



# HULL WATER POLLUTION CONTROL FACILITY

**MAY  
2022**

## MONTHLY OPERATING REPORT



**woodardcurran.com**

COMMITMENT & INTEGRITY DRIVE RESULTS

NPDES NO.  
MA0101231

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## **Cover pictures:**

- Aeration tank overview
- Temporary disinfection [hypochlorite tank] storage

# 1 EXECUTIVE SUMMARY

**This Monthly Operating Report provides a summary of the pertinent information and activities that occurred at Hull WPCF during the month of May 2022.**

- No lost-time incidents for the month of May.
- Continuing Covid-19 safety operations- adhering to W&C, Town of Hull, and the CDC's guidelines and updates.
- There were 152 effluent samples taken in the month of May with details on page (11). All effluent samples collected were compliant.
- The plant process conditions were stable.
- There were no Sanitary System Overflows [SSO] reported.
- The plant and collection system odors remained low, but sewage temperatures on the rise contributing to higher H<sub>2</sub>S levels. Increasing Bioxide dose levels as needed. Ongoing remote monitoring of the Vapor-Link system as we increase the dosing rate.
- The Asset Management Accounts summaries for contract year #7 and #8 are attached. Latest revision date: 6/30/22.
- There were four E-One grinder pump calls in May.
- W&C's O&M continued efforts to support the various ongoing engineering projects.
- The weekly (3X) Bio-Bot Covid-19 wastewater sampling & monitoring program continued, with W&C staff assisting Brian Kiley of HSD when needed.

***Mike Sullivan – Plant Manager***

***Town of Hull WPCF***

***6/30/2022***

**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.**

## 2 FLOWS AND LOADINGS

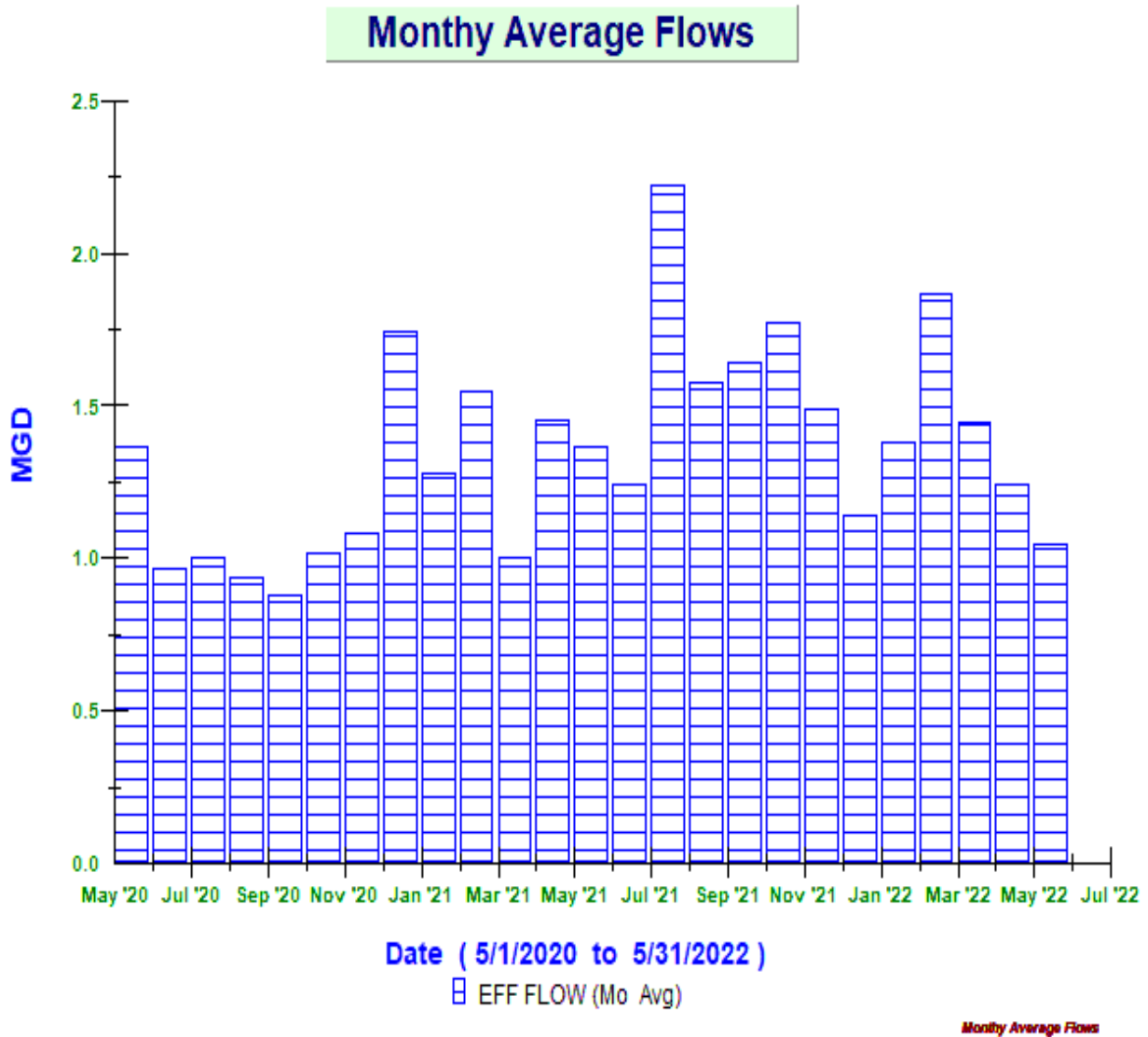


### Average Daily Flows and Loadings for the Month: May

Month / Year	Eff Flow	Inf Flow	Inf BOD	Inf TSS	Eff BOD	Eff TSS
	MGD	MDG	LBS	LBS	LBS	LBS
May '20	1.37	1.55	1,374.64	2,064.40	32.34	91.57
May '21	1.36	1.47	1,590.23	2,080.35	41.12	83.10
May '22	1.04	1.09	1,249.58	1,739.44	29.35	68.42

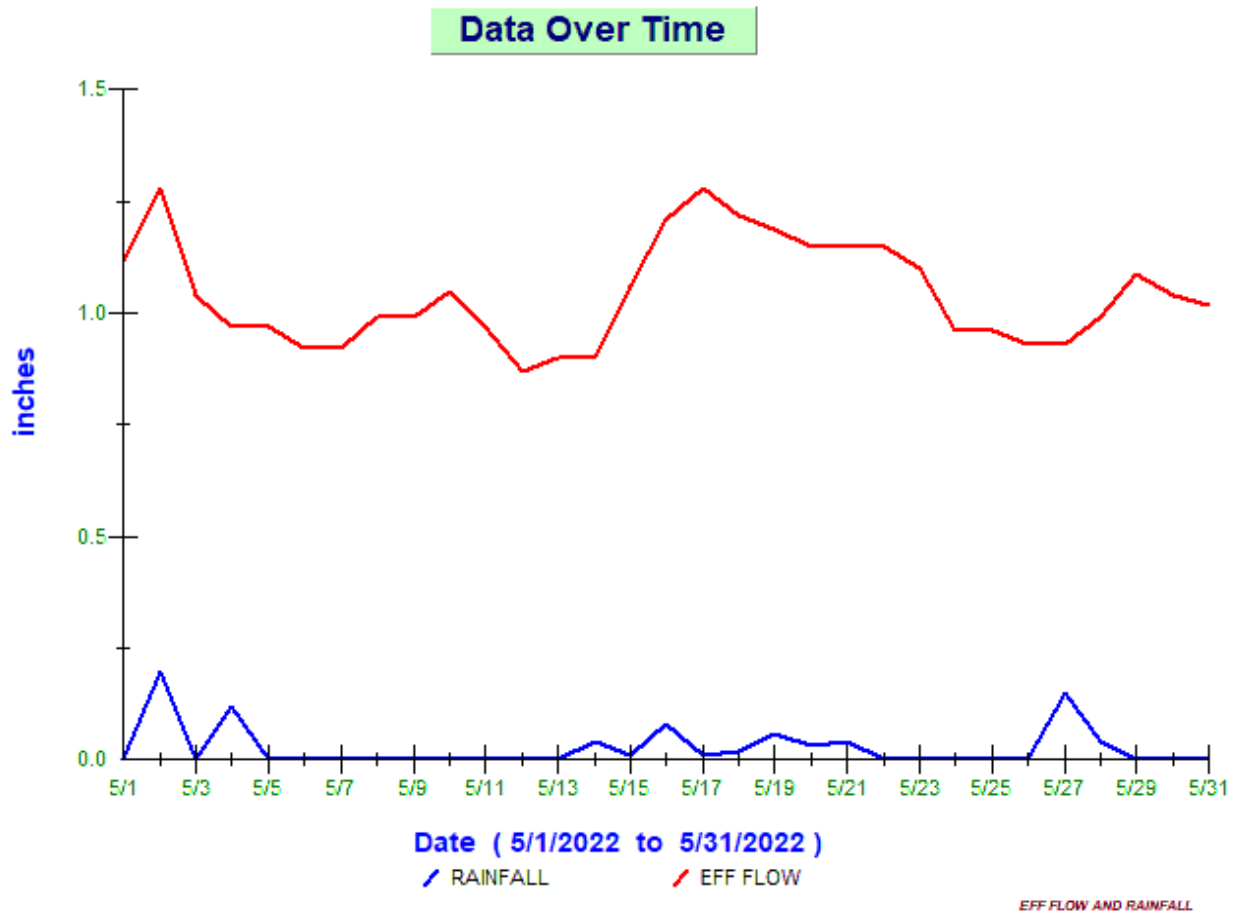
\* On-Going -The existing influent flow meters are strap-on doppler flow meters, and the existing pipe condition prevents getting a strong signal. An area velocity meter in the aeration tank inlet channel is used as well as the headworks influent Parshall Flume meter to monitor influent flows. All reported 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.

## A. AVERAGE EFFLUENT MONTHLY FLOWS – 2+ YEAR COMPARISON



The monthly average flow for May was 1.04 MGD, slightly lower than the previous month. The total precipitation for the month was only 0.80 inches - much less than April's 3.1 inches of rain. The graph shows the 2-plus year summary of the monthly average flows.

## B. TWO MONTH SUMMARY OF RAINFALL AND THE INFLUENCE ON EFFLUENT FLOWS



This graph shows the days where precipitation occurred [rainfall] [Blue Peaks]. This graph shows an upward trend in flows due to the wet conditions.

