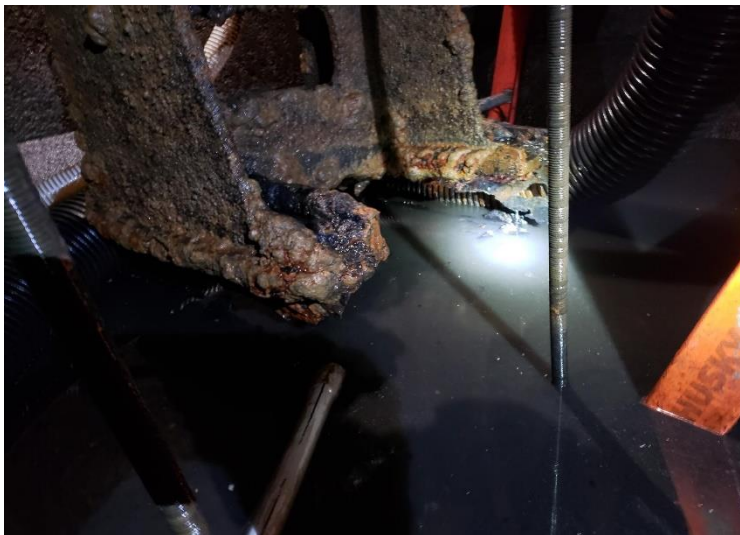




HULL WATER POLLUTION CONTROL FACILITY

May
2021

MONTHLY OPERATING REPORT



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

NPDES NO. MA0101231

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Cover pictures:

[top] New Secondary Effluent manhole isolation gate

[bottom] Effluent Wetwell #3 – corroded support base under submersible pump #3

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 2021.

- No lost-time incidents for the month of May.
- Continued/On-going covid-19 safety operations: Regular daily operations and staff scheduling. On-going coordination with vendors and contractors for project work. Following CDC, Town, State and Company with mandated safety protocols and mask use. Staffing levels normal as it pertains to covid19.
- There were **148** effluent samples taken in the month of May [details on page (12).] All effluent samples collected were compliant. The average daily flow for the month was 1.36-MGD. A total of 5.45 inches of rainfall was recorded, with the highest daily total amounts recorded for the 5/28-5/31 period – 3.4". Flows did rise higher but were manageable. Process conditions were compliant.
- There were no Sanitary System Overflows [SSO] reported.
- May quarterly toxicity sampling performed.
- The plant and collection system odors remained low due to low sewage temperatures and variable flows. The Bioxide system was dosing at low to moderate feed rates with an increase in product use towards the end of the month.
- Operating the aerated grit system with the modified air header piping with some grit removal.
- Co-ordinate two secondary effluent bypasses of the effluent wet wells, so that sub-basement piping work, effluent pump base work, and effluent wet well cleaning and inspection could be accomplished. The 8-inch Vortex pump was used to pump disinfected secondary effluent to the chlorine contact tank.
- The 06M & 07M Asset Management Accounts checkbook summaries for contract year #6 and #7 are attached. Latest revision date: 7/27/21.
- There were two grinder pump replacement call outs during the month of May.
- W&C O&M continued to support the Engineering projects –pump station #5 start up and drawdown testing, pump station #9 and plant design calls, pump station #4 discussions, and effluent gate/pump room project.
- Plant Staffing – the APM position was filled, with Mike Sullivan starting on May 17th. Plant O&M Tech 1 – M. Anderson gave notice at end of May, effective for mid-June 2021.

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



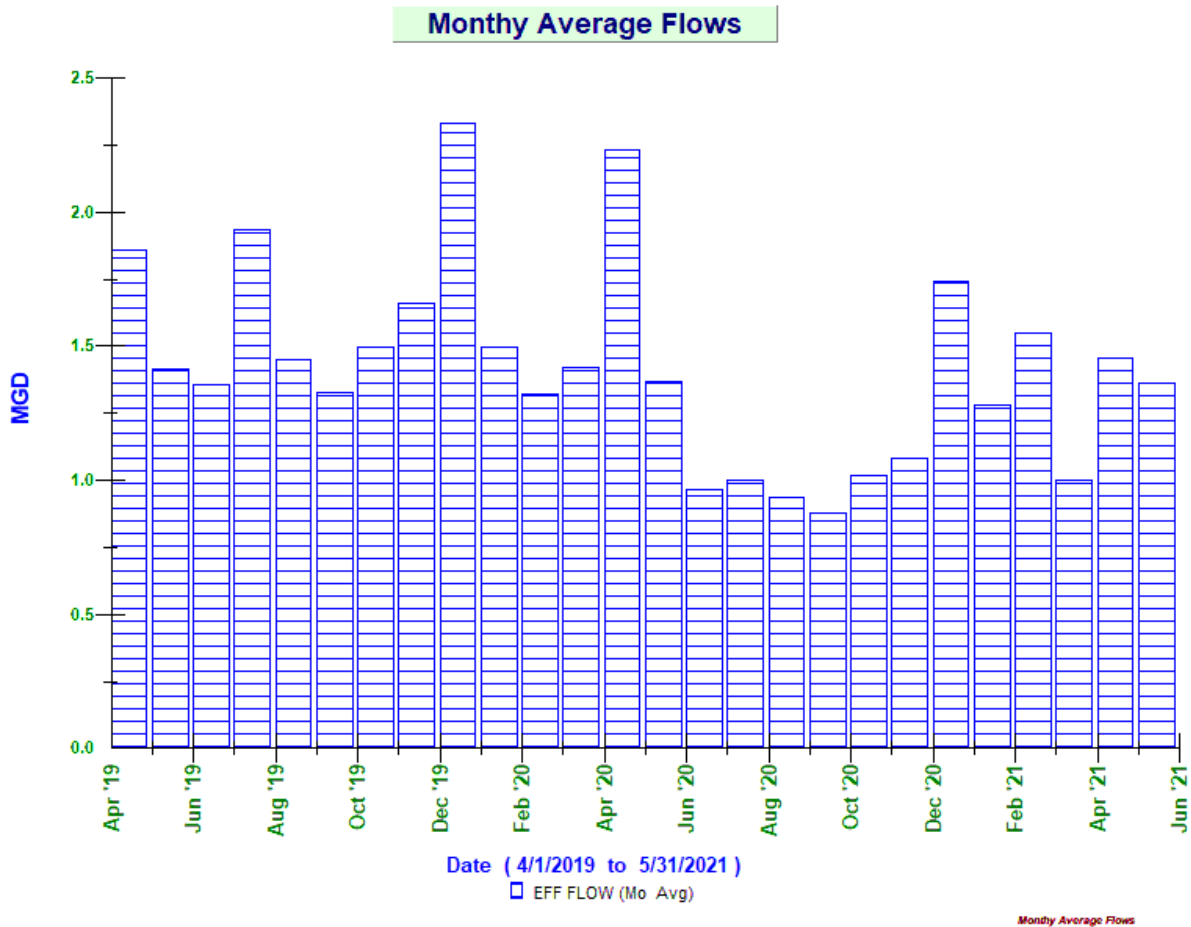
Average Daily Flows and Loadings for the Month:

	Eff Flow MGD	Inf Flow MGD	Inf BOD LBS	Inf TSS LBS	Eff BOD LBS	EFF TSS LBS
May 2019	1.416	1.733 *	2272	4134	44	100
May 2020	1.367	1.547*	1375	2064	32	92
May 2021	1.363	1.466*	1590	2080	41	83

* On-Going -The influent flow meters are strap on doppler flow meters, and the internal pipe condition prevents getting a strong signal. The staff utilizes the area velocity meter in the aeration tank inlet channel as well as the headworks influent Parshall Flume meter. 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. Flows in 2020-2021 are lower due to improvements in the collection system to reduce inflow and infiltration.

