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COMMITMENT & INTEGRITY DRIVE RESULTS

HULL WATER POLLUTION CONTROL FACILITY

August
2022

MONTHLY OPERATING REPORT



NPDES NO. MA0101231

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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 August 2022.

- No lost-time incidents for the month of August.
- Continuing Covid-19 awareness- adhering to W&C, Town of Hull, and CDC guidelines and sharing any updates.
- There were 154 effluent samples taken in the month of August - details on page 11. All effluent samples collected were compliant.
- There was one Sanitary Sewer Overflows [SSO] reported, 8/24.
- There was one Alarm call back after hours on 8/5, due to a severe thunder & lightning storm that rolled through in the late afternoon creating power failures at PS #3 and at the plant. W&C staff checked out the stations and made sure all plant and pump station equipment were running properly under emergency generator power
- The plant and collection system odors were relatively low, but higher H₂S were levels seen due to extremely low flows, higher loading, and elevated sewage temperatures. More Bioxide feed was needed. Ongoing remote monitoring with the Vapor-Link for the H₂S levels.
- The Asset Management Accounts summaries for contract year #8 is attached. Latest revision date: 9/26/22.
- There were four E-One grinder pump calls in August:
- W&C's O&M continued its efforts to support the various ongoing construction and engineering projects at the plant - see the projects section.
- The weekly Bio Bot Covid-19 wastewater sampling & monitoring program continued with W&C staff assisting Brian Kiley of the HSD when needed.
- The Oil Spill Prevention, Control, and Countermeasure Plan [SPCC] annual review was completed and reviewed by all W&C staff.

***Mike Sullivan – Plant Manager
Town of Hull WPCF
9/27/2022***

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



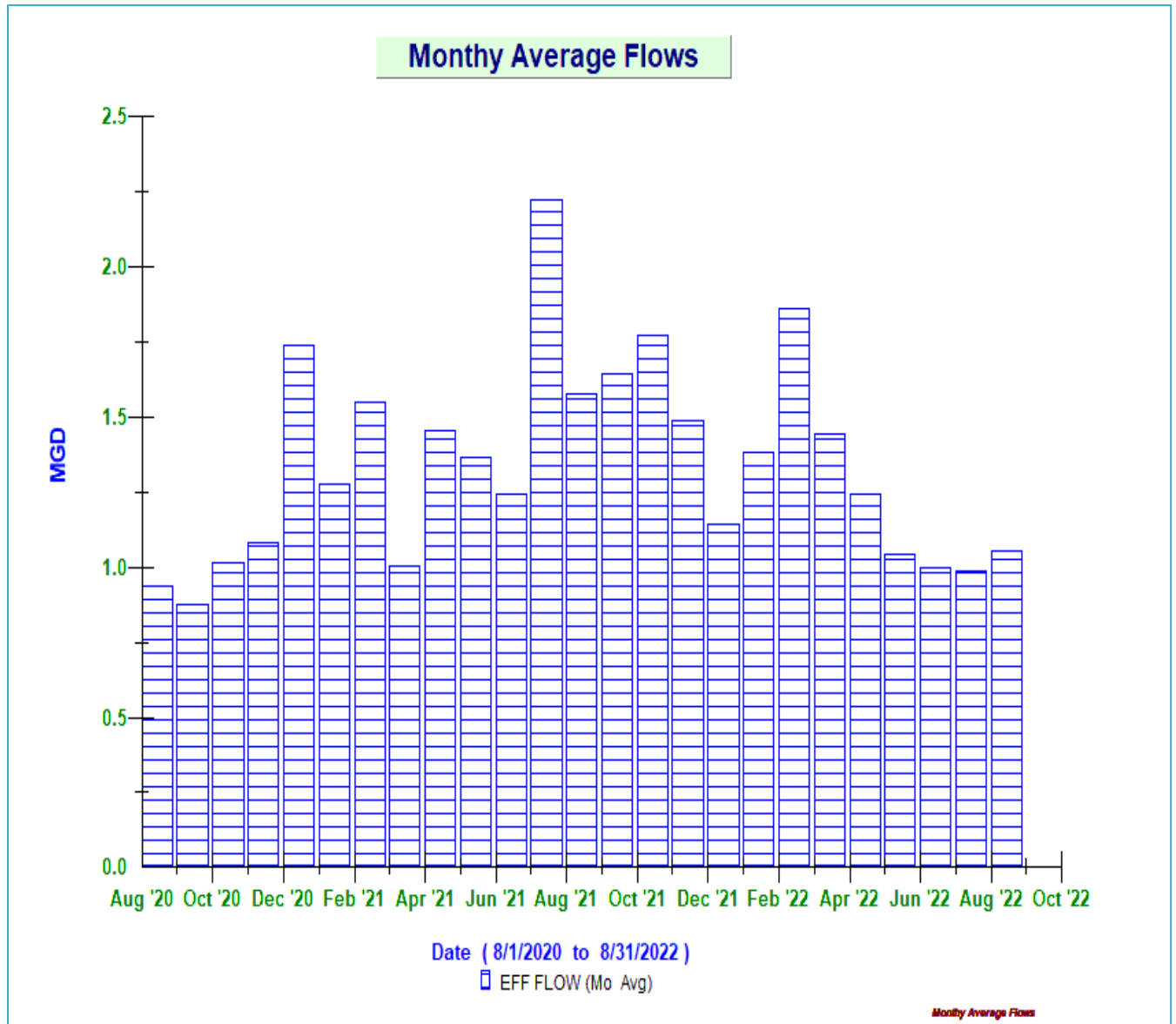
Average Daily Flows and Loadings for the Month: AUG

Month / Year	Eff Flow	Inf Flow	Inf BOD	Inf TSS	Eff BOD	EFF TSS
	MGD	MDG	LBS	LBS	LBS	LBS
Aug '20	0.94	0.98	1,145.37	1,875.37	41.88	134.71
Aug '21	1.58	1.89	1,970.14	3,516.41	37.23	74.48
Aug '22	1.05	1.16	2,045.30	3,000.93	60.90	203.97

* 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.

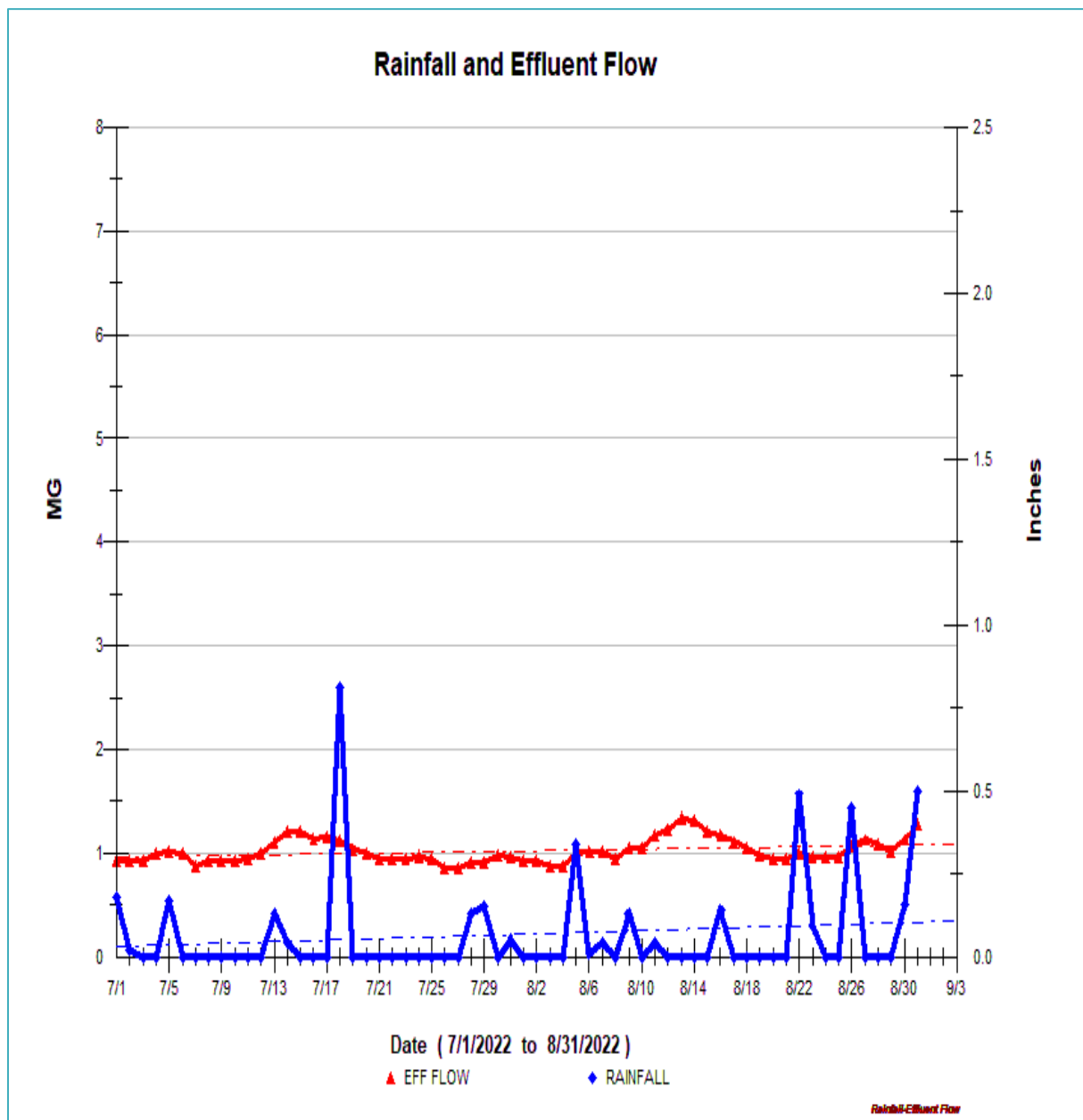
A. AVERAGE EFFLUENT MONTHLY FLOWS – 2+ YEAR COMPARISON

The monthly average flow for August was 1.05 MGD, slightly higher than July's .99 MGD. Total precipitation for August was 2.39 inches, and like the July total of 2.48 inches. No impact on plant flow due to the very dry conditions. 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].