### 3 COMPLIANCE



#### ➤ Plant Effluent

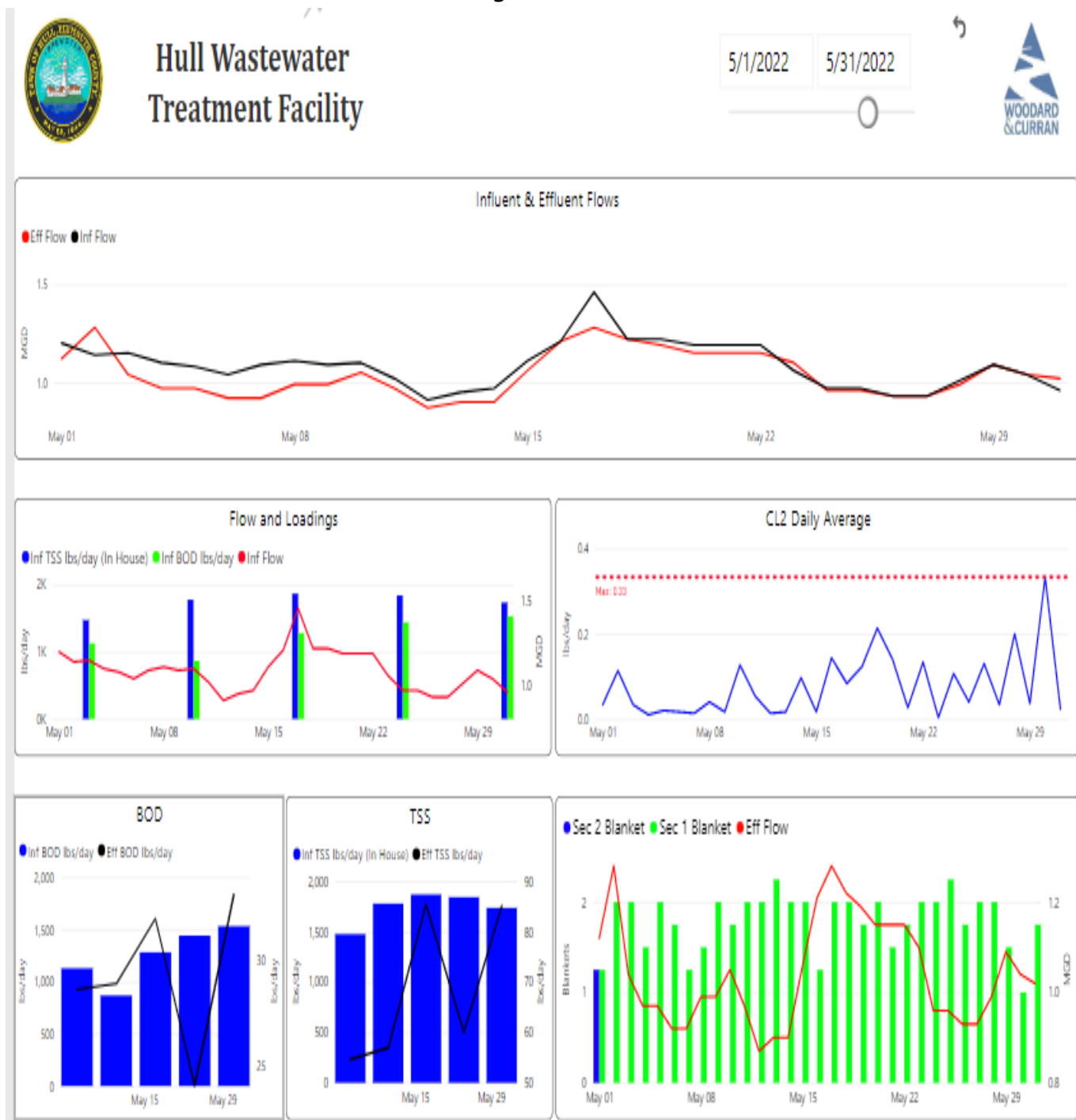
There were no permit exceedances in May.

- Plant process conditions were stable during the month. A number of changes were made:
  - a) process tank configuration changed as Primary Clarifier #2 and Gravity Thickener #1 were taken offline as part of the summer process control plan to limit odors.
  - b) Secondary Clarifier #2 was taken offline, due to lower flows.
  - c) Aeration piping changed – put smaller blower on for air supply to the aerated grit tank and sludge holding tank
  - d) Direct all out air from the large aeration blower to the aeration tanks, since warmer temperatures and higher organic loading will require more oxygen in the aeration tanks.
- A Copy of the monthly NPDES reports for May 2022 was submitted to the EPA, DEP, and the Hull Sewer Dept.
- WET sampling for quarter #2 completed.



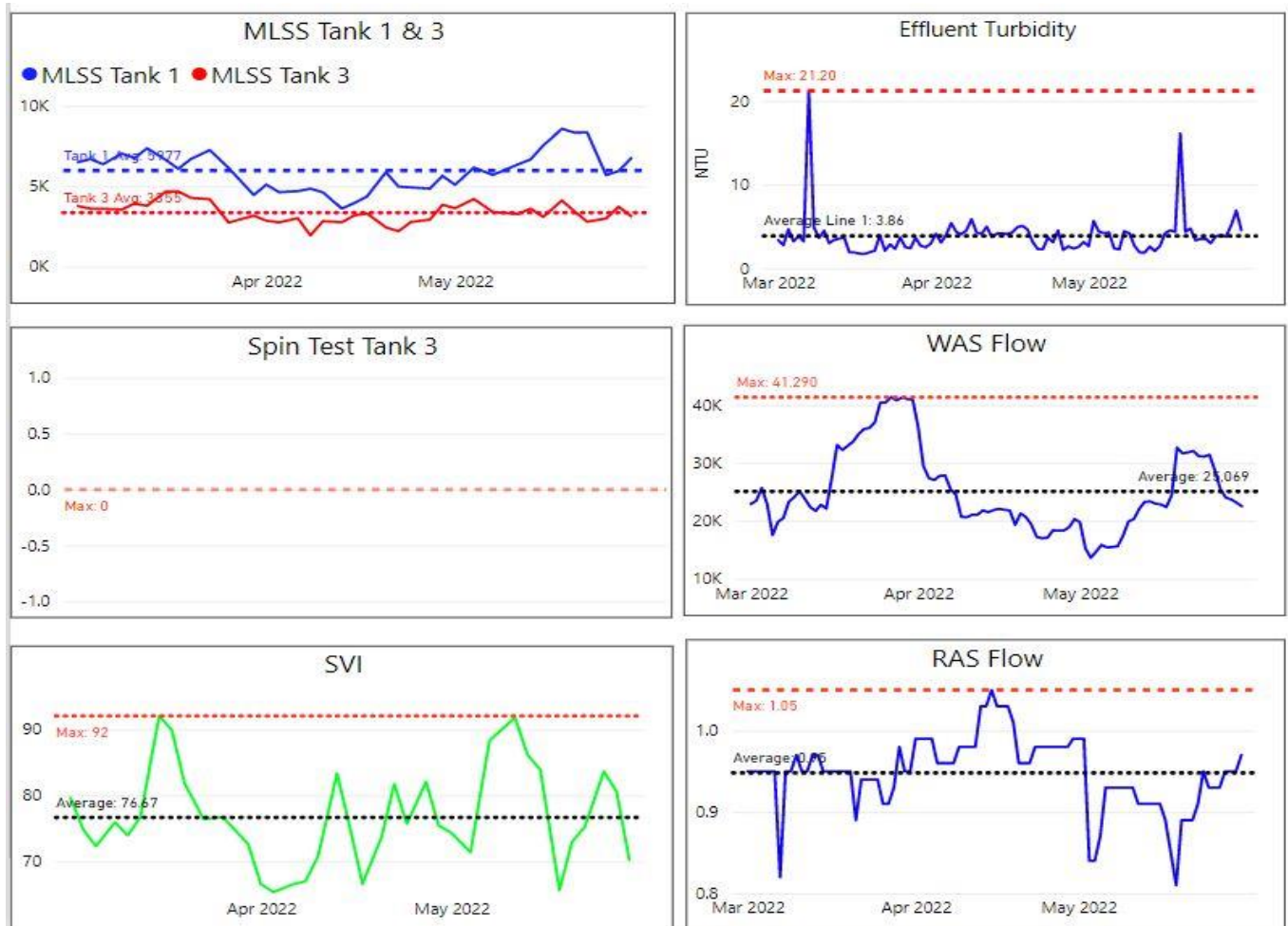
# Monthly Process Summary graphs from Power BI- May 2022

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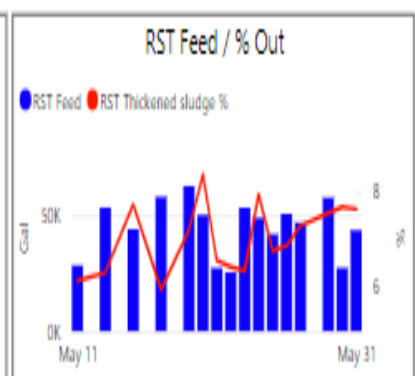
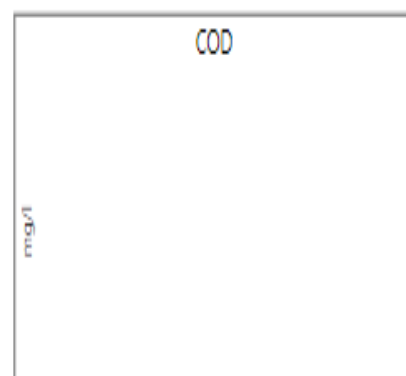
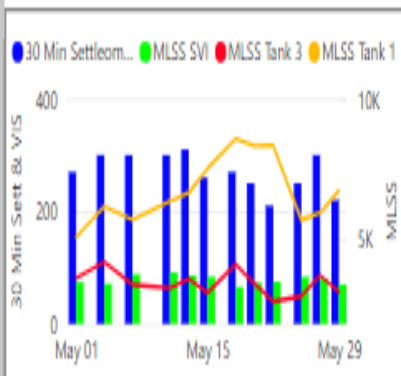
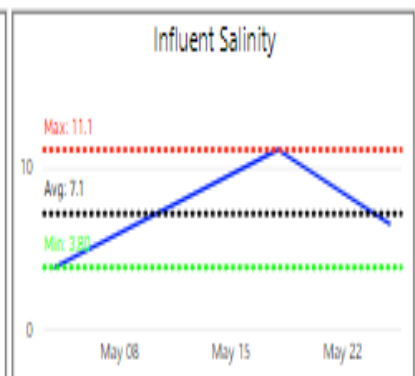
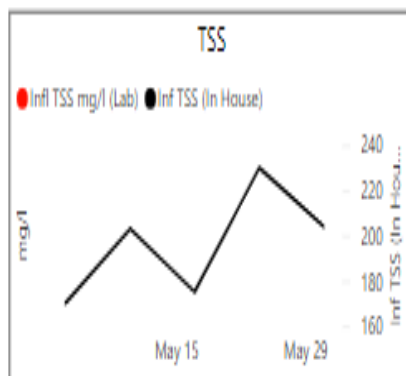
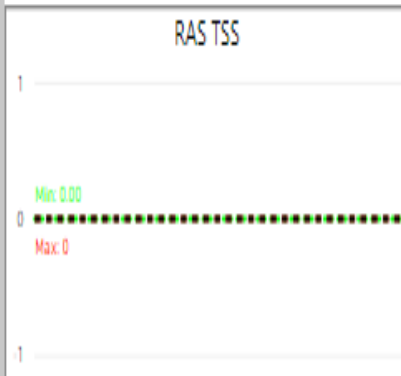
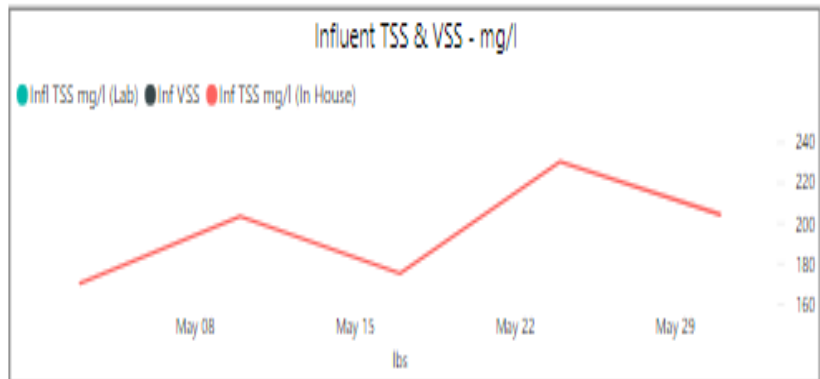
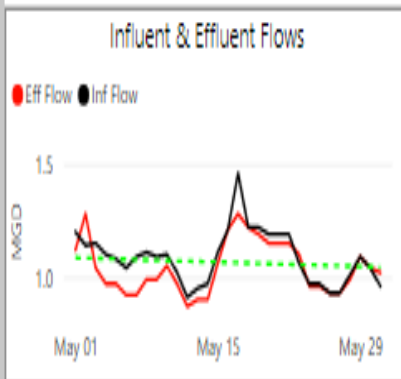


## SECONDARY PROCESSES – POWER BI GRAPHS



3-month period ending on 5/31/22. The tank solids levels under aeration were stable, as there were no significant changes in plant flows during the month.