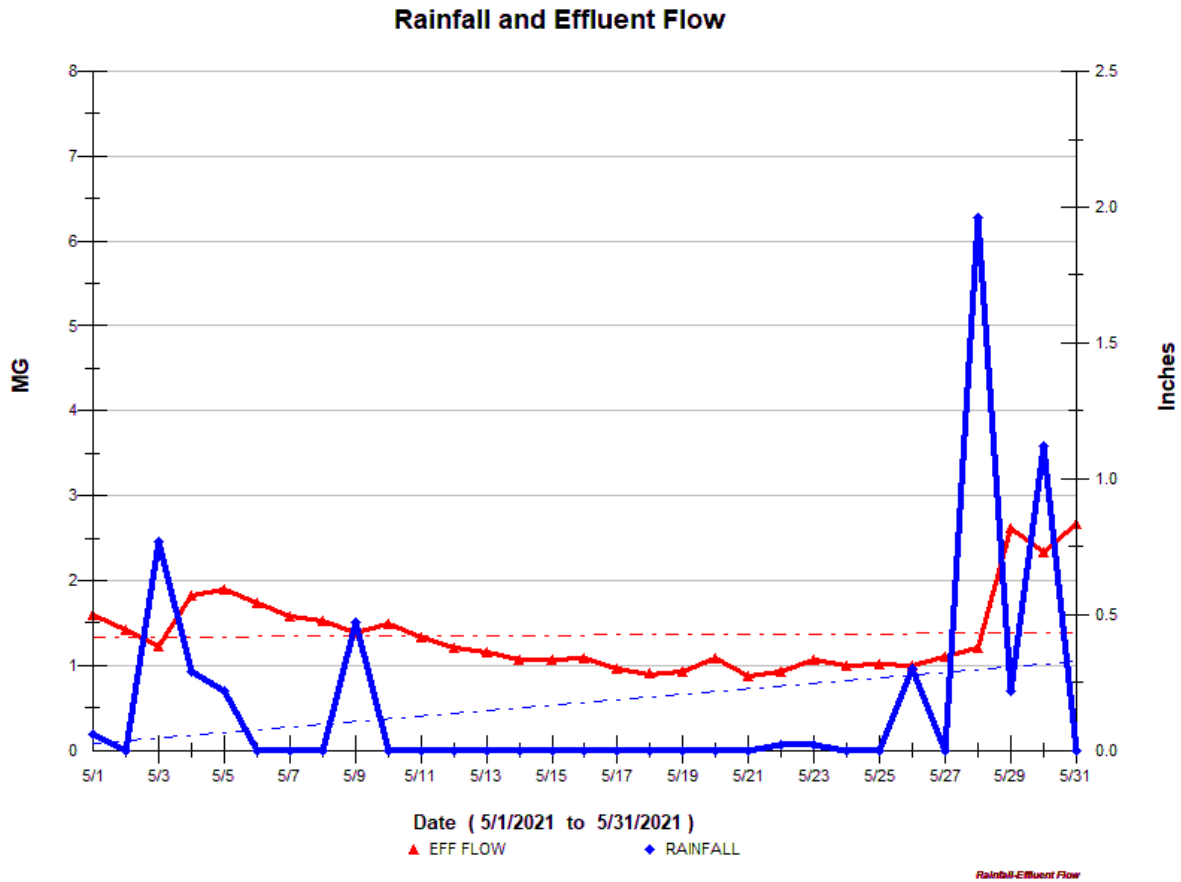
2.1 AVERAGE EFFLUENT MONTHLY FLOWS – 2+ YEAR COMPARISON

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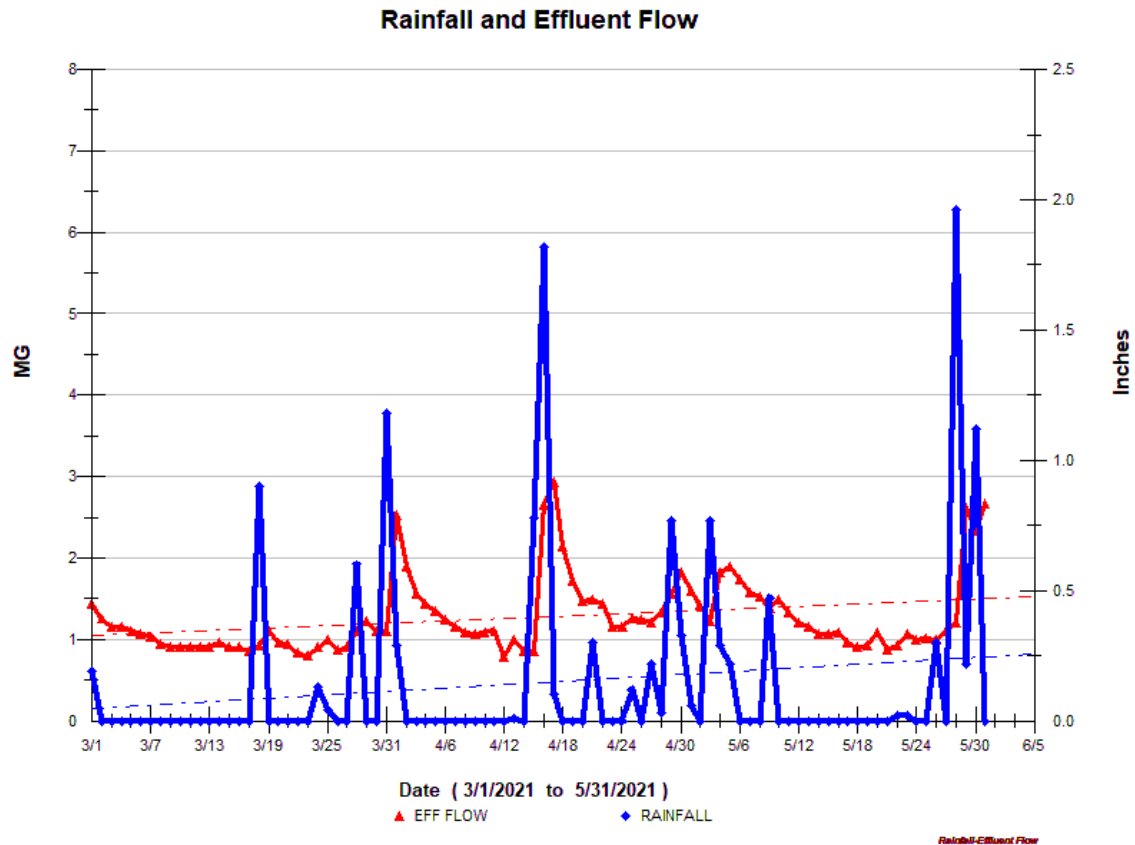


The monthly average flow for May was 1.36 MGD, very similar to the previous month. The total precipitation for the month was 5.45 inches, with 3.4 inches of rain on 5/28-31. The graph shows the 2-plus year summary of the monthly average flows.