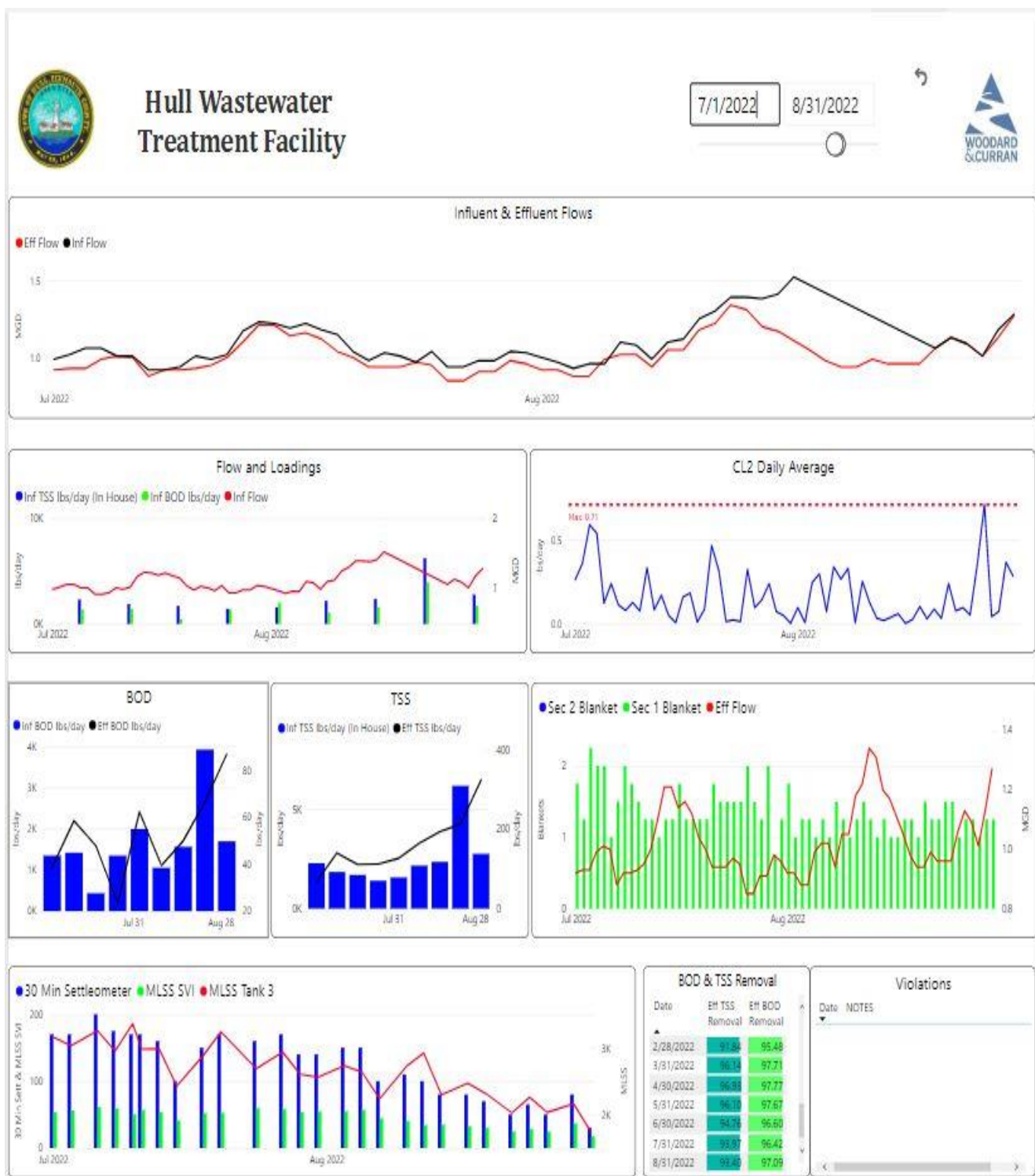
3 COMPLIANCE



➤ Plant Effluent

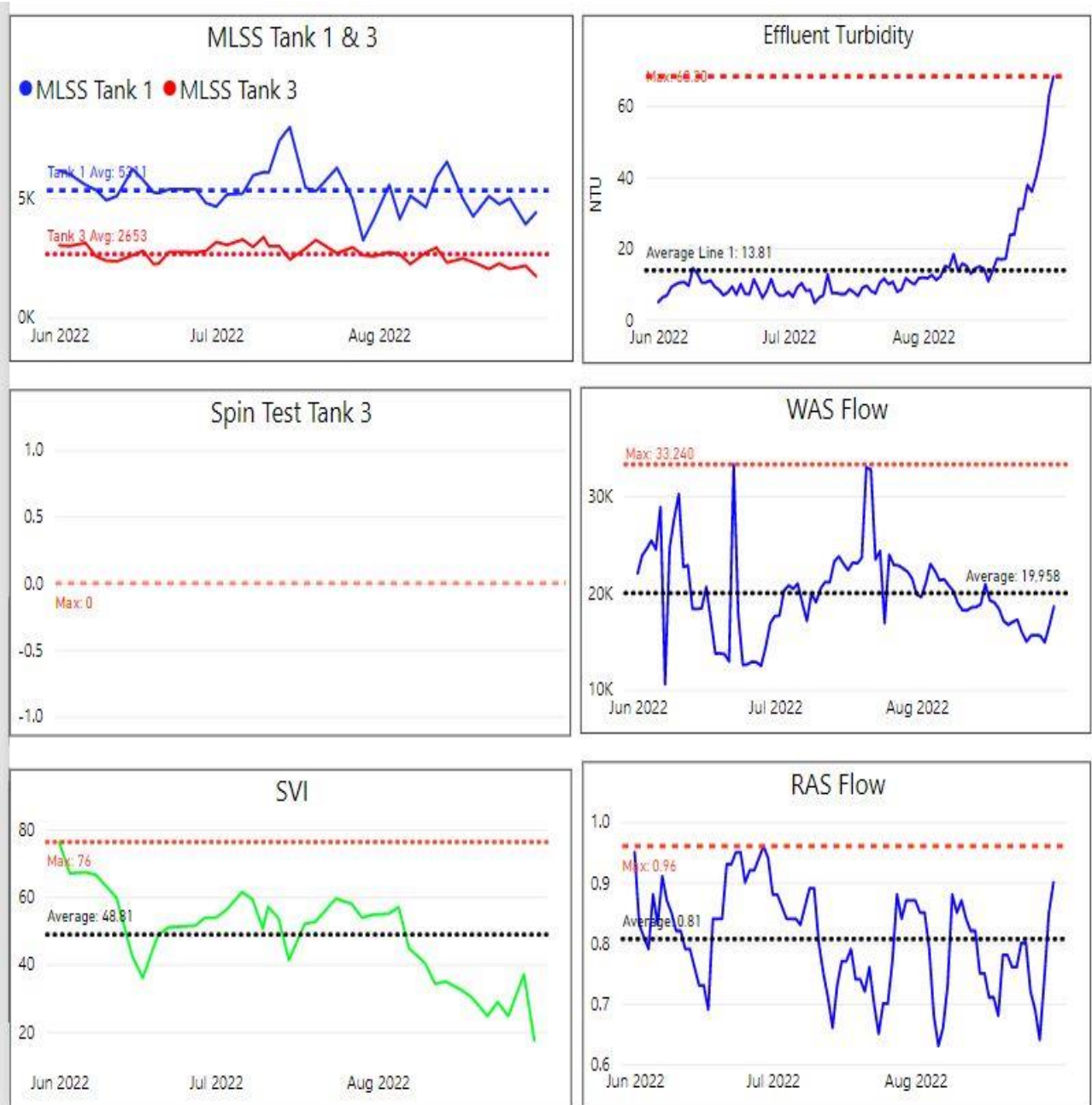
There were no permit exceedances in August.

- Plant process conditions were fairly stable and compliant during the month, and the process tank configurations remained unchanged. With the extremely low flows and lower plant organic loading, the biological process trended towards an older sludge, which exhibited faster sludge setting and higher turbidity in the effluent. Process adjustments were implemented by increasing the sludge wasting and higher disinfection dosage.
- There was one Sanitary Sewer Overflow [SSO] that was reported to the MA DEP on 8/24/22. The resident at 55 Gosnold Street called the HSD to report that their E-One grinder pump chamber was leaking. W&C responded and determined that the pump was not working. The tank was immediately pumped down, and it was then determined that the pump had a mechanical failure because of a debris blockage. A small area around the chamber was affected, with less than 30 gallons leaking onto the ground. All the sewage debris was raked up and powdered lime applied over the affected area. The incident was reported through the new public reporting portal as required by the MADEP. The Town recently implemented the new procedures.
- A Copy of the monthly NPDES report for August 2022 was submitted to the EPA, the DEP, and the Hull Sewer Dept.
- SPCC – program review by plant staff. Some minor program manual updates were inserted into the plan binder. The plan is due for a complete review and update in 2024.



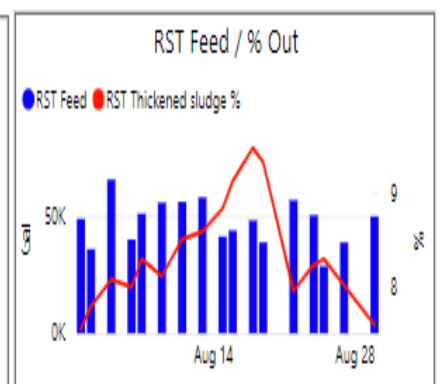
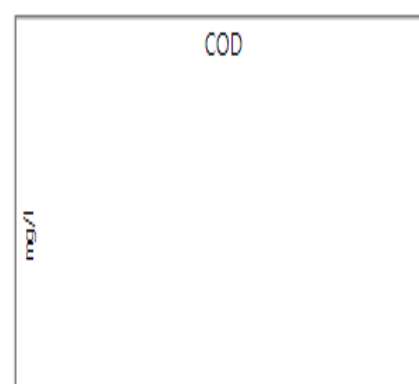
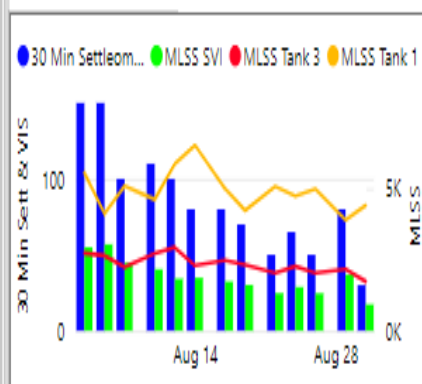
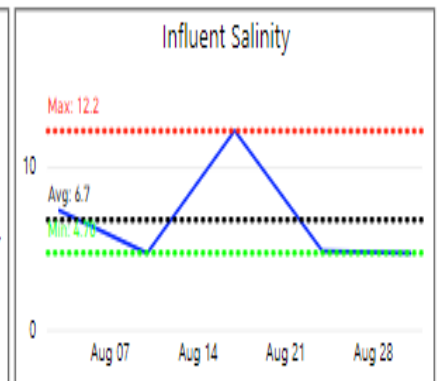
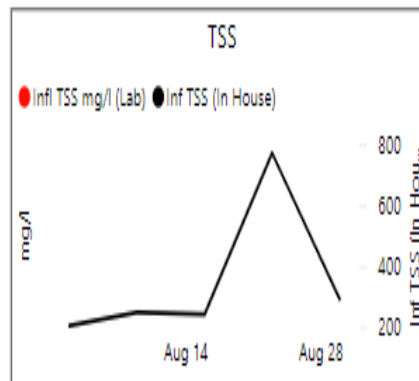
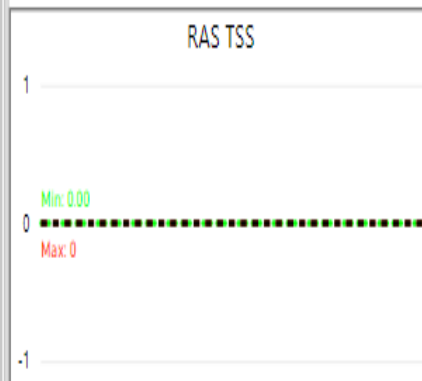
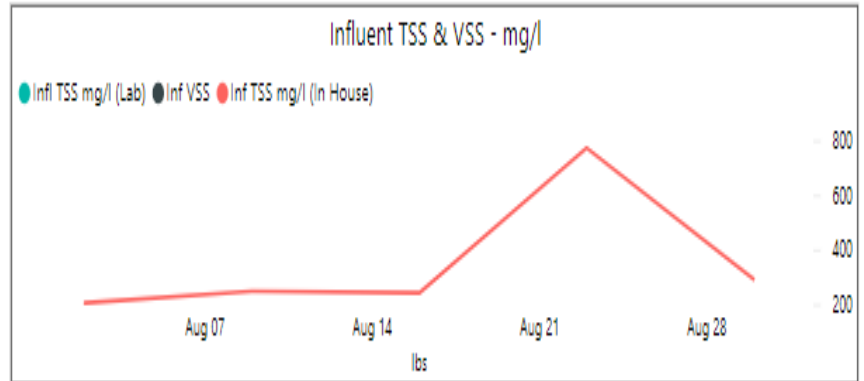
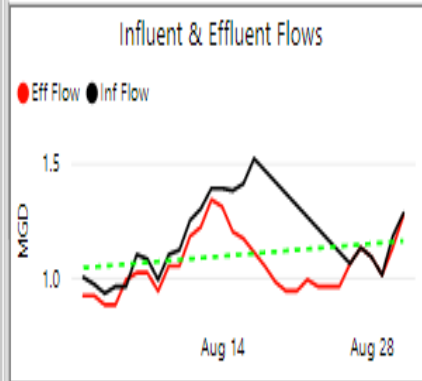
Two Monthly Process Summary graphs from power BI – July-August.

