





1111 Nantasket Avenue Hull, MA 02045

woodardcurran.com

HULL, MA WATER POLLUTION CONTROL FACILITY

OCTOBER 2023

MONTHLY
OPERATING
REPORT



0217319.00 **Town of Hull, MA**

Permit No. MAG590037



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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 October 2023.

- No lost-time incidents for the month of October.
- There were 157 effluent samples taken in October.
- There were no after-hours alarm calls that required a response by W&C staff.
- The Asset Management Accounts summaries for contract year #9 is attached- the latest revision date is 10/7/2023.
- There was one call from a resident for an E-One grinder pump issue.
- 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 sampling the influent.

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 12/7/2023



1. FLOWS AND LOADING



1.1 Average Daily Flows and Loadings – October 2023

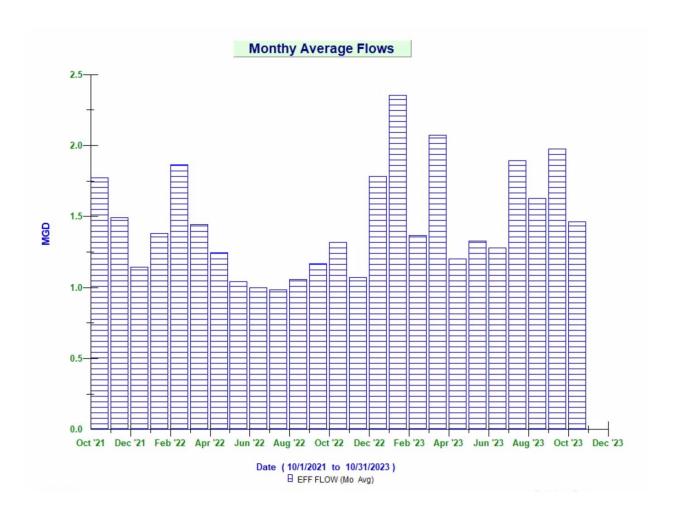
| Month / Year | Eff Flow | Inf Flow | Inf BOD | Inf TSS | Eff BOD | EFF TSS |
|---------------|----------|----------|----------|----------|---------|---------|
| Wolldi / Tear | MGD | MDG | LBS | LBS | LBS | LBS |
| Oct '21 | 1.77 | 1.75 | 3,216.53 | 5,865.58 | 80.03 | 186.27 |
| Oct '22 | 1.32 | 1.65 | 1,243.39 | 2,242.98 | 42.79 | 142.74 |
| Oct '23 | 1.46 | 1.60 | 1,169.94 | 4,246.74 | 96.10 | 179.55 |

^{*} 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

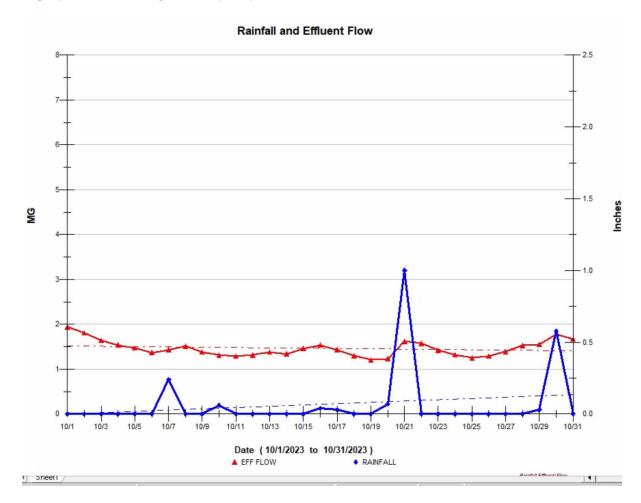
The monthly average flow for October was 1.46 MGD, a bit more than the 1.37 MGD in September. The total precipitation for October was 2.05 inches, very well less than September's 6.48 inches, yet it had no impact on the plant's process conditions. The graph below shows the 2-plus year summary of the 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].

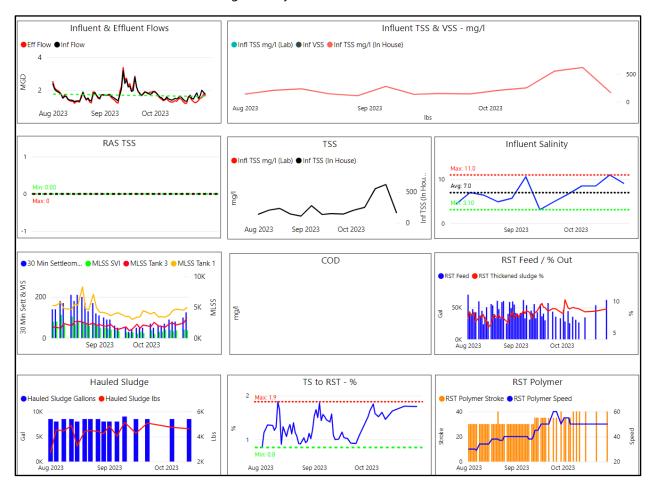




2. COMPLIANCE

2.1 Plant Effluent

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





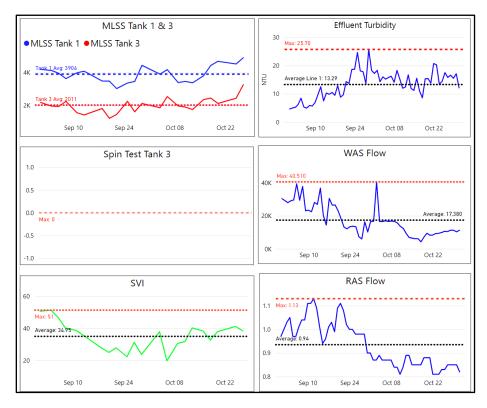
2.2 Secondary Processes

Below are Process Summary Graphs produced on the Power BI dashboard illustrating trends over a 2-month period ending on 10-31-2023.





Secondary Processes continued...







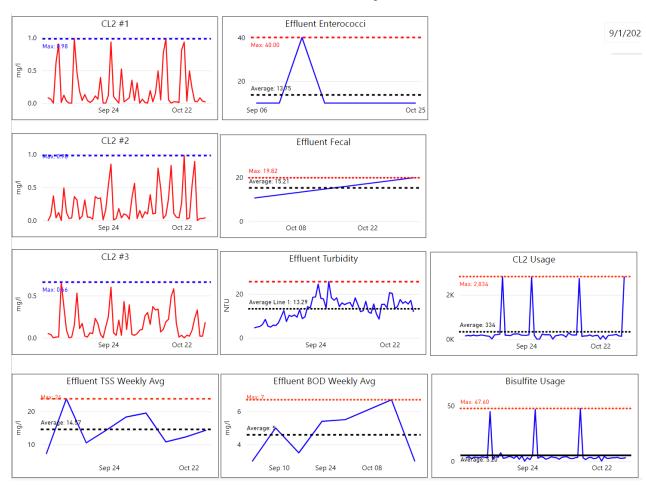
2.3 Permit Compliance

There were 152 effluent samples taken in the month of October. A table summarizing the results of these samples is shown below. The quality of effluent was satisfactory, and turbidity (NTU) levels were normal.

| | | | | Perr | nit Comp | oliance | | | | | | |
|--------------|----------------------|----------|---------------------|-----------|-------------------|--------------------|-----------|---------------|---------------|---------------|-----------------|-------------------|
| | Parameter Info | | 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 Violation |
| Eff TSS | 104/999081 | MG/L | 50 | | 45 | 30 | 1 X Week | 14.4 | 10.8 | 19.5 | 5 | 0 |
| EffTSS | 184 | LBS | | | 1152 | 768 | 1 X Week | 179.5 | 118.0 | 266.7 | 5 | 0 |
| % TSS Rem | 208 | % | | 85 | | | 1 X Month | × | 96.0 | 8 | 1 | 0 |
| Eff BOD | 108 | MG/L | 50 | | 45 | 30 | 1 X Week | 5.5 | 3.0 | 6.9 | 5 | 0 |
| Eff BOD | 185 | LBS | | | 1152 | 768 | 1 X Week | 96.1 | 96.1 | 96.1 | 1 | 0 |
| % BOD Rem | 207 | % | | 85 | | | 1 X Month | | 95.9 | | 1 | 0 |
| Eff Chlorine | 142 | MG/L | 1 | | | 0.7 | 3 X Day | 0.21 | 0.02 | 0.64 | 93 | 0 |
| Eff Fecal | 111 | #/100 ML | 260 | | | 88 | 1 X Week | 26.5 | 10.0 | 90.0 | 13 | 0 |
| Eff pH | 136 | SU | 8.5 | 6.5 | | | 1X Daily | 6.9 | 6.5 | 7.2 | 31 | 0 |
| Enterococci | 255 | #/100 ML | 276 | | | 35 | 1 X Week | 10 | 10 | 10 | 4 | 0 |
| | | | | | | | | | Tot | tals | 157 | 0 |



Effluent Quality



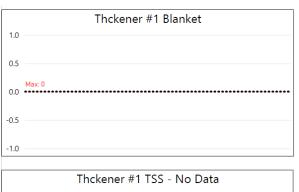


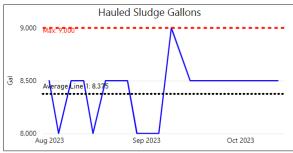
2.4 Solids Handling & Odor Control

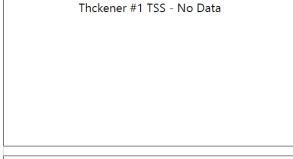
Sewage Gallons Treated vs Sludge Disposed

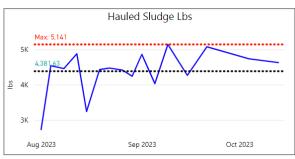
| Month | Effluent Treated, MG | Sludge Disposed, Gals |
|----------|----------------------|--------------------------|
| Oct 2021 | 54.9 | 68,500 |
| Oct 2022 | 40.9 | 17,000 |
| Oct 2023 | 45.2 | 17,000 |

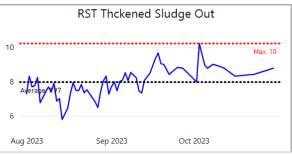
Graphs illustrating sludge/solids handling parameters over a 3-month period (ending 03-31-2022) generated by Power BI are shown below.

