions. The graph below shows the 2-plus year summary of the monthly average flows.





1.3 Two Month Summary of Rainfall and the Influence on Effluent Flows

The graph shows the days where precipitation occurred [rainfall] [Blue Peaks].



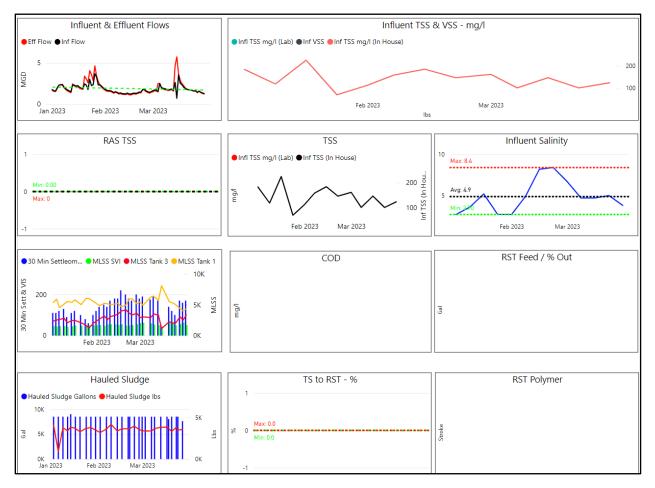


2. COMPLIANCE



2.1 Plant Effluent

The plant process conditions through March were steady. Below are Process Summary Graphs produced on the Power BI dashboard illustrating trends year-to-date.





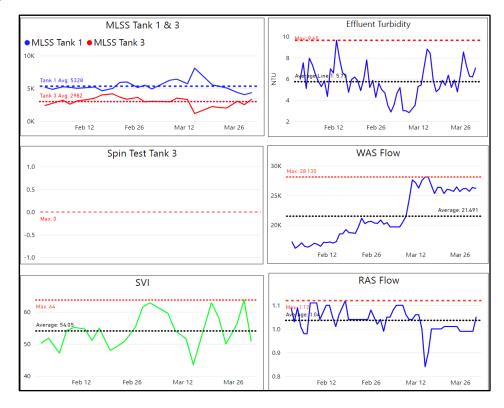
2.2 Secondary Processes

Below are Process Summary Graphs produced on the Power BI dashboard illustrating trends over a 2-month period ending on 03-31-2023.





Secondary Processes continued...



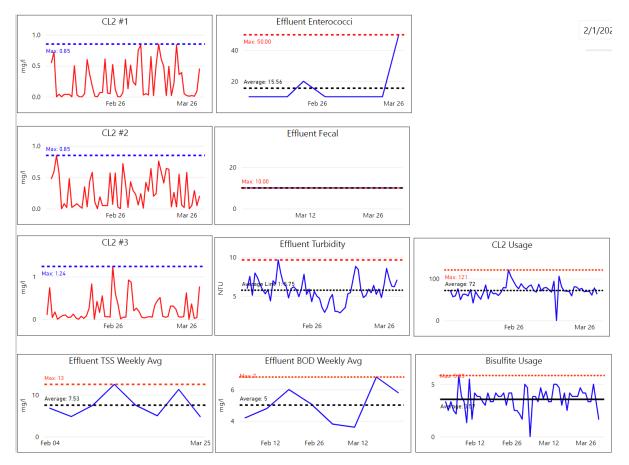




2.3 Permit Compliance

There were 152 effluent samples taken in the month of March. A table summarizing the results of these samples is shown below. Also shown are graphs generated by Power BI illustrating values and trends for effluent characteristics. The quality of effluent was satisfactory, and turbidity (NTU) levels were normal.

L. First	Permit Requirements				Results							
Parameter	Hach WIMS Variable #	Units	Daily Max	Daily Min	Weekly Avg Max	Monthly Avg Max	Freq	Period Avg	Period Min	Period Max	# of Samples	# of Violations
Eff TSS	104 / 999081	MG/L	50		45	30	1 X Week	7.7	6.3	10.0	5	0
Eff TSS	184	LBS			1152	768	1 X Week	68.4	54.6	85. <mark>4</mark>	5	0
% TSS Rem	208	%		85			1 X Month		96.1		1	0
Eff BOD	108	MG/L	50		45	30	1 X Week	3.3	3.0	3.9	5	0
Eff BOD	185	LBS			1152	768	1 X Week	29.3	24.0	33.2	5	0
% BOD Rem	207	%		85			1 X Month		97.7		1	0
Eff Chlorine	142	MG/L	1			0.7	3 X Day	0.08	0.00	0.33	93	0
Eff Fecal	111	#/100 ML	260			88	1 X Week	10.0	10.0	10.0	4	0
Eff pH	136	SU	8.5	6.5			1X Daily	6.7	6.5	6.9	31	0
Enterococci	255	#/100 ML	276			35	1 X Week	10	10	10	4	0



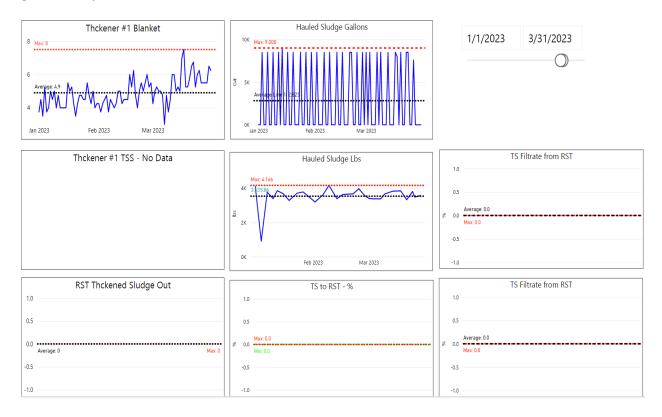


2.4 Solids Handling & Odor Control

Sewage Gallons Treated vs Sludge Disposed

Month	Effluent Treated, MG	Sludge Disposed, Gals
March 2021	42.4	133,500
March 2022	42.3	131,000
March 2023	32.3	112,500

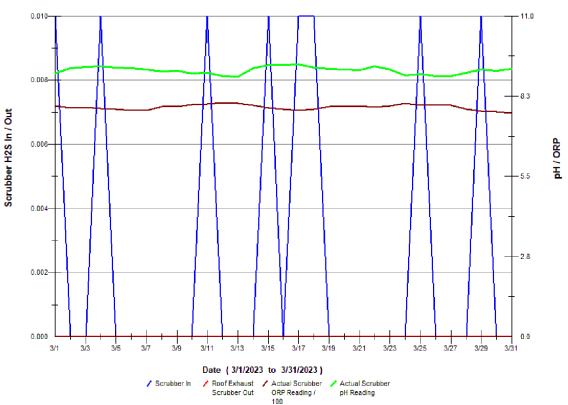
Graphs illustrating sludge/solids handling parameters over a 3-month period (ending 03-31-2022) generated by Power BI are shown below.





The Bioxide system was on, but the feed rates were minimal, as normal seasonal temperatures were cooler. Monthly graphs are attached below, and the daily average Bioxide use for March was about 30 gallons per day.

- The "In-Pipe" bacteria containers in the collection system manholes were changed out on March 2nd and 21st.
- <u>Slight changes</u> Hydrogen sulfide (H2S) monitoring units were recording and trending on the odor scrubber. [inlet and outlet]. Increased scrubber fan speed slightly. See graph below:



Srubber H2S, pH and ORP



The odor data logging unit at XYZ monitoring locations, recording the overall H_2S levels close to the plant, are shown in the graph below. During the month of March there was little to no H2S detected at this monitoring location.



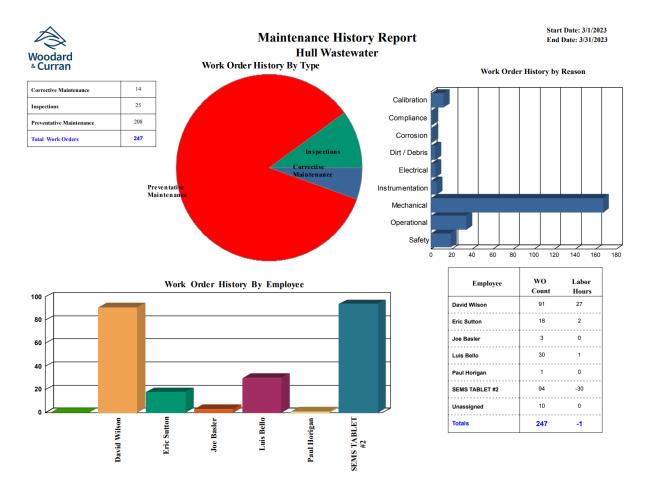


Pump station #3 - H₂S is monitored at the end of the force main in the manhole at Nantasket Ave & Water Street. Bioxide is added to allow excess nitrate in the sewage system to treat the additional H₂S from other parts the system – such as PS #4, contributions from lines feeding the interceptor - PS #5, PS #6, PS #9, Spinnaker Island, etc., all the way to the wastewater plant. H₂S levels through March were minimal with generally mild temps for wintertime, and adjustments for substantially less Bioxide feed were made.









The SEMS monthly work order summary for February is attached for review.

3.1 Maintenance Summary

- On March 1st at Lift Station A pump #1's impeller and volute came apart- a backup pump was installed and wired in by Hi-Voltage Electric. The compromised pump went to Sea Coast for assessment and repairs.
- The plant's electrical power was shut off on March 2 for a brief period of about 1.5 hours for Annese Electric. They installed a 225-amp breaker for the new second floor MCC room as part of the Phase 2 upgrades. The MCCs- motor control centers, are currently on the first floor and lower levels of the plant but will be moved to the second floor- up and out of the flood plain, as part of Phase 2.
- On March 6, the portable, trailer-mounted emergency generator at Lift Station A would not start for its weekly "No-Load" running. The contracted maintenance provider, South Shore Generator, deemed that there was an issue with the actual engine, out of their scope of work. A local John Deere equipment rep United Forestry & Construction of Plymouth was called in to address the generator's engine issues.