SECONDARY PROCESSES – POWER BI GRAPHS



3-month period ending on 8/31/22. 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 – August 2022



4 KEY PERFORMANCE INDICATORS



<u>Permit Compliance</u>												
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 Violations
Eff TSS	104 / 999081	MG/L	50		45	30	1 X Week	23.2	16.5	34.3	5	0
Eff TSS	184	LBS			1152	768	1 X Week	204.0	126.6	323.3	5	0
% TSS Rem	208	%		85			1 X Month	93.4			1	0
Eff BOD	108	MG/L	50		45	30	1 X Week	7.0	4.5	9.2	5	0
Eff BOD	185	LBS			1152	768	1 X Week	60.9	39.4	86.7	5	0
% BOD Rem	207	%		85			1 X Month	97.1			1	0
Eff Chlorine	142	MG/L	1			0.7	3 X Day	0.15	0.00	0.71	93	0
Eff Fecal	111	#/100 ML	260			88	1 X Week	10.0	10.0	10.0	5	0
Eff pH	136	SU	8.5	6.5			1X Daily	7.0	6.5	7.3	31	0
Enterococci	255	#/100 ML	276			35	1 X Week	10	10	10	5	0

There were 154 effluent samples taken in August 2022

EFFLUENT COMPLIANCE POWER BI GRAPHS

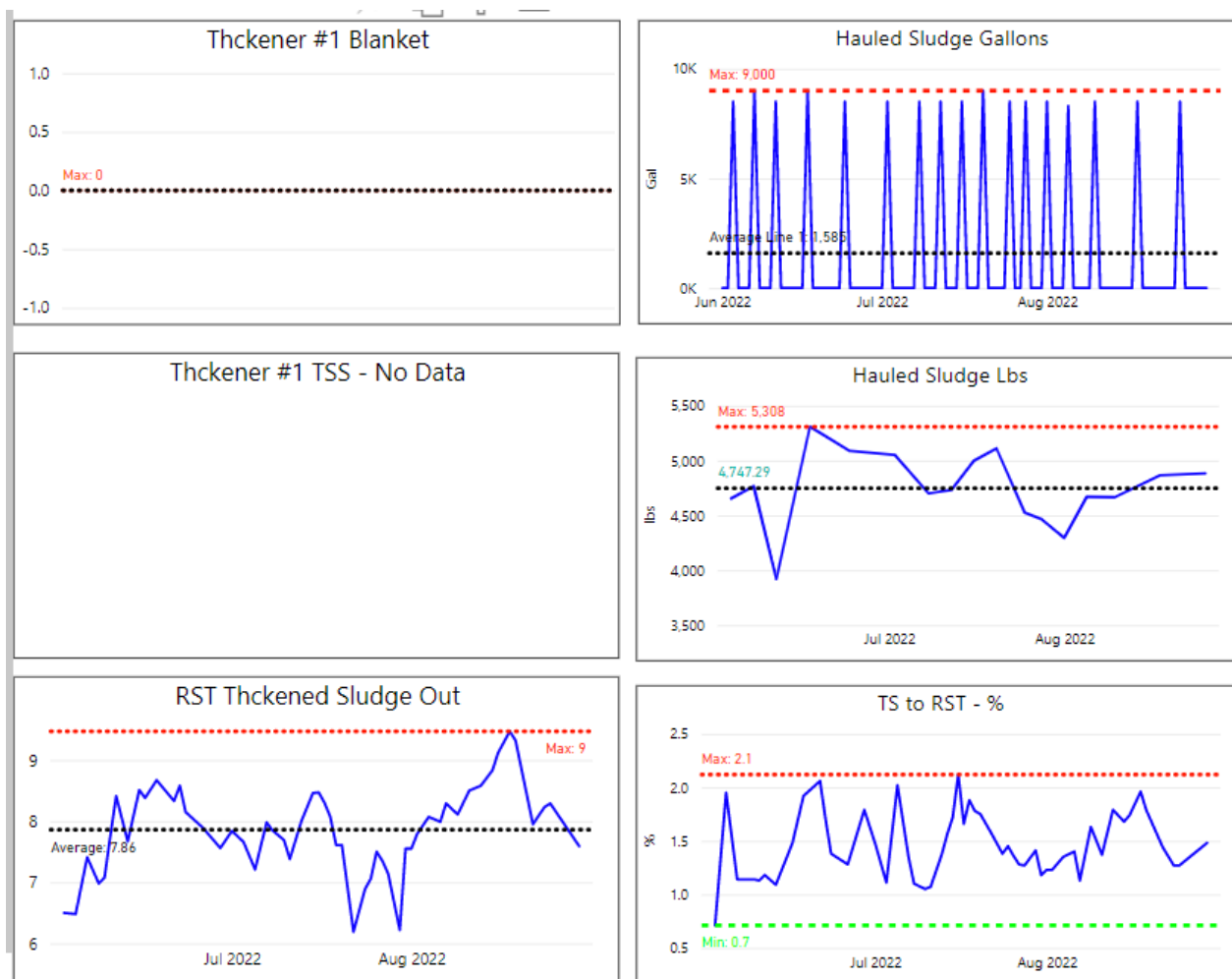


Last 3-month period ending on 8/31/22 - chlorine residuals, effluent compliance, & chemical use. Bleach [sodium hypochlorite] use is still trending high, while sodium bisulfite is unchanged. Effluent Turbidity and TSS was satisfactory but trended higher near the end of the month.

Sewage Gallons Treated vs Sludge Disposed

Month	Effluent Treated, MG	Sludge Disposed, Gals
August 2020	29.01	42,500
August 2021	48.96	94,000
August 2022	32.67	42,300

Additional Power BI graphs for sludge solids for 3-month period ending 8/31/22. The gravity thickener is still offline.



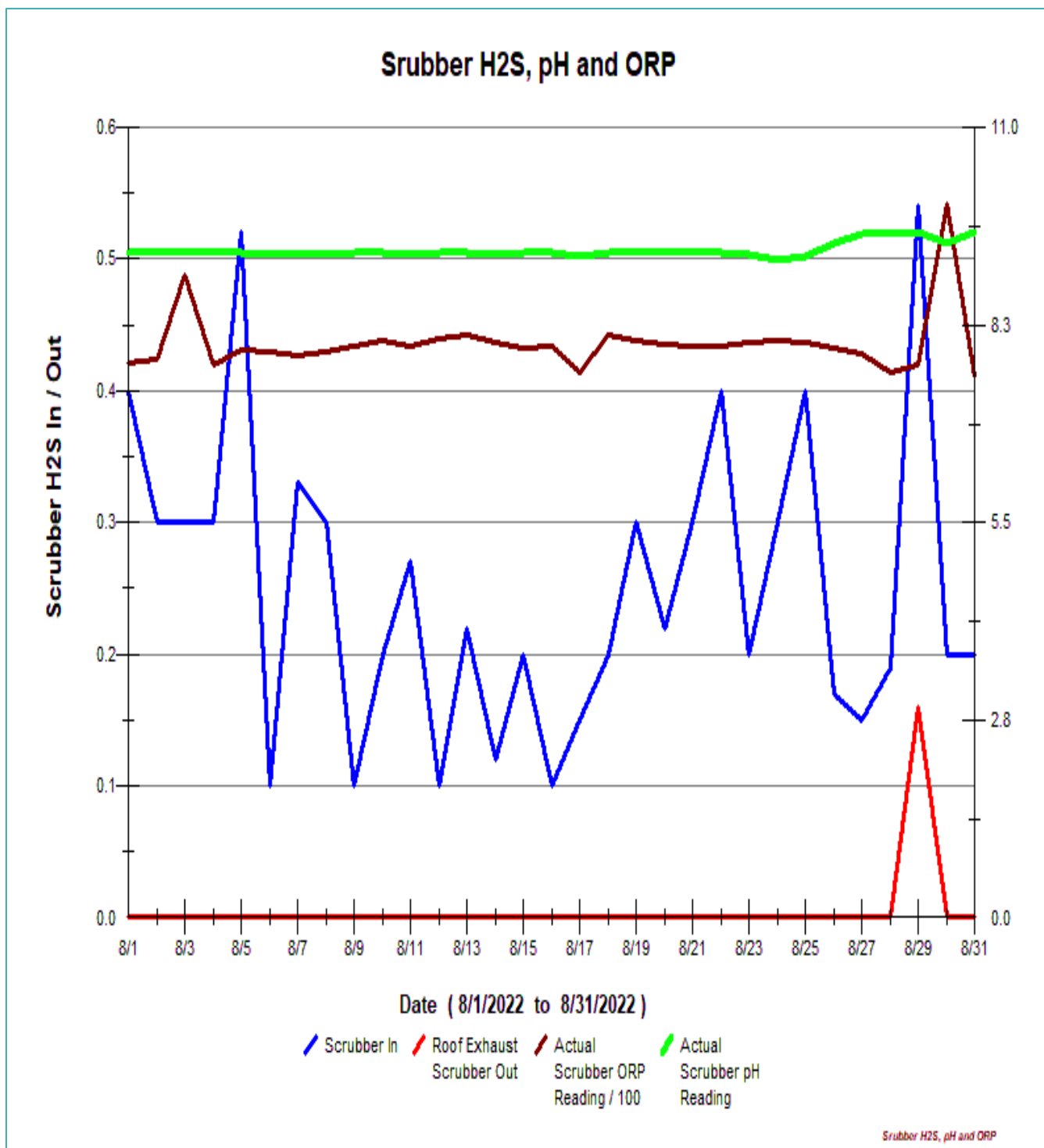
5 ODOR CONTROL

There were four odor complaint calls received in August to the sewer department.

- 8/20 - Hull Police Office came to the plant as a resident called with an odor complaint. There was no address given. Jerome H₂S readings were done around the plant and surrounding area but no H₂S was detected. The odor scrubber was functioning fine.
- 8/27 – An odor complaint was called in on 8/27 from 88 Main Street. The staff checked that area but did not detect any H₂S readings on the Jerome H₂S meter.
- 8/29 - 2 Harborview Road complained about plant odors, but with the gusty wind conditions, there were no H₂S readings detected, and the scrubber was operating with no issues.
- 8/30 – A few complaints from Crest Road and Lafayette Street homeowners were called in. By the time W&C staff were in that area to do Jerome meter H₂S readings the H₂S levels were minimal and near zero. These odors may have come from the area near the recent observation pit that was dug for the Force Main #9 assessment. The force main line was already back in service at that time, and the pit had been filled in. There is the possibility that some sewage may have spoiled, and subsequent odors may have been emanating out from the soil and this was not confirmed. Powdered lime was spread over the disturbed area. Brian Kiley of the HSD took a sample of the soil, and had it evaluated for fecal coliform bacteria by RI Analytical Labs and no bacterial contamination was detected. W&C staff continued to monitor the area for H₂S gases.