2.2 MONTHLY SUMMARY OF RAINFALL AND THE INFLUENCE ON EFFLUENT FLOWS



This graph shows the days where precipitation occurred [rainfall] [Blue Peaks]. This graph indicates that there were a few wet weather periods in May. The wet weather had moderate impact on the plant flows.



This graph shows the data from the last 3 months and shows the times when rainfall impacted the plant flows.

3 COMPLIANCE



➤ Plant Effluent

There were no permit exceedances in the month of May.

- Plant process conditions were stable during the month. Transitioned from the timed aeration schedule to continuous aeration operation. The primary clarifier was taken out of service by the end of May. There were some flows variations due to higher rainfall seen early in the month and at the end of the month. Sludge settleability improved and greasy sludge mats on the aeration tanks lessened significantly. Chlorination of the RAS was stopped. Pictures of one of the aeration tanks and clarifiers below.



- A Copy of the monthly NPDES reports for May 2021 was submitted to the EPA & DEP and then forwarded to the Hull Sewer Dept.
- Weekly sampling schedule adjusted as needed to accommodate capital projects and flow shutdowns/bypasses.



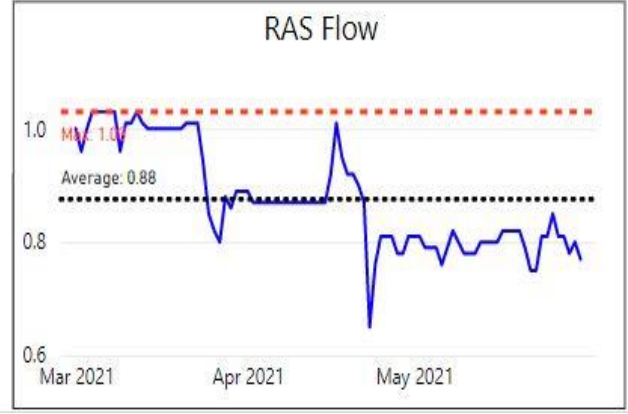
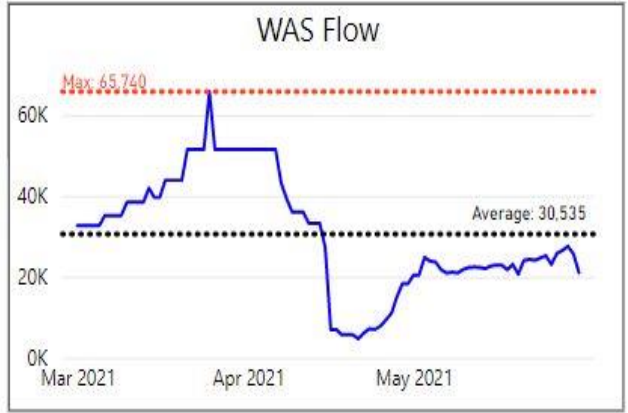
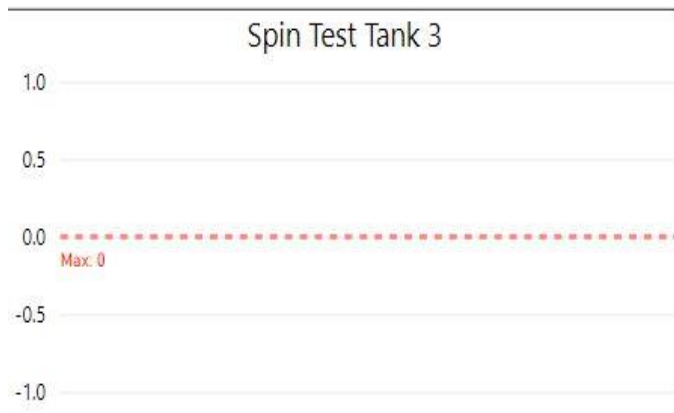
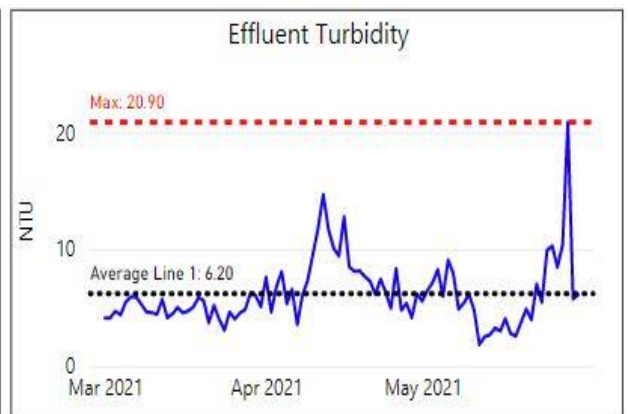
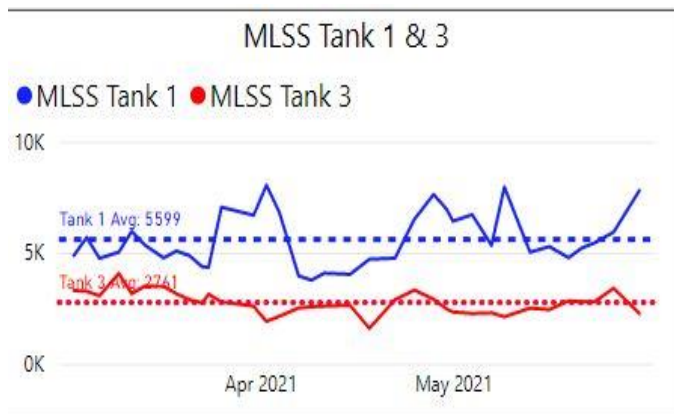
Hull Wastewater Treatment Facility