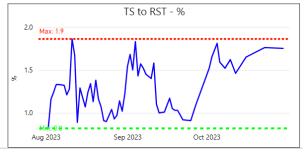








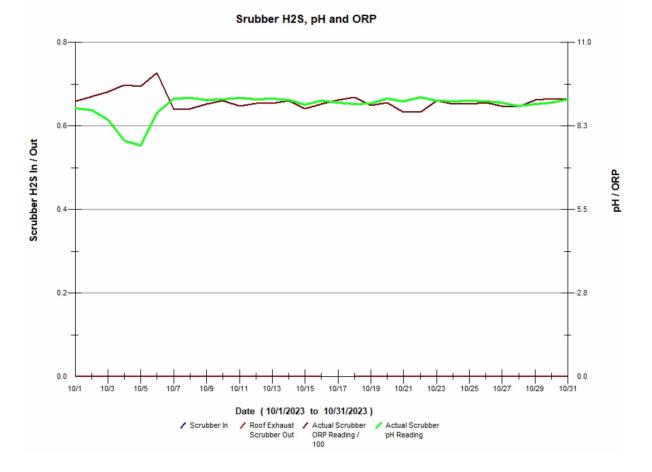






The Bioxide system was on, but the feed rates were minimal, as normal seasonal temperatures were cooler. Monthly graphs are attached below, and the daily average Bioxide use for October was about 110 gallons per day.

- The "In-Pipe" bacteria containers in the collection system manholes were changed out on October 10th and 26th.
- <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:



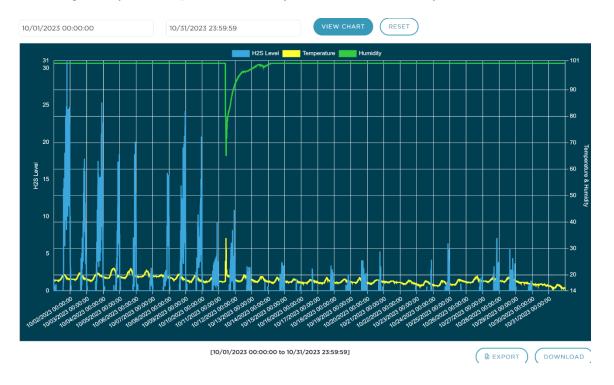


The odor data logging unit at XYZ monitoring locations, recording the overall H_2S levels close to the plant, are shown in the graph below. During the month of October there was normal H2S detected at this monitoring location.



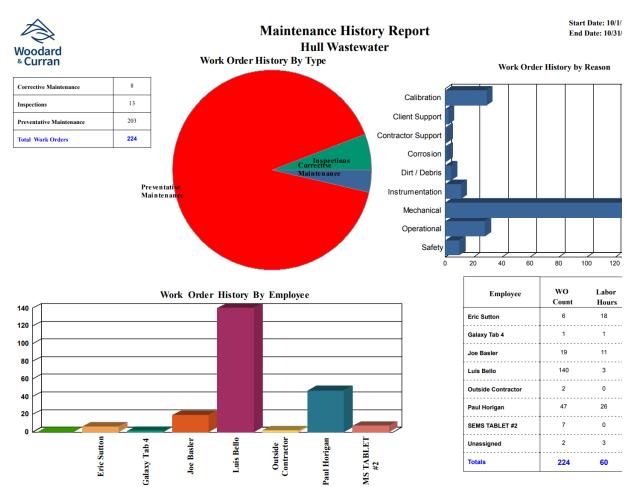


Pump station #3 - H_2S is monitored at the end of the force main in the manhole at Nantasket Ave & Water Street. Bioxide is added to allow excess nitrate in the sewage system to treat the additional H_2S from other parts the system – such as PS #4, contributions from lines feeding the interceptor - PS #5, PS #6, PS #9, Spinnaker Island, etc., all the way to the wastewater plant. H_2S levels through October were minimal with generally mild temps for Fall, and adjustments for substantially less Bioxide feed were made.





3. MAINTENANCE SUMMARY



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

3.1 Maintenance Summary

- On October 5 Hi-Voltage Electric evaluated all the pump stations for any electrical deficiencies
 or issues of concern. A report of all their findings was submitted citing all issues found and the
 priority of the repairs.
- A new pump head was required on the Watson-Marlow peristaltic pump for the hypochlorite going to the H2S odor scrubber. The scrubber system combines sodium hypochlorite (NaOCL) with sodium hydroxide (NaOH) to minimize odors at the plant. The scrubber system was seen to not be performing well and upon investigating W&C staff noted the hypochlorite pump not functioning properly.
- South Shore Generator (SSG) was out to LS A on Valley Beach Rd.as the emergency generator would not start. It was determined to be a fuel delivery issue and new fuel lines & seals were installed. It was recommended to W&C staff to allow the generator engine to run longer during its weekly No Load running to use up more of the diesel fuel. Diesel deteriorates over time,



- and we can add more fuel to freshen up the tanks. All the other pumps station generators about town have been previously converted to run on natural gas.
- Lydon Millwrights were onsite Oct. 11 for the bi-annual inspection of Secondary Clarifier #1. The tank was drained empty and cleaned out for the Lydon crew's inspection. No issues were found, and the tank is again ready for duty.
- On Oct. 1 Chlorine Contact Chamber (CCC) #1, there are two such chambers, was cleaned out as some floating sludge was seen in the channel and there can be a scum build up on the tank sidewalls. The CCC tank was isolated from any effluent flow and drained empty, the chamber is then hosed out clean of all debris.
- Weston & Sampson was contracted to address the low-pressure system areas of the collection system on Oct 16-17. The Rockview Ave, N. Truro Rd, and the Straights Pond areas where the houses have EOne grinder pumps which use such low-pressure lines. Most of that area's manholes had not been opened in years, and many had bolt down covers that needed cutting and or hammer drilling to be opened. With the manholes open any standing water was pumped out and the line valves were exercised.

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 10/12/23.



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.

- There were no lost time incidents reported for October.
- 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.
- W&C's Pure Safety topic for October was Bloodborne Pathogens.
- W&C's monthly safety inspection checklist for the plant and stations was completed.
- The staff's monthly SPARKS safety meeting was held on October 26th, including a look at W&C's monthly "Lessons Learned!"- which is a review of all safety related incidents occurring at other W&C projects.



5. STAFF DEVELOPMENT

5.1 Training

Training is an important part of any operation to ensure that 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 module. The staff's monthly SPARKS safety meeting was held on October 26. Topics discussed were forklift operation, sitework trenching, and guarding floor & wall openings on the jobsite. Staff also reviewed the "nearmiss" incidents occurring at all W&C projects during the month of September in "Lessons Learned!"
- Ben P. & Clyde L. went to the Plymouth WWTP on Oct 18 for Hazzard Awareness & Confined Space Entry (CSE) training.
- On Oct 30 & 31, Mike S., Eric S, and Luis B. all took W&C required First AID, CPR, & AED training with Joan Tayerna at the Town Hall.

5.2 Staffing Updates

- Plant continues 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, Clyde L, and Ben P.
- O&M Specialists Paul Horigan and Jody St George continue to assist as needed with plant O&M projects as needed.



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.

Table Key:

"X" - Pump Station Cleaned

Pump Station Inspected

— – See notes for additional information

blank – No Work Performed

| Month | Pump Station | | | | | | | | |
|----------------|--------------|---|---|---|---|---|---|---|--|
| WOTH | Α | 1 | 3 | 4 | 5 | 6 | 9 | D | |
| May 2023 | | | | | | | | | |
| June 2023 | | | | | | | | | |
| July 2023 | | | | | | | | | |
| August 2023 | | | | | | | | | |
| September 2023 | | | | | | | | | |
| October 2023 | | | | | | | | | |
| November 2023 | | | | | | | | | |
| December 2023 | | | | | | | | | |
| January 2024 | | | | | | | | | |
| February 2024 | | | | | | | | | |
| March 2024 | | | | | | | | | |
| April 2024 | | | | | | | | | |

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 October 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 October. 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 was one call for E-One Grinder pump service on October 25. Upon investigation W&C staff found that the circuit breaker for the pump was off-and not tripped! The homeowner offered no explanation of why it was turned off.
- There was one sewer backup call on October 4th from a resident at 636 Nantasket Avenue. An investigation by a plumber revealed tree roots had infiltrated the lateral.
- There was one odor complaint called in from the homeowners at 97 Nantasket Avenue on October 5th- no source of odor was found to be evident. However, the parents own the home next door #95 Nantasket Ave, and W&C staff noticed a spongy depression in that front yard, which was tentatively from a leaking potable water supply line. Wier river Water was called to further address the matter.
- 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 October- 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- October Updates:

- Phase 1 construction work in the operations building is fully complete.
- Phase 2 Influent upgrade contractor Barletta Heavy Division and other subcontractors are onsite regularly.
- Plant Manager Mike S. and Assistant Plant Manager Joe B. are meeting weekly with John S. and Tom M. 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 |
|------------------|----------|-------------------|--------------|--------------|
| 10/12/2023 13:37 | | 5 ARTHUR ST | Hull Parcels | Sutton, Eric |
| 10/16/2023 9:33 | | 3 JAMES AVE | Hull Parcels | Sutton, Eric |
| 10/20/2023 13:24 | | 948 NANTASKET AVE | Hull Parcels | Sutton, Eric |
| 10/20/2023 13:22 | | 28 S STREET | Hull Parcels | Sutton, Eric |
| 10/20/2023 13:19 | 13-069 | 35 R STREET | Hull Parcels | Sutton, Eric |
| 10/3/2023 8:31 | | 49 P STREET | Hull Parcels | Sutton, Eric |
| 10/27/2023 11:28 | 16-015 | 37 CADISH AVE | Hull Parcels | Sutton, Eric |
| 10/27/2023 11:24 | 16-077 | 36 CADISH AVE | Hull Parcels | Sutton, Eric |
| 10/12/2023 9:23 | 16-187 | 40 CENTRAL AVE | Hull Parcels | Sutton, Eric |
| 10/14/2023 7:21 | 19-011 | 5 WESTON STREET | Hull Parcels | Sutton, Eric |
| 10/5/2023 9:49 | 19-049 | 23 LEWIS STREET | Hull Parcels | Sutton, Eric |
| 10/27/2023 13:05 | 19-089 | 191 A SAMOSET AVE | Hull Parcels | Sutton, Eric |
| 10/4/2023 14:39 | 19-112 | 636 NANTASKET AVE | Hull Parcels | Sutton, Eric |
| 10/12/2023 9:14 | 20-088 | 2 MAPLE ST | Hull Parcels | Sutton, Eric |
| 10/12/2023 13:55 | 21-059 | 110 MANOMET AVE | Hull Parcels | Sutton, Eric |
| 10/10/2023 11:26 | 21-104 | 141 SAMOSET AVE | Hull Parcels | Sutton, Eric |
| 10/9/2023 13:23 | 22-159 | 87 LYNN AVE | Hull Parcels | Sutton, Eric |
| 10/9/2023 13:20 | 23-032 | 178 KINGSLEY RD | Hull Parcels | Sutton, Eric |
| 10/9/2023 13:21 | 23-065 | 113 SAMOSET AVE | Hull Parcels | Sutton, Eric |
| 10/12/2023 13:45 | 23-106 | 110 SAMOSET AVE | Hull Parcels | Sutton, Eric |
| 10/27/2023 14:00 | 24-078 | 81 WARFIELD AVE | Hull Parcels | Sutton, Eric |
| 10/16/2023 9:46 | 25-083 | 51 BEACH AVE | Hull Parcels | Sutton, Eric |
| 10/9/2023 13:25 | 26-055 | 27 RUSSELL ST | Hull Parcels | Sutton, Eric |
| 10/3/2023 9:01 | 26-056 | 29 RUSSELL ST | Hull Parcels | Sutton, Eric |
| 10/3/2023 9:07 | 26-056 | 29 RUSSELL ST | Hull Parcels | Sutton, Eric |
| 10/12/2023 13:59 | 26-103 | 38 REVERE ST | Hull Parcels | Sutton, Eric |
| 10/16/2023 9:37 | 27-017 | 17 MANOMET AVE | Hull Parcels | Sutton, Eric |
| 10/20/2023 13:11 | 28-090 | 25 KINGSLEY RD | Hull Parcels | Sutton, Eric |
| 10/10/2023 11:40 | 30-012 | 111 EDGEWATER RD | Hull Parcels | Sutton, Eric |
| 10/20/2023 12:53 | 32-060 | 0 CLIFTON AVE | Hull Parcels | Sutton, Eric |
| 10/25/2023 11:54 | 34-027 | 16 HILLSIDE RD | Hull Parcels | Sutton, Eric |
| 10/9/2023 13:18 | 36-017 | 47 BAY STREET | Hull Parcels | Sutton, Eric |
| 10/20/2023 14:59 | 36-141 | 8 ANDREW RD | Hull Parcels | Sutton, Eric |
| 10/12/2023 9:16 | 37-010 | 184 NANTASKET AVE | Hull Parcels | Sutton, Eric |
| 10/27/2023 11:30 | 39-003 | 97 NANTASKET AVE | Hull Parcels | Sutton, Eric |
| 10/16/2023 9:59 | 48-013-A | 23 MIDLEDGE AVE | Hull Parcels | Sutton, Eric |
| 10/25/2023 17:41 | 49-030 | 5 POND STREET | Hull Parcels | Sutton, Eric |
| 10/5/2023 12:41 | 51-105 | 214 ATLANTIC AVE | Hull Parcels | Sutton, Eric |
| 10/19/2023 15:12 | 51-109 | 5 SEA VIEW AVE | Hull Parcels | Sutton, Eric |
| 10/3/2023 13:22 | 52-033 | 25 A GUN ROCK AVE | Hull Parcels | Sutton, Eric |
| 10/9/2023 13:16 | 52-042 | 145 ATLANTIC AVE | Hull Parcels | Sutton, Eric |
| 10/9/2023 13:15 | 54-010 | 25 REEF POINT | Hull Parcels | Sutton, Eric |
| 10/25/2023 13:21 | 54-027 | 42 SUMMIT AVE | Hull Parcels | Sutton, Eric |
| | | | | |

| 10/10/2023 14:55 Bacteria UNIT #21 | UNIT #21 | Hull In Pipe Bacteria Unit | Sutton, Eric |
|------------------------------------|------------|----------------------------|--------------|
| 10/10/2023 14:53 Bacteria UNIT #22 | UNIT #22 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 15:07 Bateria UNIT # 8 | UNIT # 8 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 15:11 Bateria UNIT #1 | UNIT #1 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 15:07 Bateria UNIT #10 | UNIT #10 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 14:57 Bateria UNIT #11 | UNIT #11 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 14:53 Bateria UNIT #12 | UNIT #12 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 14:54 Bateria UNIT #13 | UNIT #13 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 14:54 Bateria UNIT #14 | UNIT #14 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 14:55 Bateria UNIT #15 | UNIT #15 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 14:56 Bateria UNIT #16 | UNIT #16 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 15:00 Bateria UNIT #17 | UNIT #17 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 14:58 Bateria UNIT #18 | UNIT #18 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 14:57 Bateria UNIT #19 | UNIT #19 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 15:10 Bateria UNIT #2 | UNIT #2 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 15:10 Bateria UNIT #2 | UNIT #2 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 15:11 Bateria UNIT #2 | UNIT #2 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 14:56 Bateria UNIT #20 | UNIT #20 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 14:53 Bateria UNIT #23 | UNIT #23 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 15:09 Bateria UNIT #24 | UNIT #24 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 14:58 Bateria UNIT #3 | UNIT #3 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 15:09 Bateria UNIT #4 | UNIT #4 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 15:08 Bateria UNIT #5 | UNIT #5 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 15:09 Bateria UNIT #6 | UNIT #6 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 15:08 Bateria UNIT #7 | UNIT #7 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/10/2023 14:52 Bateria UNIT #9 | UNIT #9 | Hull In Pipe Bacteria Unit | Sutton, Eric |
| 10/3/2023 11:03 MH-20299 | SEMS_Asset | Sanitary Manhole | Sutton, Eric |
| 10/27/2023 9:24 MH-20414 | SEMS_Asset | Sanitary Manhole | Sutton, Eric |
| 10/25/2023 11:56 MH-20709 | SEMS_Asset | Sanitary Manhole | Sutton, Eric |
| 10/17/2023 14:27 MH-20832 | SEMS_Asset | Sanitary Manhole | Sutton, Eric |
| 10/27/2023 13:23 MH-20907 | SEMS_Asset | Sanitary Manhole | Sutton, Eric |
| | | | |

| Workflow Class | View |
|---------------------|-------------|
| Hull - Markout | <u>View</u> |
| Hull - Markout | View |
| Hull - Markout | View |
| Hull - Markout | <u>View</u> |
| Hull - Markout | View |
| Hull - Markout | <u>View</u> |
| Hull - Markout | View |
| Hull - Markout | <u>View</u> |
| Hull - Sewer Backup | <u>View</u> |
| Hull - Markout | <u>View</u> |
| Hull - Markout | <u>View</u> |
| Hull - Markout | <u>View</u> |
| Hull - Sewer Backup | <u>View</u> |
| Hull - Markout | <u>View</u> |
| Hull - Sewer Backup | <u>View</u> |
| Hull - Markout | <u>View</u> |
| Hull - Markout | <u>View</u> |
| Hull - Markout | <u>View</u> |
| Hull - Sewer Backup | <u>View</u> |
| Hull - Markout | View |
| Hull - Markout | <u>View</u> |

| Hull - In Pipe Bacteria Units | <u>View</u> |
|-------------------------------|-------------|
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | View |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | View |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| Hull - In Pipe Bacteria Units | <u>View</u> |
| MH Frame & Cover Inspection | <u>View</u> |
| MH Frame & Cover Inspection | View |
| MH Frame & Cover Inspection | <u>View</u> |
| Generic WO | <u>View</u> |
| Generic WO | <u>View</u> |
| | |



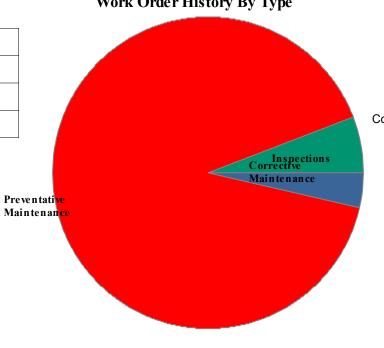
Maintenance History Report Hull Wastewater

Start Date: 10/1/2023

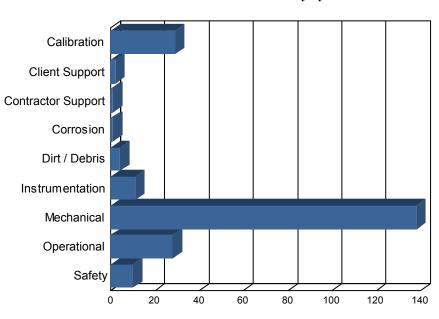
End Date: 10/31/2023

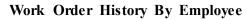
Work Order History By Type

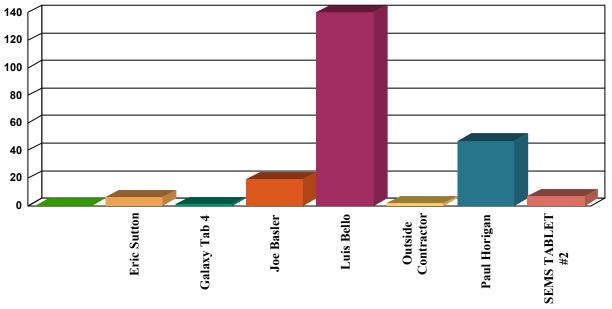




Work Order History by Reason







| Employee | WO Count | Labor Hours |
|--------------------|-------------|----------------|
| Eric Sutton | 6 | 18 |
| Galaxy Tab 4 | 1 | 1 |
| Joe Basler | 19 | 11 |
| Luis Bello | 140 | 3 |
| Outside Contractor | 2 | 0 |
| Paul Horigan | 47 | 26 |
| SEMS TABLET #2 | 7 | 0 |
| Unassigned | 2 | 3 |
| Totals | 224 | 60 |