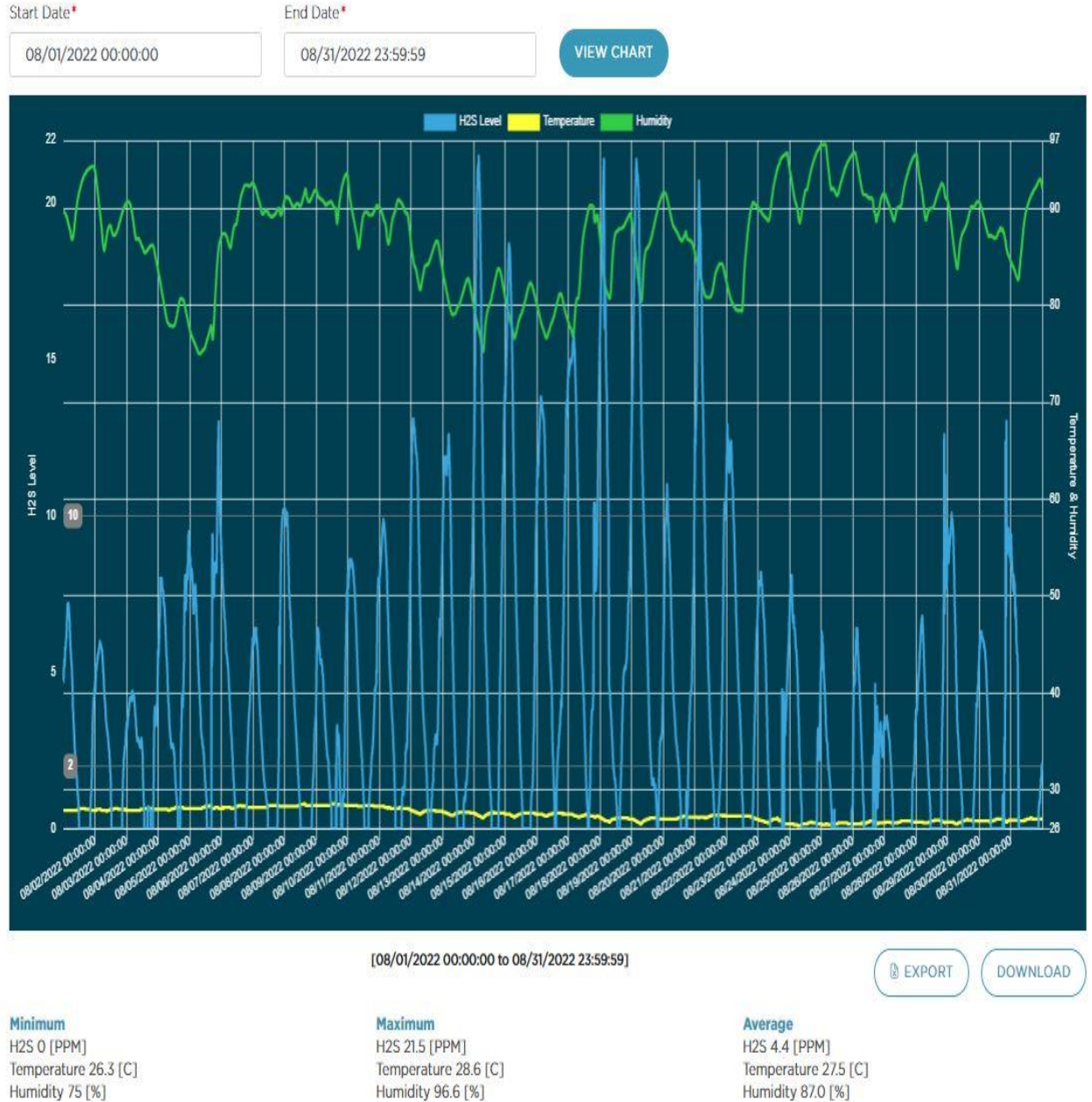
The Bioxide system was on, and the feed rates were increased significantly as the month progressed to meet the higher hydrogen sulfide (H₂S) generation in the system. The changes and adjustments were made according to the data seen at Nantasket/Water MH and XYZ/Nantasket MH. The warm temperatures and extremely low collection system flows were having a significant impact on H₂S formation. The monthly graphs are attached below, the daily average Bioxide use for August was approximately 127 gallons per day.

- The “In-Pipe” bacteria containers were changed out on August 5 & 29
- No changes: on pump station mixing systems/aerators. Aerators are on continuously where installed.
- Slight changes - Hydrogen sulfide (H₂S) monitoring units were recording and trending on the odor scrubber. [inlet and outlet]. Increased scrubber fan speed to maximum speed. See graph below



[pictured below: Scrubber trend and trending graphs for H2S levels recorded from the vapor link system cellular at XYZ Street/Nantasket Ave and Nantasket Ave/Water Street manholes.

XYZ – Nantasket Ave [closest to plant]



The odor data logging unit at XYZ monitoring the overall H2S levels close to the plant. Highest H2S levels seen during the hours of approximately 9:00PM and 3:00AM.

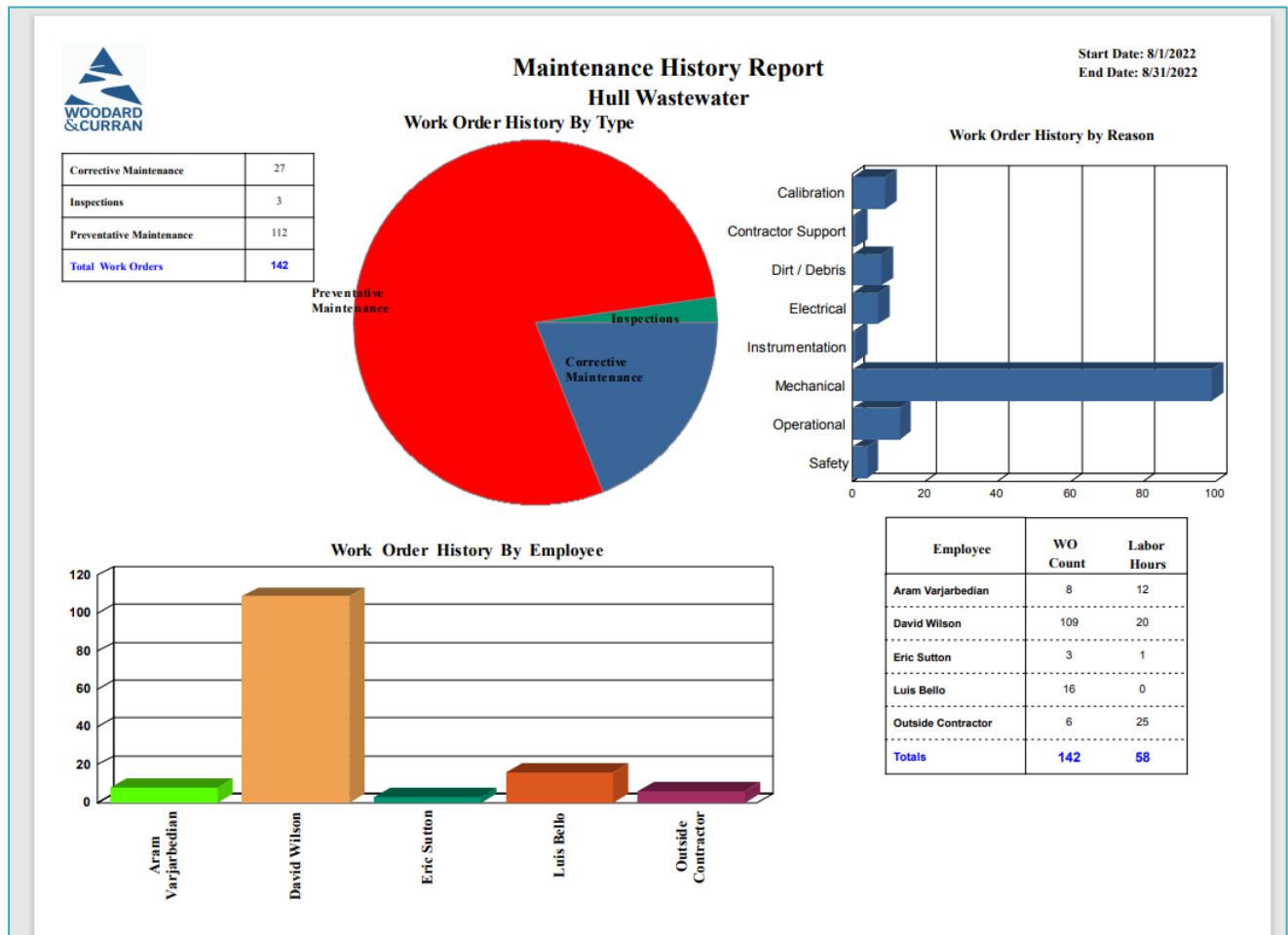
Nantasket Ave/Water Street [at end of PS 3 force main and PS 4 discharge]

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 allow excess nitrate in the sewage system to treat the additional H2S added from other parts the system – such as PS #4, contributions from lines feeding the interceptor - PS #5, PS #6, PS #9, Spinnaker Island, etc., all the way to the wastewater plant. H2S levels in August were much higher with higher peaks and overall average observed. Adjustments for more Bioxide feed were made increasingly over the course of the month.



of

6 MAINTENANCE SUMMARY



A. TASKS COMPLETED THIS MONTH

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

Additional key items of note are listed below:

- The rebuilt RAS pump (#2) rotating assembly was installed and prepared for service. Seacoast Supply will commission the new mechanical seals and the barrier fluid system that uses distilled water which is sourced from an elevated 2-gallon reservoir tank. The tank is attached to a support stand adjacent to the pump.
- On 8/25 Influent pump #1 was taken out of service to replace the bolt holding the impeller in place. During a recent pump inspection, the bolt condition was found to be poor, and it had significant corrosion & wear. If this bolt were to fail, the impeller could drop inside the pump volute and cause additional damage. W&C staff were unable to extract the bolt without compromising the unit, so the pump was sent to a pump repair facility for further assessment.
- At PS # 5 an opening that existed in the roof structure was closed off with rigid screening to prevent the numerous pigeons from roosting/nesting inside. The excessive nesting was causing a nuisance, with the neighboring cars and yards being affected with the bird droppings and debris.
- The Sewer Tech/ Hoadley Vactor truck was at the plant on the 8/17 and cleaned out the influent grit chamber. The chamber, which is down in the headworks area requires a Confined Space Entry permit, and the W&C staff entered the tank to assist with the cleaning. The project work required specialized equipment and additional staff support. The air diffuser manifold was inspected, as well as the belts and valving on the two grit system feed pumps. The suction lines for both grit pumps were back flushed into the grit tank
- At PS #3 & PS #9 Hi-Voltage replaced the corroded electrical junction boxes and all the conduits to the mid-level and the two pumps in the lower level.
- Lydon Millwrights were onsite 8/10 to repair a structural leak in the Above Ground Sludge Storage tank [AST]. The AST is located behind the operations building on the west side. This tank holds thickened sludge from the Rotary Sludge Thickener process, until the sludge is pumped into a tanker truck and then hauled offsite to a regional facility for further processing. A 10" X 8" steel patch was successfully welded in over the seam where the leak was found. The rest of the structure was assessed and is in satisfactory condition at this time.
- On 8/12 in the Secondary Gallery at the plant, Hi-Voltage replaced the Unistrut bracing stand for the #2 Return pump local On/Off/Auto control switch, as the existing stand was corroded. A 2-gallon reservoir tank was also mounted on the stand which will supply distilled water to the newly installed cartridge seal on the rebuilt #2 RAS pump assembly.
-

B. ASSET MANAGEMENT ACCOUNTS

- **Please see the attached summary totals and planned expenditures for the Asset Management accounts for contract year (8). Most recent through 9/26/22.**
- **Contract year #7 – 07M, 07S, 07C costs/expenditures and preparing for contract year close statement.**

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 for August
- Monthly PM's – Emergency eyewash and shower inspections, fire extinguishers, and emergency lighting inspections completed.
- Monthly calibrations were performed on all MX4 & Max XT11 4-gas meters. Two of the meters required repairs and new sensors installed, done on 8/3.
- On-going Covid-19 Pandemic awareness with daily review and as needed. Keeping in daily contact with all contractors regarding Hull and W&C covid-19 protocols. W&C's Pure Safety topic
- The monthly W&C staff safety meeting was held on 8/25- topics discussed were current covid protocols, heat & hydration, back safety, W&C truck cleanliness and the HVAC project progress.
- 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:

- All staff completed W&C's Pure Safety training and the monthly safety meeting was held on August 25th. Topics discussed were heat & hydration, back safety, and reviewing the "near-miss" incidents at all the W&C projects occurring in July
- Regular, usually daily- operational updates and process control discussions, pump station operations, Dig Safes, and the HVAC construction project work scope ongoing at the plant. Daily safety briefing and Covid-19 protocol updates if necessary.