- On March 14, a Nor'easter storm and high flow event hit the South Shore and Eastern Massachusetts. The plant was staffed overnight to address any pump station alarm calls and issues at the plant. A second Primary Clarifier was opened up, as well as Aeration Tank # 2 basin, to handle the increased inflows from the storm. By Monday the 20th the flows were back to normal and both tanks were empty again.
- On March 22 the RST- Rotary Sludge Thickener, was readied for use with a complete pressure washing and new polymer lines installed. The RST was run and all systems checked out- the booster pump, spray rails, polymer dyna-blend unit, and the two sludge pumps. The RST will be put into service again in late May.
- On March 31 Triumph delivered to the plant the Hull Sewer Department's new office trailer.
- March 29-31 contractor EM Lofgren was onsite to replace a failed plant water system hydrant just behind aeration tank #2 by Spring Street. That job coincided with Lofgren tying in the potable water and sewer lines for the Hull Sewer Department's new office trailer.

3.2 Asset Management Accounts

Please see the attached summary totals and planned expenditures for the Asset Management accounts for contract year (8). Most recent through 3/11/23.



4. SAFETY



It is Woodard & Curran's policy to maintain a safe and healthy working environment for all employees and to comply with all applicable occupational health & safety regulations.

- No lost time incidents were reported for March.
- Monthly PM's emergency eyewash and shower inspections, fire extinguishers, and emergency lighting inspections completed.
- Monthly calibrations were performed on all MX4 & Max XT11 gas meters.
- On-going Covid-19 Pandemic awareness with daily review and as needed and keeping in contact with all onsite contractors regarding Hull and W&C covid-19 protocols.
- W&C's Pure Safety topic for March was machine guarding.
 - The monthly W&C SPARKS safety meeting was held on March 29th, including a review of
- W&C's monthly "Lessons Learned!"
 - W&C's monthly safety inspection checklist for the plant was completed.



5. STAFF DEVELOPMENT

5.1 Training

Training is an important part of any operation to ensure employee health and safety is assured, quality standards are supported, staff skills are improved, career opportunities become available, and higher productivity is achieved.

Listed is a general outline of training that the staff received over the course of the month:

- All staff completed W&C's monthly Pure Safety training and the staff's monthly safety meeting was held on March 28. Topics discussed were forklift operation, sitework trenching, and guarding floor & wall openings on the jobsite. Staff also reviewed the "near-miss" incidents occurring at all W&C projects during the month of February in "Lessons Learned!"
 - Regular, usually daily, operational updates and process control discussions, pump station operations, Dig Safes, and the HVAC construction project work scope ongoing at the plant. Daily safety briefings and Covid-19 protocol updates if necessary.

5.2 Staffing Updates

- Plant continued to have weekend coverage supplemented with part-time staffers Roger Boltrushek and Ryan Holman, in addition to Mike S, Joe B, Luis B, Eric S, Dave W, and Joel T.
- O&M Specialists Paul Horigan and Jody St George continue to assist as needed with plant O&M projects.
- Sadly, mechanic David Wilson has left W&C for another position that is better suited for him and his family.



6. COLLECTION SYSTEM

6.1 Wet Well Maintenance

Pump stations are maintained by the operations team at the Hull WPCF. Below is a maintenance summary for the pump stations owned by the Town of Hull, MA.

Table Key:

- "X" Pump Station Cleaned
- Pump Station Inspected
- See notes for additional information

blank – No Work Performed

Month	Pump Station							
wonth	Α	1	3	4	5	6	9	D
May 2022								
June 2022								
July 2022								
August 2022								
September 2022								
October 2022								
November 2022								
December 2023								
January 2023								
February 2023								
March 2023								
April 2023								

All pump stations, excluding Pump Station 3 and Station D, have an aerator/mixer in the wet wells.



6.2 Collection System Maintenance

Collection system work is documented and tracked in Utility Cloud [UC]. A summarized report for March has been included as an attachment to the Monthly Operating Report.

Woodard & Curran assisted/conducted camera work and sewer system support in the Hull collection system at the following areas during the month of March. Ongoing backup and blockage call outs requiring an increase in labor and time to support. A summary of W&C's efforts at the various call out locations is as follows:

- There were no calls for E-One Grinder pump service- see UC summary.
- There were 2 sewer backup calls from residents, one at 37 Atlantic Avenue which required the homeowner to call in a plumber. A sewer back up call came in from 173 Spring Street, W&C subsequently opened the nearby manhole and discovered a large pile of flushable cleaning wipes and other debris blocking the flow. The manhole was cleaned out and a normal flow resumed.
- Pump station emergency generator testing consists of a weekly no load running and a monthly loaded running.
- All Pump station wet wells were inspected in March- monthly station inspections are completed and combined with the monthly station PM's.
- Upload new or updated tie-cards to the UC as required.
- Dig-Safe mark outs are completed throughout the Town of Hull as needed to assist and facilitate scheduled and emergency gas repairs, broken water mains, roadway paving projects, and other residential and town projects. All are listed in the UC summary.





7. PROJECT MANAGEMENT & ADMINISTATION

7.1 Ongoing Projects and Support Items- March Updates:

- Phase 1 construction work in the operations building is winding down and nearing completion. Phase 2 Engineering contractor Barletta of Canton has been onsite periodically and is gearing up to start.
- Plant Manager Mike S. and Assistant Plant Manager Joe B. continue to meet weekly with John S. and Brian K. to discuss the Hull Sewer Department operations, any treatment plant issues, the collection system maintenance, and any upcoming projects.





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Date	Asset ID	Asset Description	Asset Class	Name
3/13/2023 10:56	03-034	173 SPRING ST	Hull Parcels	Sutton, Eric
3/23/2023 12:55	04-010	16 ANDREW AVE	Hull Parcels	Sutton, Eric
3/23/2023 15:11	04-010	16 ANDREW AVE	Hull Parcels	Sutton, Eric
3/6/2023 11:07	05-059	14 HIGHLAND AVE	Hull Parcels	Sutton, Eric
3/6/2023 11:05	05-066	11 HIGHLAND AVE	Hull Parcels	Sutton, Eric
3/15/2023 13:52	06-055	127 SPRING ST	Hull Parcels	Sutton, Eric
3/13/2023 9:44	06-076	27 JAMES AVE	Hull Parcels	Sutton, Eric
3/20/2023 8:00	09-017	955 NANTASKET AVE	Hull Parcels	Sutton, Eric
3/1/2023 7:44	09-044-A	3 FITZPATRICK WAY	Hull Parcels	Sutton, Eric
3/1/2023 14:26	09-044-A	3 FITZPATRICK WAY	Hull Parcels	Sutton, Eric
3/2/2023 12:03	09-044-A	3 FITZPATRICK WAY	Hull Parcels	Sutton, Eric
3/22/2023 8:01	10873	8 8" VC Pipe	Hull Sewer Main	Sutton, Eric
3/27/2023 9:36	12-003	24 STANDISH AVE	Hull Parcels	Sutton, Eric
3/2/2023 11:12	12-007	36 STANDISH AVE	Hull Parcels	Sutton, Eric
3/22/2023 11:46	12-007	36 STANDISH AVE	Hull Parcels	Sutton, Eric
3/22/2023 12:56	12-068	12 BLUFF RD	Hull Parcels	Sutton, Eric
3/22/2023 12:54	12-069	10 BLUFF RD	Hull Parcels	Sutton, Eric
3/22/2023 12:53	12-070	4 BLUFF RD	Hull Parcels	Sutton, Eric
3/22/2023 12:48	12-071	2 BLUFF RD	Hull Parcels	Sutton, Eric
3/29/2023 12:34	16-008	20 SUNSET AVE	Hull Parcels	Sutton, Eric
3/22/2023 13:43	16-034	19 G STREET	Hull Parcels	Sutton, Eric
3/15/2023 14:00	16-087	21 E STREET	Hull Parcels	Sutton, Eric
3/22/2023 13:46	16-097	10 F STREET	Hull Parcels	Sutton, Eric
3/22/2023 14:35	16-117	14 E STREET	Hull Parcels	Sutton, Eric
3/13/2023 11:01	17-068	61 C STREET	Hull Parcels	Sutton, Eric
3/15/2023 14:02	17-119	59 E STREET	Hull Parcels	Sutton, Eric
3/15/2023 14:05	17-119	59 E STREET	Hull Parcels	Sutton, Eric
3/13/2023 11:03	18-005	36 C STREET	Hull Parcels	Sutton, Eric
3/23/2023 15:09	18-009	28 C STREET	Hull Parcels	Sutton, Eric
3/23/2023 15:07	18-029	16 C STREET	Hull Parcels	Sutton, Eric
3/20/2023 12:24		168 MANOMET AVE	Hull Parcels	Sutton, Eric
3/20/2023 12:32		162 SAMOSET AVE	Hull Parcels	Sutton, Eric
3/20/2023 12:36	23-086	6 WARREN STREET	Hull Parcels	Sutton, Eric
3/7/2023 8:51	24-068	25 WARFIELD AVE	Hull Parcels	Sutton, Eric
3/7/2023 12:34	24-068	25 WARFIELD AVE	Hull Parcels	Sutton, Eric
3/6/2023 11:13	24-078	81 WARFIELD AVE	Hull Parcels	Sutton, Eric
3/20/2023 12:42		42 MASSASOIT AVE	Hull Parcels	Sutton, Eric
3/8/2023 13:10	25-119	52 A SAMOSET AVE	Hull Parcels	Sutton, Eric
3/3/2023 13:12		107 NEWPORT RD	Hull Parcels	Sutton, Eric
3/20/2023 12:47		19 MANOMET AVE	Hull Parcels	Sutton, Eric
3/22/2023 10:46		15 WHITEHEAD AVE	Hull Parcels	Sutton, Eric
3/15/2023 14:09		31 WALTHAM ST	Hull Parcels	Sutton, Eric
3/22/2023 14:18	29-054	58 EDGEWATER RD	Hull Parcels	Sutton, Eric