Corrective Maintenance

| Status <u>Date</u> | WO# | Asset Name | Work Description | Work History Note | Employee | Schedule Date | Status |
|-----------------------|-------|--|--|---|--------------|------------------|-----------|
| 10/3/23 | 18636 | 30 - WW Treatment Plant - | Influent pump room | Clyde/ Eric hosed and puddle pumped influent pump | Eric Sutton | 10/3/23 | Completed |
| | | General | | room | | | |
| 10/5/23 | 18637 | Caustic System | Foam in sight glass & pump leaking. | Drained and rinsed sight glass & replaced pump head on caustic pump. | | 10/5/23 | Completed |
| 10/11/23 | 18638 | Secondary Clarifiers | Replaced broken water supply connection | Went hardware store bought supplies | | 10/11/23 | Completed |
| 10/18/23 | 18641 | PS Kholer Trailer Mounted Generator | Will not run | Replace fuel filter, clean check valve in fuel line near | Paul Horigan | 10/18/23 | Completed |
| 10/18/23 | 18639 | 22 - WW - sewers/pipes/force mains | W/C , weston sampson on site Inspection of low pressure force main, exercise valves | Opened 16 MHs inspected, exercise d valves | Eric Sutton | 10/18/23 | Completed |
| 10/19/23 | 18640 | 22 - WW - sewers/pipes/force mains | W/C Weston sampson on site straight pond area low pressure force main valve exercise | W/C Weston sampson exercised low pressure force main valves day 3 (8 completed) day 2 (16 completed) day 3 (9 completed) | Eric Sutton | 10/19/23 | Completed |
| 10/25/23 | 18642 | 30 - WW Treatment Plant - General | Es BP CL Lb organized hose shed after new location Es BP swapped out 6" pump from draper Ave Dpw storm station 6b at draper 6a back at plant | Es BP swapped out 6a to 6b 6" trash pumps | Eric Sutton | 10/25/23 | Completed |
| 10/28/23 | 18644 | RAS Pump 3 | Remove debris | LOTO performed pulled pump removed debris. Before flow rate .74mgd after .95 mgd | Joe Basler | 10/28/23 | Completed |

Inspections

| mspecu | UIIS | | | | | | |
|----------------|-------|--------------------------------------|---|--|----------------|------------------|-----------|
| Status Date | WO # | Asset Name | Work Description | Work History Note | Employee | Schedule Date | Status |
| 10/16/23 | 18196 | Emergency Lighting & exit signs | Emergency Lighting Inspection - Monthly | | Luis Bello | 10/11/23 | Completed |
| 10/17/23 | 17609 | 30 - WW Treatment Plant - General | Monthly H&S Inspection | Completed as requested | Luis Bello | 6/5/23 | Completed |
| 10/20/23 | 17794 | PS 1 | PS #1 Inspection - Monthly | Ddidnot complete, will complete with next month inspection | Paul Horigan | 7/6/23 | Completed |
| 10/20/23 | 17943 | PS 1 | PS #1 Inspection - Monthly | Needs ww cleaning | Paul Horigan | 8/3/23 | Completed |
| 10/23/23 | 18236 | PS 1 | PS #1 Inspection - Monthly | | Luis Bello | 10/5/23 | Completed |
| 10/26/23 | 18643 | Truck 2 - 2009 Chevy 2500 HD | Perform vehicle inspection | Inspected vehicle - See doFORMS report for full details. | Galaxy Tab 4 | 10/26/23 | Completed |
| 10/26/23 | 18150 | Truck 2 - 2009 Chevy 2500 HD | Monthly vehicle inspection on do-Forms | | Luis Bello | 9/4/23 | Completed |
| 10/26/23 | 18289 | Truck 2 - 2009 Chevy 2500 HD | Monthly vehicle inspection on do-Forms | | Luis Bello | 10/2/23 | Completed |
| 10/26/23 | 18097 | PS 1 | PS #1 Inspection - Monthly | | SEMS TABLET #2 | 9/7/23 | Completed |
| 10/30/23 | 18016 | Truck 3 - 2015 Chevy 3500 HD | Monthly vehicle inspection on do-Forms | It will be done with the next pm. | Luis Bello | 8/7/23 | Completed |
| 10/30/23 | 18140 | Truck 1 - 2010 Dodge Ram 1500 | Monthly vehicle inspection on do-Forms | Will be done with next pm. | Luis Bello | 9/4/23 | Completed |
| 10/30/23 | 18157 | Truck 3 - 2015 Chevy 3500 HD | Monthly vehicle inspection on do-Forms | Will be done with next pm. | Luis Bello | 9/4/23 | Completed |
| 10/30/23 | 18158 | Truck 4 - 2015 Nissan Frontier | Monthly vehicle inspection on do-Forms | Will be done at next pm. | Luis Bello | 9/4/23 | Completed |
| | | | | | | | |

| Status Date | WO# | Asset Name | Work Description | Work History Note | Employee | Schedule Date | Status |
|----------------|-------|---------------------------------------|---|-------------------------|------------|------------------|-----------|
| 10/3/23 | 18060 | Generator #1- Emergency Kohler 750 | Generator Weekly - Test Run no load | | Luis Bello | 9/25/23 | Completed |
| 10/3/23 | 18086 | RAS Pump 2 | Monthly Check Pump Couplings | y Check Pump Couplings | | | |
| 10/3/23 | 18201 | Generator #1- Emergency Kohler 750 | Generator - Monthly Load Test | tor - Monthly Load Test | | | |
| 10/3/23 | 18056 | Generator #2 - Backup Detroit 500 | Generator Weekly - Test Run no load | | Luis Bello | 9/25/23 | Completed |
| 10/3/23 | 18078 | Aeration Blower 1 | Aeration Blower #1 Air Filter Inspection - monthly | | Luis Bello | 9/26/23 | Completed |
| 10/3/23 | 18197 | Generator #2 - Backup Detroit 500 | Generator - Monthly Load Test | | Luis Bello | 10/1/23 | Completed |
| 10/3/23 | 18079 | Aeration Blower 2 | Aeration Blower #2 Air Filter Inspection - Monthly | | Luis Bello | 9/28/23 | Completed |
| 10/9/23 | 18108 | PS 1 Generator | PS #1 Generator Inspection and Test - Weekly | | Luis Bello | 9/27/23 | Completed |
| 10/9/23 | 18112 | PS 3 Generator | PS #3 Generator Inspection and Test - Weekly | | Luis Bello | 9/27/23 | Completed |
| 10/9/23 | 18118 | PS 4 Generator | PS #4 Generator Inspection and Test - Weekly | | Luis Bello | 9/27/23 | Completed |
| 10/9/23 | 18128 | PS 9 Generator | PS #9 Generator Inspection and Test - Weekly | | Luis Bello | 9/27/23 | Completed |
| 10/9/23 | 18132 | PS 6 Generator | PS #6 Generator Inspection and Test - Weekly | | Luis Bello | 9/27/23 | Completed |
| 10/9/23 | 18122 | PS 5 Generator | PS #5 Generator Inspection and Test - Weekly | | Luis Bello | 9/27/23 | Completed |
| 10/9/23 | 18243 | PS 1 Generator | PS #1 Generator Inspection and Load Test - Monthly | | Luis Bello | 10/4/23 | Completed |
| 10/9/23 | 18244 | PS 1 Generator | PS #1 Generator Inspection and Test - Weekly | | Luis Bello | 10/4/23 | Completed |
| 10/9/23 | 18248 | PS 3 Generator | PS #3 Generator Inspection and Test - Weekly | | Luis Bello | 10/4/23 | Completed |
| 10/9/23 | 18252 | PS 3 Generator | PS #3 Generator Inspection and Load Test - Monthly | | Luis Bello | 10/4/23 | Completed |
| 10/9/23 | 18253 | PS 4 Generator | PS #4 Generator Inspection and Load Test - Monthly | | Luis Bello | 10/4/23 | Completed |
| 10/9/23 | 18254 | PS 4 Generator | PS #4 Generator Inspection and Test - Weekly | | Luis Bello | 10/4/23 | Completed |
| 10/9/23 | 18263 | PS 9 Generator | PS #9 Generator Inspection and Load Test - Monthly | | Luis Bello | 10/4/23 | Completed |
| 10/9/23 | 18264 | PS 9 Generator | PS #9 Generator Inspection and Test - Weekly | | Luis Bello | 10/4/23 | Completed |
| 10/9/23 | 18268 | PS 6 Generator | PS #6 Generator Inspection and Test - Weekly | | Luis Bello | 10/4/23 | Completed |
| 10/9/23 | 18258 | PS 5 Generator | PS #5 Generator Inspection and Test - Weekly | | Luis Bello | 10/4/23 | Completed |
| 10/9/23 | 18262 | PS 5 Generator | PS #5 Generator Inspection and Load Test - Monthly | | Luis Bello | 10/4/23 | Completed |
| 10/9/23 | 18316 | Generators "All Pump Station" | Generator - Monthly Load Test | | Luis Bello | 10/1/23 | Completed |
| 10/12/23 | 18189 | Portable Generator - Honda | Portable Generator Inspection - Monthly | | Luis Bello | 10/4/23 | Completed |
| 10/12/23 | 18278 | GODWIN Portable Pump | Test Run Godwin Pump-Monthly | | Luis Bello | 10/4/23 | Completed |