Staffing related items:

- The project staffing plan was submitted with the monthly DMR.
- The regular staffing labor was primarily supplemented by O&M Specialist Paul Horigan, who sometimes covers the added shift left open by Aram, and any other maintenance project needs as needed.
- Plant continued to have Saturday & Sunday staff coverage supplemented with part-time staffer Joel Terrio working Saturdays & Sundays and other weekdays as needed and he is available. This arrangement allows for the regular staff to be on site more during the regular work week [Mon-Fri]
- Sunday licensed coverage rotation continued with Aram, Roger, Mike.
- The facility's summer 2021 Intern Joel Terrio [Hull resident] earned his bachelor's degree from Mass Maritime Academy – Class of 2022. He also has a MA Grade 3 Operations license. An offer for full-time employment was made to Joel by Woodard & Curran, and he accepted as an Operation & Maintenance Technician. Start date was late August.
- In August one of the regular W&C staff members unfortunately tested positive for the covid-19 virus and they were quarantined for 5 days and out of work. CDC, Town of Hull, and Woodard & Curran protocols were followed.

9 COLLECTION SYSTEM

9.1 WET WELL CLEANING

The actual schedule for wet well cleaning: May 2022 to June 2023:

(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	X			X				
July, 2022								
Aug., 2022					X			
Sept. 2022								
Oct., 2022								
Nov, 2022								
Dec., 2023								
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 [UC] and a summarized report for August 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 August. 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.

- There were four calls for E-One Grinder pump service: 61 Wyola Rd, 44 Chatham St, 55 Gosnold St, and 34 Rockaway Ave – see UC summary.
- 8/8 - A sewer line blockage was reported by the homeowner at #2 A Street. The up and downstream manholes were opened, and flow was seen, and the homeowner was advised to call a plumber.

- On 8/16 the Sewer Tech/ Hoadley Vactor truck was in for cleaning the wet well at PS #5 and jetting the adjacent lines up and downstream on Draper Avenue. Line jetting and cleaning was done on Nantasket Avenue, near the Dunkin' Donuts and to the south towards Beach Food. [2,100 ft cleaned/jetted] Dunkin' Donuts had reported some recent back-ups due to grease and debris build-up.
 - On 8/13 call out for possible sewage leak from a manhole at 95 Bay Avenue. W&C staff assessed, a dye test was done on the flow, and the water was tested in the lab at the plant, which showed it was chlorinated. The potable water main was broken, Wier River Water was notified.
- Pump station emergency generator runs consist of weekly no load runs and monthly loaded runs.
 - All Pump station wet wells were inspected in August- monthly inspections are completed and combined with the monthly station PM's.
 - Upload new/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.
 - On 8/2 a technical sales rep from the J.F. McDermott Co. was onsite to demonstrate for the HSD and W&C staff a new investigative tool, an "Envirosight Quickview Pole Camera". This camera would be used to assess sewer lines as necessary and for scheduled DPW roadway and paving projects. The purchase of the unit is under consideration by the HSD.

10 PROJECT MANAGEMENT & ADMINISTRATION



10.1 ON-GOING PROJECTS AND SUPPORT ITEMS

August updates:

- Ongoing construction work continued in many areas of the operations building for the HVAC project. W&C staff work closely with the contractors- moving equipment & items as needed in the working areas to allow for the renovation work to continue. W&C staff check in with the general contractor supervisor daily and join the monthly meeting with Tighe & Bond and all the project sub-contractors.
- Continued efforts as needed to assist and support W&C engineering for the upcoming project – influent pumps, electrical, and various areas.
- While on site for the sludge tank repairs, Lydon also performed some additional work - assessed the condition the Secondary Clarifier rake mechanism that includes - center well, flights, and rake arm structural steel. W&C is waiting for their report as there may be some additional repairs needed soon.
- Dave Burns and Rick Rondeau of the MA DEP visited the plant for a walk through on 8/11. This was a scheduled visit as Dave Burns wanted to introduce Rick Rondeau, another sanitary engineer in the department, that will be assisting systems and facilities in the region.
- Commencing on Tuesday 8/23, the Hull Sewer Dept led the PS 9 Force Main Assessment Project, where the force main line running from Pump Station 9 to the treatment plant was assessed for damage possibly incurred from the October 2021 landslide of the cliff dunes behind the house at 51 Harborview Road. Woodard and Curran assisted the effort with the pump station shutdown, force main drain back, and coordination of pump trucks for the sewage hauling. For the duration of the project, PS 9 was isolated and offline. The Rosano-Davis pump trucks pumped sewage from the station's wet well continuously to maintain flow, and the trucks then dumped the sewage into a manhole by the plant, where Nantasket Avenue and Spring Street meet. This manhole also is

where the discharged sewage from Spinnaker Island ties in. Vortex/Ted Berry Co of Maine led the assessment effort along with another subcontractor, Cues, Inc. They performed the camera work [CCTV] and mapping GPS of the line to evaluate the pipe condition. E.M. Lofgren Contracting dug the two observation pits needed, as well as installed a new/additional manhole structure that allowed for easier access into the force main. This new manhole is across from end of Duck Lane where it meets Nantasket Avenue. The observation pits were dug for access to remote viewing the force main line. One pit was just south of where the landslide occurred, and the other was back out towards PS 9, at the end of Spring and Lafayette Streets, by the seawall. After the assessment was completed, the force main was pressure tested, and then the pump station was returned to service on Friday afternoon. [pictured: pump truck operations]



- W&C - Mike S. and Aram V. to resume weekly meetings with John S. and Brian K. to discuss department operations, plant issues, the collection system, upcoming projects, and staff transition planning.
- Continue work on finalizing the quote for a new grit screw system to replace the failed grit screw, since the newer proposed stacked tray system that was to be a part of the next plant upgrade project, was deleted due to the high capital cost.



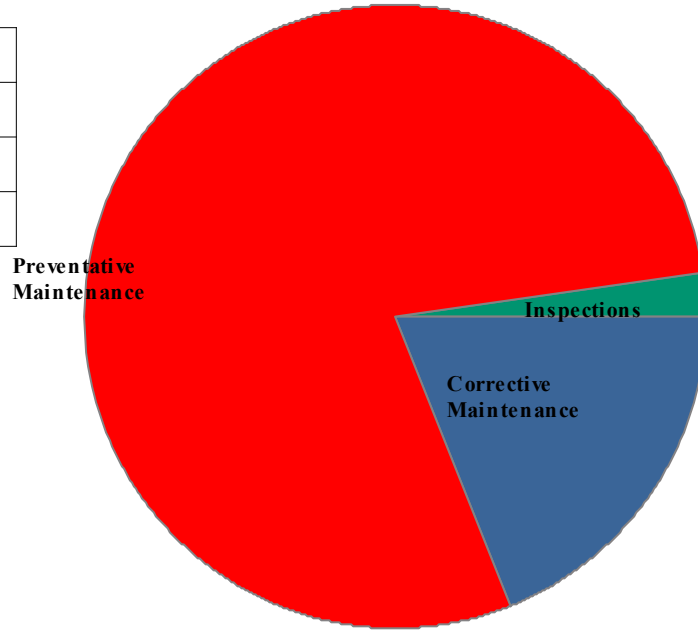
Maintenance History Report

Hull Wastewater

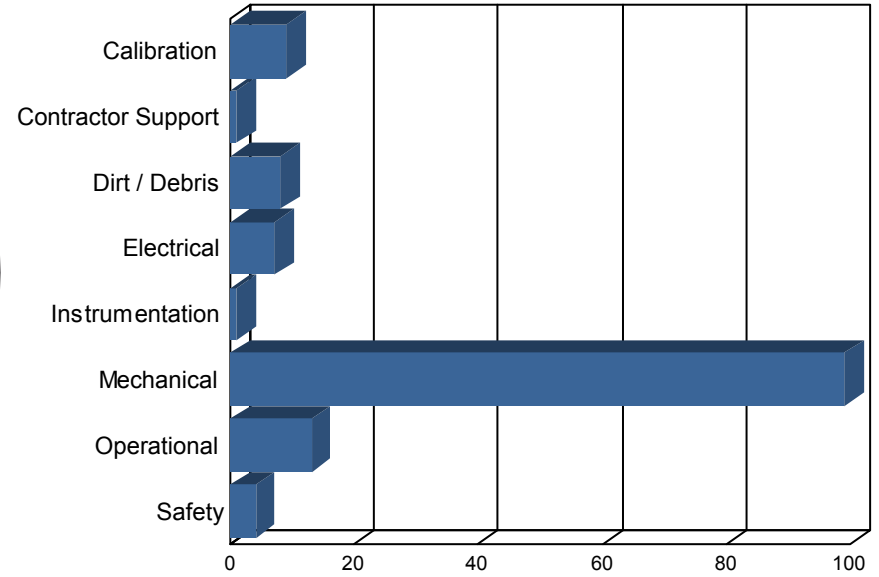
Start Date: 8/1/2022
End Date: 8/31/2022

Work Order History By Type

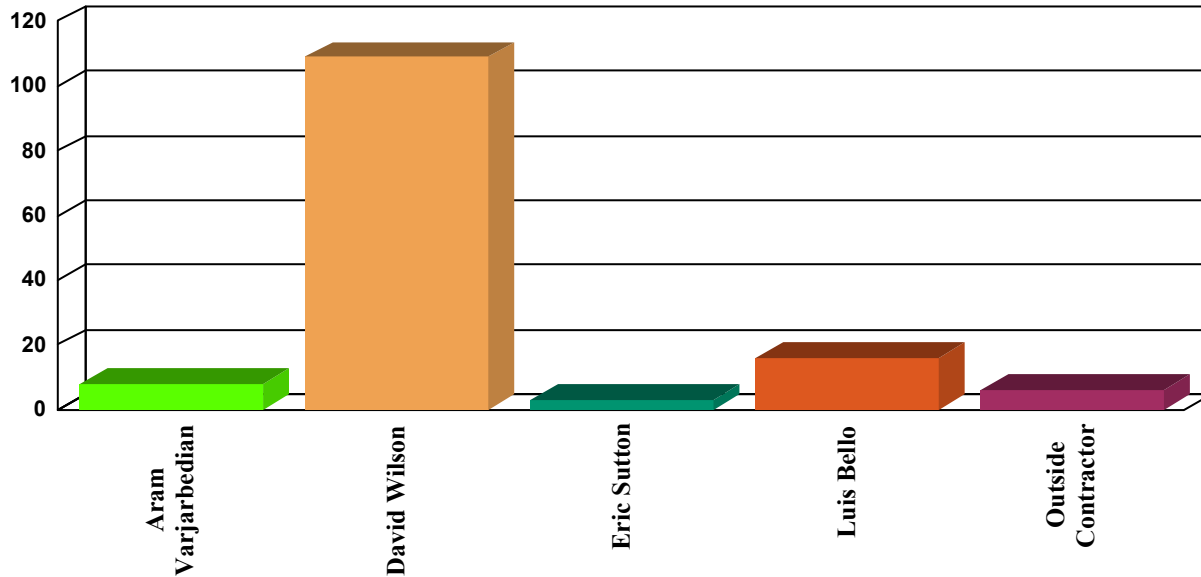
Corrective Maintenance	27
Inspections	3
Preventative Maintenance	112
Total Work Orders	142



Work Order History by Reason



Work Order History By Employee



Employee	WO Count	Labor Hours
Aram Varjarbedian	8	12
David Wilson	109	20
Eric Sutton	3	1
Luis Bello	16	0
Outside Contractor	6	25
Totals	142	58