2/42/2022 0.20.20.050			
3/13/2023 9:30 29-058	61 WHITEHEAD AVE	Hull Parcels	Sutton, Eric
3/24/2023 13:07 29-104	54 WHITEHEAD AVE	Hull Parcels	Sutton, Eric
3/1/2023 7:43 32-021	276 NANTASKET RD	Hull Parcels	Sutton, Eric
3/15/2023 14:17 32-072	44 CLIFTON AVE	Hull Parcels	Sutton, Eric
3/28/2023 10:35 33-001-A	45 HULL SHORE DRIVE	Hull Parcels	Sutton, Eric
3/28/2023 10:34 34-085	19 HULL SHORE DRIVE	Hull Parcels	Sutton, Eric
3/20/2023 14:35 36-012	33 BAY STREET	Hull Parcels	Sutton, Eric
3/20/2023 14:37 36-013	35 BAY STREET	Hull Parcels	Sutton, Eric
3/22/2023 14:32 36-145	36 HAMPTON CIRCLE	Hull Parcels	Sutton, Eric
3/29/2023 12:52 38-001	6 ATHERTON RD	Hull Parcels	Sutton, Eric
3/29/2023 13:21 39-073	14 ROCKAWAY AVE	Hull Parcels	Sutton, Eric
3/28/2023 8:18 39-161	28 BERKLEY RD	Hull Parcels	Sutton, Eric
3/7/2023 7:22 40-010	5 SHORE GARDENS RD	Hull Parcels	Sutton, Eric
3/8/2023 13:07 49-064	35 ATLANTIC HSE RD	Hull Parcels	Sutton, Eric
3/8/2023 12:47 49-064	35 ATLANTIC HSE RD	Hull Parcels	Sutton, Eric
3/22/2023 11:27 51-006	181 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/7/2023 7:15 51-011	211 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/7/2023 12:32 51-078	8 MAPLE LANE	Hull Parcels	Sutton, Eric
3/1/2023 14:25 51-110	11 SEA VIEW AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:21 53-001	89 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:11 53-002	91 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:08 53-004	97 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:07 53-005	99 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 8:49 53-006	103 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 8:52 53-007	105 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 8:53 53-008	107 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 8:55 53-009	107 A ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 8:47 53-010	109 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 8:43 53-011	111 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 8:44 53-011	111 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 8:39 53-012	113 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 8:28 53-013	115 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/23/2023 15:17 53-014	117 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/23/2023 15:15 53-015	119 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/23/2023 15:13 53-036	120 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 8:25 53-037	118 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 8:30 53-038	116 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 8:32 53-039	116 A ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 8:34 53-040	114 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 8:36 53-041	114 A ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 8:40 53-042	112 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 8:41 53-042	112 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 8:46 53-042	110 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 8:40 53-043	108 ATLANTIC AVE	Hull Parcels	Sutton, Eric
5/24/2023 0.37 33-044	100 ATLANTIC AVE		Sutton, Enc

3/24/2023 8:56 53-045	106 ATLANTIC AVE	Hull Parcels	Sutton Fric
3/24/2023 8:58 53-046	104 ATLANTIC AVE	Hull Parcels	Sutton, Eric Sutton, Eric
3/24/2023 9:06 53-047	100 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:09 53-048	98 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:17 53-049	96 ATLANTIC AVE	Hull Parcels	-
	96 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:19 53-049	94 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:15 53-051		Hull Parcels	Sutton, Eric
3/24/2023 9:12 53-052	92 ATLANTIC AVE		Sutton, Eric
3/24/2023 9:16 53-052	92 ATLANTIC AVE 90 ATLANTIC AVE	Hull Parcels Hull Parcels	Sutton, Eric
3/24/2023 9:12 53-053			Sutton, Eric
3/24/2023 9:19 53-054	88 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/15/2023 14:18 54-022	20 SUMMIT AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:43 54-035	76 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:46 54-035	76 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:42 54-035-A	78 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:32 54-037	79 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:24 54-038	81 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:30 54-040	O ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:25 54-041	86 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:28 54-041	86 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:35 54-043	82 A ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:39 54-043	82 A ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:41 54-045	80 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:47 55-007	4 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/24/2023 9:48 55-008	2 ATLANTIC AVE	Hull Parcels	Sutton, Eric
3/6/2023 11:09 56-037	1153 NANTASKET AVE	Hull Parcels	Sutton, Eric
3/9/2023 13:59 56-037	1153 NANTASKET AVE	Hull Parcels	Sutton, Eric
3/28/2023 10:37 56-037	1153 NANTASKET AVE	Hull Parcels	Sutton, Eric
3/28/2023 10:40 56-037	1153 NANTASKET AVE	Hull Parcels	Sutton, Eric
3/29/2023 9:58 6 Wyola Rd	6 Wyola Rd Grinder Pump	Hull Grinder Pumps	Sutton, Eric
3/2/2023 11:18 67 Rowley St		Hull Grinder Pumps	Sutton, Eric
3/2/2023 12:59 Bacteria UNIT #21		•	Sutton, Eric
3/22/2023 9:35 Bacteria UNIT #21		Hull In Pipe Bacteria Unit	Sutton, Eric
3/22/2023 9:39 Bacteria UNIT #22	UNIT #22	Hull In Pipe Bacteria Unit	Sutton, Eric
3/22/2023 9:26 Bateria UNIT # 8	UNIT # 8	Hull In Pipe Bacteria Unit	Sutton, Eric
3/22/2023 9:19 Bateria UNIT #1	UNIT #1	Hull In Pipe Bacteria Unit	Sutton, Eric
3/22/2023 9:27 Bateria UNIT #10	UNIT #10	Hull In Pipe Bacteria Unit	Sutton, Eric
3/22/2023 9:32 Bateria UNIT #11	UNIT #11	Hull In Pipe Bacteria Unit	Sutton, Eric
3/22/2023 9:38 Bateria UNIT #12	UNIT #12	Hull In Pipe Bacteria Unit	Sutton, Eric
3/22/2023 9:37 Bateria UNIT #13	UNIT #13	Hull In Pipe Bacteria Unit	Sutton, Eric
3/22/2023 9:36 Bateria UNIT #14	UNIT #14	Hull In Pipe Bacteria Unit	Sutton, Eric
3/22/2023 9:34 Bateria UNIT #15	UNIT #15	Hull In Pipe Bacteria Unit	Sutton, Eric
3/22/2023 9:34 Bateria UNIT #16	UNIT #16	Hull In Pipe Bacteria Unit	Sutton, Eric
3/22/2023 9:28 Bateria UNIT #17	UNIT #17	Hull In Pipe Bacteria Unit	Sutton, Eric

3/22/2023 9:30	Bateria UNIT #18	UNIT #18
3/22/2023 9:32	Bateria UNIT #19	UNIT #19
3/22/2023 9:20	Bateria UNIT #2	UNIT #2
3/22/2023 9:20	Bateria UNIT #2	UNIT #2
3/22/2023 9:33	Bateria UNIT #20	UNIT #20
3/22/2023 9:38	Bateria UNIT #23	UNIT #23
3/22/2023 9:19	Bateria UNIT #24	UNIT #24
3/2/2023 12:59	Bateria UNIT #3	UNIT #3
3/22/2023 9:31	Bateria UNIT #3	UNIT #3
3/2/2023 12:58	Bateria UNIT #4	UNIT #4
3/22/2023 9:18	Bateria UNIT #4	UNIT #4
3/22/2023 9:23	Bateria UNIT #5	UNIT #5
3/22/2023 9:22	Bateria UNIT #6	UNIT #6
3/22/2023 9:23	Bateria UNIT #7	UNIT #7
3/22/2023 9:39	Bateria UNIT #9	UNIT #9
3/15/2023 13:56	MH-20008	SEMS_Asset
3/15/2023 13:58	MH-20332	SEMS_Asset
3/15/2023 14:12	MH-20664	SEMS_Asset
3/17/2023 12:19	MH-20671	SEMS_Asset
3/22/2023 7:51	MH-20827	SEMS_Asset
3/22/2023 7:58	MH-20827	SEMS_Asset
3/1/2023 14:21	MH-20963	SEMS_Asset
3/1/2023 14:23	MH-20967	SEMS_Asset

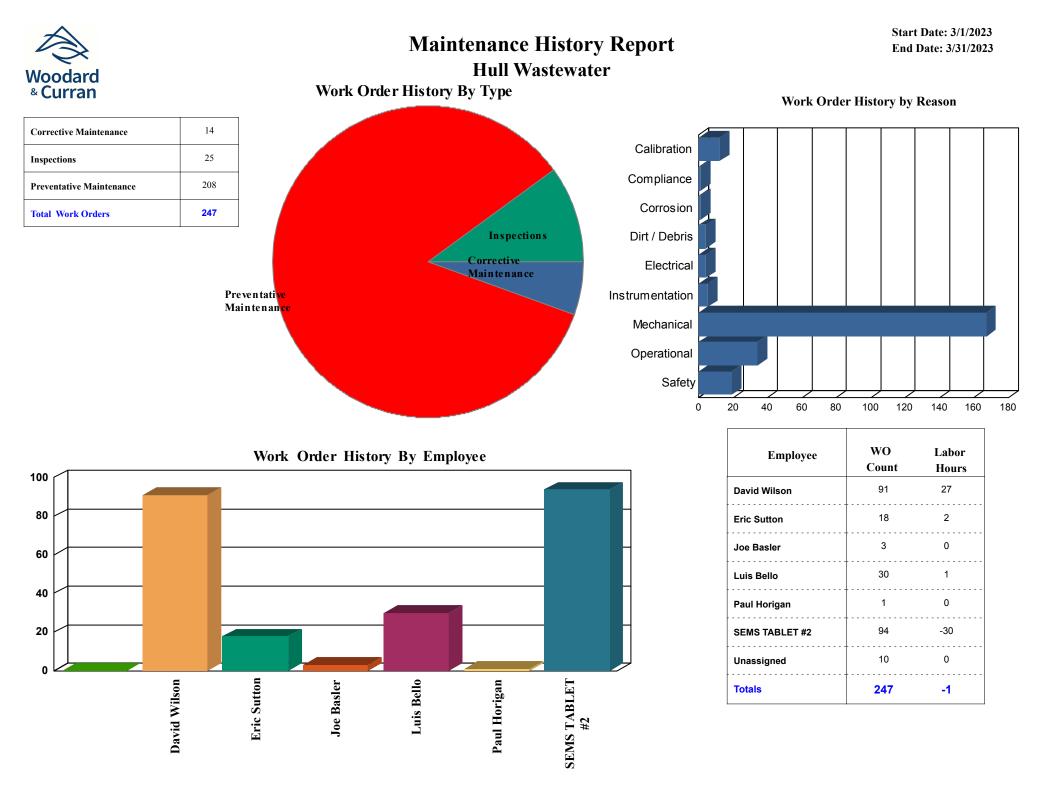
Hull In Pipe Bacteria Unit Sutton, Eric Sanitary Manhole Sutton, Eric Sanitary Manhole Sutton, Eric Sanitary Manhole Sutton, Eric Sanitary Manhole Sutton, Eric Sutton, Eric Sanitary Manhole Sanitary Manhole Sutton, Eric Sanitary Manhole Sutton, Eric Sanitary Manhole Sutton, Eric