| Status Date | WO# | Asset Name | Work Description | Work Description Work History Note | | | Status |
|----------------|-------|--|--|---|--------------------------|----------|------------------|
| 10/12/23 | 18208 | Influent Sluice Isolation Gate | Weekly operate through full range | | Eric Sutton | 10/4/23 | Completed |
| 10/12/23 | 18305 | High level floats | Weekly High Float Alarm test | Weekly High Float Alarm test | | | |
| 10/12/23 | 18320 | All Plant Gear box reducers | GEAR BOX MAINT - WEEKLY | | Luis Bello | 10/1/23 | Completed |
| 10/12/23 | 18306 | High level floats | Weekly High Float Alarm test | | Luis Bello | 10/8/23 | Completed |
| 10/12/23 | 18321 | All Plant Gear box reducers | GEAR BOX MAINT - WEEKLY | | Luis Bello | 10/8/23 | Completed |
| 10/13/23 | 18234 | Sludge Transfer Pump 1 | Monthly Check Pump Couplings | | Luis Bello | 10/4/23 | Completed |
| 10/13/23 | 17652 | Sludge Transfer Pump 1 | Monthly Check Pump Couplings | | Luis Bello | 6/7/23 | Completed |
| 10/13/23 | 18235 | Sludge Transfer Pump 2 | Monthly Check Pump Couplings | | Luis Bello | 10/4/23 | Completed |
| 10/13/23 | 18209 | Influent Sluice Isolation Gate | Weekly operate through full range | | Eric Sutton | 10/11/23 | Completed |
| 10/13/23 | 18095 | Sludge Transfer Pump 1 | Monthly Check Pump Couplings | | Luis Bello | 9/6/23 | Completed |
| 10/13/23 | 18096 | Sludge Transfer Pump 2 | Monthly Check Pump Couplings | | Luis Bello Luis Bello | 9/6/23 | Completed |
| 10/16/23 | 18281 | PS Kholer Trailer Mounted Generator | Generator Weekly - Test Run no load | ator Weekly - Test Run no load: | | 10/16/23 | Wating for Parts |
| 10/16/23 | 18245 | PS 1 Generator | PS #1 Generator Inspection and Test - Weekly | PS #1 Generator Inspection and Test - Weekly | | 10/11/23 | Completed |
| 10/16/23 | 18249 | PS 3 Generator | PS #3 Generator Inspection and Test - Weekly | PS #3 Generator Inspection and Test - Weekly | | 10/11/23 | Completed |
| 10/16/23 | 18255 | PS 4 Generator | PS #4 Generator Inspection and Test - Weekly | | Luis Bello | 10/11/23 | Completed |
| 10/16/23 | 18265 | PS 9 Generator | PS #9 Generator Inspection and Test - Weekly | | Luis Bello | 10/11/23 | Completed |
| 10/16/23 | 18269 | PS 6 Generator | PS #6 Generator Inspection and Test - Weekly | | Luis Bello | 10/11/23 | Completed |
| 10/16/23 | 18259 | PS 5 Generator | PS #5 Generator Inspection and Test - Weekly | | Luis Bello | 10/11/23 | Completed |
| 10/17/23 | 18202 | Generator #1- Emergency Kohler 750 | Generator Weekly - Test Run no load | | Luis Bello | 10/16/23 | Completed |
| 10/17/23 | 18213 | Influent Pump 1 | Monthly Check Pump Couplings | Completed as requested | Paul Horigan | 10/4/23 | Completed |
| 10/17/23 | 18214 | Influent Pump 2 | Monthly Check Pump Couplings | Completed as requested | Paul Horigan | 10/4/23 | Completed |
| 10/17/23 | 18216 | Influent Pump 4 | Monthly Check Pump Couplings | Completed as requested | Paul Horigan | 10/4/23 | Completed |
| 10/17/23 | 18217 | Influent Pump 5 | Monthly Check Pump Couplings | Completed as requested | Paul Horigan | 10/4/23 | Completed |
| 10/17/23 | 18232 | Primary Sludge Pump 1 | Monthly Check Pump Couplings | Monthly Check Pump Couplings Completed as requested | | 10/4/23 | Completed |
| 10/17/23 | 18233 | Primary Sludge Pump 2 | Monthly Check Pump Couplings | Completed as requested | Paul Horigan | 10/4/23 | Completed |
| 10/17/23 | 18226 | Wet Scrubber Fan | Scrubber Exhaust Fan PM - Monthly | Completed as requested | Paul Horigan | 10/11/23 | Completed |
| 10/17/23 | 18212 | Mechanical Screen & Washpress System | Monthly Maintenance | Completed as requested | Paul Horigan | 10/2/23 | Completed |
| 10/17/23 | 17257 | Pressure Washer | Pressure Washer PM - Annual | Done | Luis Bello | 4/13/23 | Completed |

| Status | ttive ivi | differiance | | | | Schedule | _ |
|----------|-----------|-----------------------------------|-------------------------------------|---|--------------|----------|-----------|
| Date | WO# | Asset Name | Work Description | Work History Note | Employee | Date | Status |
| 10/17/23 | 17771 | Influent Pump 2 | Monthly Check Pump Couplings | Done with most recent pm | Paul Horigan | 7/5/23 | Completed |
| 10/17/23 | 17772 | Influent Pump 3 | Monthly Check Pump Couplings | Done with most recent pm | Paul Horigan | 7/5/23 | Completed |
| 10/17/23 | 17776 | Influent Pump 5 | Monthly Check Pump Couplings | Monthly Check Pump Couplings Done with most recent pm | | 7/5/23 | Completed |
| 10/17/23 | 17790 | Primary Sludge Pump 1 | Monthly Check Pump Couplings | Done with most recent pm | Paul Horigan | 7/5/23 | Completed |
| 10/17/23 | 17788 | RST Feed Pump 1 | Monthly Check Pump Couplings | Done with most recent pm | Paul Horigan | 7/5/23 | Completed |
| 10/17/23 | 17789 | RST Feed Pump 2 | Monthly Check Pump Couplings | Done with most recent pm | Paul Horigan | 7/5/23 | Completed |
| 10/17/23 | 17792 | Sludge Transfer Pump 1 | Monthly Check Pump Couplings | Done with most recent pm | Paul Horigan | 7/5/23 | Completed |
| 10/17/23 | 17632 | Influent Pump 3 | Monthly Check Pump Couplings | Done with most recent pm | Paul Horigan | 6/7/23 | Completed |
| 10/17/23 | 17634 | Influent Pump 5 | Monthly Check Pump Couplings | Done with most recent pm | Paul Horigan | 6/7/23 | Completed |
| 10/17/23 | 17691 | Plant Water Pump 2 | Monthly Check Pump Couplings | Done with most recent pm | Paul Horigan | 6/7/23 | Completed |
| 10/17/23 | 17650 | Primary Sludge Pump 1 | Monthly Check Pump Couplings | Done with most recent pm | Paul Horigan | 6/7/23 | Completed |
| 10/17/23 | 17651 | Primary Sludge Pump 2 | Monthly Check Pump Couplings | Done with most recent pm | Paul Horigan | 6/7/23 | Completed |
| 10/17/23 | 17645 | RST Feed Pump 1 | Monthly Check Pump Couplings | hly Check Pump Couplings Done with most recent pm | | 6/7/23 | Completed |
| 10/17/23 | 17646 | RST Feed Pump 2 | Monthly Check Pump Couplings | Monthly Check Pump Couplings Done with most recent pm | | 6/7/23 | Completed |
| 10/17/23 | 18227 | RAS Pump 1 | Monthly Check Pump Couplings | | Luis Bello | 10/4/23 | Completed |
| 10/17/23 | 18085 | RAS Pump 1 | Monthly Check Pump Couplings | | Luis Bello | 9/6/23 | Completed |
| 10/17/23 | 18228 | RAS Pump 2 | Monthly Check Pump Couplings | | Luis Bello | 10/4/23 | Completed |
| 10/17/23 | 18229 | RAS Pump 3 | Monthly Check Pump Couplings | | Luis Bello | 10/4/23 | Completed |
| 10/17/23 | 18087 | RAS Pump 3 | Monthly Check Pump Couplings | | Luis Bello | 9/6/23 | Completed |
| 10/18/23 | 18198 | Generator #2 - Backup Detroit 500 | Generator Weekly - Test Run no load | | Luis Bello | 10/16/23 | Completed |
| 10/19/23 | 18210 | Influent Sluice Isolation Gate | Weekly operate through full range | | Luis Bello | 10/18/23 | Completed |
| 10/19/23 | 18307 | High level floats | Weekly High Float Alarm test | | Luis Bello | 10/15/23 | Completed |
| 10/19/23 | 18322 | All Plant Gear box reducers | GEAR BOX MAINT - WEEKLY | | Luis Bello | 10/15/23 | Completed |
| 10/19/23 | 18088 | RST Feed Pump 1 | Monthly Check Pump Couplings | | Luis Bello | 9/6/23 | Completed |
| 10/19/23 | 17932 | RST Feed Pump 1 | Monthly Check Pump Couplings | | Luis Bello | 8/2/23 | Completed |
| 10/19/23 | 18230 | RST Feed Pump 1 | Monthly Check Pump Couplings | | Luis Bello | 10/4/23 | Completed |
| 10/19/23 | 18231 | RST Feed Pump 2 | Monthly Check Pump Couplings | | Luis Bello | 10/4/23 | Completed |
| 10/19/23 | 17933 | RST Feed Pump 2 | Monthly Check Pump Couplings | | Luis Bello | 8/2/23 | Completed |
| 10/19/23 | 18089 | RST Feed Pump 2 | Monthly Check Pump Couplings | | Luis Bello | 9/6/23 | Completed |
| | | | | | | | |

| Status Date | WO# | Asset Name | Work Description | Work History Note | Employee | Schedule Date | Status |
|----------------|-------|---|--|---|----------------|------------------|-----------|
| 10/20/23 | 18144 | PS Kholer Trailer Mounted Generator | Generator Weekly - Test Run no load | Ccompleted when repaired | Paul Horigan | 9/25/23 | Completed |
| 10/20/23 | 18280 | PS Kholer Trailer Mounted Generator | Generator - Monthly Load Test | Completed with repair | Paul Horigan | 10/1/23 | Completed |
| 10/20/23 | 17953 | PS 9 | PUMP STATIONS - QUATERLY PM'S | PUMP STATIONS - QUATERLY PM'S Ben, eric, clyde, ww is clean, 0%,, plugged in block heater, pump 1 suction valve seized | | 8/1/23 | Completed |
| 10/20/23 | 17946 | PS 4 | PUMP STATIONS - QUATERLY PM'S | Eric, ben, plugged in block heater, ww 25%,, | Paul Horigan | 8/1/23 | Completed |
| 10/20/23 | 17945 | PS 3 | PUMP STATIONS - QUATERLY PM'S | Eric, ben, ww needs pumping 95%, | Paul Horigan | 8/1/23 | Completed |
| 10/20/23 | 17954 | PSA | PUMP STATIONS - QUATERLY PM'S | WW at65% coverage, pump 2 off needs new volute | Paul Horigan | 8/1/23 | Completed |
| 10/23/23 | 17949 | PS 5 | PUMP STATIONS - QUATERLY PM'S | Completed as requested, ww 10%, | Paul Horigan | 8/1/23 | Completed |
| 10/23/23 | 17950 | PS 6 | PUMP STATIONS - QUATERLY PM'S | Completed, no acess to ww, | Paul Horigan | 8/1/23 | Completed |
| 10/23/23 | 17401 | ATI Wet Hydrogen Sulfide Monitor Exhaust | System Maintenance | | Luis Bello | 4/1/23 | Completed |
| 10/23/23 | 17400 | ATI Wet Hydrogen Sulfide Monitor Intake | System maintenace | | Luis Bello | 4/1/23 | Completed |
| 10/23/23 | 17295 | Odor Control Wet Scrubber Vessel | Chemical wash | | Luis Bello | 4/1/23 | Completed |
| 10/23/23 | 17294 | Wet Scrubber System | Clean and Calibration | | | 4/1/23 | Completed |
| 10/23/23 | 18266 | PS 9 Generator | PS #9 Generator Inspection and Test - Weekly | erator Inspection and Test - Weekly | | 10/18/23 | Completed |
| 10/23/23 | 18270 | PS 6 Generator | PS #6 Generator Inspection and Test - Weekly | | SEMS TABLET #2 | 10/18/23 | Completed |
| 10/23/23 | 18260 | PS 5 Generator | PS #5 Generator Inspection and Test - Weekly | | SEMS TABLET #2 | 10/18/23 | Completed |
| 10/23/23 | 18256 | PS 4 Generator | PS #4 Generator Inspection and Test - Weekly | | SEMS TABLET #2 | 10/18/23 | Completed |
| 10/23/23 | 17385 | FIRE ALARM SYSTEM | Fire alarm - semi annual | | Luis Bello | 4/3/23 | Completed |
| 10/23/23 | 17402 | Effluent Flow Meter Isolation Valve | Isolation Valve Exercise | | Luis Bello | 4/7/23 | Completed |
| 10/23/23 | 18250 | PS 3 Generator | PS #3 Generator Inspection and Test - Weekly | | SEMS TABLET #2 | 10/18/23 | Completed |
| 10/23/23 | 18246 | PS 1 Generator | PS #1 Generator Inspection and Test - Weekly | | SEMS TABLET #2 | 10/18/23 | Completed |
| 10/23/23 | 17577 | ATI Wet Hydrogen Sulfide Monitor Exhaust | System Maintenance | | Luis Bello | 5/1/23 | Completed |
| 10/23/23 | 17550 | Chlorine probe ATI | ATI, change membrane | | Luis Bello | 5/1/23 | Completed |
| 10/23/23 | 17576 | ATI Wet Hydrogen Sulfide Monitor Intake | System maintenace | | Luis Bello | 5/1/23 | Completed |
| 10/23/23 | 17459 | Wet Scrubber System | Clean and Calibration | | Luis Bello | 5/1/23 | Completed |
| 10/23/23 | 17458 | Effluent Pumps | Effluent Pump - Monthly | | Luis Bello | 5/15/23 | Completed |
| 10/23/23 | 17740 | ATI Wet Hydrogen Sulfide Monitor Exhaust | System Maintenance | | Luis Bello | 6/1/23 | Completed |
| 10/23/23 | 17739 | ATI Wet Hydrogen Sulfide Monitor Intake | System maintenace | | Luis Bello | 6/1/23 | Completed |