5/1/2021

5/31/2021



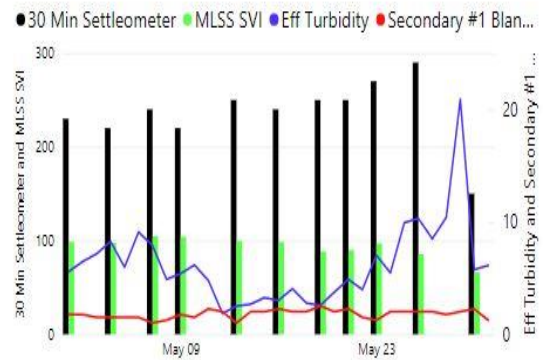
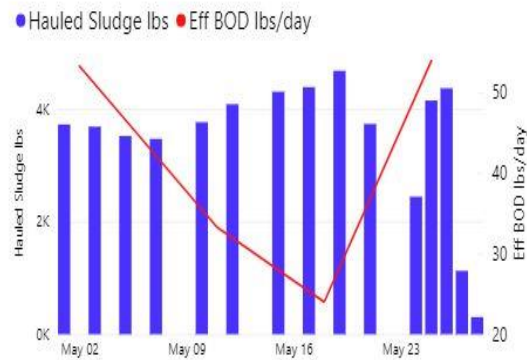
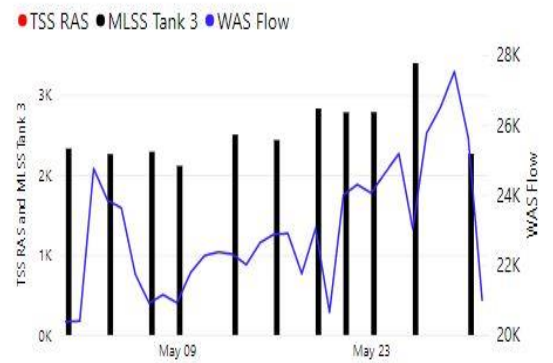
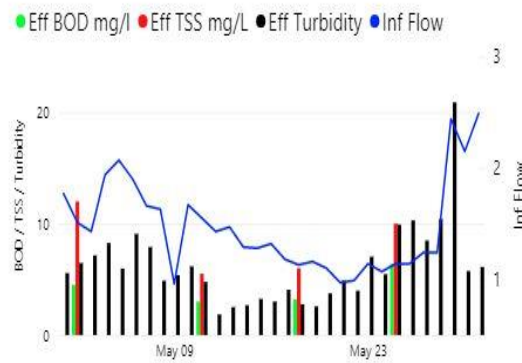
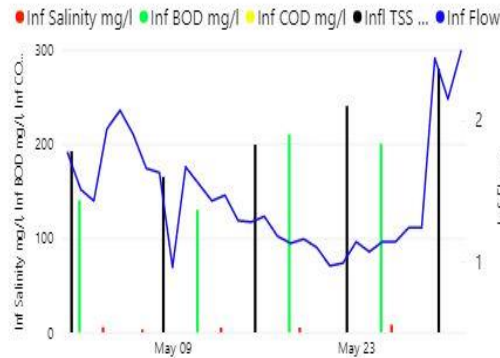
Monthly Process Summary graphs from power BI – May 2021.



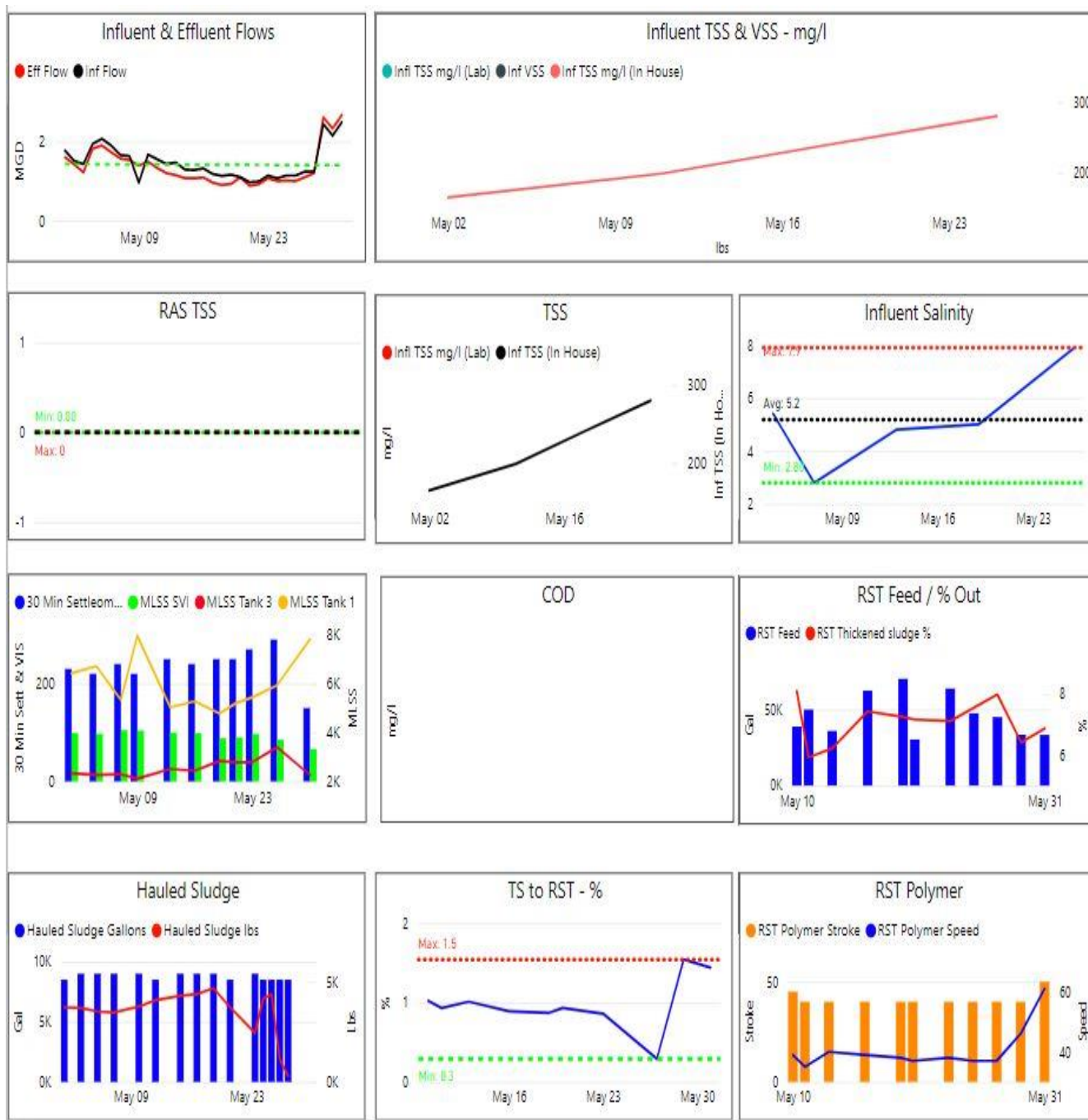
Graphs shows trending of secondary processes using Power BI for the 3-month period ending on 5/31/21. The tank solids levels under aeration showed minimal change, and wasted gallons were lower. The sludge settling that is measured as SVI [sludge volume index] which had been slow, showed stability and remained low [a positive sign]. Effluent turbidity was stable, although the elevated values at the end of May were the result of higher plant flows.