Workflow Class	View
Hull - Sewer Backup	View
Hull - Markout	View
Generic WO	View
Hull - Markout	<u>View</u>
Hull - Markout	<u>View</u>
Hull - Markout	View
Hull - Markout	View
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Hull - Markout	<u>View</u>
Hull - Markout	View
Hull - Sewer Customer Complaint	View
Hull - Markout	View
Hull - Markout	<u>View</u>
Hull - Sewer Backup	View
Hull - Markout	<u>View</u>
Hull - Markout	View

Hull - Markout	View
Hull - Markout	View
Hull - Grinder Pump Maintenance	View
Sticker Replacement - Grinder Panels	View
Hull - In Pipe Bacteria Units	View
Hull - In Pipe Bacteria Units	View
Hull - In Pipe Bacteria Units	View
Hull - In Pipe Bacteria Units	<u>View</u>
Hull - In Pipe Bacteria Units	<u>View</u>
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Hull - In Pipe Bacteria Units	View
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Hull - In Pipe Bacteria Units	View
Hull - In Pipe Bacteria Units	View
Hull - In Pipe Bacteria Units	View
Hull - In Pipe Bacteria Units	View
Generic WO	View
Generic WO	View
Generic WO	View
MH Frame & Cover Inspection	View
Sewer Main Cleaning & CCTV	View
Sewer Main Cleaning & CCTV	View
MH Frame & Cover Inspection	View
MH Frame & Cover Inspection	View



Corrective Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
3/1/23	17579	PS A Pump 1	Diagnose low output.	LOTO of pump 1. Bled off pump. Seperated pump from volute. Impeller was not connected to the pump. Seal not intact. Drained volute and removed impeller and part of seal. Had High Voltage Electrical come out for motor wiring. Brought old motor back to plant. Installed new motor and had wired. Returned to service and tested operation. New motor making 110 gpm. Old motor made 80 gpm.	David Wilson	3/1/23	Completed
3/2/23	17580	Ventis MX4 #5 - 4 Gas	Replace failed LEL gas sensor	Disassembled gas detector. Separated LEL sensor from board. Installed new sensor and reassembled meter. Calibrated gas meter.	David Wilson	3/2/23	Completed
3/7/23	17581	23 - WW Pump Stations	Light bulb replacement	Replaced burned light bulb.	Luis Bello	3/7/23	Completed
3/9/23	17596	Ventis MX4 #1 - 4 Gas	Carbon Monoxide sensor failure	Powered device and did bump test. CO sensor failed immediately. Disassembled meter and got part number from sensor. Ordered replacement sensor and took meter out of service.	David Wilson	3/9/23	Completed
3/12/23	17597	30 - WW Treatment Plant - General	Lubricated the scruber's sediment strainer's treads, because they were cross treaded at some point and it kept on getting harder to turn.	I just lubricated the treads.	Luis Bello	3/12/23	Completed
3/13/23	17598	Ventis MX4 #1 - 4 Gas	Replace failed CO sensor and calibrate.	Disassembled four gas meter. Removed CO sensor from sensor board. Installed new sensor and reassembled gas meter. Tested calibration. All sensors passed.	David Wilson	3/13/23	Completed
3/14/23	17599	RST Polymer System	Annual clean and inspection	Used plant water to flush polymer discharge line to injection point. Hose fitting failure in sludge transfer room. Replaced fitting and tested again. Flushed line to headworks via sump pump.	David Wilson	3/14/23	Completed
3/15/23	17600	Gravity Thickener 1	Repair plant water connection to GT1 spray rail.	Door opened but not secured. High winds caused door to swing open and brake off elbow for spray rail. Corroded cast iron could not be reused. Built out of schedule 80 pvc.	David Wilson	3/15/23	Completed
3/16/23	17601	RAS Pump 3	Clean and inspect RAS pump.	LOTO of equipment for maintenance. Seperated pump from volute. Cleaned impeller and discharge elbow. Cleaned and inspected check valve. Returned to service.	David Wilson	3/16/23	Completed
3/16/23	17602	RAS Pump 1	Clean and inspect pump	LOTO of equipment. Seperated pump from volute. Cleaned and inspected impeller, volute and check valve. Returned to service.	David Wilson	3/16/23	Completed
3/21/23	17604	RST unit	Clean and inspect RST unit.	Pressure washed drum assembly. Inspected mesh for tears. Inspected hardware torque. Cleaned reachable debris from inside of drum. Inspected drive chain tension. Lubed chain. Inspected drum wheels. Cleaned and inspected sray rails. Tested booster pump. Tested progressive cavity pump. Installed rebuilt dynablend unit.	David Wilson	3/21/23	Completed

Corrective Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
3/21/23	17605	Gravity Thickener 1	Replaced failed sight glass.	Found oil on deck. Found sight glass seal cracked. Replaced sight glass since seal is unavailable. Set gearbox fluid level. Found gearbox vent failed. Replaced vent.	David Wilson	3/21/23	Completed
3/23/23	17606	Influent Pump 5	Seal water pressure guage failed.	Changed influent pump run order to isolate seal water supply. 4 in lead while servicing 5. Isolated seal water gauge and removed from service. Needle on zero side of stop. Removed back and set zero for bourdon tube. Snap on back wouldn't reseal. Oil filled guage weeping oil. Replaced guage with known good guage.	David Wilson	3/23/23	Completed
3/24/23	17607	Operations Building	Replace First Aid kit in shop.	Uninstalled old first aid kit. Everything in kit is expired. Drill new holes and mounted kit in new location.visible in shop as well as lab.	David Wilson	3/24/23	Completed

Inspections

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Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
3/3/23	17226	AST- Above Ground Storage tank for diesel fuel	Monthly Inspections of Tanks	Dispatched To 5085648127	Paul Horigan	3/1/23	Completed
3/3/23	17240	Blower Room Exhaust Fan 1	Monthly operational inspection		David Wilson	3/1/23	Completed
3/3/23	17241	Blower Room Exhaust Fan 2	Monthly operational inspection		David Wilson	3/1/23	Completed
3/3/23	17199	Main Office	Monthly Safety Inspection	Dispatched To 6032936642	SEMS TABLET #2	3/1/23	Completed
3/6/23	17239	Blower Room Exhaust Fan 1	Monthly inspection		SEMS TABLET #2	3/1/23	Completed
3/6/23	17240	Blower Room Exhaust Fan 1	Monthly operational inspection		SEMS TABLET #2	3/1/23	Completed
3/6/23	17241	Blower Room Exhaust Fan 2	Monthly operational inspection		SEMS TABLET #2	3/1/23	Completed
3/9/23	17106	Emergency Lighting & exit signs	Emergency Lighting Inspection - Monthly		Luis Bello	3/8/23	Completed
3/10/23	17106	Emergency Lighting & exit signs	Emergency Lighting Inspection - Monthly		SEMS TABLET #2	3/8/23	Completed
3/10/23	17102	Eyewash Stations	WWTF Eyewash Inspection - Weekly		SEMS TABLET #2	3/5/23	Completed
3/10/23	17196	Fire Extinguishers	WWTF Fire Extinguisher Inspections - Monthly		SEMS TABLET #2	3/6/23	Completed
3/20/23	17103	Eyewash Stations	WWTF Eyewash Inspection - Weekly		SEMS TABLET #2	3/12/23	Completed
3/20/23	17219	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms	Inspected vehicle. Tires are at minimum tread depth of 3/32". Will not pass next annual inspection.	SEMS TABLET #2	3/6/23	Completed
3/20/23	17211	Truck 2 - 2009 Chevy 2500 HD	Monthly vehicle inspection on do-Forms	Inspected vehicle. Plow left on truck causing draw on battery. Set up charger to charge battery.	SEMS TABLET #2	3/6/23	Completed
3/20/23	17201	Truck 1 - 2010 Dodge Ram 1500	Monthly vehicle inspection on do-Forms	Used as personal vehicle for M. Sullivan.	SEMS TABLET #2	3/6/23	Completed
3/23/23	17104	Eyewash Stations	WWTF Eyewash Inspection - Weekly	DW- Completed weekly inspections.	SEMS TABLET #2	3/19/23	Completed
3/23/23	17152	PS 1	PS #1 Inspection - Monthly	DW/LB- Completed monthly pump station inspections.	SEMS TABLET #2	3/2/23	Completed

Inspections

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Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
3/23/23	17153	PS 3	PS #3 Inspection - Monthly	DW/LB- Completed monthly pump station inspections.	SEMS TABLET #2	3/2/23	Completed
3/23/23	17154	PS 4	PS #4 Inspection - Monthly	DW/LB- Completed monthly pump station inspections.	SEMS TABLET #2	3/2/23	Completed
3/23/23	17155	PS 5	PS #5 Inspection - Monthly	DW/MS- Completed monthly pump station inspections.	SEMS TABLET #2	3/2/23	Completed
3/23/23	17158	PSA	PS #A Inspection - Monthly	DW/LB- Completed monthly pump station inspections.	SEMS TABLET #2	3/2/23	Completed
3/23/23	17156	PS 6	PS #6 Inspection - Monthly	DW/MS- Completed monthly pump station inspections.	SEMS TABLET #2	3/2/23	Completed
3/23/23	17157	PS 9	PS #9 Inspection - Monthly	DW/MS- Completed monthly pump station inspections.	SEMS TABLET #2	3/2/23	Completed
3/27/23	17218	Truck 3 - 2015 Chevy 3500 HD	Monthly vehicle inspection on do-Forms		Eric Sutton	3/6/23	Completed
3/27/23	17608	Truck 3 - 2015 Chevy 3500 HD	Perform vehicle inspection	Inspected vehicle - See doFORMS report for full details.	Eric Sutton	3/27/23	Completed