| 1 TO VOITE | ative ivid | intendrice | | | | | |
|----------------|------------|---|--|-------------------|------------|------------------|------------|
| Status Date | WO # | Asset Name | Work Description | Work History Note | Employee | Schedule Date | Status |
| 10/23/23 | 17640 | Wet Scrubber System | Clean and Calibration | | Luis Bello | 6/1/23 | Completed |
| 10/24/23 | 18203 | Generator #1- Emergency Kohler 750 | Generator Weekly - Test Run no load | Luis Bello | 10/23/23 | Completed | |
| 10/24/23 | 18199 | Generator #2 - Backup Detroit 500 | Generator Weekly - Test Run no load | | Luis Bello | 10/23/23 | Completed |
| 10/24/23 | 17741 | Secondary Effluent Isolation Gate | Isolation Valve Exercise | | Luis Bello | 6/2/23 | Completed |
| 10/24/23 | 18332 | Effluent Flow Meter Isolation Valve | Isolation Valve Exercise | | Luis Bello | 10/6/23 | Completed |
| 10/24/23 | 17629 | Mechanical Screen & Washpress System | Monthly Maintenance | | Luis Bello | 6/5/23 | Completed |
| 10/24/23 | 17647 | Primary Scum Pump | Pen Valley Double Disc pumps - Quarterly | | Luis Bello | 6/8/23 | Completed |
| 10/24/23 | 17648 | Secondary Scum Pump 1 | Pen Valley Double Disc pumps - Quarterly | | Luis Bello | 6/8/23 | Completed |
| 10/24/23 | 17649 | Secondary Scum Pump 2 | Pen Valley Double Disc pumps - Quarterly | | Luis Bello | 6/8/23 | Completed |
| 10/24/23 | 17639 | Effluent Pumps | Effluent Pump - Monthly | | Luis Bello | 6/15/23 | Completed |
| 10/24/23 | 17722 | Truck 5 - Fork truck Doosan G25E-5 | Annual PM | | Luis Bello | 6/15/23 | Completed |
| 10/24/23 | 17782 | Effluent Pumps | Effluent Pump - Monthly | | Luis Bello | 7/15/23 | Completed |
| 10/24/23 | 17637 | Aeration Tank 1 Oxygen Probe | AT #1 DO Probe Clean and Calibrate - Monthly | | Luis Bello | 6/6/23 | Completed |
| 10/24/23 | 17638 | Aeration Tank 3 Oxygen Probe | AT #3 DO Probe Clean and Calibrate - Monthly | | Luis Bello | 6/6/23 | Completed |
| 10/24/23 | 17780 | Aeration Tank 1 Oxygen Probe | AT #1 DO Probe Clean and Calibrate - Monthly | | Luis Bello | 7/4/23 | Completed |
| 10/24/23 | 17781 | Aeration Tank 3 Oxygen Probe | AT #3 DO Probe Clean and Calibrate - Monthly | | Luis Bello | 7/4/23 | Completed |
| 10/24/23 | 17920 | Aeration Tank 1 Oxygen Probe | AT #1 DO Probe Clean and Calibrate - Monthly | | Luis Bello | 8/1/23 | Completed |
| 10/24/23 | 17921 | Aeration Tank 3 Oxygen Probe | AT #3 DO Probe Clean and Calibrate - Monthly | | Luis Bello | 8/1/23 | Completed |
| 10/24/23 | 17923 | Wet Scrubber System | Clean and Calibration | | Luis Bello | 8/1/23 | Completed |
| 10/24/23 | 18025 | pH meter | Clean and Calibrate | | Luis Bello | 8/1/23 | In Process |
| 10/25/23 | 18211 | Influent Sluice Isolation Gate | Weekly operate through full range | | Luis Bello | 10/25/23 | Completed |
| 10/25/23 | 18308 | High level floats | Weekly High Float Alarm test | | Luis Bello | 10/22/23 | Completed |
| 10/25/23 | 17723 | Recirculation pump #1 | Monthly Check Pump Couplings | | Luis Bello | 6/7/23 | Completed |
| 10/25/23 | 17937 | Primary Sludge Pump 2 | Monthly Check Pump Couplings | | Luis Bello | 8/2/23 | Completed |
| 10/25/23 | 17938 | Primary Sludge Pump 2 | Vaughan Centrifugal pump - Semi Annual | | Luis Bello | 8/17/23 | Completed |
| 10/25/23 | 18094 | Primary Sludge Pump 2 | Monthly Check Pump Couplings | | Luis Bello | 9/6/23 | Completed |
| 10/25/23 | 17935 | Primary Sludge Pump 1 | Vaughan Centrifugal pump - Semi Annual | | Luis Bello | 8/17/23 | Completed |
| 10/25/23 | 17936 | Primary Sludge Pump 1 | Monthly Check Pump Couplings | | Luis Bello | 8/2/23 | Completed |

| rievente | ALIVE IVI | annenance | | | | | |
|----------------|-----------|-----------------------------------|--------------------------------------|----------------------|--------------------|------------------|------------------|
| Status Date | WO # | Asset Name | Work Description | Work History Note | Employee | Schedule Date | Status |
| 10/25/23 | 18093 | Primary Sludge Pump 1 | Monthly Check Pump Couplings | | Luis Bello | 9/6/23 | Completed |
| 10/25/23 | 18323 | All Plant Gear box reducers | GEAR BOX MAINT - WEEKLY | | Luis Bello | 10/22/23 | Completed |
| 10/25/23 | 17894 | Generator #2 - Backup Detroit 500 | Generator #2 (Backup) PM -Annual | | Outside Contractor | 8/15/23 | Completed |
| 10/25/23 | 18028 | Generators "All Pump Station" | Generator - Annual PM | | Outside Contractor | 8/15/23 | Completed |
| 10/26/23 | 18287 | Ventis MX4 #5 - 4 Gas | 4 Gas Meter #5 Calibration - Monthly | Faulty sensor. | Luis Bello | 10/26/23 | Wating for Parts |
| 10/26/23 | 18148 | Ventis MX4 #5 - 4 Gas | 4 Gas Meter #5 Calibration - Monthly | | Luis Bello | 9/28/23 | Wating for Parts |
| 10/26/23 | 18295 | GasAlert Max XTII #2 | monthly calibration | Bad o2 sensor | Luis Bello | 10/26/23 | Wating for Parts |
| 10/26/23 | 18153 | GasAlert Max XTII #2 | monthly calibration | | Luis Bello | 9/28/23 | Wating for Parts |
| 10/26/23 | 18145 | Ventis MX4 #2 - 4 Gas | 4 Gas Meter #2 Calibration - Monthly | | Luis Bello | 9/28/23 | Completed |
| 10/26/23 | 18147 | Ventis MX4 #4 - 4 Gas | 4 Gas Meter #4 Calibration - Monthly | | Luis Bello | 9/28/23 | Completed |
| 10/26/23 | 18149 | Ventis MX4 #6 - 4 Gas | 4 Gas Meter #6 Calibration - Monthly | | Luis Bello | 9/28/23 | Completed |
| 10/26/23 | 18275 | GasAlert Max XTII #1 | 4 gas meter calibration - monthly | | Luis Bello | 10/1/23 | Completed |
| 10/26/23 | 18284 | Ventis MX4 #2 - 4 Gas | 4 Gas Meter #2 Calibration - Monthly | ation - Monthly Luis | | 10/26/23 | Completed |
| 10/26/23 | 18286 | Ventis MX4 #4 - 4 Gas | 4 Gas Meter #4 Calibration - Monthly | ration - Monthly | | 10/26/23 | Completed |
| 10/26/23 | 18288 | Ventis MX4 #6 - 4 Gas | 4 Gas Meter #6 Calibration - Monthly | | Luis Bello | 10/26/23 | Completed |
| 10/27/23 | 18154 | Chlorine probe ATI | Weekly calibration | | Joe Basler | 9/11/23 | Completed |
| 10/27/23 | 17547 | Chlorine probe ATI | Weekly calibration | | Joe Basler | 5/8/23 | Completed |
| 10/27/23 | 17852 | Chlorine probe ATI | Weekly calibration | | Joe Basler | 7/3/23 | Completed |
| 10/27/23 | 17853 | Chlorine probe ATI | Weekly calibration | | Joe Basler | 7/17/23 | Completed |
| 10/27/23 | 18301 | Chlorine probe ATI | Weekly calibration | | Joe Basler | 10/23/23 | Completed |
| 10/27/23 | 17712 | Chlorine probe ATI | Weekly calibration | | Joe Basler | 6/5/23 | Completed |
| 10/27/23 | 18013 | Chlorine probe ATI | Weekly calibration | | Joe Basler | 8/28/23 | Completed |
| 10/27/23 | 18300 | Chlorine probe ATI | Weekly calibration | | Joe Basler | 10/9/23 | Completed |
| 10/27/23 | 18155 | Chlorine probe ATI | Weekly calibration | | Joe Basler | 9/25/23 | Completed |
| 10/27/23 | 17855 | Chlorine probe ATI | Change electrolyte | | Joe Basler | 7/1/23 | Completed |
| 10/27/23 | 18156 | Chlorine probe ATI | Change electrolyte | | Joe Basler | 9/1/23 | Completed |
| 10/27/23 | 18302 | Chlorine probe ATI | Change electrolyte | | Joe Basler | 10/1/23 | Completed |
| 10/27/23 | 17713 | Chlorine probe ATI | Weekly calibration | | Joe Basler | 6/19/23 | Completed |
| 10/27/23 | 18015 | Chlorine probe ATI | ATI, change membrane | | Joe Basler | 8/1/23 | Completed |
| | | | | | | | |