**Additional Power BI Graphs showing trends of various processes – MAY 2022.**



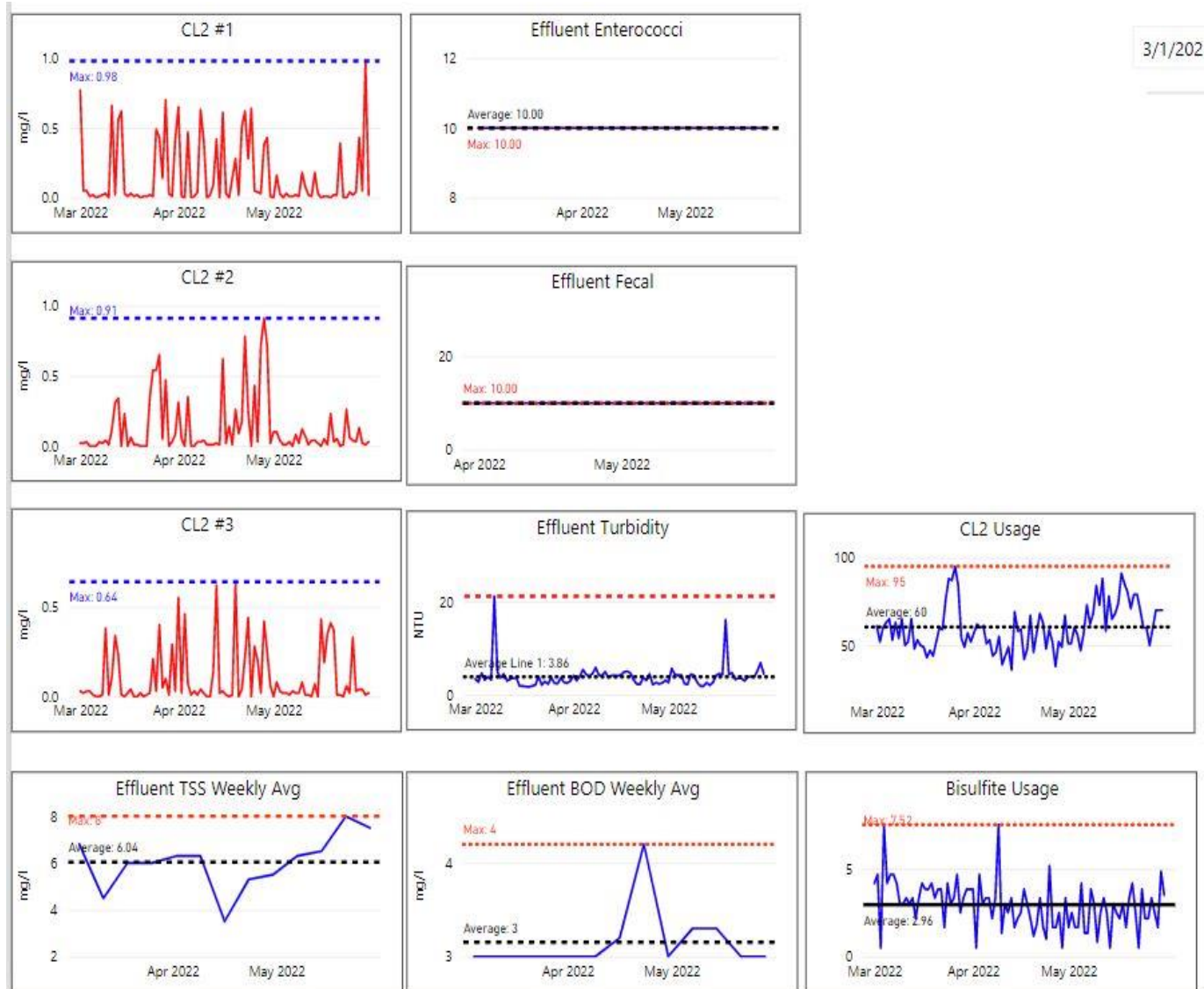
## 4 KEY PERFORMANCE INDICATORS



Parameter	Units	Daily Allowed Max in month	Min %	Weekly Avg. Max Allowed in month	Monthly Avg	Freq	Period Monthly Avg.	Period Weekly Min	Period Daily Max	# Of Samples	# Of Violations
Eff TSS	MG/L	50		45	30	1 X Week	7.7	6.3	10	5	0
Eff TSS	LBS			1152	768	1 X Week	68.4	54.6	85.4	5	0
% TSS Rem	%		85			1 X Month	96.1				0
Eff BOD	MG/L	50		45	30	1 X Week	3.3	3.0	3.9	5	0
Eff BOD	LBS			1152	768	1 X Week	29.3	24	33.2	5	0
% BOD Rem	%		85			1 X Month	97.7				0
Eff Chlorine	MG/L	1.0			0.7	3 X Day	0.08	0.00	0.33	93	0
Eff Fecal	#/100 ML	260			88	1 X Week	10	10	10	4	0
Eff pH	SU	8.5	6.5			1X Daily	6.7	6.5	6.9	31	0
Enterococci	CFU/100 ML	276			35	1 X Week	10	10	10	4	0

**There were 152 effluent samples taken in MAY**

## EFFLUENT COMPLIANCE POWER BI GRAPHS

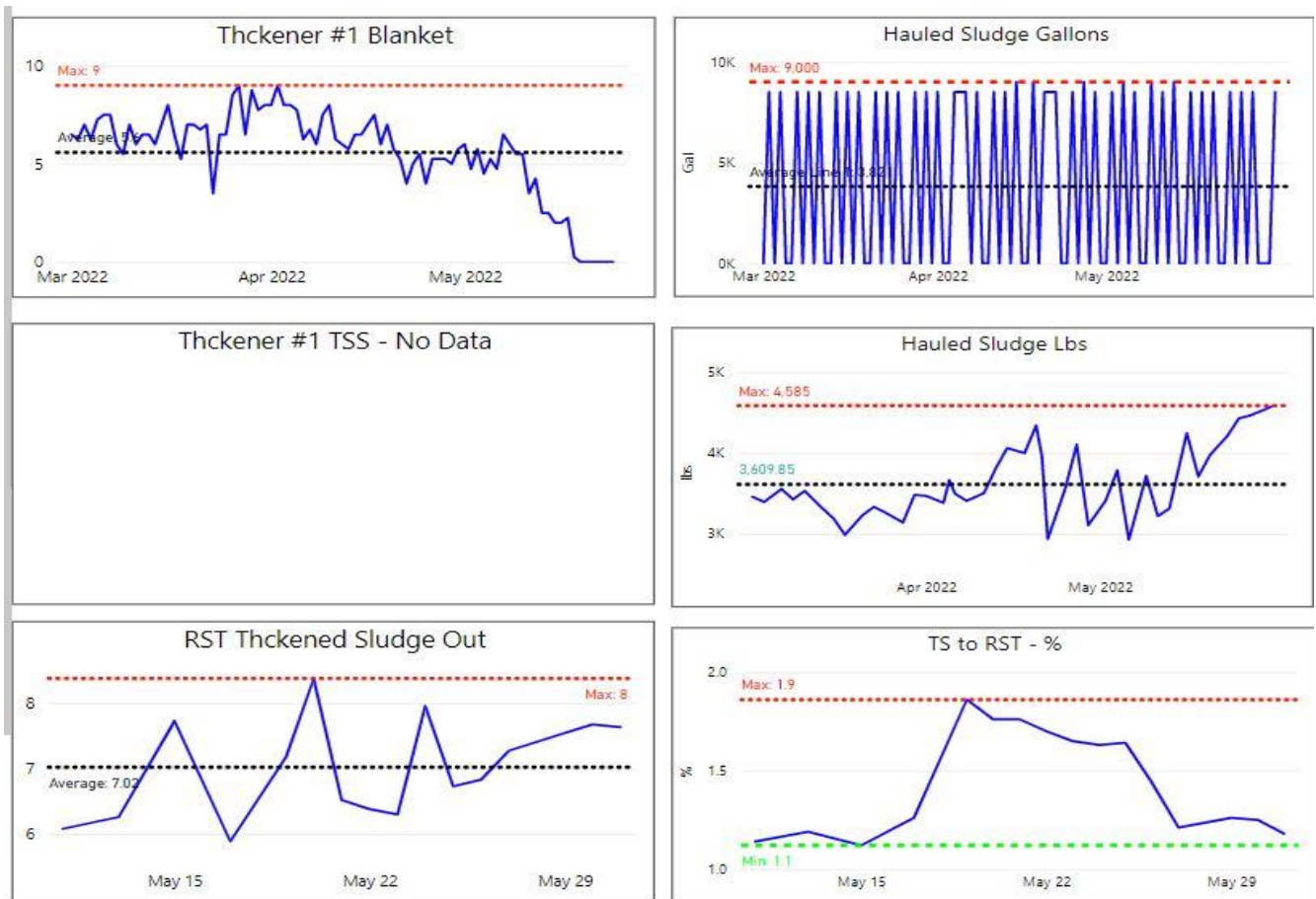


Last 3-month period ending on 5/31/22 - chlorine residuals, effluent compliance, & chemical use. Bleach [sodium hypochlorite] was higher. Turbidity [clarity] of the effluent was stable. Effluent quality was good.

## Sewage Gallons Treated vs Sludge Disposed

Month	Effluent Treated, MG	Sludge Disposed, Gals
May 2020	42.38	133,500
May 2021	42.25	131,500
May 2022	32.38	112,000

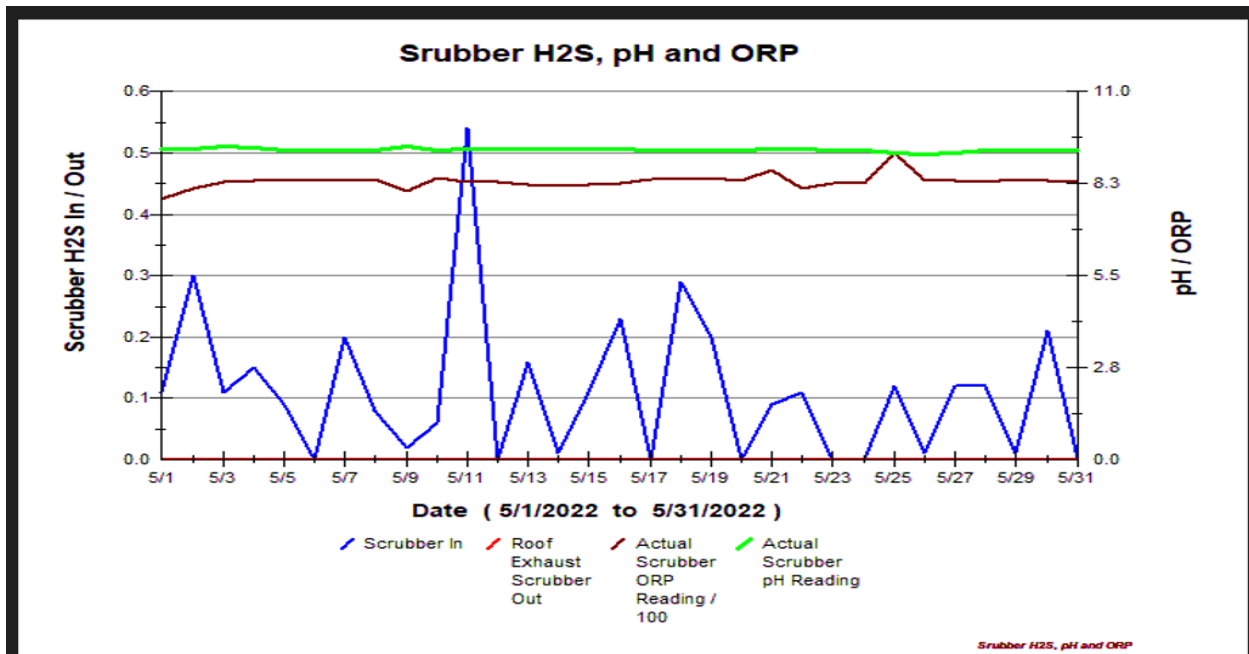
Additional Power BI graphs for sludge solids for 3-month period ending 5/31/22



## 5 ODOR CONTROL

The Bioxide system was on, and the feed rates were moderate. There were some changes and adjustments made upwards, as needed according to data seen at Nantasket/Water MH and XYZ/Nantasket MH. Warming temperatures and low flows were having an impact on H<sub>2</sub>S formation in the collection system. The monthly graphs are attached below. The daily average Bioxide use for May was 40 gallons per day.