Hull Wastewater Treatment Facility Drylet Parameters

5/1/2021 5/31/2021



Various Power BI Graphs [related to Drylet] shows trending of various processes – May 2021.



Additional Power BI Graphs that show trending of various parameters – May 2021

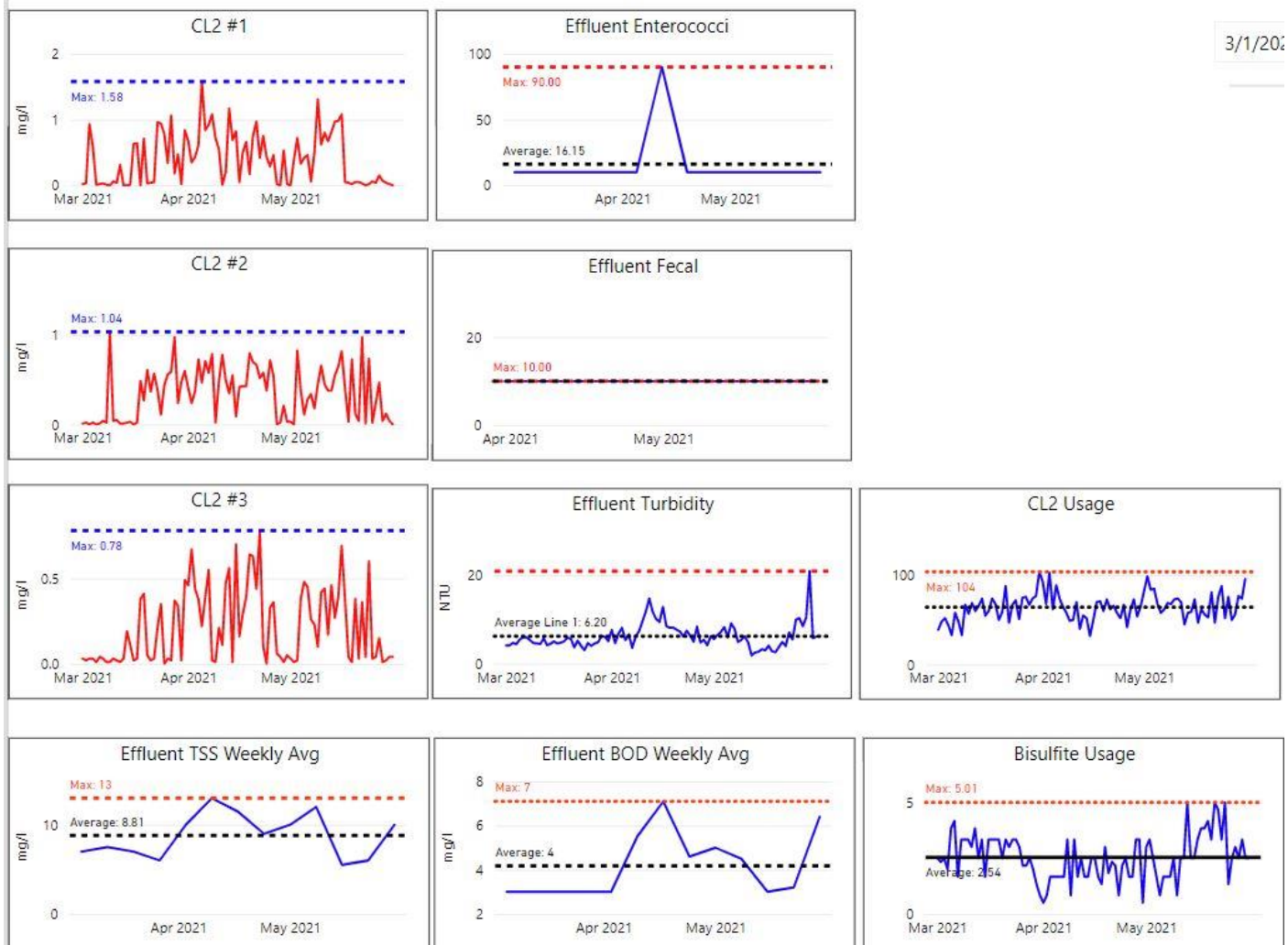
4 KEY PERFORMANCE INDICATORS



4.1 WATER QUALITY – MAY 2021

Parameter Info		Permit Requirements					Results				
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	8.4	5.5	12.0	4	0
Eff TSS	LBS			1152	768	1 X Week	83.1	45.0	142.1		0
% TSS Rem	%		85			1 X Month	96.2				0
Eff BOD	MG/L	50		45	30	1 X Week	4.3	3.0	6.4	4	0
Eff BOD	LBS			1152	768	1 X Week	41.1	24.0	53.9		0
% BOD Rem	%		85			1 X Month	97.5				0
Eff Chlorine	MG/L	1.0			0.7	3 X Day	0.3	0.01	0.67	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	6.9	6.5	7.2	31	0
Enterococci	CFU/100 ML	276			35	1 X Week	10	10	10	4	0

There were **148** effluent samples taken in the month of May.