| Status Date | WO# | Asset Name | Work Description | Work History Note | Employee | Schedule Date | Status |
|----------------|-------|--------------------------------------|--|--|--------------|------------------|-----------|
| 10/27/23 | 17548 | Chlorine probe ATI | Weekly calibration | | Joe Basler | 5/22/23 | Completed |
| 10/27/23 | 17854 | Chlorine probe ATI | Weekly calibration | Weekly calibration | | | Completed |
| 10/27/23 | 18012 | Chlorine probe ATI | Weekly calibration | Weekly calibration | | | |
| 10/27/23 | 17714 | Chlorine probe ATI | Change electrolyte | | Joe Basler | 6/1/23 | Completed |
| 10/30/23 | 18146 | Ventis MX4 #3 - 4 Gas | 4 Gas Meter #3 Calibration - Monthly | Did not complete, will complete wiyh next months pm | Paul Horigan | 9/28/23 | Completed |
| 10/30/23 | 18324 | All Plant Gear box reducers | GEAR BOX MAINT - WEEKLY | Completed as requested | Paul Horigan | 10/29/23 | Completed |
| 10/30/23 | 18219 | Aeration Blower 2 | Aeration Blower #2 Air Filter Inspection - Monthly | Completed as requested | Paul Horigan | 10/26/23 | Completed |
| 10/30/23 | 17912 | Influent Pump 4 | Monthly Check Pump Couplings | Willcomplete with next months pm | Paul Horigan | 8/2/23 | Completed |
| 10/30/23 | 17913 | Influent Pump 5 | Monthly Check Pump Couplings | Will complete with next months pm | Paul Horigan | 8/2/23 | Completed |
| 10/30/23 | 17931 | RST Feed Pump 1 | Vaughan Centrifugal pump - Semi Annual | Completed as requested | Paul Horigan | 8/17/23 | Completed |
| 10/30/23 | 17939 | Sludge Transfer Pump 1 | Monthly Check Pump Couplings | Completed as requested | Paul Horigan | 8/2/23 | Completed |
| 10/30/23 | 17934 | RST Feed Pump 2 | Vaughan Centrifugal pump - Semi Annual | Vaughan Centrifugal pump - Semi Annual Completed as requested Paul H | | 8/17/23 | Completed |
| 10/30/23 | 17941 | Waste Activated Sludge Pump 3 | Vaughan Centrifugal pump - Semi Annual Completed | | Paul Horigan | 8/17/23 | Completed |
| 10/30/23 | 18069 | Influent Pump 1 | Monthly Check Pump Couplings Complete | | Paul Horigan | 9/6/23 | Completed |
| 10/30/23 | 18080 | Aeration Tank 1 Oxygen Probe | AT #1 DO Probe Clean and Calibrate - Monthly | Will complete with next pm | Paul Horigan | 9/5/23 | Completed |
| 10/30/23 | 18081 | Aeration Tank 3 Oxygen Probe | AT #3 DO Probe Clean and Calibrate - Monthly | Will complete with next pm | Paul Horigan | 9/5/23 | Completed |
| 10/30/23 | 18220 | Aeration Tank 1 Oxygen Probe | AT #1 DO Probe Clean and Calibrate - Monthly | Completed | Paul Horigan | 10/3/23 | Completed |
| 10/30/23 | 18221 | Aeration Tank 3 Oxygen Probe | AT #3 DO Probe Clean and Calibrate - Monthly | Completed | Paul Horigan | 10/3/23 | Completed |
| 10/30/23 | 17445 | Mechanical Screen & Washpress System | Screen & Wash press - Semi annual maintenance | Not done, it will be completed with the next pm | Luis Bello | 5/1/23 | Completed |
| 10/30/23 | 17762 | Grit Screw Drive | Grit Screw Drive PM - Quarterly | Would be completed with next pm. | Luis Bello | 7/14/23 | Completed |
| 10/30/23 | 17918 | Secondary Clarifier 1 | Clean Launder Screens - Quarterly | We cant do that anymore because it clogs up the | Luis Bello | 8/7/23 | Completed |
| 10/30/23 | 17919 | Secondary Clarifier 2 | Clean Launder Screens - Quarterly | plant water strainer. We cant do it because it messes the plant water | Luis Bello | 8/7/23 | Completed |
| 10/30/23 | 18026 | ORP meter | Clean and Calibrate | system. It will be done at the next pm. | Luis Bello | 8/10/23 | Completed |
| 10/30/23 | 17922 | Effluent Pumps | Effluent Pump - Monthly | Will be done with next pm. | Luis Bello | 8/15/23 | Completed |
| 10/30/23 | 18166 | pH meter | Clean and Calibrate | Will be done with next pm. | Luis Bello | 9/1/23 | Completed |
| 10/30/23 | 18070 | Influent Pump 2 | Monthly Check Pump Couplings | Will be done with next pm. | Luis Bello | 9/6/23 | Completed |
| 10/30/23 | 18073 | Influent Pump 3 | Monthly Check Pump Couplings | Monthly Check Pump Couplings Will be done with next pm. | | 9/6/23 | Completed |
| 10/30/23 | 18074 | Influent Pump 4 | Monthly Check Pump Couplings | It will be done with next pm. | Luis Bello | 9/6/23 | Completed |
| | | | | | | | |

| Status Date | WO# | Asset Name | Work Description | Work History Note | Employee | Schedule Date | Status |
|----------------|-------|-----------------------|--|--|------------|------------------|-----------|
| 10/30/23 | 18077 | Influent Pump 5 | Monthly Check Pump Couplings | It will be done with next pm. | Luis Bello | 9/6/23 | Completed |
| 10/30/23 | 18167 | ORP meter | Clean and Calibrate | It will be done with the next pm. | Luis Bello | 9/10/23 | Completed |
| 10/30/23 | 18084 | Wet Scrubber Fan | Scrubber Exhaust Fan PM - Monthly | It was done by someone else, but I am not sure about thr date. | Luis Bello | 9/13/23 | Completed |
| 10/30/23 | 18090 | Primary Scum Pump | Pen Valley Double Disc pumps - Quarterly | It will be done with next pm. | Luis Bello | 9/14/23 | Completed |
| 10/30/23 | 18091 | Secondary Scum Pump 1 | Pen Valley Double Disc pumps - Quarterly | Will be done with next pm. | Luis Bello | 9/14/23 | Completed |
| 10/30/23 | 18092 | Secondary Scum Pump 2 | Pen Valley Double Disc pumps - Quarterly Will be completed with next pm. | | Luis Bello | 9/14/23 | Completed |
| 10/30/23 | 18082 | Effluent Pumps | Effluent Pump - Monthly | It will be completed with next pm. | Luis Bello | 9/15/23 | Completed |

| | Asset Management Accounts - Year 9 | | | | | | | | | | | |
|----------|------------------------------------|--------------------|----------------|--------------|----------------------------------|------------------------|---------------|--|--|--|--|--|
| | | | Actual to date | | Proj | jected for Final Estir | nate | | | | | |
| Account | | Budgeted Amount | Spent to Date | Delta | Projected costs and incl PO's | Final est | Delta | | | | | |
| 09M-101A | Preventive Maint | \$242,712.26 | \$80,319.85 | \$162,392.41 | \$114,140.00 | \$194,459.85 | \$48,252.41 | | | | | |
| 09M-102B | Capital and Major Repairs | \$140,000.00 | \$34,151.12 | \$105,848.88 | \$70,500.00 | \$104,651.12 | \$35,348.88 | | | | | |
| 09M-103A | Major Sub Contractors | \$206,459.14 | \$99,441.00 | \$107,018.14 | \$179,000.00 | \$278,441.00 | (\$71,981.86) | | | | | |
| blank | | | | | | | | | | | | |
| | Asset Management | \$589,171.40 | \$213,911.97 | \$375,259.43 | \$363,640.00 | \$577,551.97 | \$11,619.43 | | | | | |

| | Time Status | | | | |
|----------|-------------|-----------|--|--|--|
| Budget | NOW= | 12/5/2023 | | | |
| expended | Start | 5/1/2020 | | | |
| 33.1% | 359.8% | 326.7% | | | |
| 24.4% | 359.8% | 335.4% | | | |
| 48.2% | 359.8% | 311.7% | | | |
| | | | | | |
| 36.3% | 359.8% | 323.5% | | | |

\$375,259.43

| 098 | D Street | \$7,500.00 | \$4,222.43 | \$3,277.57 | \$0.00 | \$4,222.43 | \$3,277.57 | 56.3% | 359.8% | 303.5% |
|-----|------------------------|--------------|--------------|---------------|--------|--------------|---------------|--------|--------|--------|
| 09C | Odor Control Chemicals | \$100,000.00 | \$122,384.00 | (\$22,384.00) | \$0.00 | \$122,384.00 | (\$22,384.00) | 122.4% | 359.8% | 237.5% |