- “In-Pipe” bacteria – the monthly changeouts were completed on 5/18 and the bi-monthly changeouts on 5/9.
- No changes: to pump station mixing systems/aerators.
- Slight changes - Hydrogen sulfide (H<sub>2</sub>S) monitoring units were recording and trending on the odor scrubber. [inlet and outlet]. Increased scrubber fan speed slightly. See graph below



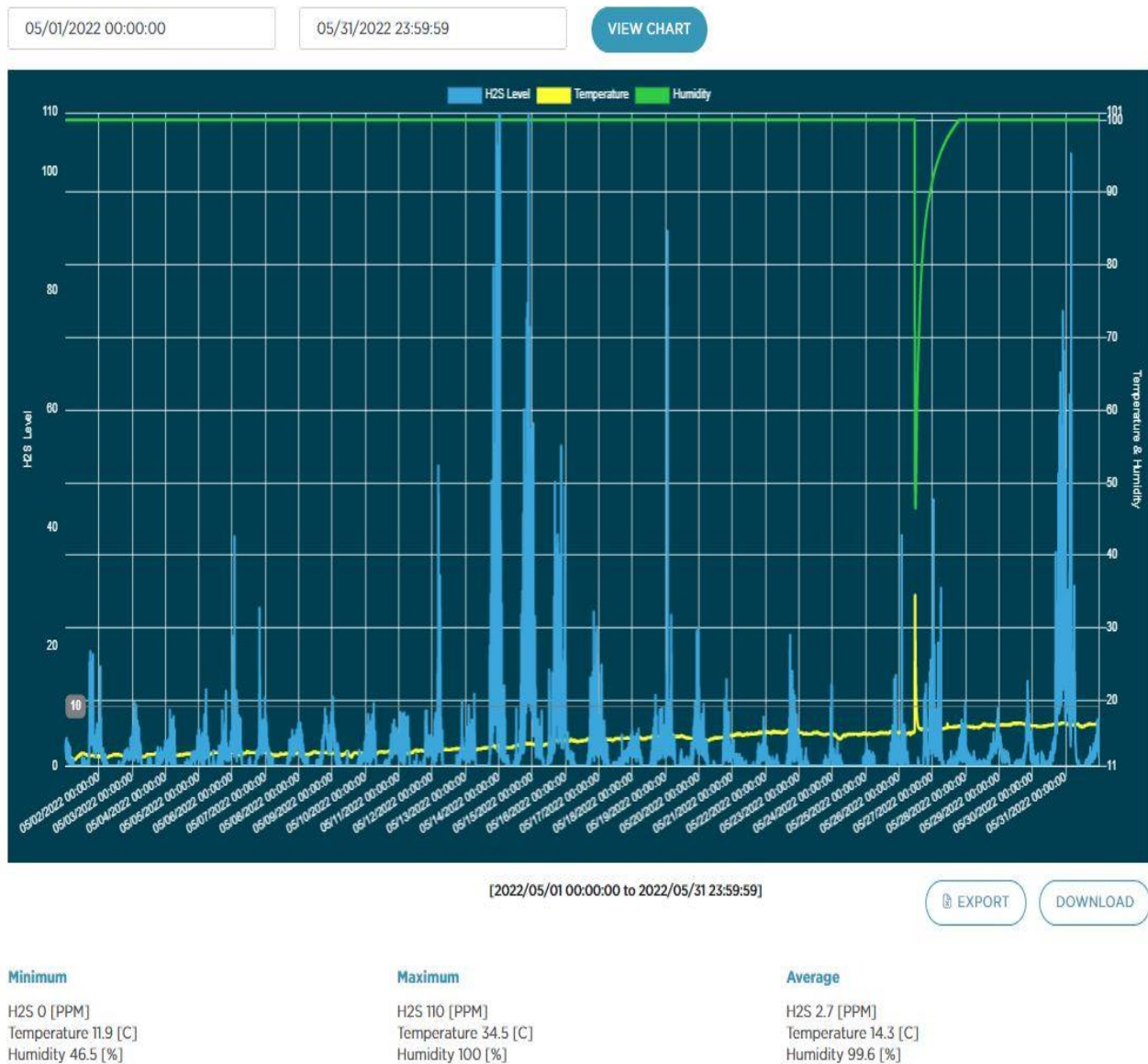
[pictured below: Scrubber trend and trending graphs for H<sub>2</sub>S levels recorded from the vapor link system cellular at Nantasket Ave/Water Street manhole. There were communication issues with the XYZ manhole unit.



## XYZ – Nantasket Ave [closest to plant]

No data due to communication issues. Antenna replaced.

## Nantasket Ave/Water Street [ at end of PS 3 force main and PS 4 discharge]



Pump station #3 - H2S is monitored at the end of the force main at the MH at Nantasket Ave & Water Street. Bioxide is added to have excess nitrate in the sewage system to treat the additional H2S added from other parts of 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.



## 6 MAINTENANCE SUMMARY



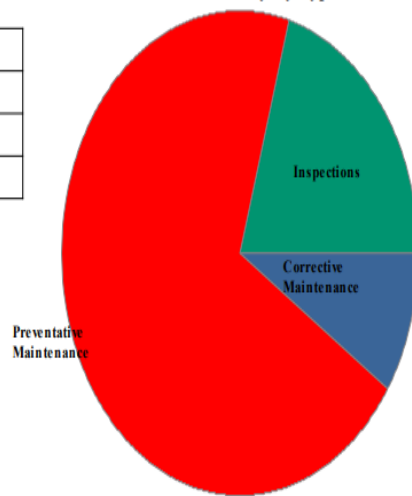
### Maintenance History Report Hull Wastewater

Start Date: 5/1/2022

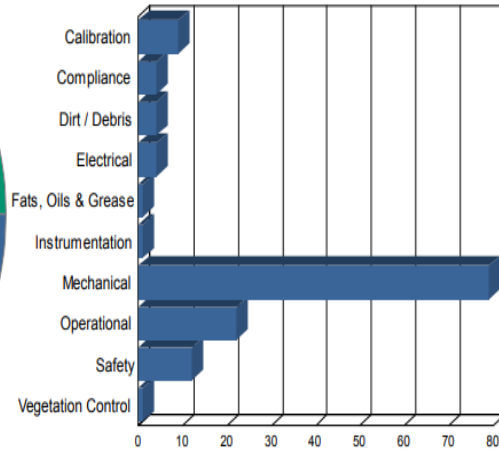
End Date: 5/31/2022

Work Order History By Type

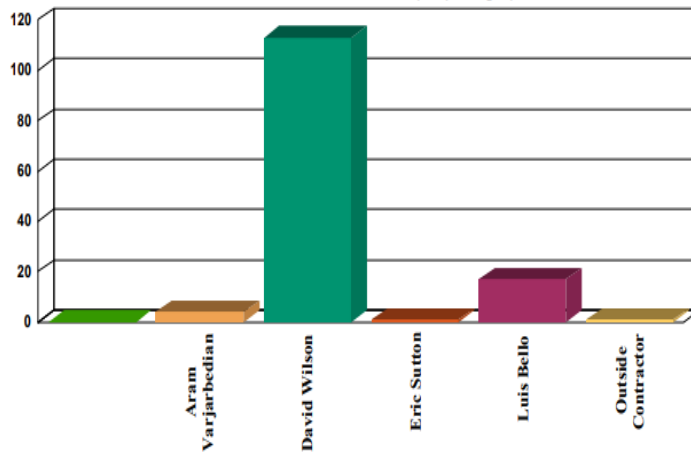
Corrective Maintenance	13
Inspections	28
Preventative Maintenance	96
<b>Total Work Orders</b>	<b>137</b>



Work Order History by Reason



Work Order History By Employee



Employee	WO Count	Labor Hours
Aram Varjarbedian	4	17
David Wilson	113	10
Eric Sutton	1	0
Luis Bello	17	0
Outside Contractor	1	1
Unassigned	1	2
<b>Totals</b>	<b>137</b>	<b>30</b>

## A. TASKS COMPLETED THIS MONTH

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

Additional key items off note are listed below:

- Electrician Glen Fellows rewired in plant water system pump #2 which was rebuilt.
- The D Street pump station was load tested using the trailered Onan back up emergency generator with no issues.

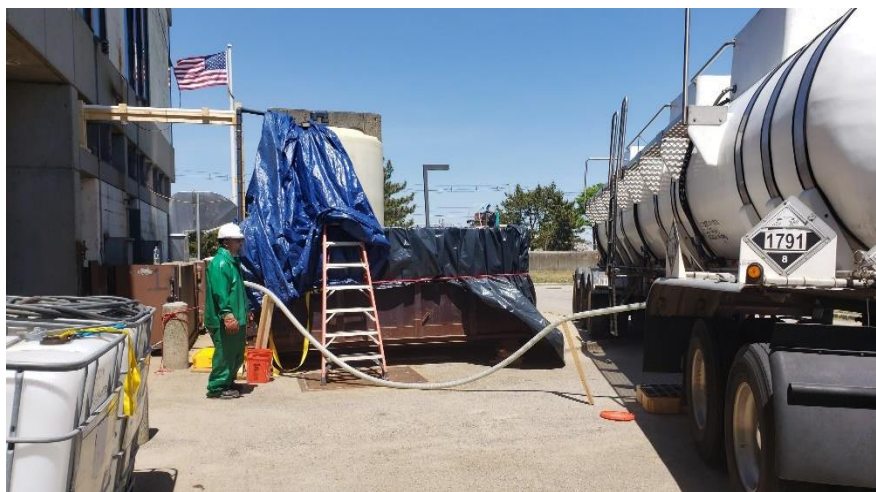


- Ralph Cross of Economy Lab Services was onsite to calibrate all lab measuring equipment- he suggested updating the HACH Colorimeter DR900- a new unit was purchased.
- The plants above ground fuel tank for back-up generator power was filled in anticipation of upcoming hurricane season and potential diesel fuel shortages later in year.
- All plant and pump station hoists and chain falls were assessed and inspected by Applied Industrial. Some minor PM and corrective needs are planned, but all were found to be in proper, safe working order.
- Flow to Primary Clarifier #2 was shut off and the tank bypassed, as this is done annually to help minimize odors around the facility. The tank was cleaned out. Gravity Sludge Thickener #1 was also taken offline and cleaned out as part of the odor mitigation plan during the warmer weather months.
- TECTA America in on 5/25 for the annual roof inspection for all buildings with a report to follow.
- Sludge Holding Tank #2 was inspected & assessed via confined space entry (permit). Some minor air piping repairs were needed before the tank could be put online. The secondary system wasting was then directed to this tank which feeds the Rotary Drum Sludge Thickener [RST]. The RST operation for sludge processing was resumed in May and will continue into the late fall.