Corrective Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
8/1/22	16430	HVAC Room	Diagnose loss of lighting in space.	Removed protective cover and inspected bulbs. Both had black bands on the ends. Replaced bulbs. Still no light. Removed bulbs and inspected ballast. Swollen case. Replaced ballast. Mounting anchors pulled out of ceiling. Fixture eye bolt broken. Replaced mounting hardware. Reassembled and returned to service. Light works.	David Wilson	8/2/22	Completed
8/1/22	16431	HVAC Room	Diagnose no lighting	Water leak in space caused fixture to be flooded . Removed protective cover and inspected bulbs. Black bands present. Replaced bulbs and ballast. Still no light. Inspected voltage to ballast. Not present. Checked voltage from Junction box to fixture. Not present. Electrician states that conduit was hit when coring. Will have electrician troubleshoot further.	David Wilson	8/2/22	Completed
8/2/22	16432	Operations Building	Diagnose loss of lighting in front of Influent VFD's.	Removed protective cover and inspected bulbs. Replaced bulbs. No light. Inspected ballast. Case paint bubbling from heat. Replaced ballast. Voltage present to ballast. Bulbs still not working. Checked continuity in wiring. Good. Believe to fixture socket issue. Will have electrician follow up.	David Wilson	8/2/22	Completed
8/2/22	16433	Odor Control Wet Scrubber Vessel	Repair foam sprayer	LB tried to fix nozzle for foam sprayer and stripped threads of fitting. Garden hose threads on NPT fitting. Installed 3/4 thread by thread coupling and thread by garden hose adapter. Reassembled and returned to service.	David Wilson	8/2/22	Completed
8/3/22	16434	Ventis MX4 #4 - 4 Gas	Replace failed sensor and calibrate	Powered up gas meter and verified failed sensor. Disassembled meter and lightly greased connections with dielectric compound. Reassembled and calibrated sensors. Good	David Wilson	8/3/22	Completed
8/3/22	16435	Ventis MX4 #1 - 4 Gas	Replace failed sensor and calibrate	Verified failed sensor. Cleaned and greased all connections. Installed new sensor. Reassembled meter and calibrated sensors. Good	David Wilson	8/3/22	Completed
8/4/22	16436	RAS Pump 2	Install new rotating assembly	Verified equipment is locked out. Cleaned and inspected volute and suction elbow. Ceramic coating shows some wear. Cleaned gasket surface and chased threads. Mounted pump assembly. Adjusted impeller height to .007" clearance. Installed hubs and coupling. Mounted and wired motor. Reenergized circuit and bump tested verify rotation. Pop	David Wilson	8/4/22	Completed
8/8/22	16437	RAS Pump 1	Diagnose low output	LOTO for service. Cleaned and inspected impeller. Removed rag ball from impeller face. Removed cover of check valve. Cleaned debris from disc. Reassembled and returned to service.	David Wilson	8/8/22	Completed
8/10/22	16438	Thickened Sludge Tank "above ground"	tank has leak	contractor Lydon in to weld patch	Outside Contractor	8/10/22	Completed

Corrective Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
8/10/22	16440	Secondary Clarifier 2	tank inspection	CSE for tank inspection of steel components. Rake, baffles, and scum Beach plate. DW assisted. Pump out tank before CSE. Report to follow with recommendations.	Outside Contractor	8/11/22	Completed
8/11/22	16439	RAS Pump 3	discharge valve difficult to operate	replaced six inch check valve with new 6 inch pratt valve. lift up dischg pipe and replace with new hardware and gaskets	Outside Contractor	8/10/22	Completed
8/11/22	16441	PS 9 Piping and Valves	Failed check valve return spring.	Removed spring and mounting assembly. Due to multiple spring failures, a counterweight will be installed. Verified proper operation and and adjusted arm position as needed.	David Wilson	8/11/22	Completed
8/11/22	16442	PS 9 Building	Repair lower level ladder mounting.	Set in new stainless steel anchors. Drilled brackets to fit. Installed new upper brackets and locked into place.	David Wilson	8/11/22	Completed
8/16/22	16444	PS 5 Wet Well	Vactor wetwell debris	Es Jt W/C Hoadleu on site vactor wetwell debris	Eric Sutton	8/16/22	Completed
8/17/22	16453	Fixed Gas Monitoring System	O2 sensor failure	Had Jody S inactivate Net Safety sensor at panel due to failure to recall. Causing many callout alarms to Sensaphone [to AV]. New Sensor inquiry up to 6 months to obtain. Need a PO. Closing WO for now. Part will be ordered.	Aram Varjarbedian	8/16/22	Completed
8/17/22	16451	Gravity Thickeners	GT 1 tank valve not fully operational	Jody S and AV isolate, remove EIM actuator and remove internal assy from plug valve and swap out with new assy. Test with actuator OK	Aram Varjarbedian	8/17/22	Completed
8/17/22	16449	Secondary Clarifier 2	tank sludge draw off sump needs cleaning	AV and Hoadley vac truck set up and clean trough. Backflush line into tank and clean out	Outside Contractor	8/17/22	Completed
8/17/22	16452	Gravity Thickener 1	6 inch line needs flush connection	remove 6 inch blank flange and install 6 inch companion flange with 1.5 inch valve and camlock fitting for flush/hose hook up.	Aram Varjarbedian	8/17/22	Completed
8/17/22	16450	30 - WW Treatment Plant - General	Dump pit drain needs clean out	Use Hoadley vac truck to clean manhole in pit of accumulated solids and debris	Aram Varjarbedian	8/17/22	Completed
8/17/22	16443	PS 1 Wet Well	Vactor WW HOADLEY	Vactored WW	Eric Sutton	8/17/22	Completed
8/25/22	16445	Wet Scrubber Fan	Repair gasket failure between handler and intake.	DW/PH Removed old gasket material. Inspected intake. Cleaned out about 10lbs of sand from inside of intake. Parts offset by 1.75". Realigned intake to air handler. Installed new gasket material and tested for leaks. Good overall. Returned to service.	David Wilson	8/25/22	Completed
8/25/22	16454	PS 9 Electrical MCC	Pump room electrical - replace rotted components	HiVoltage Assoc [3 person crew] replaced conduits and junction box in pump room while station was off line for other proj work. Safety issue with failed steel conduit. Repl with new PVC	Outside Contractor	8/24/22	Completed
8/25/22	16446	Wet Scrubber Fan	Intermittent VFD fault Heatsink Overtemp	DW/PH Noticed blower stopping and starting intermittently. Observed fault on VFD. Heatsink Overtemp. Cleaned and inspected drive fans. Good amount of dust cleaned off. Fan turns freely. Lowered running frequency from 60hZ to 58hZ. Observed VFD for about 10 minutes without fault.	David Wilson	8/25/22	Completed

Corrective Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
8/25/22	16455	PS 3 Electrical MCC	lower pump room electrical conduits	HiVoltage Assoc [3 person crew] replaced remaining conduits and junction box in pump room while station was remained operational. Safety issue with failed steel conduit. Repl with new PVC.	Outside Contractor	8/25/22	Completed
8/25/22	16447	Grit Screw Classifier	Diagnose unusual noise	Locked out grit pump and classifier. Pulled out grit dumpster and set up to service drive system. Cleaned and inspected primary and secondary drive systems. Found belts out of adjustment. Set deflection. Inspected oil level. Added about 3oz of syn220. Reassembled and returned to service. Ran grit pump and screw together for 15 minutes. Shut off grit pump to allow screw to empty classifier. Observed for 15 minutes to verify correction. Good overall.	David Wilson	8/25/22	Completed
8/26/22	16448	PS 5 Building	Prevent birds from living in void above station.	Flushed out pigeons. Measured opening. Cut a piece of stainless steel mesh to fit. Secured at three points.	David Wilson	8/26/22	Completed
8/29/22	16456	RAS Pump 1	Remove debris	Observed ras flow at .60 now .85	Eric Sutton	8/29/22	Completed

Inspections

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
8/12/22	16087	Blower Room Exhaust Fan 2	Monthly operational inspection		David Wilson	8/1/22	Completed
8/12/22	16086	Blower Room Exhaust Fan 1	Monthly operational inspection		David Wilson	8/1/22	Completed
8/15/22	15937	Emergency Lighting & exit signs	Emergency Lighting Inspection - Monthly		Luis Bello	8/10/22	Completed

Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
8/2/22	16040	GasAlert Max XTII #1	4 gas meter calibration - monthly	Tested calibration of gas sensors. Good. Returned to service.	David Wilson	8/1/22	Completed
8/2/22	15943	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load	Checked all fluids and brought up to operating temp. Recorded run data. Made copy of run data form.	David Wilson	8/1/22	Completed
8/2/22	15939	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load	Checked all fluids and brought up to operating temp. Recorded all run data and cleaned strainer basket.	David Wilson	8/1/22	Completed
8/2/22	16076	Generators "All Pump Station"	Generator Weekly - Test Run no load		David Wilson	8/1/22	Completed
8/2/22	15805	Influent Pump 1	Monthly Check Pump Couplings		David Wilson	7/6/22	Completed
8/2/22	15808	Influent Pump 2	Monthly Check Pump Couplings		David Wilson	7/6/22	Completed
8/2/22	15809	Influent Pump 3	Monthly Check Pump Couplings		David Wilson	7/6/22	Completed
8/2/22	15812	Influent Pump 4	Monthly Check Pump Couplings		David Wilson	7/6/22	Completed

Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
8/2/22	15813	Influent Pump 5	Monthly Check Pump Couplings		David Wilson	7/6/22	Completed
8/2/22	16045	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		David Wilson	8/1/22	Completed
8/2/22	15806	Influent Pump 1	Semi Annual - ARI air release valve insp and cleaning		David Wilson	7/6/22	Completed
8/2/22	15807	Influent Pump 2	Semi Annual - ARI air release valve insp and cleaning		David Wilson	7/6/22	Completed
8/2/22	15810	Influent Pump 3	Semi Annual - ARI air release valve insp and cleaning		David Wilson	7/6/22	Completed
8/2/22	15811	Influent Pump 4	Semi Annual - ARI air release valve insp and cleaning		David Wilson	7/6/22	Completed
8/2/22	15814	Influent Pump 5	Semi Annual - ARI air release valve insp and cleaning		David Wilson	7/6/22	Completed
8/3/22	15654	Effluent Pumps	Effluent Pump - Monthly		David Wilson	6/15/22	Completed
8/3/22	15901	ORP meter	Clean and Calibrate	Cleaned and calibrated ORP sensor. 400mv sample -5mv offset.	David Wilson	7/10/22	Completed
8/3/22	15827	Primary Sludge Pump 1	Monthly Check Pump Couplings	Primary system offline. Shaft turns freely.	David Wilson	7/6/22	Completed
8/3/22	15819	Effluent Pumps	Effluent Pump - Monthly	Ran each effluent pump for approximately 15 minutes. Maintained wet well level. No unusual noises or vibrations. Returned order to 3241. Pump #4 .95mgd @44.7hZ Pump #2 1.2mgd @44.5hZ Pump #1 1.2mgd @41.5hZ Pump #3 2mgd @44.4hZ	David Wilson	7/15/22	Completed
8/8/22	15972	RAS Pump 1	Monthly Check Pump Couplings		David Wilson	8/3/22	Completed
8/8/22	15973	RAS Pump 2	Monthly Check Pump Couplings		David Wilson	8/3/22	Completed
8/8/22	15976	RAS Pump 3	Monthly Check Pump Couplings		David Wilson	8/3/22	Completed
8/8/22	15971	RAS Pump 1	RAS Pump #1 PM - Quarterly		David Wilson	8/3/22	Completed
8/8/22	15974	RAS Pump 2	RAS Pump #2 PM - Quarterly		David Wilson	8/3/22	Completed
8/8/22	15975	RAS Pump 3	RAS Pump #3 PM - Quarterly		David Wilson	8/3/22	Completed
8/9/22	16044	PS Kholer Trailer Mounted Generator	Generator - Monthly Load Test		David Wilson	8/7/22	Completed
8/9/22	16026	PS 9 Generator	PS #9 Generator Inspection and Load Test - Monthly		David Wilson	8/3/22	Completed
8/9/22	15932	Portable Generator - Honda	Portable Generator Inspection - Monthly		David Wilson	8/3/22	Completed
8/9/22	16037	PS 6 Generator	PS #5 Generator Inspection and Load Test - Monthly		David Wilson	8/3/22	Completed
8/9/22	16027	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		David Wilson	8/3/22	Completed
8/9/22	16032	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		David Wilson	8/3/22	Completed
8/9/22	16020	PS 5 Generator	PS #5 Generator Inspection and Load Test - Monthly		David Wilson	8/3/22	Completed

Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
8/9/22	16021	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		David Wilson	8/3/22	Completed
8/9/22	16014	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		David Wilson	8/3/22	Completed
8/9/22	16019	PS 4 Generator	PS #4 Generator Inspection and Load Test - Monthly		David Wilson	8/3/22	Completed
8/9/22	16074	Generators "All Pump Station"	Generator - Monthly Load Test		Luis Bello	8/7/22	Completed
8/10/22	15996	PS 6	PUMP STATIONS - QUATERLY PM'S	Pump 1 hub and coupling fitment out of tolerance.	David Wilson	8/2/22	Completed
8/10/22	16009	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		David Wilson	8/3/22	Completed
8/10/22	16002	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		David Wilson	8/3/22	Completed
8/10/22	16008	PS 3 Generator	PS #3 Generator Inspection and Load Test - Monthly		David Wilson	8/3/22	Completed
8/10/22	16007	PS 1 Generator	PS #1 Generator Inspection and Load Test - Monthly		David Wilson	8/3/22	Completed
8/10/22	15999	PS 9	PUMP STATIONS - QUATERLY PM'S		David Wilson	8/2/22	Completed
8/12/22	15988	PS 1	PUMP STATIONS - QUATERLY PM'S		David Wilson	8/2/22	Completed
8/12/22	15991	PS 3	PUMP STATIONS - QUATERLY PM'S		David Wilson	8/2/22	Completed
8/12/22	15992	PS 4	PUMP STATIONS - QUATERLY PM'S		David Wilson	8/2/22	Completed
8/12/22	15995	PS 5	PUMP STATIONS - QUATERLY PM'S		David Wilson	8/2/22	Completed
8/12/22	16000	PS A	PUMP STATIONS - QUATERLY PM'S		David Wilson	8/2/22	Completed
8/12/22	16003	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		David Wilson	8/10/22	Completed
8/12/22	16010	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		David Wilson	8/10/22	Completed
8/12/22	16015	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		David Wilson	8/10/22	Completed
8/12/22	16022	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		David Wilson	8/10/22	Completed
8/12/22	16028	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		David Wilson	8/10/22	Completed
8/12/22	16033	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		David Wilson	8/10/22	Completed
8/12/22	15950	Influent Sluice Isolation Gate	Weekly operate through full range		David Wilson	8/10/22	Completed
8/12/22	16065	High level floats	Weekly High Float Alarm test		David Wilson	8/7/22	Completed
8/12/22	16080	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		David Wilson	8/7/22	Completed
8/12/22	15949	Influent Sluice Isolation Gate	Weekly operate through full range		David Wilson	8/3/22	Completed
8/12/22	15896	High level floats	Weekly High Float Alarm test		David Wilson	7/31/22	Completed
8/12/22	15733	Chlorine probe ATI	Weekly calibration		Aram Varjarbedian	6/20/22	Completed
8/12/22	15910	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		David Wilson	7/31/22	Completed

Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
8/12/22	15887	Chlorine probe AT1	Weekly calibration		David Wilson	7/4/22	Completed
8/12/22	15888	Chlorine probe AT1	Weekly calibration		Aram Varjarbedian	7/18/22	Completed
8/12/22	15955	Influent Pump 1	Monthly Check Pump Couplings		David Wilson	8/3/22	Completed
8/12/22	16058	Chlorine probe AT1	Weekly calibration		Aram Varjarbedian	8/1/22	Completed
8/12/22	15956	Influent Pump 2	Monthly Check Pump Couplings		David Wilson	8/3/22	Completed
8/12/22	15957	Influent Pump 3	Monthly Check Pump Couplings		David Wilson	8/3/22	Completed
8/12/22	15958	Influent Pump 4	Monthly Check Pump Couplings		David Wilson	8/3/22	Completed
8/12/22	15959	Influent Pump 5	Monthly Check Pump Couplings		David Wilson	8/3/22	Completed
8/15/22	16046	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		Luis Bello	8/15/22	Completed
8/15/22	16077	Generators "All Pump Station"	Generator Weekly - Test Run no load		Luis Bello	8/15/22	Completed
8/16/22	15944	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		Luis Bello	8/15/22	Completed
8/16/22	15940	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		Luis Bello	8/15/22	Completed
8/17/22	15637	Aerated Grit Chamber	Grit Chamber Cleaning - Annual	JS,MS,ES,LB,AV and Hoadley vactruck cleaned tank. Setup 100ft of flex hose and 20ft of rigid flex. CSE into tank for insp of diffusers and remvl of submer pump. CSE into grit pump room to backflush lines	Aram Varjarbedian	6/23/22	Completed
8/17/22	14649	Aerated Grit Chamber	Grit Chamber Cleaning - Annual		Luis Bello	12/23/21	Completed
8/18/22	16081	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Luis Bello	8/14/22	Completed
8/18/22	16066	High level floats	Weekly High Float Alarm test		Luis Bello	8/14/22	Completed
8/18/22	15951	Influent Sluice Isolation Gate	Weekly operate through full range		Luis Bello	8/17/22	Completed
8/23/22	16004	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		David Wilson	8/17/22	Completed
8/23/22	16075	Generators "All Pump Station"	Generator - Annual PM		David Wilson	8/15/22	Completed
8/23/22	16011	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		David Wilson	8/17/22	Completed
8/23/22	16016	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		David Wilson	8/17/22	Completed
8/23/22	16034	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		David Wilson	8/17/22	Completed
8/23/22	16023	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		David Wilson	8/17/22	Completed
8/23/22	16029	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		David Wilson	8/17/22	Completed
8/23/22	15982	Primary Sludge Pump 1	Monthly Check Pump Couplings	Inspected hubs and couplings.	Luis Bello	8/3/22	Completed
8/23/22	15983	Primary Sludge Pump 2	Monthly Check Pump Couplings	Inspected hubs and couplings.	David Wilson	8/3/22	Completed

Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
8/23/22	15981	Primary Sludge Pump 1	Vaughan Centrifugal pump - Semi Annual	Grease the motor,and exersice the valves.	Luis Bello	8/18/22	Completed
8/23/22	15984	Primary Sludge Pump 2	Vaughan Centrifugal pump - Semi Annual	Exersice the valves.	David Wilson	8/18/22	Completed
8/23/22	15985	Sludge Transfer Pump 1	Monthly Check Pump Couplings	Measure aproximatly 1/8 inches clearence hub to coupling.	David Wilson	8/3/22	Completed
8/23/22	15986	Sludge Transfer Pump 2	Monthly Check Pump Couplings	Inspected hub and couplings.	Luis Bello	8/3/22	Completed
8/23/22	15977	RST Feed Pump 1	Vaughan Centrifugal pump - Semi Annual	1/8 inches clarence between hub and coupling.	David Wilson	8/18/22	Completed
8/23/22	15980	RST Feed Pump 2	Vaughan Centrifugal pump - Semi Annual	Inspected hub and coupling.	Luis Bello	8/18/22	Completed
8/25/22	15945	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		David Wilson	8/22/22	Completed
8/25/22	15941	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		David Wilson	8/22/22	Completed
8/25/22	16078	Generators "All Pump Station"	Generator Weekly - Test Run no load		David Wilson	8/22/22	Completed
8/25/22	16047	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		David Wilson	8/22/22	Completed
8/25/22	16082	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Luis Bello	8/21/22	Completed
8/25/22	16067	High level floats	Weekly High Float Alarm test		Luis Bello	8/21/22	Completed
8/29/22	15962	Aeration Blower 2	Aeration Blower #2 Air Filter Inspection - Monthly		David Wilson	8/25/22	Completed
8/29/22	16030	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		David Wilson	8/24/22	Completed
8/29/22	16035	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		David Wilson	8/24/22	Completed
8/29/22	16053	Ventis MX4 #6 - 4 Gas	4 Gas Meter #6 Calibration - Monthly		David Wilson	8/25/22	Completed
8/29/22	16024	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		David Wilson	8/24/22	Completed
8/29/22	16012	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		David Wilson	8/24/22	Completed
8/29/22	16017	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		David Wilson	8/24/22	Completed
8/29/22	15952	Influent Sluice Isolation Gate	Weekly operate through full range		David Wilson	8/24/22	Completed
8/29/22	16049	Ventis MX4 #2 - 4 Gas	4 Gas Meter #2 Calibration - Monthly		David Wilson	8/25/22	Completed
8/29/22	16005	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		David Wilson	8/24/22	Completed
8/29/22	15961	Aeration Blower 1	Aeration Blower #1 Air Filter Inspection - monthly		David Wilson	8/23/22	Completed
8/29/22	16050	Ventis MX4 #3 - 4 Gas	4 Gas Meter #3 Calibration - Monthly		David Wilson	8/25/22	Completed
8/29/22	16051	Ventis MX4 #4 - 4 Gas	4 Gas Meter #4 Calibration - Monthly		David Wilson	8/25/22	Completed
8/29/22	16052	Ventis MX4 #5 - 4 Gas	4 Gas Meter #5 Calibration - Monthly	LEL sensor failed. Sensor recently replaced. Believe issue is due to sensor board. Needs to be sent out.	David Wilson	8/25/22	Completed

Date	Asset ID	Asset Description	Asset Class	Name	Workflow Class
8/30/2022 8:54	01-029	4 ARTHUR ST	Hull Parcels	Sutton, Eric	Hull - Markout
8/3/2022 11:36	05-068	15 HIGHLAND AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/19/2022 13:41	06-060	24 MAIN ST	Hull Parcels	Sutton, Eric	Hull - Markout
8/5/2022 7:58	06-074	2 MAIN ST	Hull Parcels	Sutton, Eric	Hull - Markout
8/5/2022 8:03	06-075	25 JAMES AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/3/2022 11:20	06-076	27 JAMES AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/30/2022 15:09	07-026	1131 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/3/2022 11:14	09-009	939 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/30/2022 12:35	09-063	9 HOLBROOK AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/2/2022 14:13	14-001	46 SUNSET AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/2/2022 14:10	14-045	0 K STREET	Hull Parcels	Sutton, Eric	Hull - Markout
8/30/2022 12:37	14-075	90 CADISH AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/19/2022 13:43	16-217	40 D STREET	Hull Parcels	Sutton, Eric	Hull - Markout
8/2/2022 14:28	17-121	65 E STREET	Hull Parcels	Sutton, Eric	Hull - Markout
8/8/2022 15:22	18-150	2 A STREET	Hull Parcels	Sutton, Eric	Hull - Sewer Customer Complaint
8/19/2022 13:45	22-032	4 TOURAINE AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/19/2022 13:52	24-068	25 WARFIELD AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/20/2022 11:24	28-003	428 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Sewer Customer Complaint
8/31/2022 13:25	30-049	143 NANTASKET RD	Hull Parcels	Sutton, Eric	Hull - Markout
8/30/2022 10:59	33-142	0 MERRILL RD	Hull Parcels	Sutton, Eric	Hull - Markout
8/30/2022 11:26	33-142	0 MERRILL RD	Hull Parcels	Sutton, Eric	Hull - Markout
8/22/2022 13:25	34 Rockaway Ave	34 Rockaway Ave Grinder Pump	Hull Grinder Pumps	Sutton, Eric	Hull - Grinder Pump Maintenance
8/4/2022 11:55	34-026	18 HILLSIDE RD	Hull Parcels	Sutton, Eric	Hull - Markout
8/19/2022 13:54	34-026	18 HILLSIDE RD	Hull Parcels	Sutton, Eric	Hull - Markout
8/15/2022 15:32	35-024	93 BAY STREET	Hull Parcels	Sutton, Eric	Hull - Markout
8/13/2022 15:19	35-025	95 BAY STREET	Hull Parcels	Basler, Joe	Hull - Sewer Customer Complaint
8/14/2022 11:50	35-025	95 BAY STREET	Hull Parcels	Basler, Joe	Hull - Markout
8/4/2022 13:51	35-064	12 FAIRMOUNT WAY	Hull Parcels	Sutton, Eric	Hull - Markout
8/5/2022 13:58	36-077	86 HAMPTON CIRCLE	Hull Parcels	Sutton, Eric	Hull - Markout
8/2/2022 14:33	36-091	12 LINCOLN AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/30/2022 10:25	43-019	92 ROCKAWAY AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/30/2022 11:40	49-067	9 STATE PARK RD	Hull Parcels	Sutton, Eric	Hull - Markout
8/19/2022 13:56	49-070	1 ATLANTIC HOUSE CT	Hull Parcels	Sutton, Eric	Hull - Markout
8/30/2022 10:37	51-086	9 MAPLE LANE	Hull Parcels	Sutton, Eric	Hull - Markout
8/30/2022 10:57	51-115	12 SEA VIEW AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/12/2022 11:25	51-118	6 SEA VIEW AVE	Hull Parcels	Sutton, Eric	Generic WO
8/19/2022 14:00	52-066	14 GUN ROCK AVE	Hull Parcels	Sutton, Eric	Hull - Markout
8/24/2022 15:22	55 Gosnold St	55 Gosnold St Grinder Pump	Hull Grinder Pumps	Sutton, Eric	Hull - Grinder Pump Maintenance