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Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
3/2/23	16956	Aeration Blower 1	Aeration Blower #1 Oil Analysis - Semi Annual	LOTO of equipment. Replaced oil, inspected hubs and coupling. Greased motor.	David Wilson	2/28/23	Completed
3/2/23	16959	Aeration Blower 2	Aeration Blower #2 Oil Change - Semi Annual	LOTO of equipment. Replaced oil. Inspected hubs and coupling. Greased motor.	David Wilson	2/28/23	Completed
3/2/23	16957	Aeration Blower 1	Aeration Blower #1 Air Filter Inspection - monthly	Inspected air filter element. Replaced with a clean filter. Returned to service.	David Wilson	2/28/23	Completed
3/2/23	16958	Aeration Blower 2	Aeration Blower #2 Air Filter Inspection - Monthly	Inspected air filter element. Returned to service.	David Wilson	2/23/23	Completed
3/3/23	17197	GasAlert Max XTII #1	4 gas meter calibration - monthly	Tested calibration. All sensors passed	David Wilson	3/1/23	Completed
3/3/23	17224	Meters - 4 Gas Confined Space #2	4 gas meter calibration - monthly	All gas detection meters calibrated. Ventis Mx4 required a new LEL sensor. Work order competed after repair.	SEMS TABLET #2	3/1/23	Completed
3/3/23	17197	GasAlert Max XTII #1	4 gas meter calibration - monthly		David Wilson	3/1/23	Completed
3/3/23	17224	Meters - 4 Gas Confined Space #2	4 gas meter calibration - monthly		David Wilson	3/1/23	Completed
3/3/23	17160	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		Eric Sutton	3/1/23	Completed
3/3/23	17165	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		Eric Sutton	3/1/23	Completed
3/3/23	17172	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Eric Sutton	3/1/23	Completed
3/3/23	17177	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Eric Sutton	3/1/23	Completed
3/3/23	17184	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		Eric Sutton	3/1/23	Completed
3/3/23	17189	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		Eric Sutton	3/1/23	Completed
3/3/23	17198	PS D - DPW Stormwater Pump Station	Generator Monthly test run		David Wilson	3/1/23	Completed

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
3/3/23	17238	PS Onan Trailer mounted generator	Montly operational test run		David Wilson	3/1/23	Completed
3/3/23	17225	Recirculation pump #1	Monthly Check Pump Couplings		David Wilson	3/1/23	Completed
3/3/23	17116	Influent Sluice Isolation Gate	Weekly operate through full range		David Wilson	3/1/23	Completed
3/3/23	17078	ATI Wet Hydrogen Sulfide Monitor Exhaust	System Maintenance		David Wilson	2/1/23	Completed
3/3/23	17052	Chlorine probe ATI	Change electrolyte		David Wilson	2/1/23	Completed
3/3/23	17053	Chlorine probe ATI	ATI, change membrane		David Wilson	2/1/23	Completed
3/3/23	17050	Chlorine probe ATI	Weekly calibration		Joe Basler	2/13/23	Completed
3/3/23	17051	Chlorine probe ATI	Weekly calibration		Joe Basler	2/27/23	Completed
3/6/23	17159	PS 1 Generator	PS #1 Generator Inspection and Load Test - Monthly		David Wilson	3/1/23	Completed
3/6/23	17170	PS 3 Generator	PS #3 Generator Inspection and Load Test - Monthly		David Wilson	3/1/23	Completed
3/6/23	17171	PS 4 Generator	PS #4 Generator Inspection and Load Test - Monthly		David Wilson	3/1/23	Completed
3/6/23	17182	PS 5 Generator	PS #5 Generator Inspection and Load Test - Monthly		David Wilson	3/1/23	Completed
3/6/23	17194	PS 6 Generator	PS #5 Generator Inspection and Load Test - Monthly		David Wilson	3/1/23	Completed
3/6/23	17183	PS 9 Generator	PS #9 Generator Inspection and Load Test - Monthly		David Wilson	3/1/23	Completed
3/6/23	17110	Generator #1- Emergency Kohler 750	Generator - Monthly Load Test	Dispatched To 6032936642	SEMS TABLET #2	3/5/23	Completed
3/6/23	17159	PS 1 Generator	PS #1 Generator Inspection and Load Test - Monthly		SEMS TABLET #2	3/1/23	Completed
3/6/23	17170	PS 3 Generator	PS #3 Generator Inspection and Load Test - Monthly		SEMS TABLET #2	3/1/23	Completed
3/6/23	17171	PS 4 Generator	PS #4 Generator Inspection and Load Test - Monthly		SEMS TABLET #2	3/1/23	Completed
3/6/23	17182	PS 5 Generator	PS #5 Generator Inspection and Load Test - Monthly		SEMS TABLET #2	3/1/23	Completed
3/6/23	17183	PS 9 Generator	PS #9 Generator Inspection and Load Test - Monthly		SEMS TABLET #2	3/1/23	Completed
3/6/23	17194	PS 6 Generator	PS #5 Generator Inspection and Load Test - Monthly		SEMS TABLET #2	3/1/23	Completed
3/6/23	17101	Portable Generator - Honda	Portable Generator Inspection - Monthly		SEMS TABLET #2	3/1/23	Completed
3/6/23	17233	Generators "All Pump Station"	Generator - Monthly Load Test		David Wilson	3/5/23	Completed
3/6/23	17202	PS Kholer Trailer Mounted Generator	Generator - Monthly Load Test		David Wilson	3/5/23	Completed
3/6/23	17202	PS Kholer Trailer Mounted Generator	Generator - Monthly Load Test		SEMS TABLET #2	3/5/23	Completed
3/6/23	17233	Generators "All Pump Station"	Generator - Monthly Load Test		SEMS TABLET #2	3/5/23	Completed

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
3/6/23	17101	Portable Generator - Honda	Portable Generator Inspection - Monthly		David Wilson	3/1/23	Completed
3/6/23	17243	ATI Wet Hydrogen Sulfide Monitor Exhaust	System Maintenance		David Wilson	3/1/23	Completed
3/7/23	17114	Fixed Gas Monitoring System	Quarterly Calibration Headworks room gas meters	Calibrated zero with zero cal gas. Span calibration completed with mixed cal gas. H2S and LEL calibration passed. O2 sensor still not repaired.	David Wilson	3/1/23	Completed
3/7/23	17121	Mechanical Screen & Washpress System	Monthly Maintenance	Cleaned flex rake and wash press. Inspected all components. Lubed all bearings.	David Wilson	3/6/23	Completed
3/7/23	17242	ATI Wet Hydrogen Sulfide Monitor Intake	System maintenace	Replaced prefilter. Inspected sensor. Calibrated zero. Calibrated H2S. Calibration passed.	David Wilson	3/1/23	Completed
3/7/23	17138	Wet Scrubber System	Clean and Calibration		David Wilson	3/1/23	Completed
3/7/23	17228	pH meter	Clean and Calibrate		David Wilson	3/1/23	Completed
3/7/23	17161	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/8/23	Completed
3/7/23	17166	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/8/23	Completed
3/7/23	17173	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/8/23	Completed
3/7/23	17173	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/8/23	Completed
3/7/23	17178	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/8/23	Completed
3/7/23	17178	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/8/23	Completed
3/7/23	17185	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/8/23	Completed
3/7/23	17190	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/8/23	Completed
3/9/23	17161	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		David Wilson	3/8/23	Completed
3/9/23	17166	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		David Wilson	3/8/23	Completed
3/9/23	17173	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		David Wilson	3/8/23	Completed
3/9/23	17178	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		David Wilson	3/8/23	Completed
3/9/23	17190	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		David Wilson	3/8/23	Completed
3/9/23	17185	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		David Wilson	3/8/23	Completed
3/9/23	17229	ORP meter	Clean and Calibrate		David Wilson	3/10/23	Completed
3/9/23	17149	Primary Sludge Pump 2	Monthly Check Pump Couplings		David Wilson	3/1/23	Completed
3/9/23	17148	Primary Sludge Pump 1	Monthly Check Pump Couplings		David Wilson	3/1/23	Completed
3/9/23	17140	RAS Pump 1	Monthly Check Pump Couplings		David Wilson	3/1/23	Completed
3/9/23	17141	RAS Pump 2	Monthly Check Pump Couplings		David Wilson	3/1/23	Completed
3/9/23	17142	RAS Pump 3	Monthly Check Pump Couplings		David Wilson	3/1/23	Completed
3/9/23	17143	RST Feed Pump 1	Monthly Check Pump Couplings		David Wilson	3/1/23	Completed