- D&C Mechanical completed the various plant water, potable water and drain piping repair projects identified by the HSD and W&C.



- In May, the D&C Construction [mechanical crew] began the sodium hypochlorite tank upgrade project. On May 24th, the temporary hypochlorite feed tank system was put online, so that the inside project work could continue. The temporary system tank can hold 1450 gallons. The H<sub>2</sub>S scrubber feed and contact chamber pumps were connected to the temporary system, while the hypochlorite feed pump to the plant water system was suspended until the new permanent system goes online. [pictured – sodium hypochlorite (bleach) chemical delivery to temporary tank]



- May 17 – a buried 8-inch influent force main gate valve by Aeration Tank #1 was replaced by D&C Construction. The old gate valve was discovered broken in the closed position and could not be opened to allow for a bypass of the Primary Clarifiers. Fortunately, the screenings box did not have to be removed, and the work was completed in 1 day with minimal interruption to the plant process. The plant flow was routed to the primary tanks using the 16-inch force main, and then pumped [using a portable 6-inch pump] to the aeration tanks to allow for normal plant operations.



- W&C staff working on various repair issues with both 6-inch portable trash pumps. Parts are on order from the manufacturer.
- Spring yard cleanup and apply mulch to front areas along Nantasket Ave and Spring St. DPW provided the wood chip mulch and setting of the piles to be spread.



## B. ASSET MANAGEMENT ACCOUNTS

- Please see the attached summary totals and planned expenditures for the Asset Management accounts for contract year (7) and] contract year (8). Most recent through **6/30/22**.
- Planned expenditure lists prepared for year #8. Working to update and prepare for close of Year #7 asset management account. Ongoing review & update.



## 7 SAFETY



- It is Woodard & Curran's policy to maintain a safe and healthy work environment for every employee and to comply with all applicable occupational health & safety regulations.
- No lost time incidents reported in May 2022
- Monthly PM's - Emergency eyewash and shower inspections, fire extinguishers, and emergency lighting inspections completed.
- Monthly calibrations performed on all MX4 & Max XT11 gas meters
- The Pure Safety topic for May was active shooter about and driving awareness.
- The monthly W&C staff safety meeting was held on 5/26. Major topics discussed were poisonous plants about the plant & pump stations, wearing hard hats, and the scaffolding for the ongoing HVAC project
- Monthly safety inspection checklist completed.

## 8 STAFF DEVELOPMENT

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:

- Monthly staff Safety training completed – Pure Safety and the monthly safety meeting. Reviewing W&C's "near-miss" incidents at all the W&C projects occurring in April.
- Regular (usually daily) operational updates and process control discussions, pump station operations, especially with construction projects going on at the plant. Safety Covid-19, dig-safes, etc.

### Staffing related items:

- The project staffing plan was submitted with the monthly DMR.
- Continued to have Saturday & Sunday staff coverage supplemented with part-time staff with intern Joel Terrio working Saturdays & Sundays and other weekdays when he has time off from school. This arrangement allows for the regular staff to be on site more during the week.
- Sunday licensed coverage rotation continued with Aram, Roger, Mike, and Joe.
- Throughout May staffing levels were not affected due to the Covid-19 virus.



## 9 COLLECTION SYSTEM

### 9.1 WET WELL CLEANING

The actual schedule for wetwell cleaning: May 2021 to April 2022:

(X-Cleaned) - (Orange – Inspected) - (Green – See notes) - (blank – no work done)

Frequency of cleaning	Pump Station							
	A	1	3	4	5	6	9	D
May, 2022								
June, 2022								
July, 2022								
Aug., 2022								
Sept. 2022								
Oct.,2022								
Nov, 2022								
Dec., 2022								
Jan., 2023								
Feb., 2023								
March 2023								
April 2023								

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

### 9.2 COLLECTION SYSTEM MAINTENANCE

Collection system work is being documented and tracked in Utility Cloud and a summarized report for May has been included as an attachment with 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 May. Ongoing backup and blockage call outs requiring an increase in labor and time to support. Below summarizes W&C's efforts at the various call out locations.

- Four calls from homeowners for EOne Grinder pump service – see UC summary
- 5/25 - FRM field technicians called in for 49 Wyola Road to assist with removal of an E-1 pump with a broken locking nut. They installed a new pump. The W&C staff was trained on the steps to take if this were to occur again.
- 5/23 – Use push camera to inspect 50 ft of stormwater drainage at 4 Beacon Rd.

- In-Pipe units – ongoing maintenance of the dosing units as needed. Staff conducted board troubleshooting, dosing pump repairs, and replacements as needed.
- Pump station emergency generator runs- weekly no load runs and monthly loaded runs.
- All Pump station wet wells were inspected in May, the monthly inspections are completed and combined with the monthly station PM's.
- Upload new/updated tie-cards to the UC as required.
- On-going Dig-Safe mark outs as requested. These are completed throughout the Town of Hull to assist and facilitate scheduled and emergency gas repairs, broken water mains, upcoming roadway paving projects, and other residential and town projects. All are listed in the UC summary.

# 10 PROJECT MANAGEMENT & ADMINISTRATION



## 10.1 ON-GOING PROJECTS AND SUPPORT ITEMS - MAY UPDATES:

- Ongoing demo & construction work continued in many areas of the operations building for the HVAC project. Collaborating with Contractors, moving equipment & items as needed for areas being worked in. W&C staff checking in with general contractor daily.
- Continued to assist and support of engineering projects with review and feedback as needed.
- The new Pump Station #4 pumps were delivered from manufacturer. W&C working with vendor[s] to get new mechanical seals installed before the pumps can be installed at the pump station. D&C Construction will install the new pumps soon.
- AV working with Joe Parks – Cybersecurity Manager on W&C capabilities and readiness to respond to emergency type situations. Post survey discussions and coordination calls to respond to Town's request on cyber security readiness. Jeannie Dubois IT & Joe Parks Cyber security visited the Hull project on 5/20.
- Ongoing efforts between MS, RS, and AV to transition monthly operating reporting process and get up to date for reporting.
- WC SCADA Group assisted HSD for various Scada data files as requested.
- As noted in the maintenance section, plant staff working with WC Engineering and D&C on the hypochlorite room repairs. The two new 3000-gallon bulk storage tanks were delivered in May.





# Maintenance History Report

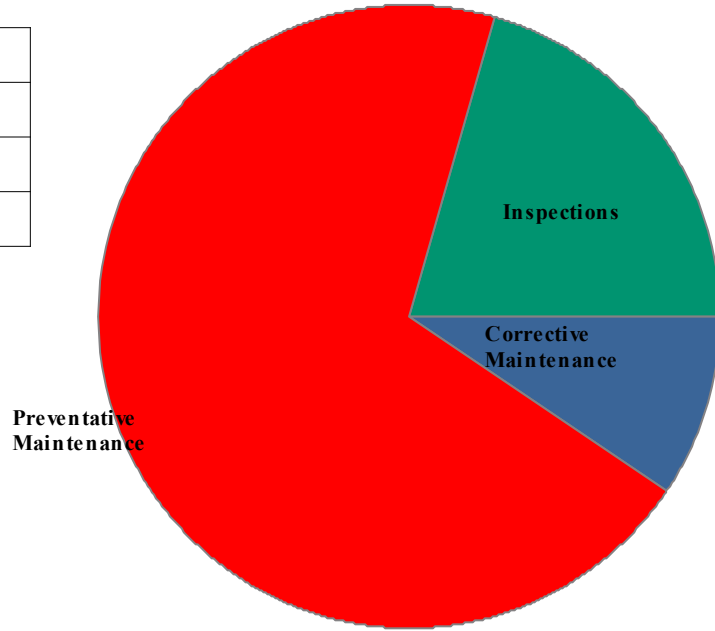
Start Date: 5/1/2022

End Date: 5/31/2022

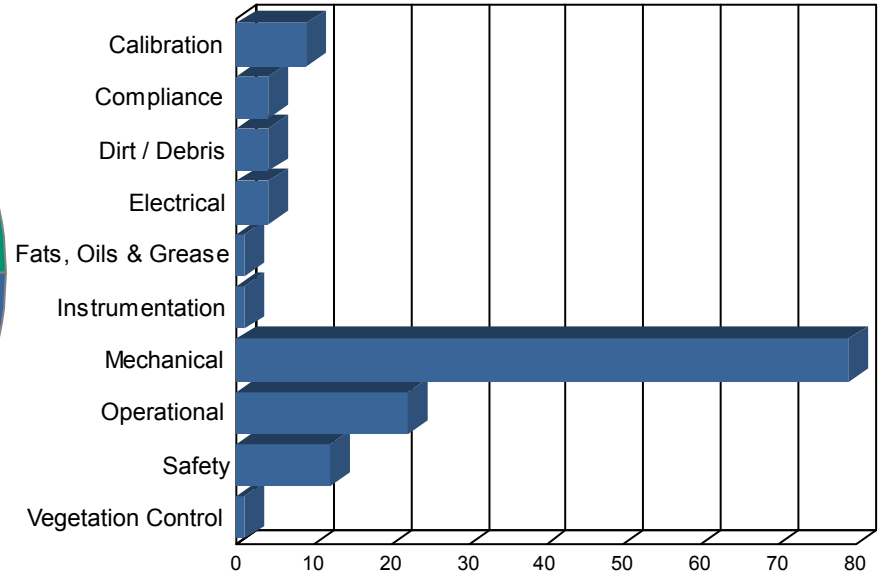
## Hull Wastewater

Work Order History By Type

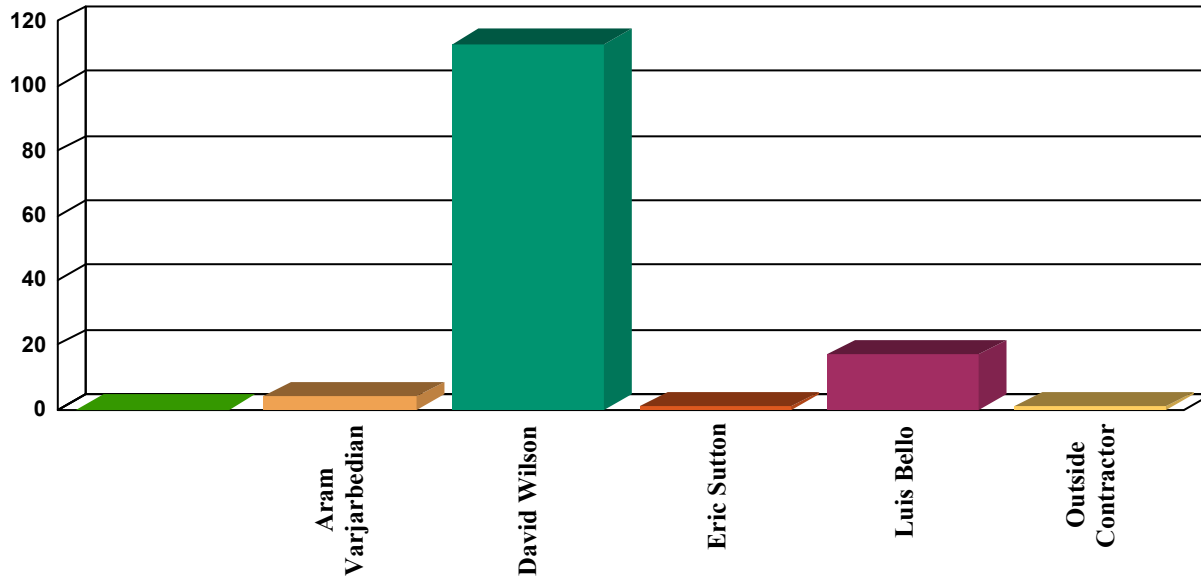
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Work Order History by Reason