Date	Asset ID	Asset Description	Asset Class	Name	Workflow Class
8/29/2022 15:14	57-046	2 HARBOR VIEW RD	Hull Parcels	Sutton, Eric	Hull - Sewer Customer Complaint
8/30/2022 8:40	57-046	2 HARBOR VIEW RD	Hull Parcels	Sutton, Eric	Generic WO
8/9/2022 12:14	61 Wyola Rd	61 Wyola Rd Grinder Pump	Hull Grinder Pumps	Varjabedian, Aram	Hull - Grinder Pump Maintenance
8/9/2022 8:05	61 Wyola Rd	61 Wyola Rd Grinder Pump	Hull Grinder Pumps	Sutton, Eric	Hull - Grinder Pump Maintenance
8/5/2022 12:29	Bacteria UNIT #21	UNIT #21	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
8/5/2022 12:30	Bateria UNIT #3	UNIT #3	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
8/5/2022 12:30	Bateria UNIT #4	UNIT #4	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units
8/19/2022 13:20	HULL_MH-25104	MH-25104	Sanitary Manhole	Sutton, Eric	Sewer Main Cleaning & CCTV
8/19/2022 11:43	MH-20496	SEMS_Asset	Sanitary Manhole	Sutton, Eric	Sewer Main Cleaning & CCTV
8/19/2022 11:46	MH-20521	SEMS_Asset	Sanitary Manhole	Sutton, Eric	Sewer Main Cleaning & CCTV
8/19/2022 13:50	MH-20542	SEMS_Asset	Sanitary Manhole	Sutton, Eric	MH Frame & Cover Inspection
8/19/2022 13:48	MH-20543	SEMS_Asset	Sanitary Manhole	Sutton, Eric	Hull - Markout
8/19/2022 13:24	MH-20831	SEMS_Asset	Sanitary Manhole	Sutton, Eric	Sewer Main Cleaning & CCTV
8/19/2022 13:29	MH-30034	SEMS_Asset	Sanitary Manhole	Sutton, Eric	Sewer Main Cleaning & CCTV

Asset Management Accounts - Year 8							
	FOR M.O.R. AUGUST 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	\$52,021.24	\$175,493.44	\$73,500.00	\$125,521.24	\$101,993.44
08M-102B	Capital and Major Repairs	\$140,000.00	\$129,434.15	\$10,565.85	\$111,000.00	\$240,434.15	(\$100,434.15)
08M-103A	Major Sub Contractors	\$192,737.48	\$141,625.94	\$51,111.54	\$65,000.00	\$206,625.94	(\$13,888.46)
blank							
	Asset Management	\$560,252.16	\$323,081.33	\$237,170.83	\$249,500.00	\$572,581.33	(\$12,329.17)

\$237,170.83

Budget expended	Time Status	
	NOW=	9/26/2022
	Start	5/1/2020
22.9%	240.7%	217.9%
92.5%	240.7%	148.3%
73.5%	240.7%	167.2%
57.7%	240.7%	183.1%

08S	D Street	\$7,500.00	\$3,484.20	\$4,015.80	\$0.00	\$3,484.20	\$4,015.80
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46.5%	240.7%	194.3%
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08C	Odor Control Chemicals	\$100,000.00	\$77,660.00	\$22,340.00	\$0.00	\$77,660.00	\$22,340.00
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77.7%	240.7%	163.1%
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Estimated total
remaining 08M,
08C \$10,010.83

Hull 2022-2023 - 08M Projects, Tasks, and Needs - (AV)								
Maintenance Account - Year 8 - 05_01_22 to 04_30_23								
FOR AUGUST 2022 M.O.R.					\$249,500.00			9/26/2022 15:20
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	\$19,000.00			Placeholder for Jody St. George, Paul Horigan & WC Support Staff - Total budget \$25,000; adjust 8/30; adjust budget 9/20.
1	Pump and Motor Repairs [invoiced and pcard]	On Going		101A	\$12,000.00			to keep existing equipment running - utilize various outside contractor repair shops, new purchases. orig budget \$20,000; adj 8/30; adj 9/26
1	Lubricants	Pending		101A	\$2,000.00			Various Suppliers for oil and grease. Budgeted \$2000.
1	Generator Prev. Maintenance and Repairs	On Going		101A	\$20,000.00			General PM and CM Repair Work - Placeholder - New PO to be issued
1	Fire Alarm Inspections and Service	On Going		101A	\$2,500.00			Semi Annual - Hart Security [October & April , central station, & Service]budget \$3000. Semi-annual services completed in mid April. Adj 8/30;
2	Universal waste disposal	Pending		101A	\$500.00			Placeholder - \$500
1	Service the Forklift	completed		101A		\$231.00		Placeholder \$400 - Annual cost - outside vendor. Completed June 2022
1	Overhead Hoist Inspection & repairs	completed		101A	\$1,500.00			Annual task - Applied Dynamics - Inspection Work - May 2022 \$1500 plus some corrective actions, \$1500 left to do for repairs [completed Aug 2022];
1	Flow meter verification and calibration	Pending		101A	\$1,200.00			Placeholder - Annual - Ray Ferland or other 1 visit annually - Targeting June 2022. Vendor needs to be contacted.
1	Facility Building - Roof Inspection	completed		101A		\$2,800.00		\$2800 Annual Placeholder - Established contract with Tecta America. Completed May 2022
1		Pending		101A				
2	Jerome H2S Meter Inspection	Pending		101A	\$1,100.00			Placeholder if meter is sent out for calibration - \$1,100; Update Sept 2022 - meter evaluation needed and if new meter should be considered.
1	Janitorial Supplies	On Going		101A	\$2,500.00			Orig budget \$3,000 - Estimated annual expenditures - adjust 8/30
1	Manhole Inspections	Pending		101A				As required,and/or scheduled
2	General mechanical and electrical items/supplies	On Going		101A	\$5,000.00			Grainger, FWWebb, EJP,Hoadley, McMasterCarr, etc; orig budget \$20,000, adjust tdown as year progresses; adj 8/30; adjust in Sept to 5,000.
1	Thompson Pump repairs 6TS-244 [6A]	completed		101A				Rotating assembly failure - bearings, shft, mech seal parts & labor. Est labor \$6500. Seacoast repair. All bills to post by end of September
2	Large Hoses & fittings	On Going		101A	\$1,800.00			Orig budget \$3,000. Replacements and/or Service - On-Going - As Needed; adj budget Sept. NIR and Wolf Creek.
1	hypo room access/entry door	Pending		102B	\$6,500.00			D&C Quoted - waiting for updated quote with FRP door - Estimate \$6,500
3	Misc. Materials	on Going		101A	\$1,400.00			Hardware Store - \$200.00 per month - reoccurring expense; budget \$2,400; Adjust 8/30; Adj 9/20;

Hull 2022-2023 - 08M Projects, Tasks, and Needs - (AV)								
Maintenance Account - Year 8 - 05_01_22 to 04_30_23								
FOR AUGUST 2022 M.O.R.					\$249,500.00			9/26/2022 15:20
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	On Going		101A	\$3,000.00			4-6 week lead time ARO. Ordered July 2022;
2	6" plug valves [4]	completed		101A		\$3,713.40		RAS pump #3 discharge & other. Pratt plug valves -Qty 4. ordered May 2022; received Aug 2022. GT1 outlet valve repaired and install flush connection. Difficult to remove due to limited access.
	New Magnetic flow meters for RAS and WAS	Pending		102B	\$8,500.00			hardware - does not include installation [estimate for Equip - \$8,500]
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	completed		102B		\$10,068.55		Items ordered after approval. Installed & in service Aug 2022.
1	Pump Station #4 -New Pumps install	completed		102B		\$12,237.61		by D & C. Late June 2022 - revised estimated installation cost. Work completed July 2022.
1	Effluent Pump #3 - repairs	completed		102B		\$26,840.20		pump has been returned to facility
3	Sanitaire hardware purchase for aer tk 1	Pending		102B				Purchase more hardware ??
1	D&C plant water and potable water system repairs, upgrades various. Replace 6" potable water valve in basement and misc. valves	completed		102B		\$43,499.70		Also check/replace 1 1/4 valves as needed - Requires a water shutdown, other drainage piping, etc. T&M. Estimate \$43,000
2	new effluent P1 - Flowserve	completed		102B				Update 2/8 to AquaSolutions - purchase of new spare effluent pump #1 - 60HP pump delivered in late September. Cost encumbered in 07M.
2	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 - totl estim \$8,000
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; evaluating options
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	On Going		102B		\$8,500.00		one spare gear box for flex rake and wash compactor [Delte Elec] ordered June 2022. Received in late August 2022. Waiting for invoicing. On Purchase order.

Hull 2022-2023 - 08M Projects, Tasks, and Needs - (AV)								
Maintenance Account - Year 8 - 05_01_22 to 04_30_23								
FOR AUGUST 2022 M.O.R.					\$249,500.00			9/26/2022 15:20
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. Items received July 2022
	Plant Water System [Pump and/or parts]	On Going		102B				consider spare motor or complete unit. Under review/hold [est \$6,000].
1	Replacement Pumps LS A	completed		102B		\$9,749.96		Repair of rotating assembly - at IPS shop. Returned in September 2022.
1	Electrical Work	On Going		103A	\$8,000.00			Orig budget \$25,000. Electricians: Glen Fellows, HiVoltage, or other; adjust 8/30; adjust budget Sept 20th.
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	\$17,000.00			Orig budget: \$38,000. Based on historica/recent costs. E1 repairs where cost-effective & new replacement pumps; control panels, other equip; Adjust 8/30.
1	Automatic Transfer Switch inspection and servicing	completed		101A		\$1,800.00		\$2400 - Annual Service planned for NETS - Transfer Switch; Work comleted July 2022
1	Wetwell Inspections and Cleaning - Plant/Pump Stations	On Going		103A	\$6,000.00			As required, plant or pump stations; orig budget \$8,000; adjust 9/26
1	Sewer Line Cleaning - Emergencies, pump & haul	On Going		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	On Going		103A	\$9,000.00			Budget - 15,000, 8/30 - reduce budget due to recent work
1		Pending		103A				
3	Pump Station #5 jet lines to wetwell and WW cleaning	completed		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	Rosano Davis Pump & Haul PS9	completed		103A		\$28,800.00		for FM inspection
1	EESCO MCC work at the Pump Stations	Pending		103A				TBD 2 days - request for quotation
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; budget of \$7,500 on hold
1	Est grit screw installation	Pending		102B	\$40,000.00			placeholder installation
1	Est Grit screw purchase	Pending		102B	\$50,000.00			placeholder hardware purchase
3 of 3	9/26/2022	TOTAL			2022-2023-08M-Checkbook_YTD.xlsx			08M Planned Costs