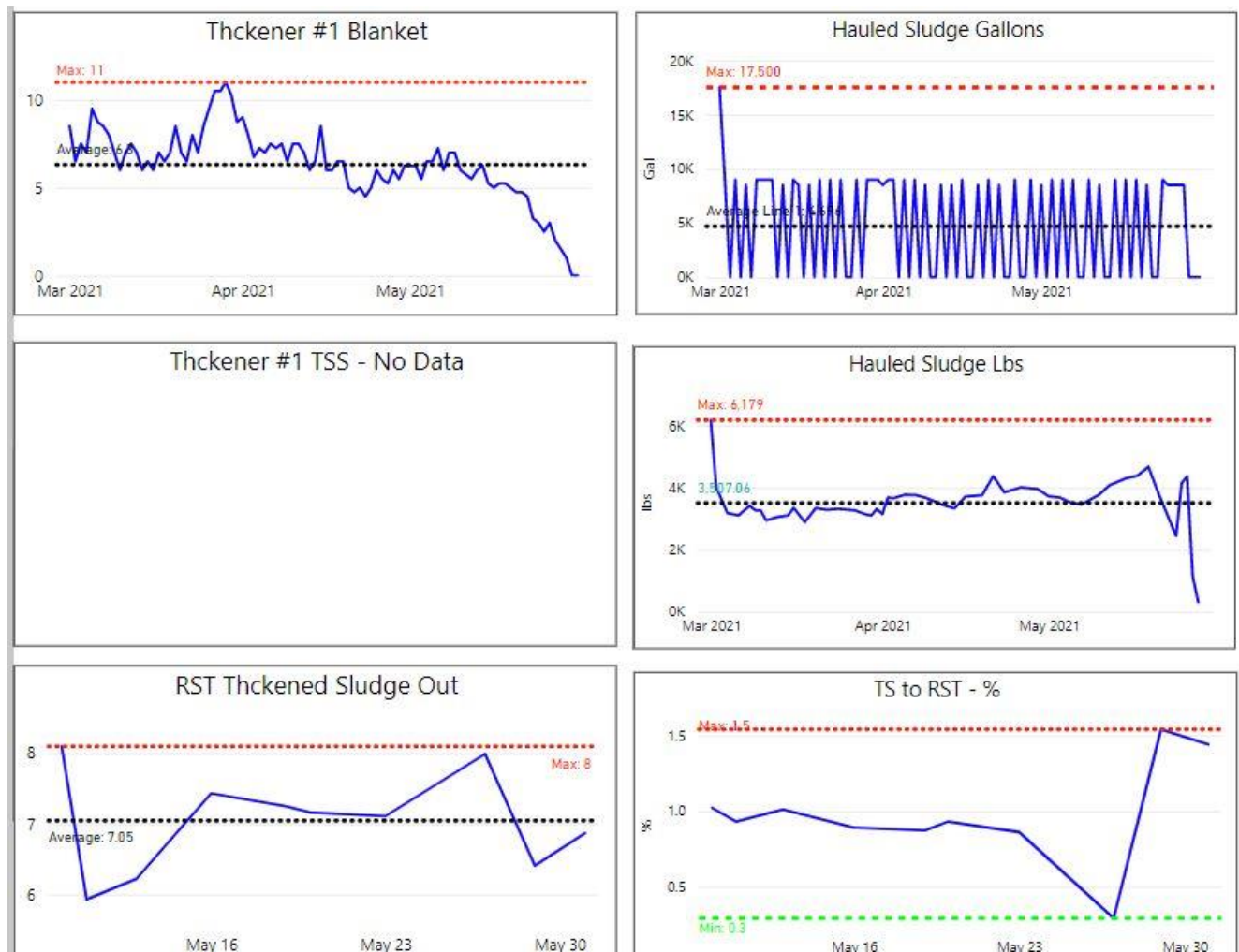


Power BI graphs showing effluent compliance for the last 3-month period ending on 5/31/21 - chlorine residuals, effluent compliance, & chemical use. Bleach [sodium hypochlorite] & sodium bisulfite trending same/slightly higher, and effluent quality was stable.

Gallons Treated vs Sludge Disposed

Month	Effluent Treated, MG	Sludge Disposed, Gals
May 2019	43.89	90,000
May 2020	42.38	133,500
May 2021	42.25	131,500

Additional Power BI graphs for sludge solids for 3-month period ending 5/31/21.

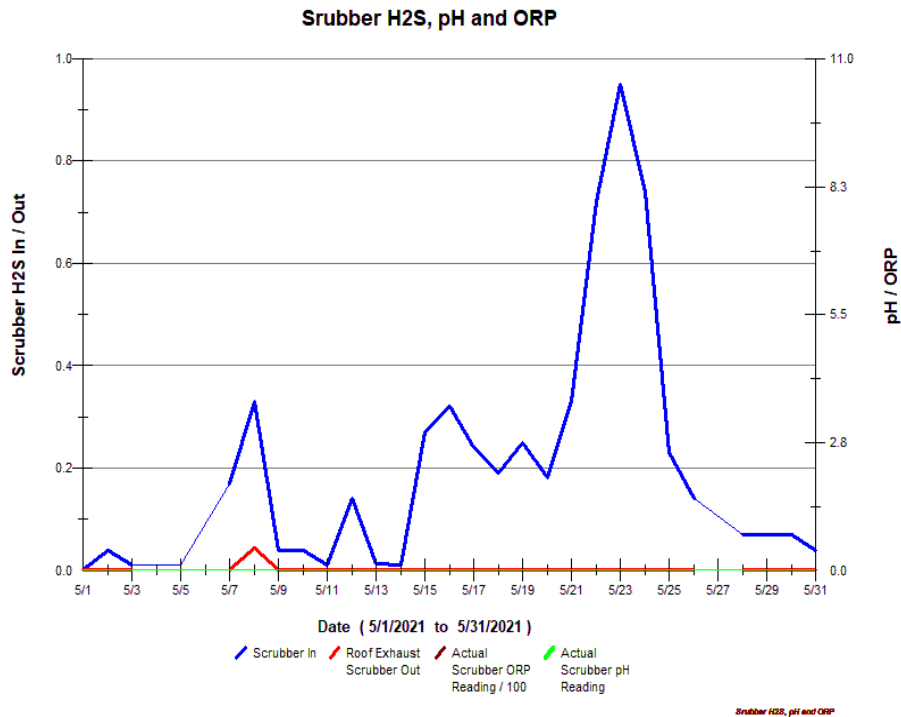


5 ODOR CONTROL

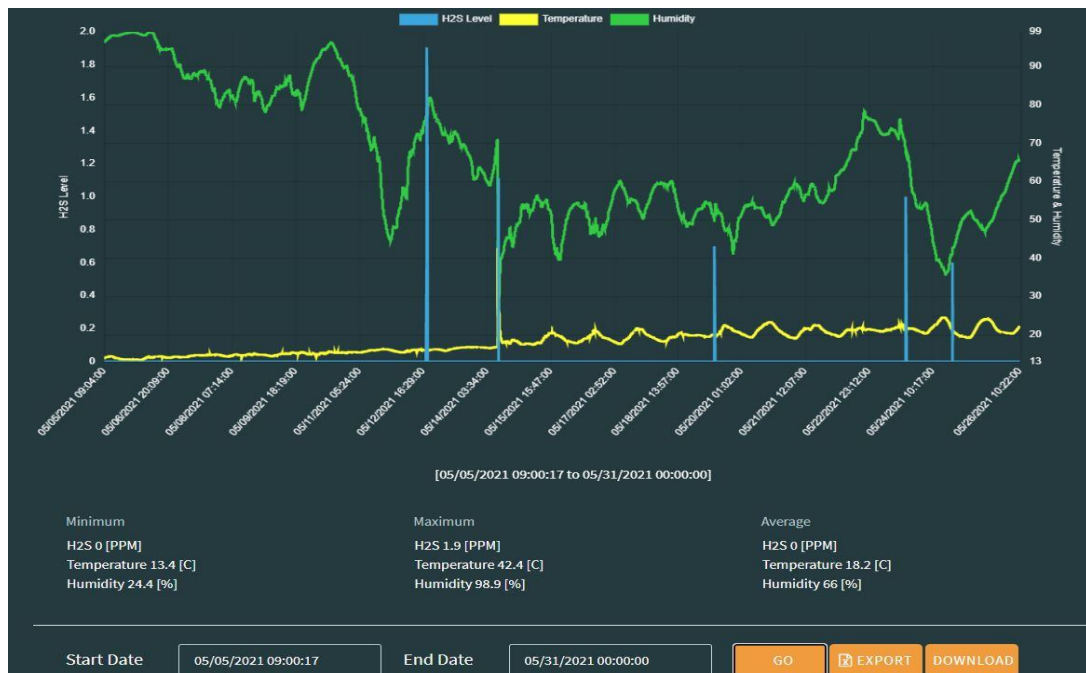
There were no odor complaint calls received during the month of May for the wastewater facility. The gravity thickener and primary clarifier were both on-line nearly all month. The primary tank was taken offline in late May, for odor reasons. The Bioxide system was on, and the feed rates were adjusted as needed according to data seen at Nantasket/Water MH. Some changes made were sewage temperature and flow related. The overall feed rates remained low in the month of May. The monthly graphs are attached below.