Work Order History By Employee



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## Corrective Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
5/2/22	15925	Sludge Storage Tank Loading Connection	6 inch hose needs replacement	Dave W replaced hose that was cracked. install new hose that was ordered.	Aram Varjarbedian	5/2/22	Completed
5/2/22	15918	PS D - DPW Stormwater Pump Station	Onan trailer mounted generator set up	Serviced front jack. Set up in front of station. Plugged in trickle charger and block heater. Set up perimeter with cones	David Wilson	5/2/22	Completed
5/2/22	15919	GasAlert Max XTII #2	Failed O2 sensor	Failed O2 sensor. Calibration failed. Swapped with a known good sensor to verify failed part.	David Wilson	5/2/22	Completed
5/2/22	15920	Secondary Clarifier 2	take off line and clean tank	AV, ES. take offline on 5/1 and start pump down hosing tank. Overnight pumping as needed, and completed on 5/2. All contents pumped back to aeration system.	Aram Varjarbedian	5/1/22	Completed
5/3/22	15921	Emergency Lighting & exit signs	2nd floor hallway	GF replace fixture with new	Outside Contractor	5/3/22	Completed
5/11/22	15924	Primary Clarifier 2	tank cleaning	Isolate tank from service for summer season, begin pump down on 5/10 to approx 60% empty. Complete tank cleaning on 5/11, pumping all contents to GT1.	Aram Varjarbedian	5/11/22	Completed
5/11/22	15922	30 - WW Treatment Plant - General	Repair Pelican Remote Area Lighting Systems	Charged and tested batteries. One is sulfated and does not take charge the other takes charge but dies after an hour. Tested control circuits. Tested fuses. Ordered batteries and installed. Put on charger and tested lights. Good	David Wilson	5/11/22	Completed
5/12/22	15926	PS 6 Pump 2	Replace coupling	DW/ES/LB out to PS 6 for repair and training. LOTO of pump 2. Removed gaurd and set screws in hubs. Soaked in penetrating oil. Worked hubs apart to remove failed coupling. Installed new Woods No. 7j split sureflex coupling. Set hub spacing and tightened set screws. Installed gaurd and reenergized circuit. Good	David Wilson	5/12/22	Completed
5/17/22	15929	Operations Building	Repair failed lighting	Replaced bulbs. Found bad ballast. Replaced bad ballast and found bad sockets. Replaced bad sockets. Tested as good and returned to service.	David Wilson	5/17/22	Completed
5/18/22	15927	PS D Building	Fix bottom hinge	Heavy dose liquid nail behind hinge then used bar clamp until dry	Eric Sutton	5/18/22	Completed
5/19/22	15928	Aeration Tank 3	Lost DO	Check tank still running		5/19/22	Completed
5/20/22	15930	PS 1	Raise grade to cover exposed roots.	DW/ES Got 6ft3 of loam from cemetery. Spread loam around exposed roots. Spread lawn seed and covered with trimmings. Finished station landscaping.	David Wilson	5/20/22	Completed
5/23/22	15931	Hypochlorite Pump 1	Pump fault. Leak detection	Isolated pump assembly. Separated fittings from pump head. Removed pump head. Replaced pump head. Replaced fittings. Returned to service. No leaks. Cleaned containment area.	David Wilson	5/23/22	Completed

## Inspections

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
5/3/22	15548	Fire Extinguishers	WWTF Fire Extinguisher Inspections - Monthly		David Wilson	5/2/22	Completed

## Inspections

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
5/3/22	15562	Truck 2 - 2009 Chevy 2500 HD	Monthly vehicle inspection on do-Forms	Vehicle at Wilder Brothers to correct discrepancies.	David Wilson	5/2/22	Completed
5/3/22	15597	Blower Room Exhaust Fan 1	Monthly operational inspection		David Wilson	5/1/22	Completed
5/3/22	15598	Blower Room Exhaust Fan 2	Monthly operational inspection		David Wilson	5/1/22	Completed
5/3/22	15070	Truck 1 - 2010 Dodge Ram 1500	Monthly vehicle inspection on do-Forms		David Wilson	2/7/22	Completed
5/3/22	15240	Truck 1 - 2010 Dodge Ram 1500	Monthly vehicle inspection on do-Forms		David Wilson	3/7/22	Completed
5/3/22	15391	Truck 1 - 2010 Dodge Ram 1500	Monthly vehicle inspection on do-Forms		David Wilson	4/4/22	Completed
5/4/22	15563	Aeration Electrical Control Manhole	Inspect Aeration Electrical Control Manhole		David Wilson	5/3/22	Completed
5/4/22	15564	Gravity Thickener Electrical Power Manhole	Inspect Gravity Thickener Electrical Manhole		David Wilson	5/3/22	Completed
5/5/22	15458	Eyewash Stations	WWTF Eyewash Inspection - Weekly		Luis Bello	5/1/22	Completed
5/6/22	15504	PS 1	PS #1 Inspection - Monthly		David Wilson	5/5/22	Completed
5/6/22	15505	PS 3	PS #3 Inspection - Monthly		David Wilson	5/5/22	Completed
5/6/22	15516	PS A	PS #A Inspection - Monthly		David Wilson	5/5/22	Completed
5/6/22	15508	PS 4	PS #4 Inspection - Monthly		David Wilson	5/5/22	Completed
5/6/22	15509	PS 5	PS #5 Inspection - Monthly		David Wilson	5/5/22	Completed
5/6/22	15512	PS 6	PS #6 Inspection - Monthly		David Wilson	5/5/22	Completed
5/6/22	15513	PS 9	PS #9 Inspection - Monthly		David Wilson	5/5/22	Completed
5/12/22	15459	Eyewash Stations	WWTF Eyewash Inspection - Weekly		David Wilson	5/8/22	Completed
5/16/22	15315	Backflow Preventer - Generator Room	Backflow Preventor Testing (Generator Room) - Semi Annual		David Wilson	4/13/22	Completed
5/16/22	15316	Backflow Preventer - HVAC Room Back Wall	Backflow Preventor Test (HVAC Room) - Semi Annual		David Wilson	4/13/22	Completed
5/17/22	15574	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms	Insp done, recent oil chg early May, front end links replaced. All set. Mileage 142,000	Aram Varjarbedian	5/2/22	Completed
5/17/22	15463	Emergency Lighting & exit signs	Emergency Lighting Inspection - Monthly		Luis Bello	5/11/22	Completed
5/20/22	15460	Eyewash Stations	WWTF Eyewash Inspection - Weekly		David Wilson	5/15/22	Completed
5/26/22	15461	Eyewash Stations	WWTF Eyewash Inspection - Weekly		David Wilson	5/22/22	Completed
5/27/22	15252	Universal waste area	Universal Waste Storage Area Inspection		Luis Bello	3/8/22	Completed
5/27/22	15405	Universal waste area	Universal Waste Storage Area Inspection		Luis Bello	4/12/22	Completed
5/27/22	15404	Waste Oil Storage	Waste Oil Area Inspection		Luis Bello	4/12/22	Completed
5/27/22	15566	Universal waste area	Universal Waste Storage Area Inspection		Luis Bello	5/10/22	Completed

## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
5/2/22	15406	GasAlert Max XTII #2	monthly calibration		David Wilson	4/28/22	Completed
5/2/22	15396	Ventis MX4 #2 - 4 Gas	4 Gas Meter #2 Calibration - Monthly		David Wilson	4/28/22	Completed
5/2/22	15397	Ventis MX4 #3 - 4 Gas	4 Gas Meter #3 Calibration - Monthly		David Wilson	4/28/22	Completed
5/2/22	15398	Ventis MX4 #4 - 4 Gas	4 Gas Meter #4 Calibration - Monthly		David Wilson	4/28/22	Completed
5/2/22	15399	Ventis MX4 #5 - 4 Gas	4 Gas Meter #5 Calibration - Monthly		David Wilson	4/28/22	Completed
5/2/22	15400	Ventis MX4 #6 - 4 Gas	4 Gas Meter #6 Calibration - Monthly		David Wilson	4/28/22	Completed
5/2/22	15549	GasAlert Max XTII #1	4 gas meter calibration - monthly		David Wilson	5/1/22	Completed
5/2/22	15584	pH meter	Clean and Calibrate		David Wilson	5/1/22	Completed
5/2/22	15424	ORP meter	Clean and Calibrate		David Wilson	4/10/22	Completed
5/3/22	15485	Secondary Clarifier 2	Clean Launder Screens - Quarterly		David Wilson	5/2/22	Completed
5/3/22	15484	Secondary Clarifier 1	Clean Launder Screens - Quarterly		David Wilson	5/2/22	Completed
5/3/22	15476	Mechanical Screen & Washpress System	Monthly Maintenance		David Wilson	5/2/22	Completed
5/3/22	15475	Mechanical Screen & Washpress System	Screen & Wash press - Semi annual maintenance		David Wilson	5/2/22	Completed
5/3/22	15575	Mechanical Screen	Power wash entire unit to clear all accumulated material		David Wilson	5/2/22	Completed
5/4/22	15586	Generators "All Pump Station"	Generator - Monthly Load Test		David Wilson	5/1/22	Completed
5/4/22	15556	PS Kholer Trailer Mounted Generator	Generator - Monthly Load Test		Luis Bello	5/1/22	Completed
5/4/22	15255	Chlorine probe AT1	Weekly calibration		David Wilson	3/28/22	Completed
5/4/22	15411	Chlorine probe AT1	Weekly calibration		David Wilson	4/11/22	Completed
5/5/22	15503	PS 1	PUMP STATIONS - QUATERLY PM'S		David Wilson	5/3/22	Completed
5/5/22	15506	PS 3	PUMP STATIONS - QUATERLY PM'S		David Wilson	5/3/22	Completed
5/5/22	15515	PS A	PUMP STATIONS - QUATERLY PM'S		David Wilson	5/3/22	Completed
5/5/22	15576	High level floats	Weekly High Float Alarm test		David Wilson	5/1/22	Completed
5/5/22	15590	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		David Wilson	5/1/22	Completed
5/6/22	15471	Influent Sluice Isolation Gate	Weekly operate through full range		David Wilson	5/4/22	Completed
5/6/22	15521	PS 1 Generator	PS #1 Generator Inspection and Load Test - Monthly		David Wilson	5/4/22	Completed
5/6/22	15517	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		David Wilson	5/4/22	Completed
5/6/22	15522	PS 3 Generator	PS #3 Generator Inspection and Load Test - Monthly		David Wilson	5/4/22	Completed
5/6/22	15523	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		David Wilson	5/4/22	Completed



## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
5/6/22	15527	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		David Wilson	5/4/22	Completed
5/6/22	15531	PS 4 Generator	PS #4 Generator Inspection and Load Test - Monthly		David Wilson	5/4/22	Completed
5/6/22	15532	PS 5 Generator	PS #5 Generator Inspection and Load Test - Monthly		David Wilson	5/4/22	Completed
5/6/22	15533	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		David Wilson	5/4/22	Completed
5/6/22	15542	PS 6 Generator	PS #5 Generator Inspection and Load Test - Monthly		David Wilson	5/4/22	Completed
5/6/22	15543	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		David Wilson	5/4/22	Completed
5/6/22	15537	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		David Wilson	5/4/22	Completed
5/6/22	15541	PS 9 Generator	PS #9 Generator Inspection and Load Test - Monthly		David Wilson	5/4/22	Completed
5/6/22	15507	PS 4	PUMP STATIONS - QUATERLY PM'S		David Wilson	5/3/22	Completed
5/6/22	15510	PS 5	PUMP STATIONS - QUATERLY PM'S		David Wilson	5/3/22	Completed
5/6/22	15511	PS 6	PUMP STATIONS - QUATERLY PM'S		David Wilson	5/3/22	Completed
5/6/22	15514	PS 9	PUMP STATIONS - QUATERLY PM'S		David Wilson	5/3/22	Completed
5/11/22	15923	Generator #1- Emergency Kohler 750	Replace air filters	Replaced air filter assemblies.	David Wilson	5/11/22	Completed
5/12/22	15591	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		David Wilson	5/8/22	Completed
5/12/22	15577	High level floats	Weekly High Float Alarm test		David Wilson	5/8/22	Completed
5/16/22	15317	Backflow Preventer - HVAC Room Boiler Makeup Feed	Backflow Preventor Test (HVAC Room Boiler) - Semi Annual		David Wilson	4/13/22	Completed
5/17/22	15538	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		Luis Bello	5/11/22	Completed
5/17/22	15544	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		David Wilson	5/11/22	Completed
5/17/22	15534	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Luis Bello	5/11/22	Completed
5/17/22	15524	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		Luis Bello	5/11/22	Completed
5/17/22	15528	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Luis Bello	5/11/22	Completed
5/17/22	15518	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		Luis Bello	5/11/22	Completed
5/17/22	15486	Aeration Tank 1 Oxygen Probe	AT #1 DO Probe Clean and Calibrate - Monthly		David Wilson	5/3/22	Completed
5/17/22	15487	Aeration Tank 3 Oxygen Probe	AT #3 DO Probe Clean and Calibrate - Monthly		David Wilson	5/3/22	Completed
5/17/22	15457	Portable Generator - Honda	Portable Generator Inspection - Monthly		David Wilson	5/4/22	Completed
5/17/22	15499	Primary Sludge Pump 1	Monthly Check Pump Couplings		David Wilson	5/4/22	Completed
5/17/22	15500	Primary Sludge Pump 2	Monthly Check Pump Couplings		David Wilson	5/4/22	Completed
5/17/22	15491	RAS Pump 1	RAS Pump #1 PM - Quarterly		David Wilson	5/4/22	Completed

## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
5/17/22	15492	RAS Pump 1	Monthly Check Pump Couplings		David Wilson	5/4/22	Completed
5/17/22	15493	RAS Pump 2	Monthly Check Pump Couplings		David Wilson	5/4/22	Completed
5/17/22	15494	RAS Pump 2	RAS Pump #2 PM - Quarterly	Pump seal is leaking plant water.	David Wilson	5/4/22	Completed
5/17/22	15496	RAS Pump 3	Monthly Check Pump Couplings		David Wilson	5/4/22	Completed
5/17/22	15495	RAS Pump 3	RAS Pump #3 PM - Quarterly		David Wilson	5/4/22	Completed
5/20/22	15578	High level floats	Weekly High Float Alarm test		David Wilson	5/15/22	Completed
5/20/22	15468	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		David Wilson	5/16/22	Completed
5/20/22	15587	Generators "All Pump Station"	Generator Weekly - Test Run no load		Luis Bello	5/16/22	Completed
5/20/22	15464	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		David Wilson	5/16/22	Completed
5/20/22	15473	Influent Sluice Isolation Gate	Weekly operate through full range		David Wilson	5/18/22	Completed
5/20/22	15553	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		Luis Bello	5/16/22	Completed
5/20/22	15519	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		David Wilson	5/18/22	Completed
5/20/22	15525	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		David Wilson	5/18/22	Completed
5/20/22	15529	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		David Wilson	5/18/22	Completed
5/20/22	15535	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		David Wilson	5/18/22	Completed
5/20/22	15545	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		David Wilson	5/18/22	Completed
5/20/22	15539	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		David Wilson	5/18/22	Completed
5/20/22	15592	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		David Wilson	5/15/22	Completed
5/20/22	15472	Influent Sluice Isolation Gate	Weekly operate through full range		David Wilson	5/11/22	Completed
5/23/22	15497	RST Feed Pump 1	Monthly Check Pump Couplings		David Wilson	5/4/22	Completed
5/23/22	15498	RST Feed Pump 2	Monthly Check Pump Couplings		David Wilson	5/4/22	Completed
5/23/22	15593	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		David Wilson	5/22/22	Completed
5/23/22	15579	High level floats	Weekly High Float Alarm test		David Wilson	5/22/22	Completed
5/25/22	15465	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		Luis Bello	5/23/22	Completed
5/25/22	15588	Generators "All Pump Station"	Generator Weekly - Test Run no load		Luis Bello	5/23/22	Completed
5/25/22	15554	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		Luis Bello	5/23/22	Completed
5/25/22	15490	Wet Scrubber Fan	Scrubber Exhaust Fan PM - Monthly		David Wilson	5/11/22	Completed
5/25/22	15482	Aeration Blower 1	Aeration Blower #1 Air Filter Inspection - monthly		David Wilson	5/24/22	Completed

## Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
5/25/22	15585	ORP meter	Clean and Calibrate		David Wilson	5/10/22	Completed
5/26/22	15469	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		David Wilson	5/23/22	Completed
5/27/22	15520	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		David Wilson	5/25/22	Completed
5/27/22	15526	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		David Wilson	5/25/22	Completed
5/27/22	15530	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		David Wilson	5/25/22	Completed
5/27/22	15536	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		David Wilson	5/25/22	Completed
5/27/22	15540	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		David Wilson	5/25/22	Completed
5/27/22	15546	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		David Wilson	5/25/22	Completed
5/27/22	15474	Influent Sluice Isolation Gate	Weekly operate through full range		David Wilson	5/25/22	Completed
5/27/22	15483	Aeration Blower 2	Aeration Blower #2 Air Filter Inspection - Monthly		David Wilson	5/26/22	Completed
5/27/22	15501	Sludge Transfer Pump 1	Monthly Check Pump Couplings		David Wilson	5/4/22	Completed
5/27/22	15502	Sludge Transfer Pump 2	Monthly Check Pump Couplings		David Wilson	5/4/22	Completed

Date	Asset ID	Asset Description	Asset Class	Name	Workflow Class
5/25/2022 14:03	03-048	34 OCEAN AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/4/2022 14:17	05-057	30 HIGHLAND AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/17/2022 14:29	05-068	15 HIGHLAND AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/11/2022 10:02	06-021	22 TELEGRAPH AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/17/2022 9:38	09-051	13 PT ALLERTON AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/16/2022 11:37	10-004	71 PT ALLERTON AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/17/2022 13:04	10-005	67 PT ALLERTON AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/25/2022 16:12	10058	6" VC Pipe	Hull Sewer Main	Kiely, Brian	CCTV Data Upload
5/4/2022 14:21	11-013	909 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/18/2022 12:33	12-034	4 BEACON RD	Hull Parcels	Sutton, Eric	Hull - Markout
5/19/2022 14:06	12-080	13 V STREET	Hull Parcels	Sutton, Eric	Hull - Markout
5/31/2022 9:30	13-022	170 CADISH AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/31/2022 9:33	13-079	6 S STREET	Hull Parcels	Sutton, Eric	Hull - Markout
5/31/2022 14:15	13-134	301 BEACH AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/24/2022 10:04	14-001	46 SUNSET AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/4/2022 14:01	14-029	35 H STREET	Hull Parcels	Sutton, Eric	Hull - Markout
5/26/2022 14:44	14-126	122 CADISH AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/10/2022 7:06	15-054	32 L STREET	Hull Parcels	Sutton, Eric	Hull - Markout
5/10/2022 7:08	17-074	203 BEACH AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/31/2022 9:18	200 N Truro St	200 N Truro St Grinder Pump	Hull Grinder Pumps	Sutton, Eric	Hull - Grinder Pump Maintenance
5/31/2022 14:55	200 N Truro St	200 N Truro St Grinder Pump	Hull Grinder Pumps	Sutton, Eric	Hull - Grinder Pump Maintenance
5/10/2022 13:42	21-061	106 MANOMET AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/9/2022 15:09	23-001	103 KENBERMA ST	Hull Parcels	Sutton, Eric	Hull - Markout
5/9/2022 15:05	23-002	537 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/9/2022 15:17	23-037	540 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/9/2022 15:14	23-038	125 KENBERMA ST	Hull Parcels	Sutton, Eric	Hull - Markout
5/24/2022 10:07	25-004	65 BEACH AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/24/2022 10:15	25-064	29 MASSASOIT AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/24/2022 10:08	25-160	80 REVERE ST	Hull Parcels	Sutton, Eric	Hull - Markout
5/24/2022 10:11	25-160	80 REVERE ST	Hull Parcels	Sutton, Eric	Hull - Markout
5/9/2022 15:03	26-163	485 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/24/2022 7:32	26-163	485 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/24/2022 7:36	26-164	487 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/9/2022 15:06	26-175	102 KENBERMA ST	Hull Parcels	Sutton, Eric	Hull - Markout
5/24/2022 7:29	26-193	100 KINGSLEY RD	Hull Parcels	Sutton, Eric	Hull - Markout
5/24/2022 7:31	26-195	61 REVERE ST	Hull Parcels	Sutton, Eric	Hull - Markout
5/9/2022 15:01	26-207	476 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/24/2022 10:16	26-207	476 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/9/2022 14:59	26-208	474 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/9/2022 15:03	26-216	475 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/25/2022 8:50	29-030	81 EDGEWATER RD	Hull Parcels	Sutton, Eric	Hull - Markout
5/11/2022 13:03	29-104	54 WHITEHEAD AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/4/2022 14:25	34-015	30 BAY STREET	Hull Parcels	Sutton, Eric	Hull - Markout
5/16/2022 13:29	34-051	10 EASTERN AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/10/2022 7:09	35-053	26 FAIRMOUNT WAY	Hull Parcels	Sutton, Eric	Hull - Markout
5/31/2022 9:06	38 Alsada Rd	38 Alsada Rd Grinder Pump	Hull Grinder Pumps	Sutton, Eric	Hull - Grinder Pump Maintenance
5/16/2022 13:22	41-004	14 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/31/2022 8:59	43-136	38 ALSADA RD	Hull Parcels	Sutton, Eric	Hull - Markout
5/26/2022 12:56	45-181	43 ORLEANS ST	Hull Parcels	Sutton, Eric	Hull - Markout
5/31/2022 14:46	49-070	1 ATLANTIC HOUSE CT	Hull Parcels	Sutton, Eric	Hull - Markout
5/16/2022 13:17	50-053	15 EASTMAN RD	Hull Parcels	Sutton, Eric	Hull - Markout
5/16/2022 13:19	50-072	13 EASTMAN RD	Hull Parcels	Sutton, Eric	Hull - Markout
5/31/2022 14:44	51-022	215 ATLANTIC AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/25/2022 13:52	53-046	104 ATLANTIC AVE	Hull Parcels	Sutton, Eric	Hull - Markout
5/24/2022 7:39	54-031	14 DRIFTWAY	Hull Parcels	Sutton, Eric	Hull - Markout
5/25/2022 14:00	61 Wyola Rd	61 Wyola Rd Grinder Pump	Hull Grinder Pumps	Sutton, Eric	Hull - Grinder Pump Maintenance
5/10/2022 11:43	Bacteria UNIT #21	UNIT #21	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:46	Bacteria UNIT #21	UNIT #21	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:40	Bacteria UNIT #22	UNIT #22	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:24	Bateria UNIT # 8	UNIT # 8	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:15	Bateria UNIT #1	UNIT #1	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:25	Bateria UNIT #10	UNIT #10	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:35	Bateria UNIT #11	UNIT #11	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:39	Bateria UNIT #12	UNIT #12	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:42	Bateria UNIT #13	UNIT #13	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units