Status	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule	Status
Date 3/9/23	17144	RST Feed Pump 2	Monthly Check Pump Couplings	-	David Wilson	Date 3/1/23	Completed
3/9/23	17150	Sludge Transfer Pump 1	Monthly Check Pump Couplings		David Wilson	3/1/23	Completed
3/9/23	17151	Sludge Transfer Pump 2	Monthly Check Pump Couplings		David Wilson	3/1/23	Completed
		.	, , , , , , ,				
3/9/23	17115	Grit Screw Drive	Grit Screw Drive PM - Quarterly	Out of service.	David Wilson	3/10/23	Completed
3/9/23	16960	Secondary Clarifier 1	Clean Launder Screens - Quarterly	No screen in launder.	David Wilson	2/6/23	Completed
3/9/23	16961	Secondary Clarifier 2	Clean Launder Screens - Quarterly		David Wilson	2/6/23	Completed
3/9/23	17117	Influent Sluice Isolation Gate	Weekly operate through full range	100% open to 0. Verified alarm then set back to 15% open.	Eric Sutton	3/8/23	Completed
3/9/23	17234	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Luis Bello	3/5/23	Completed
3/9/23	17220	High level floats	Weekly High Float Alarm test		Luis Bello	3/5/23	Completed
3/10/23	17124	Influent Pump 1	Monthly Check Pump Couplings		David Wilson	3/1/23	Completed
3/10/23	17125	Influent Pump 2	Monthly Check Pump Couplings		David Wilson	3/1/23	Completed
3/10/23	17128	Influent Pump 3	Monthly Check Pump Couplings		David Wilson	3/1/23	Completed
3/10/23	17129	Influent Pump 4	Monthly Check Pump Couplings		David Wilson	3/1/23	Completed
3/10/23	17132	Influent Pump 5	Monthly Check Pump Couplings		David Wilson	3/1/23	Completed
3/10/23	17123	Influent Pump 1	Influent Pump #1 PM & Inspection - SEMI ANNUAL		David Wilson	3/6/23	Completed
3/10/23	17126	Influent Pump 2	Influent Pump #2 PM & Inspection - SEMI ANNUAL		David Wilson	3/6/23	Completed
3/10/23	17127	Influent Pump 3	Influent Pump #3 PM & Inspection - SEMI ANNUAL		David Wilson	3/6/23	Completed
3/10/23	17130	Influent Pump 4	Influent Pump #4 PM & Inspection -SEMI ANNUAL		David Wilson	3/6/23	Completed
3/10/23	17131	Influent Pump 5	Influent Pump #5 PM & Inspection - SEMI ANNUAL		David Wilson	3/6/23	Completed
3/10/23	17122	Influent Pumps	Semi Annual "Clean influent pumps 1, 2, 3, 4 and		David Wilson	3/6/23	Completed
3/10/23	17115	Grit Screw Drive	5 Air relieve valves" Grit Screw Drive PM - Quarterly		SEMS TABLET #2	3/10/23	Completed
3/10/23	17229	ORP meter	Clean and Calibrate		SEMS TABLET #2	3/10/23	Completed
3/10/23	17117	Influent Sluice Isolation Gate	Weekly operate through full range		SEMS TABLET #2	3/8/23	Completed
3/10/23	17122	Influent Pumps	Semi Annual "Clean influent pumps 1, 2, 3, 4 and 5 Air relieve valves"		SEMS TABLET #2	3/6/23	Completed
3/10/23	17123	Influent Pump 1	Influent Pump #1 PM & Inspection - SEMI ANNUAL			3/6/23	Completed
3/10/23	17124	Influent Pump 1	Monthly Check Pump Couplings			3/1/23	Completed
3/10/23	17125	Influent Pump 2	Monthly Check Pump Couplings			3/1/23	Completed
3/10/23	17126	Influent Pump 2	Influent Pump #2 PM & Inspection - SEMI ANNUAL			3/6/23	Completed

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
3/10/23	17127	Influent Pump 3	Influent Pump #3 PM & Inspection - SEMI ANNUAL			3/6/23	Completed
3/10/23	17128	Influent Pump 3	Monthly Check Pump Couplings			3/1/23	Completed
3/10/23	17129	Influent Pump 4	Monthly Check Pump Couplings			3/1/23	Completed
3/10/23	17130	Influent Pump 4	Influent Pump #4 PM & Inspection -SEMI ANNUAL			3/6/23	Completed
3/10/23	17131	Influent Pump 5	Influent Pump #5 PM & Inspection - SEMI ANNUAL			3/6/23	Completed
3/10/23	17132	Influent Pump 5	Monthly Check Pump Couplings			3/1/23	Completed
3/10/23	17220	High level floats	Weekly High Float Alarm test		SEMS TABLET #2	3/5/23	Completed
3/10/23	17234	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		SEMS TABLET #2	3/5/23	Completed
3/10/23	17234	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		SEMS TABLET #2	3/5/23	Completed
3/10/23	17140	RAS Pump 1	Monthly Check Pump Couplings		SEMS TABLET #2	3/1/23	Completed
3/10/23	17141	RAS Pump 2	Monthly Check Pump Couplings		SEMS TABLET #2	3/1/23	Completed
3/10/23	17142	RAS Pump 3	Monthly Check Pump Couplings		SEMS TABLET #2	3/1/23	Completed
3/10/23	17143	RST Feed Pump 1	Monthly Check Pump Couplings		SEMS TABLET #2	3/1/23	Completed
3/10/23	17143	RST Feed Pump 1	Monthly Check Pump Couplings		SEMS TABLET #2	3/1/23	Completed
3/10/23	17144	RST Feed Pump 2	Monthly Check Pump Couplings		SEMS TABLET #2	3/1/23	Completed
3/10/23	17148	Primary Sludge Pump 1	Monthly Check Pump Couplings		SEMS TABLET #2	3/1/23	Completed
3/10/23	17149	Primary Sludge Pump 2	Monthly Check Pump Couplings		SEMS TABLET #2	3/1/23	Completed
3/10/23	17150	Sludge Transfer Pump 1	Monthly Check Pump Couplings		SEMS TABLET #2	3/1/23	Completed
3/10/23	17151	Sludge Transfer Pump 2	Monthly Check Pump Couplings		SEMS TABLET #2	3/1/23	Completed
3/10/23	17200	GODWIN Portable Pump	Test Run Godwin Pump-Monthly		SEMS TABLET #2	3/1/23	Completed
3/13/23	17139	Wet Scrubber Fan	Scrubber Exhaust Fan PM - Monthly	LOTO of equipment. Removed belt guard. Inspected pulley hardware. Inspected belt tension. Inspected pillow block bearings. Greased pillow block bearings. Greased motor bearings. Inspected motor hardware. Reinstalled belt guard and returned to service. No unusual noises or vibration.	David Wilson	3/8/23	Completed
3/13/23	17167	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		Eric Sutton	3/15/23	Completed
3/13/23	17162	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		David Wilson	3/15/23	Completed
3/13/23	17174	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Eric Sutton	3/15/23	Completed
3/13/23	17179	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Eric Sutton	3/15/23	Completed
3/13/23	17191	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		David Wilson	3/15/23	Completed

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
3/13/23	17186	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		Eric Sutton	3/15/23	Completed
3/13/23	17139	Wet Scrubber Fan	Scrubber Exhaust Fan PM - Monthly		SEMS TABLET #2	3/8/23	Completed
3/13/23	17203	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		SEMS TABLET #2	3/13/23	Completed
3/13/23	17230	Generators "All Pump Station"	Generator Weekly - Test Run no load		SEMS TABLET #2	3/13/23	Completed
3/13/23	17162	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/15/23	Completed
3/13/23	17167	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/15/23	Completed
3/13/23	17174	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/15/23	Completed
3/13/23	17230	Generators "All Pump Station"	Generator Weekly - Test Run no load		Eric Sutton	3/13/23	Completed
3/13/23	17186	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/15/23	Completed
3/13/23	17179	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/15/23	Completed
3/13/23	17191	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/15/23	Completed
3/13/23	17136	Aeration Tank 3 Oxygen Probe	AT #3 DO Probe Clean and Calibrate - Monthly	Cleaned and inspected LDO probe tested calibration. Negative .6 mg/l offsett.	David Wilson	3/7/23	Completed
3/13/23	17135	Aeration Tank 1 Oxygen Probe	AT #1 DO Probe Clean and Calibrate - Monthly	Cleaned and inspected LDO	David Wilson	3/7/23	Completed
3/13/23	17135	Aeration Tank 1 Oxygen Probe	AT #1 DO Probe Clean and Calibrate - Monthly		SEMS TABLET #2	3/7/23	Completed
3/13/23	17136	Aeration Tank 3 Oxygen Probe	AT #3 DO Probe Clean and Calibrate - Monthly		SEMS TABLET #2	3/7/23	Completed
3/15/23	17137	Effluent Pumps	Effluent Pump - Monthly	High flow event all available pumps ran . Loss of effluent pump 4. High voltage onsite for troubleshooting.	SEMS TABLET #2	3/15/23	Completed
3/15/23	17118	Influent Sluice Isolation Gate	Weekly operate through full range	Tested prior to high flow event.	SEMS TABLET #2	3/15/23	Completed
3/15/23	17111	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load	Weekly test run completed. Run data recorded.	SEMS TABLET #2	3/13/23	Completed
3/15/23	17107	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		SEMS TABLET #2	3/13/23	Completed
3/15/23	17111	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		David Wilson	3/13/23	Completed
3/15/23	17137	Effluent Pumps	Effluent Pump - Monthly		David Wilson	3/15/23	Completed
3/15/23	17107	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		David Wilson	3/13/23	Completed
3/15/23	17595	PS Onan Trailer mounted generator	Quarterly Loaded test run		David Wilson	4/1/23	Completed
3/17/23	17235	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY	New vents needed on all equipment. GT1 needs new 3/8" sight glass.	David Wilson	3/12/23	Completed
3/17/23	17221	High level floats	Weekly High Float Alarm test		David Wilson	3/12/23	Completed
3/17/23	17118	Influent Sluice Isolation Gate	Weekly operate through full range		David Wilson	3/15/23	Completed
3/20/23	17215	Chlorine probe ATI	Weekly calibration		SEMS TABLET #2	3/13/23	Completed