- “In-Pipe” bacteria addition continued with all 24 Microbe Dosing Stations [MDU] operational. The monthly bottle changes were completed 5/19/21. The bi-weekly change outs of the bacteria bottles at three lift stations in the wet wells or manhole just prior to the station. [PS 3, PS 5, PS 9] were done on 5/27/21.
- Mixing systems/aerators were all functional and in timed mode at the pump stations with, except for pump station #3. [Bioxide addition is at PS 3], and at PS #5, with newer Flygt pumps, as the mixer may be causing air entrapment in the pumps.
- Hydrogen sulfide monitoring units [H₂S] were recording and being trended on the odor scrubber for monitoring inlet and outlet H₂S levels. The scrubber fan speed was at 50HZ, approximately 75% speed. Adjusted pH setpoint for scrubber up slightly.
- Weekly neighborhood monitoring around the plant done with portable Jerome meter is being done weekly.
- Check on XYZ odor logger made, since no data collection for part of the month. No dissolved H₂S at this MH.
- Still considering possible options for Bioxide additional at PS 1 and PS 9 areas.

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

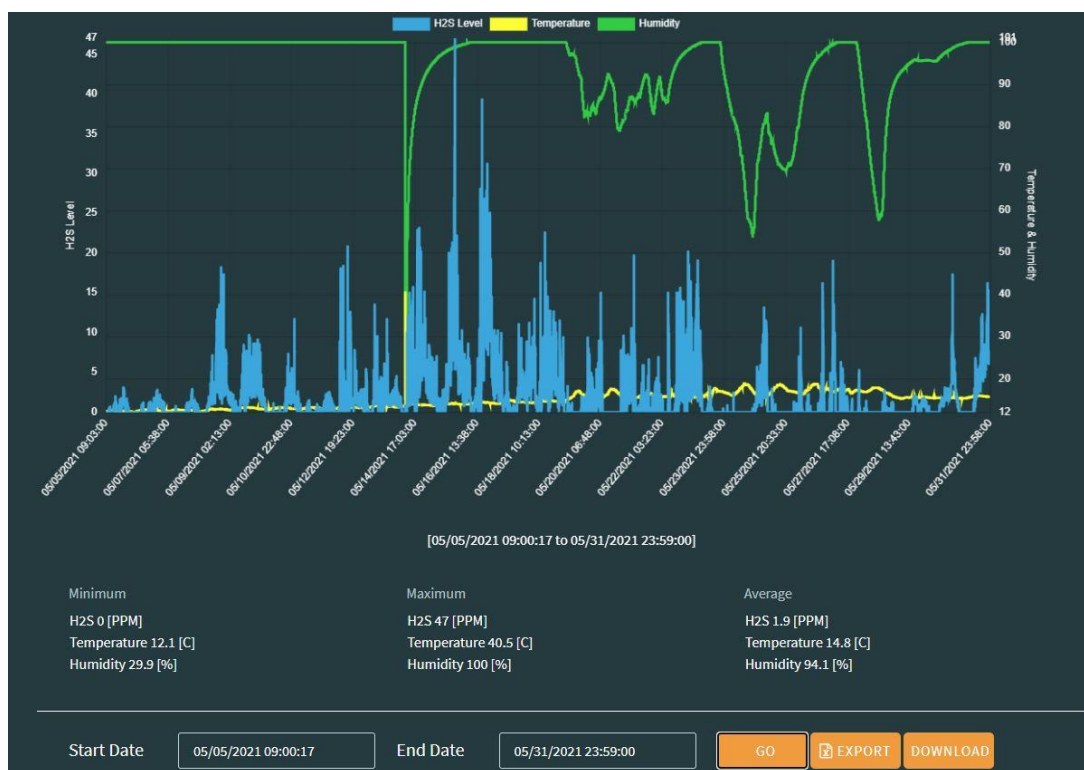


XYZ – Nantasket Ave [closest to plant]



The odor data logging unit at XYZ that was being used to monitor overall H2S levels as close to the plant has had no H2S present. A few low-level spikes seen.

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



Pump station #3 - Bioxide stored here and where the chemical is added. The H2S level is monitored at the end of the force main at Nantasket & Water Street. The excess nitrate concentration in the sewage is available to treat the additional H2S contributed from other parts of the system – PS4, contributions from lines feeding the interceptor, PS5, PS6, etc. all the way to the plant.

There were generally low H2S levels in the system for most of May mostly due to lower wastewater temperatures and some wet weather flows. The individual spikes were due to the discharges flow from PS #4.

6 MAINTENANCE SUMMARY

6.1 TASKS COMPLETED THIS MONTH

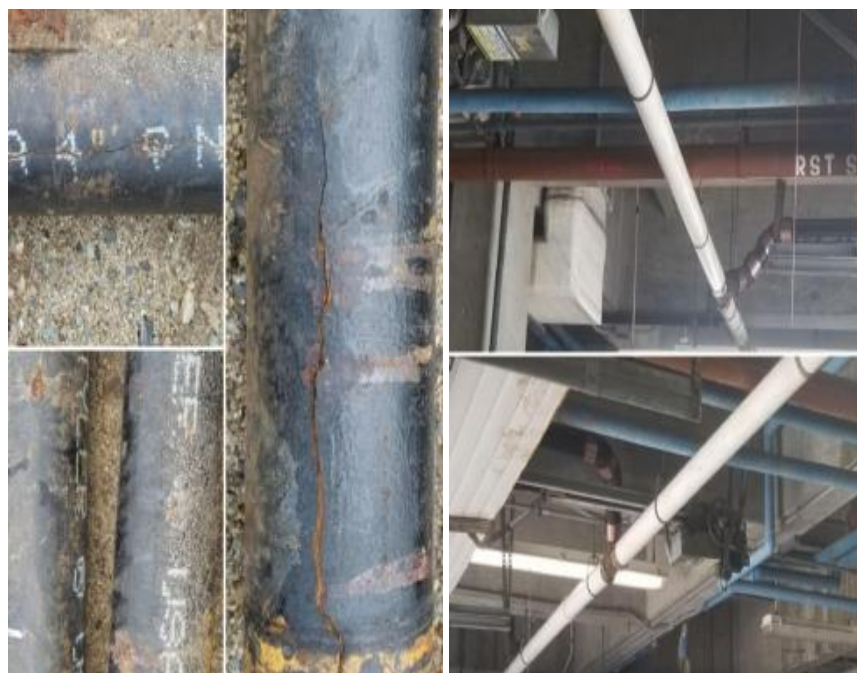
The SEMS monthly work order summary for May is compiled and attached for review.