Date	Asset ID	Asset Description	Asset Class	Name	Workflow Class
5/26/2022 13:37	Bateria UNIT #14	UNIT #14	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:46	Bateria UNIT #15	UNIT #15	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:36	Bateria UNIT #16	UNIT #16	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:31	Bateria UNIT #17	UNIT #17	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:45	Bateria UNIT #18	UNIT #18	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:33	Bateria UNIT #19	UNIT #19	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:16	Bateria UNIT #2	UNIT #2	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:36	Bateria UNIT #20	UNIT #20	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:40	Bateria UNIT #23	UNIT #23	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:17	Bateria UNIT #24	UNIT #24	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/10/2022 11:41	Bateria UNIT #3	UNIT #3	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:32	Bateria UNIT #3	UNIT #3	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/10/2022 11:40	Bateria UNIT #4	UNIT #4	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:13	Bateria UNIT #4	UNIT #4	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:19	Bateria UNIT #5	UNIT #5	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:18	Bateria UNIT #6	UNIT #6	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:22	Bateria UNIT #7	UNIT #7	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/26/2022 13:41	Bateria UNIT #9	UNIT #9	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
5/5/2022 14:57	MH-20199	SEMS_Asset	Sanitary Manhole	Sutton, Eric	Generic WO

Asset Management Accounts - Year 7							
	FOR MAY 2022 MOR	Actual to date			Projected for Final Estimate		
Account		Budgeted Amount	Spent to Date	Delta	Projected costs and incl PO's	Final est	Delta
07M-101A	Preventive Maint	\$213,028.73	\$149,865.92	\$63,162.81	\$0.00	\$149,865.92	\$63,162.81
07M-102B	Capital and Major Repairs	\$140,000.00	\$153,045.85	(\$13,045.85)	\$0.00	\$153,045.85	(\$13,045.85)
07M-103A	Major Sub Contractors	\$180,465.81	\$258,363.30	(\$77,897.49)	\$0.00	\$258,363.30	(\$77,897.49)
blank							
	Asset Management	\$533,494.54	\$561,275.07	(\$27,780.53)	\$0.00	\$561,275.07	(\$27,780.53)

(\$27,780.53)

Budget expended	Time Status	
	NOW=	6/29/2022
	Start	5/1/2020
70.4%	216.3%	145.9%
109.3%	216.3%	107.0%
143.2%	216.3%	73.1%
105.2%	216.3%	111.1%

07S	D Street	\$7,500.00	\$7,735.92	(\$235.92)	\$0.00	\$7,735.92	(\$235.92)
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103.1%	216.3%	113.1%
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07C	Odor Control Chemicals	\$100,000.00	\$77,077.68	\$22,922.32	\$0.00	\$77,077.68	\$22,922.32
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77.1%	216.3%	139.2%
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Estimated total  
remaining 07M,  
07C (\$4,858.21)

Asset Management Accounts - Year 8							
	FOR M.O.R. May 2022	Actual to date			Projected for Final Estimate		
Account		Budgeted Amount	Spent to Date	Delta	Projected costs and incl PO's	Final est	Delta
08M-101A	Preventive Maint	\$227,514.68	\$13,480.80	\$214,033.88	\$108,500.00	\$121,980.80	\$105,533.88
08M-102B	Capital and Major Repairs	\$140,000.00	\$40,244.49	\$99,755.51	\$160,500.00	\$200,744.49	(\$60,744.49)
08M-103A	Major Sub Contractors	\$192,737.48	\$53,671.33	\$139,066.15	\$116,000.00	\$169,671.33	\$23,066.15
blank							
	Asset Management	\$560,252.16	\$107,396.62	\$452,855.54	\$385,000.00	\$492,396.62	\$67,855.54

\$452,855.54

Budget expended	Time Status	
	NOW=	6/30/2022
	Start	5/1/2020
5.9%	216.6%	210.7%
28.7%	216.6%	187.8%
27.8%	216.6%	188.7%
19.2%	216.6%	197.4%

08S	D Street	\$7,500.00	\$0.00	\$7,500.00	\$0.00	\$0.00	\$7,500.00
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0.0%	216.6%	216.6%
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08C	Odor Control Chemicals	\$100,000.00	\$16,372.80	\$83,627.20	\$0.00	\$16,372.80	\$83,627.20
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16.4%	216.6%	200.2%
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Estimated total remaining 08M, 08C \$151,482.74



Hull 2022-2023 - 08M Projects, Tasks, and Needs - (AV)								
Maintenance Account - Year 8 - 05_01_22 to 04_30_23								
FOR May 2022 M.O.R.					\$385,000.00			<a href="#">6/30/2022 13:22</a>
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 [invoiced and pcard]	On Going		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	\$2,000.00			Various Suppliers for oil and grease. Budgeted \$2000.
1	Generator Prev. Maintenance and Repairs	Pending		101A	\$20,000.00			General PM and CM Repair Work - <b>Placeholder</b> - New PO to be issued
1	Fire Alarm Inspections and Service	Pending		101A	\$3,000.00			Semi Annual - Hart Security [October & April , central station, & Service]budget \$3000. Semi-annual services completed in mid April.
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	On Going		101A	\$1,500.00			Annual task - Applied Dynamics - Inspection Work - May 2022 \$1500 plus some corrective actions, \$1500 left to do for repairs
1	Flow meter verification and calibration	Pending		101A	\$1,200.00			Placeholder - Annual - Ray Ferland or other 1 visit annually - Targeting June 2022
1	Facility Building - Roof Inspection	completed		101A		\$2,800.00		\$2800 Annual Placeholder - Established contract with Tecta America. Completed <b>May 2022</b>
1		Pending		101A				
2	Jerome H2S Meter Inspection	Pending		101A	\$1,100.00			Placeholder if meter is sent out for calibration - \$1,100
1	Janitorial Supplies	On Going		101A	\$3,000.00			Estimated annual expenditures
1	Manhole Inspections	Pending		101A				As required,and/or scheduled
2	General mechanical and electrical items/supplies	On Going		101A	\$20,000.00			Grainger, FWWebb, EJP,Hoadley, McMasterCarr, etc; orig budget \$20,000, adjust tdown as year progresses
1	<b>Thompson Pump repairs 6TS-244</b>	Pending		102B	\$7,000.00			Rotating assembly failure - bearings, shft, mech seal parts & labor. Est Parts \$3200, labor \$3500
2	Hoses	Pending		101A	\$3,000.00			Replacements and/or Service - On-Going - As Needed;
1		Pending		101A				
2	Misc. Materials	Pending		101A	\$2,400.00			Hardware Store - \$200.00 per month - reoccurring expense; budget \$2,400;

Hull 2022-2023 - 08M Projects, Tasks, and Needs - (AV)								
Maintenance Account - Year 8 - 05_01_22 to 04_30_23								
FOR May 2022 M.O.R.					\$385,000.00			6/30/2022 13:22
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
	New Hach Spec Meter for chlorine	completed		101A				replace older/failing unit [DR700]; new unit purchased May 2022
1	Lab Equip Calibration	completed		101A				Annual service \$640
1	RAS pumps - spare impeller	Pending		101A	\$3,000.00			4-6 week lead time ARO
2	6" plug valves [4]	On Going		102B	\$3,600.00			replace GT1 outlet, RAS pump #3 discharge & other. Pratt plug valves -Qty 4. ordered May 2022
	New Magnetic flow meters for RAS and WAS	Pending		102B	\$8,500.00			hardware - does not include installation
2	yard hydrants - installation	Pending		102B	\$6,000.00			sub-contractor labor - pending; Have materials on hand. Spring 2022
1	Mech seals for new PS4 pumps & barrier tanks	Pending		102B	\$9,200.00			Items ordered after approval.
1	Pump Station #4 -New Pumps install	pending		102B	\$13,500.00			by D & C. Late June 2022 - revised estimated installation cost.
1	Effluent Pump #3 - repairs	completed		102B				pump has been returned to facility
1	Sanitaire hardware purchase for aer tk 1	Pending		102B				Purchase more hardware ??
3	D&C plant water and potable water system repairs, upgrades various. Replace 6" potable water valve in basement and misc. valves	On Going		102B				Also check/replace 1 1/4 valves as needed - Requires a water shutdown, other drainage piping, etc. T&M. Estimate \$43,000
2	new effluent P3 - Flowserve	On Going		102B				Update 2/8 to AquaSolutions - purchase of new effluent pump #3 - 60HP pump. Possible 08M
1	Pump Station #3 - spare rotating, assy, or pump	Pending		102B				TBD- estimates being obtained
3	New 4-inch valves for pri building between the tanks Installation	Pending		102B				Valves - cost: \$3000, sub-contracted labor - either WC or outside co.\$5,000 - <b>totl estim \$8,000</b>
3	Odor log data loggers & calibr kit	Pending		102B				Current units obsolete and not supported by company, possibly look at under 05C if funds avail; remove the \$6,000 on 2/6/20 - 06C or 06M
3	Jerome meter replacement	Pending		102B				replace unit, if done \$11,000
3	Gravity Thickener #1 sandblasting/painting	Pending		102B				Estimate \$50,000+ - would need to go out for competitive bid request
2	Duperon Sumitomo Gear boxes	Pending		102B	\$8,500.00			one spare gear box for flex rake and wash compactor [Delte Elec] ordered June 2022

Hull 2022-2023 - 08M Projects, Tasks, and Needs - (AV)								
Maintenance Account - Year 8 - 05_01_22 to 04_30_23								
FOR May 2022 M.O.R.					\$385,000.00			6/30/2022 13:22
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
1	Grit classifier system parts	On Going		102B				waiting for wear shoes - charge is to 07M - estim \$3500
	Plant Water System [Pump and/or parts]	On Going		102B	\$6,000.00			consider spare motor or complete unit
2	Replacement Pumps LS A	On Going		102B	\$8,200.00			Repair of rotating assembly - at IPS shop
1	Electrical Work	On Going		103A	\$25,000.00			Electricians: Glen Fellows, HiVoltage, or other
1	SCADA Work	On Going		103A	\$15,000.00			Steve Rose and the SCADA Support Team; budget \$20,000;
1	E-One Repairs and Replacement	On Going		103A	\$38,000.00			Based on historica/recent costs. E1 repairs where cost-effective & new replacement pumps; control panels, other equip;
1		Pending		103A				
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	On Going		103A	\$8,000.00			As required, plant or pump stations; orig budget \$8,000;
1	Sewer Line Cleaning - Emergencies, pump & haul	On Going		103A	\$15,000.00			Placeholder - As required for various sub-contractors; could be Hoadley, Truax, WindRiver, BMC, or other, collection system & plant; <b>budget \$10,000</b>
1	Collection System and plant - emerg & unplanned calls - Jetting & CCTV work - various contractors	On Going		103A	\$15,000.00			Budget - 15,000,
1		Pending		103A				
3	Pump Station #5 jet lines to wetwell and WW cleaning	Pending		103A				included with wetwell/collection system work
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: \$31,000. Maybe year 8M project ?
4	Generators - Load Bank Testing Plant & Pump Stations	Pending		103A				Look at under 08M or 09M - recently done under 06M.
1		Pending		103A				
1	EESCO MCC work at the Pump Stations	Pending		103A				TBD 2 days - request for quotation
1	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; budget of \$7,500 on hold
	Est grit screw installation	Pending		102B	\$40,000.00			placeholder installation
3 of 4 6/30/2022 1	Est Grit screw purchase	Pending		102B	2022_05_01_08M_Checkbook_YTD \$50,000.00			placeholder hardware purchase08M Planned Costs

Hull 2022-2023 - 08M Projects, Tasks, and Needs - (AV)								
Maintenance Account - Year 8 - 05_01_22 to 04_30_23								
FOR May 2022 M.O.R.					\$385,000.00			<a href="#">6/30/2022 13:22</a>
Priority [1=high]	Description	Status	<i>completed</i>	Task	Estimates & funds remaining	Final Completed Cost	<i>Lead</i>	Comments
TOTAL					\$385,000.00			