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
3/20/23	17217	Chlorine probe ATI	Change electrolyte		SEMS TABLET #2	3/1/23	Completed
3/21/23	17112	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		David Wilson	3/20/23	Completed
3/21/23	17108	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		David Wilson	3/20/23	Completed
3/21/23	17204	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		Luis Bello	3/20/23	Completed
3/21/23	17180	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Luis Bello	3/22/23	Completed
3/21/23	17192	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		Luis Bello	3/22/23	Completed
3/21/23	17187	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		Luis Bello	3/22/23	Completed
3/21/23	17231	Generators "All Pump Station"	Generator Weekly - Test Run no load		Luis Bello	3/20/23	Completed
3/21/23	17163	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		Luis Bello	3/22/23	Completed
3/21/23	17603	RST Polymer feed pump	Clean and inspect pump	Isolated pump and removed for service. Disassembled pump and replaced check balls, sealing washers and springs. Replaced pump body. Replaced hoses.	David Wilson	3/21/23	Completed
3/22/23	17119	Influent Sluice Isolation Gate	Weekly operate through full range		Eric Sutton	3/22/23	Completed
3/22/23	17222	High level floats	Weekly High Float Alarm test		Luis Bello	3/19/23	Completed
3/22/23	17236	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Luis Bello	3/19/23	Completed
3/22/23	17175	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Luis Bello	3/22/23	Completed
3/22/23	17168	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		Luis Bello	3/22/23	Completed
3/23/23	17119	Influent Sluice Isolation Gate	Weekly operate through full range	LB exercised gate, verified alarm and set to 15% open.	SEMS TABLET #2	3/22/23	Completed
3/23/23	17163	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly	· ·	SEMS TABLET #2	3/22/23	Completed
3/23/23	17168	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/22/23	Completed
3/23/23	17175	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/22/23	Completed
3/23/23	17187	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/22/23	Completed
3/23/23	17180	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/22/23	Completed
3/23/23	17192	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/22/23	Completed
3/23/23	17108	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load	DW completed weekly inspection.	SEMS TABLET #2	3/20/23	Completed
3/23/23	17112	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load	DW- Completed weekly inspection.	SEMS TABLET #2	3/20/23	Completed
3/23/23	17204	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load	LB- Completed weekly inspections.	SEMS TABLET #2	3/20/23	Completed
3/23/23	17231	Generators "All Pump Station"	Generator Weekly - Test Run no load	LB- Completed weekly inspections.	SEMS TABLET #2	3/20/23	Completed

Preventa		aintenance					
Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
3/23/23	17222	High level floats	Weekly High Float Alarm test	LB- Completed weekly inspections.	SEMS TABLET #2	3/19/23	Completed
3/23/23	17236	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY	LB- Completed weekly inspections.	SEMS TABLET #2	3/19/23	Completed
3/23/23	17134	Aeration Blower 2	Aeration Blower #2 Air Filter Inspection - Monthly	DW- Inspected air filter element. Equipment offline. Did not require filter replacement.	SEMS TABLET #2	3/23/23	Completed
3/23/23	17133	Aeration Blower 1	Aeration Blower #1 Air Filter Inspection - monthly	DW- Inspected air filter element. Replaced with clean air filter element.	SEMS TABLET #2	3/28/23	Completed
3/23/23	17164	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/29/23	Completed
3/23/23	17169	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/29/23	Completed
3/23/23	17176	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/29/23	Completed
3/23/23	17181	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/29/23	Completed
3/23/23	17188	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/29/23	Completed
3/23/23	17193	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		SEMS TABLET #2	3/29/23	Completed
3/23/23	17134	Aeration Blower 2	Aeration Blower #2 Air Filter Inspection - Monthly	Air filter element inspected. Blower offline. Filter is dry and clean.	David Wilson	3/23/23	Completed
3/23/23	17147	Secondary Scum Pump 2	Pen Valley Double Disc pumps - Quarterly	LOTO of equipment. Removed guards. Inspected trundle bearings and seals. Inspected drive belt condition and deflection. Inspected pulleys and motor bearings. No issues found. Reinstalled gaurds.	David Wilson	3/9/23	Completed
3/23/23	17146	Secondary Scum Pump 1	Pen Valley Double Disc pumps - Quarterly	LOTO of equipment. Removed guards. Inspected trundle bearings and seals. Inspected drive belt condition and deflection. Inspected pulleys and motor bearings. No issues found. Reinstalled gaurds.	David Wilson	3/9/23	Completed
3/24/23	17223	High level floats	Weekly High Float Alarm test		Luis Bello	3/26/23	Completed
3/24/23	17215	Chlorine probe ATI	Weekly calibration		Joe Basler	3/13/23	Completed
3/24/23	17145	Primary Scum Pump	Pen Valley Double Disc pumps - Quarterly		Luis Bello	3/9/23	Completed
3/27/23	17205	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		Eric Sutton	3/27/23	Completed
3/27/23	17214	GasAlert Max XTII #2	monthly calibration		Luis Bello	3/30/23	Completed
3/27/23	17206	Ventis MX4 #2 - 4 Gas	4 Gas Meter #2 Calibration - Monthly		Luis Bello	3/30/23	Completed
3/27/23	17207	Ventis MX4 #3 - 4 Gas	4 Gas Meter #3 Calibration - Monthly		Luis Bello	3/30/23	Completed
3/27/23	17208	Ventis MX4 #4 - 4 Gas	4 Gas Meter #4 Calibration - Monthly		Luis Bello	3/30/23	Completed
3/27/23	17209	Ventis MX4 #5 - 4 Gas	4 Gas Meter #5 Calibration - Monthly		Luis Bello	3/30/23	Completed
3/27/23	17210	Ventis MX4 #6 - 4 Gas	4 Gas Meter #6 Calibration - Monthly		Luis Bello	3/30/23	Completed
3/27/23	17232	Generators "All Pump Station"	Generator Weekly - Test Run no load		Eric Sutton	3/27/23	Completed

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
3/28/23	17113	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		Luis Bello	3/27/23	Completed
3/28/23	17109	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		Luis Bello	3/27/23	Completed
3/28/23	17380	Meters - 4 Gas Confined Space #2	4 gas meter calibration - monthly		Luis Bello	4/1/23	Completed
3/28/23	17346	GasAlert Max XTII #1	4 gas meter calibration - monthly		Luis Bello	4/1/23	Completed
3/30/23	17237	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Luis Bello	3/26/23	Completed
3/30/23	17120	Influent Sluice Isolation Gate	Weekly operate through full range		Eric Sutton	3/29/23	Completed
3/30/23	17304	Primary Sludge Pump 2	Monthly Check Pump Couplings		Luis Bello	4/5/23	Completed
3/30/23	17303	Primary Sludge Pump 1	Monthly Check Pump Couplings		Luis Bello	4/5/23	Completed

			Time Status							
	FOR M.O.R. March 2023	Actual to date			Proj	ected for Final Estin	Budget	NOW=	4/27/2023	
Account		Budgeted Amount	Spent to Date	Delta	Projected costs and incl PO's	Final est	Delta	expended	Start	5/1/2020
08M-101A	Preventive Maint	\$227,514.68	\$109,585.92	\$117,928.76	\$0.00	\$109,585.92	\$117,928.76	48.2%	299.0%	250.9%
08M-102B	Capital and Major Repairs	\$140,000.00	\$182,349.81	(\$42,349.81)	\$10,737.00	\$193,086.81	(\$53,086.81)	130.2%	299.0%	168.8%
08M-103A	Major Sub Contractors	\$192,737.48	\$233,603.68	(\$40,866.20)	\$0.00	\$233,603.68	(\$40,866.20)	121.2%	299.0%	177.8%
blank										
	Asset Management	\$560,252.16	\$525,539.41	\$34,712.75	\$10,737.00	\$536,276.41	\$23,975.75	93.8%	299.0%	205.2%

085	D Street	\$7,500.00	\$8,391.00	(\$891.00)	\$0.00	\$8,391.00	(\$891.00)	111.9%	299.0%	187.2%
08C	Odor Control Chemicals	\$100,000.00	\$147,567.00	(\$47,567.00)	\$0.00	\$147,567.00	(\$47,567.00)	147.6%	299.0%	151.5%

Estimated total	
remaining 08M,	
08C	(\$23,591.25)

			Hull 2	022-2023 -	08M Projects,	Tasks, and Ne	eds - (AV)		
		Maintenance Account - Year 8 - 05_01_22 to 04_30_23							
	FOR March 2023 M.O.R.		-	1	\$10,737.00				
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead		
1	Mechanical Work Labor by O&M specialists	On Going		101A				── ──────────────────────────────────	
1	Pump and Motor Repairs/Replacements [invoiced and pcard]	On Going		101A				Various Suppliers for oil a	
1	Lubricants	On Going		101A				zero 1/3/23	
1	Generator Prev. Maintenance and Repairs	On Going		101A				Orig budget \$20,000. Ger issued; reduce by minor P to \$10,000 [12/19]. Edit to	
1	Fire Alarm Inspections and Service	On Going		101A				Semi Annual - Hart Secur annual services complete ZERO.	
2	Universal waste disposal	completed		101A				Placeholder - \$500 - Unlik disposal. Completed Dec	
1	Service the Forklift	completed		101A		\$231.00		Placeholder \$400 - Annua	
1	Overhead Hoist Inspection & repairs	completed		101A		\$1,666.52		Annual task - Applied Dyn actions, \$1500 left to do f	
1	Flow meter verification and calibration	completed		101A		\$1,175.00		Placeholder - Annual - Ra to be contacted. Early Nor	
1	Facility Building - Roof Inspection	completed		101A		\$2,800.00		\$2800 Annual Placeholde	
2	Jerome H2S Meter Inspection	Pending		101A				Placeholder if meter is set needed and if new meter	
1	Janitorial Supplies	On Going		101A				Orig budget \$3,000 - Estir <mark>1/3/23</mark>	
1	Manhole Inspections	Pending		101A				As required,and/or sched	
2	General mechanical and electrical items/supplies	On Going		101A				Grainger, FWWebb, EJP, progresses; adj 8/30; adju	
1	Thompson Pump repairs 6TS-244 [6A]	completed		101A				Rotating assembly failure repair. All bills to post by e	
2	Large Hoses & fittings	On Going		101A				Orig budget \$3,000. Rep NIR and Wolf Creek. ZER	
1	hypo room access/entry door	Pending		102B	\$10,737.00			D&C Quoted - waiting for confirmed with email to D	
3	Misc. Materials	on Going		101A				Hardware Store - \$200.00 9/20; adj 11/28. Adjust t	
	New Hach Spec Meter for chlorine	completed		101A				replace older/failing unit [[
1	Lab Equip Calibration	completed		101A				Annual service \$640	
1	RAS pumps - spare impeller	On Going		101A				4-6 week lead time ARO. 2022 piece is being made	
1 of 3 4/27,	Duperon Service Call (2023	completed		101A 2022	2_05_01_08M_Checkboo	\$2,500.00 <_YTD 041323 av (2)		Service done - Septembe	