Estimated total remaining 09M, 09C (\$10,764.57)

\$352,875.43

Hull 2022-2023 - 09M Projects, Tasks, and Needs - (MS) Maintenance Account - Year 9 - 05_01_23 to 04_30_24

| | FOR 2023 M.O.R. | | | | \$363,640.00 | | | <u>12/5/2023 9:45</u> |
|----------------------|--|---------|-----------|------|-----------------------------|----------------------|------|--|
| Priority [1=high] | Description | Status | completed | Task | Estimates & funds remaining | Final Completed Cost | Lead | Comments |
| 1 | Mechanical Work Labor by O&M specialists | Pending | | 101A | \$25,000.00 | | | Placeholder for Jody St. George, Paul Horigan & WC Support Staff - Total budget \$25,000; |
| 1 | Pump and Motor Repairs/Replacements [invoiced and pcard] | Pending | | 101A | \$20,000.00 | | | to keep existing equipment running - utilize various outside contractor repair shops, new purchases. orig budget \$20,000; |
| 1 | Lubricants | Pending | | 101A | \$1,000.00 | | | Various Suppliers for oil and grease. Budgeted \$1000. |
| 1 | Generator Prev. Maintenance and Repairs | Pending | | 101A | \$21,698.61 | | | Orig budget \$25,000. General PM and CM Repair Work - Placeholder |
| 1 | Fire Alarm Inspections and Service | Pending | | 101A | \$4,000.00 | | | Original Budget \$4,000 - Semi Annual - Flight Alarm Co.Inspections, central station, and service calls |
| 2 | Universal waste disposal | Pending | | 101A | \$500.00 | | | Placeholder - \$500 |
| 1 | Service the Forklift | Pending | | 101A | \$400.00 | | | Placeholder \$400 - Annual cost - outside vendor. |
| 1 | Overhead Hoist Inspection & repairs | Pending | | 101A | \$1,700.00 | | | Annual task - Applied Dynamics - Inspection Work - due in spring/summer 2023 |
| 1 | Flow meter verification and calibration | Pending | | 101A | \$1,200.00 | | | Placeholder \$1,200 - Annual - Ray Ferland or other 1 visit annually - |
| 1 | Facility Building - Roof Inspection | Pending | | 101A | \$2,800.00 | | | \$2800 Annual Placeholder - Established contract with Tecta America. Need for new proposal. |
| 2 | Jerome H2S Meter Inspection | Pending | | 102B | \$11,000.00 | | | Placeholder if new meter is to be planned for. Factors for new meter replacement to be considered. |
| 1 | Janitorial Supplies | Pending | | 101A | \$3,000.00 | | | Orig budget \$3,000 - Estimated annual expenditures |
| 1 | Manhole Inspections | Pending | | 101A | | | | As required,and/or scheduled |
| 2 | General mechanical and electrical items/supplies | Pending | | 101A | \$20,000.00 | | | Grainger, FWWebb, EJP,Hoadley, mcMasterCarr, etc; orig budget \$20,000, |
| 1 | Thompson Pump repairs | Pending | | 101A | | | | |
| 2 | Large Hoses & fittings | Pending | | 101A | \$3,000.00 | | | Orig budget \$3,000. Replacements and/or Service - On-Going - As Needed. |
| 1 | | Pending | | 102B | | | | |
| 3 | | Pending | | 101A | | | | |
| | (2022 | Pending | | 101A | 2022 0F0422 00M Charl | | | |

Hull 2022-2023 - 09M Projects, Tasks, and Needs - (MS) Maintenance Account - Year 9 - 05_01_23 to 04_30_24

| | FOR 2023 M.O.R. | | manne | | 12/5/2023 9:45 | | | |
|----------------------|--|---------|-----------|------|-----------------------------|----------------------|------|---|
| Priority [1=high] | Description | Status | completed | Task | Estimates & funds remaining | Final Completed Cost | Lead | Comments |
| 1 | Lab Equip Calibration | Pending | | 101A | \$640.00 | | | Annual service \$640 |
| 1 | | Pending | | 101A | | | | |
| | Duperon Service Call | Pending | | 102B | | | | recommended services per last visit, need repair report[s] |
| 2 | | Pending | | 101A | | | | |
| 1 | | Pending | | 102B | | | | |
| 2 | New Magnetic flow meters for RAS and WAS | Pending | | 102B | \$9,000.00 | | | hardware - does not include installation [estimate for Equip - \$9,000] May or may not occur. Remove from planned projects for 09M. |
| 2 | | Pending | | 102B | | | | |
| 1 | | Pending | | 102B | | | | |
| 1 | | Pending | | 102B | | | | |
| 1 | | Pending | | 102B | | | | |
| 3 | Sanitaire hardware purchase for aer tk 1 | Pending | | 102B | | | | Purchase more hardware ?? |
| 1 | | Pending | | 102B | | | | |
| 2 | | Pending | | 102B | | | | |
| 2 | Pump Station #3 - spare rotating, assy, or pump | Pending | | 102B | | | | TBD- estimates being obtained |
| 3 | New 4-inch valves or 6-inch valves for pri building between the tanks & Installation | Pending | | 102B | | | | Valves - cost: \$3000, sub-contracted labor - either WC or outside co.\$5,000 - totl estim \$8,000 |
| 3 | Odor log data loggers & calibr kit | Pending | | 102B | | | | if funds avail |
| 3 | | Pending | | 102B | | | | |
| 3 | Gravity Thickener #1 sandblasting/painting | Pending | | 102B | 022 050122 00M Charle | | | Estimate \$50,000+ - would need to go out for competitive bid request |

Hull 2022-2023 - 09M Projects, Tasks, and Needs - (MS) Maintenance Account - Year 9 - 05_01_23 to 04_30_24

| | FOR 2023 M.O.R. | | | | \$363,640.00 | | | <u>12/5/2023 9:45</u> |
|----------------------|---|---------|-----------|------|---------------------------------------|-------------------------|------|--|
| Priority [1=high] | Description | Status | completed | Task | Estimates & funds remaining | Final Completed Cost | Lead | Comments |
| 2 | | Pending | | 102B | · · · · · · · · · · · · · · · · · · · | | | |
| 1 | Grit classifier system parts | Pending | | 102B | \$4,500.00 | | | Plan for additional tail shaft assy and housing & bushings. Pricing out items/costs by various vendors incl Mfr. 3/16 update - recommendations provided for spare parts |
| | Plant Water System [Pump and/or parts] | Pending | | 102B | \$6,000.00 | | | consider spare motor or complete unit. Under review/hold [est \$6,000]. |
| 1 | | Pending | | 102B | | | | |
| 1 | Electrical Work | Pending | | 103A | \$35,000.00 | | | Orig budget \$35,000. Electricians: Glen Fellows, HiVoltage, or other; |
| 1 | SCADA Work - service calls, etc | Pending | | 103A | \$6,000.00 | | | Steve Rose and the SCADA Support Team; budget \$6,000; |
| 1 | E-One Repairs and Replacement | Pending | | 103A | \$65,000.00 | | | Orig budget: \$65,000. Based on historica/recent costs. |
| 1 | Automatic Transfer Switch inspection and servicing | Pending | | 101A | \$2,400.00 | | | \$2400 - Annual Service planned for NETS - Transfer Switch |
| 1 | Wetwell Inspections and Cleaning - Plant/Pump Stations | Pending | | 103A | \$8,000.00 | | | As required, plant or pump stations; orig budget \$8,000; |
| 1 | Sewer Line Cleaning - Emergencies, pump & haul | Pending | | 103A | \$10,000.00 | | | Placeholder - As required for various sub-contractors; could be Hoadley, Truax, WindRiver, BMC, or other, collection system & plant; budget \$10,000 |
| 1 | Collection System and plant - emerg & unplanned calls - Jetting & CCTV work - various contractors | Pending | | 103A | \$15,000.00 | | | Budget - 15,000, Plan to be developed |
| 1 | | Pending | | 102B | | | | |
| 3 | | Pending | | 103A | | | | |
| 3 | SHT1 - demo of equip, air piping & diffuser install/materials | Pending | | 103A | | | | demo concrete in tank - \$15,000 - sub-contractor and installation of new equip -additional new equip \$6,000; air piping to the tank \$10,000; Total estimate: \$31k to 35K ??. For consideration with outside contractor |
| 4 | Generators - Load Bank Testing Plant & Pump Stations | Pending | | 103A | | | | Look at 09M -last done under 06M. SSGen - review cost estimates. |
| 1 | Generators and portable pumps - Annual repairs | Pending | | 103A | \$20,000.00 | | | SSGen - \$20,000 |
| 1 | MCC work at the Pump Stations & IR scan for plant and pump s | Pending | | 103A | | | | Review recent propsal and develop plan |
| 3 | Low pressure sewer valve box insp & mtce | Pending | | 103A | | | | placeholder for contractoror O&M inspections and potential repairs; Looking at Rosano-Davis or another contractor & W&C to investigate; come up with plan to rempve covers and inspect |
| 1 | Grit screw installation | Pending | | 102B | \$40,000.00 | | | \$40,000 placeholder installation. |
| B of 4 12/5 | of 4 12/5/2023 2dd 22_050123_09M_Checkbookrev1_YTD (6) 09M Planned Costs | | | | | | | |

| Hull 2022-2023 - 09M Projects, Tasks, and Needs - (MS) | | | | | | | | | | |
|--|--------------------------------|---------|-----------|------|-----------------------------|----------------------|------|---|--|--|
| Maintenance Account - Year 9 - 05_01_23 to 04_30_24 | | | | | | | | | | |
| FOR 2023 M.O.R. | | | | | | | | <u>12/5/2023 9:45</u> | | |
| Priority [1=high] | Description | Status | completed | Task | Estimates & funds remaining | Final Completed Cost | Lead | Comments | | |
| 1 | | Pending | | 102B | | | | | | |
| 1 | | Pending | | 101A | | | | | | |
| | HDWK fiberglass slide gate | Pending | | 101A | \$3,500.00 | | | Soliciting estimates for at least one new slide gate. Placeholder [Jan 2023] \$3,000; Adjust estimate up to \$3,500 for one gate. No orders placed yet. 3/16 [AV] | | |
| 1 | SC #1 Structural Steel Repairs | Pending | | 103A | \$20,000.00 | | | Based on T&M - center supports, scrapers, other - IPC Lydon. | | |
| TOTAL | | | | | \$360,338.61 | | | | | |