4/27/2023 11:41

Comments

ւ. George, Faurnongan & we Support Stan - Total budget ֆ25,000, adjust Ռուրադիրցերում Դոր օրու բու ջնու ով ուրը, ով ուրը, որ դիրությունները հերադիսությունները Արադիսությունները հերադիսիները հերադիսիները հերադիսությունները il and grease. Budgeted \$2000. Cut placeholder \$\$ to \$900; Adjust to

eneral PM and CM Repair Work - **Placeholder** - New PO needs to be r PM costs/invoices paid 11/28 - reduce by \$3,500. Adj placeholder down t to zero 4/11.

curity [October & April, central station, & Service]budget \$3000. Semited in mid April. Adj 8/30; Oct Service completed. Adjust budget down to

likely to be used in year 8. Will use these funds for electronic waste ec 2023

nual cost - outside vendor. Completed June 2022

ynamics - Inspection Work - May 2022 \$1500 plus some corrective o for repairs [completed Aug 2022];

Ray Ferland or other 1 visit annually - Targeting June 2022. Vendor needs Nov targeted date. Nov. Service completed.

der - Established contract with Tecta America. Completed May 2022

sent out for calibration - \$1,100; Update Sept 2022 - meter evaluation er should be considered.

stimated annual expenditures - adjust 8/30; Adjust 10/31. Adjust to zero

eduled

P,Hoadley, mcMasterCarr, etc; orig budget \$20,000, adjust tdown as year djust in Sept to 5,000. Adjust 11/28 to \$3,000; Adjust t zero on 1/3/23

re - bearings, shft, mech seal parts & labor. Est labor \$6500. Seacoast y end of September

eplacements and/or Service - On-Going - As Needed; adj budget Sept. ERO out the budget 12/19/22

or updated quote with FRP door - Estimate \$6,500; updated estimate, D&C & HSD approval.

00 per month - reoccurring expense; budget \$2,400; Adjust 8/30; Adj t to zero 1/3/23

[DR700]; new unit purchased May 2022

Ordered July 2022; Waiting for updated delivery date. Confirmed Nov
Part not on site yet as of 4/18 - \$3,000 - will be an 09M cost.

ber 2022. Recommendations made.

08M Planned Costs

			Hull 2022-2023 - 08M Projects, Tasks, and Needs - (AV)								
			Maintenance Account - Year 8 - 05_01_22 to 04_30_23								
	FOR March 2023 M.O.R.			1	\$10,737.00						
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead				
2	6" plug valves [4]	completed		101A	remaining	\$3,713.40		RAS pump #3 discharge & 2022. GT1 outlet valve re access.			
1	Duperon Service Call - Additional needs	completed		102B				Issued PO 105426 - \$8,26			
2	New Magnetic flow meters for RAS and WAS	Pending		102B				hardware - does not includ Remove from planned pro			
2	yard hydrants - installation	completed		102B				sub-contractor labor - pen Completed Dec 2022 inclu			
1	Mech seals for new PS4 pumps & barrier tanks	completed		102B		\$10,068.55		Items ordered after approv			
1	Pump Station #4 -New Pumps install	completed		102B		\$12,237.61		by D & C. Late June 202			
1	Effluent Pump #3 - repairs	completed		102B		\$26,840.20		pump has been returned t			
3	Sanitaire hardware purchase for aer tk 1	Pending		102B				Purchase more hardware			
1	D&C plant water and potable water system repairs, upgrades various. Replace 6" potable water valve in basement and misc. valves	completed		102B		\$43,499.70		Also check/replace 1 1/4 v etc. T&M. Estimate \$43,0			
2	new effluent P1 - Flowserve	completed		102B				Update 2/8 to AquaSolut delivered in late Septem			
2	Pump Station #3 - spare rotating, assy, or pump	Pending		102B				TBD- estimates being obta			
3	New 4-inch valves for pri building between the tanks Installation	Pending		102B				Valves - cost: \$3000, sub			
3	Odor log data loggers & calibr kit	Pending		102B				Current units obsolete and remove the \$6,000 on 2/6,			
3	Jerome meter replacement	Pending		102B				replace unit, if done \$11,0			
3	Gravity Thickener #1 sandblasting/painting	Pending		102B				Estimate \$50,000+ - would			
2	Duperon Sumitomo Gear boxes	completed		102B		\$8,500.00		one spare gear box for fle in late August 2022. Wait			
1	Grit classifier system parts	On Going		102B				waiting for wear shoes - 2022. Plan for additiona by various vendors incl			
2 of 3 4/27,	Plant Water System [Pump and/or parts] (2023	On Going		102B 2022	2_05_01_08M_Checkboo	<_YTD 041323 av (2)		consider spare motor or co			

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Comments

e & other. Pratt plug valves -Qty 4. ordered May 2022; received Aug repaired and install flush connection. Difficult to remove due to limited

,269; work completed late Nov 2022.

clude installation [estimate for Equip - \$8,500] May or may not occur. projects for 08M.

ending; Have materials on hand. Spring 2022. Targeting Nov 2022. Including conduit trench from Sec building to CCT.

roval. Installed & in service Aug 2022.

022 - revised estimated installation cost. Work completed July 2022.

d to facility

re ??

4 valves as needed - Requires a water shutdown, other drainage piping, 3,000

lutions - purchase of new spare effluent pump #1 - 60HP pump ember. Cost encumbered in 07M. Pump received and paid for 07M.

btained

sub-contracted labor - either WC or outside co.\$5,000 - totl estim \$8,000

and not supported by company, possibly look at under 05C if funds avail; 2/6/20 - 06C or 06M

1,000; evaluating options

ould need to go out for competitive bid request

flex rake and wash compactor [Delte Elec] ordered June 2022. Received aiting for invoicing. On Purchase order.

s - charge is to 07M - estim \$3500. Wear shoe Items received July nal tail shaft assy and housing & bushings. Pricing out items/costs cl Mfr. Edit to zero 4/11. \$4,500 cost - will look at for early in 09M.

r complete unit. Under review/hold [est \$6,000].

08M Planned Costs

			Hull 20)22-2023 - (08M Projects,	Tasks, and No	eeds - (AV)	
			Maint	enance Ac	count - Year 8	- 05_01_22 to	04_30_23	
Detection	FOR March 2023 M.O.R.		Т		\$10,737.00	First Oran Later		
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	
1	Replacement Pumps LS A [see notes]	completed		102B		\$9,749.96		Repair of rotating assemb
1	Electrical Work	On Going		103A				Orig budget \$25,000. Ele Sept 20th. Adjust for addit
1	SCADA Work	On Going		103A				Steve Rose and the SCA subscr to \$14k; Reduce p
1	E-One Repairs and Replacement	On Going		103A				Orig budget: \$38,000. Ba replacement pumps; contr
1	Automatic Transfer Switch inspection and servicing	completed		101A		\$1,800.00		\$2400 - Annual Service pl
1	Wetwell Inspections and Cleaning - Plant/Pump Stations	On Going		103A				As required, plant or pump
1	Sewer Line Cleaning - Emergencies, pump & haul	On Going		103A				Placeholder - As required or other, collection system
1	Collection System and plant - emerg & unplanned calls - Jetting & CCTV work - various contractors	On Going		103A				Budget - 15,000, 8/30 - re
1	Effluent Composite sampler	On Going		102B				Replace "tired" effluent co \$9760
3	Pump Station #5 jet lines to wetwell and WW cleaning	completed		103A				included with wetwell/colle
3	SHT1 - demo of equip, air piping & diffuser install/materials	Pending		103A				demo concrete in tank - \$ equip \$6,000; air piping to project ?
4	Generators - Load Bank Testing Plant & Pump Stations	Pending		103A				Look at under 08M or 09M
1	Rosano Davis Pump & Haul PS9	completed		103A		\$28,800.00		for FM inspection
1	EESCO MCC work at the Pump Stations	Pending		103A				TBD 2 days - request for o
3	Low pressure sewer valve box insp & mtce	Pending		103A				placeholder for contracto another contractor & W&C
1	Est grit screw installation	Pending		102B				\$\$40,000 placeholder ins
1	Est Grit screw purchase	On Going		102B				placeholder hardware pur
1	AUMA actuator repairs & service	completed		101A				PO# 105407 - issued for s
	HDWK fiberglass slide gate[s]	Pending		101A				Soliciting estimates for at
1	SC #2 Structural Steel Repairs	completed		103A				Based on T&M - center su
	TOTAL				\$10,737.00			
3 of 3 4/27	/2023			2022	05_01_08M_Checkboo	k YTD 041323 av (2)		

2022_05_01_08M_Checkbook_YTD 041323 av (2)

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Comments

mbly - at IPS shop. Returned in September 2022.

Electricians: Glen Fellows, HiVoltage, or other; adjust 8/30; adjust budget ldit exp 9/28; adj down on 11/28. Adjust to ZERO on 12/19/22.

CADA Support Team; budget \$20,000; Adj for cyber security protection placeholder budget to \$7,000. Edit to zero 4/11.

Based on historica/recent costs. E1 repairs where cost-effective & new ntrol panels, other equip; Adjust 8/30. Adj 9/28 to Zero.

planned for NETS - Transfer Switch; Work comleted July 2022

mp stations; orig budget \$8,000; Update acct 9/28; edit to zero 4/11

ed for various sub-contractors; could be Hoadley, Truax, WindRiver, BMC, em & plant; **budget \$10,000** Update acct 9/28; edit to zero 4/11

reduce budget due to recent work; Update acct 9/28; edit to zero 4/11

composite sampler. Waiting for PO to be issued. PO issued Dec 2022 for

ollection system work

\$15,000 - sub-contractor and installation of new equip -additional new to the tank \$10,000; Total estimate: \$31k to 35K ??. Maybe year 09M

9M - recently done under 06M.

or quotation. Site visit done 10/27 by EESCO & waiting for proposal.

storor O&M inspections and potential repairs; Looking at Rosano-Davis or &C to investigate; budget of \$7,500 on hold

installation - TBD year 8 or year 9 - Remove 4/11

urchase. PO issued Oct 2022 \$48,122

or service call and 2 motors. \$4,000

at least one new slide gate. Placeholder [Jan 2023] \$7,000. Move to 09M.

supports, scrapers, other - IPC Lydon. Invoice pending