Additional key items of note are listed below.

- Dealing with PS5 transducer failure on 5/6 because of the wet well stilling pipe falling off from the anchors and dropping down into the wet well. A new transducer was installed, and D&C Construction replaced the stilling pipe.
- Support the GMPS pipe inspections in the collection system & ALU inspection of FM's at PS 1,3, & A. [5/12]. Assist with PS1 when the temporary plug from the old gravity line popped out. Groundwater was coming into the well, which eventually was stopped when the hole was sealed off by ALU.
- Assist GMPS with set up at influent wet wells for CSE inspection of pipe that was relined last year. Pete Lyons also on site. AV & DW assist with flow isolation on 5/13.
- Prep for effluent bypass of sec effluent to the CCT for D&C work in sub-basement for blanking off the Q meter bypass piping. Hypo to SMH2 and bypass pump to CCT1. Effluent Q's were estimated, since not possible to record from 7:30am to 3:15pm.
- Co-ordinate the effluent bypass flow and the effluent wet well cleaning, and tank inspection [AV, DW, MS] with a return to normal flow and service at approximately 5:30pm. [5/27]. A set of 2 small submersible pumps were set up for pumping down the effluent water to the aeration basins. Then the vactor/cleaning work was completed prior to the corrective work starting. D&C did inspect effluent P3 support and found that the pump base angle iron supports had rotted away and was major reason for pipe shift. The pipe support hangers had also rotted away.
- 5/12 – had secondary clarifier drive motor failure due to water getting into the motor windings. Had to take motor from tank #2 and install on tank #1. Motor was sent out for repairs. Contacted Lydon on the issue of installation by their electrical contactor for reimbursement of the motor and electrician's time.



- Both chlorine contact tanks were pumped down and cleaned out of accumulated sludge
- Drain piping for second floor RST room that is suspended in garage [1st floor] – replace more rotted pipes. [rotted pipes on left, new PVC piping on right]



- Ralph Cross from Economy Lab in for annual lab instrument calibration on 5/10.
- Mersino Dewatering in for HDPE pipe work at CCT and influent SMH & they completed the effluent discharge pipe [8"] to the inlet side of the CCT's on 5/12. A new 8-inch HDPE drop pipe was also installed at the influent manhole. These connections will allow easier use of the 8-inch trash pump for maintenance needs and emergency pumping if needed. Pictured: L- influent manhole; R- CCT.



- Late May: MS Electrical Power was in to perform load bank tests on all generators – plant and pumping stations. All testing went well. PS #5 generator needed an additional tune up.
- Ongoing electrical: Glenn Fellows working on electrical lighting in Ops building [bulbs and ballasts]. Conduit work in RST room for horn/strobe & effluent pump room for mini-cass relay installation for Flygt pumps [effluent].
- Tecta America in for roofing repairs starting on 5/28 – Ops building roof and Pri and Sec building roofs, reviewed/approved by HSD.
- Pump station #4 – repeat of vandalism, where graffiti sprayed on door and building siding. On 5/1 W&C used two different cleaning agents to try and scrub the graffiti from the pump station door and exterior siding.
- Install new flow meter for 2nd pump at PS #5
- Install new dehumidifiers – PS5 and LS A
- New [Additional] lockers installed in locker room to replaced those removed, many years before and to accommodate additional support staff, interns, etc.



- Painting – prep bases for Vaughan chopper pumps
- New roll up overhead garage door installed and existing overhead doors – PM'd



- Scrap pick-up from yard by DPW
- Onan Tow generator – new wheels and tires installed by O'Neil Tire.



6.2 ASSET MANAGEMENT ACCOUNTS

- Please see the attached summary totals and planned expenditures for the Asset Management accounts for contract year (6). Most recent through **07/27/21**.
- Year 7 Asset Management account summary is attached.
- Note: there are several 06M projects in progress with purchase orders still open for ongoing work. As these projects are completed, the checkbook is being updated.

7 SAFETY



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

- No lost time incidents reported for May
- Monthly PM's - Emergency eyewash and shower inspections, fire extinguisher and emergency lighting inspections completed. Monthly facility safety inspection completed.
- On-going Coronavirus Covid-19 awareness and updates discussed – daily & as needed. Post updated posters at entrances as needed. Staff separation, facility visitors, personal hygiene & company initiatives. Continuing daily non-contact temp checks for staff & visitors. Ongoing: Work with onsite contractors to ensure that Covid-19 procedures in place and being followed. CDC guidance updates.
- On-going – daily safety briefing meetings with staff, covid updates & reminders, site specific safety policies for sub-contractors, safety tailgate meetings. Pure Safety topic– May – Lab Safety
- Monthly staff safety meeting conducted on 5/28/21. The staff participated virtually via Microsoft Teams. Major topics discussed: Covid updates, living well, eye protection, 12 most unsafe conditions & causes for injuries discussed.
- Electrical gloves that had been sent out for inspection/certification returned.
- Service truck – annual safety inspection/service completed.

8 STAFF DEVELOPMENT

Training is an important part of any operation to ensure employee health and safety is assured, quality standards are maintained, 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 monthly safety meeting. W&C “near-miss” incidents at all projects for April discussed.
- Initiated renewal for staff memberships in the MAWEA [Mass Water Environment Association]
- Regular operational updates and process control discussions, pump station operations, especially with construction projects going on at the plant and pump stations. Safety Covid-19, dig-safes, etc.
- On-going - Staff continued to use the virtual training sessions offered through NEIWPC. These modules to be used for training, educational advancement, contact hours for wastewater license renewal, and certification exam preparation.
- Mike Sullivan: New employee onboarding and Pure Safety training

Staffing related items:

- The regular staff labor continued to be supplemented with the two O&M Specialists to cover all the necessary shifts, since the regular staff was reduced by one person [Bill B leaving the project] Paul Horigan and Jody St. George provided the additional assistance.
- Weekend staff schedule was updated that will have some Saturday & Sunday staff coverage on overtime basis and increased use of part-time staff. Changes made as needed to the Sunday schedule plan - coverage continued with Aram V., Roger B., and Joe B.
- Michael Sullivan, new project APM started in position on 5/17/21. Schedule Monday through Friday, with weekend and holiday coverage as needed. [MA Grade 7C wastewater license] Staffing plan updated in the monthly DMR.
- Co-ordinating plans to have a Mass Maritime [MM] intern for the summer 2021, Joel Terrio, a Hull resident, will start in June.

9 COLLECTION SYSTEM

9.1 WET WELL CLEANING

The actual schedule for wet well cleaning: May 2020 to April 2021:

(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, 2021								
June, 2021								
July, 2021								
Aug., 2021								
Sept. 2021								
Oct.,2021								
Nov, 2021								
Dec., 2021								
Jan., 2022								
Feb., 2022								
March 2022								
April 2022								

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

9.2 COLLECTION SYSTEM MAINTENANCE

Woodard & Curran assisted/conducted camera work and sewer system support in the Hull collection system at the following areas during the month of May.

- In-Pipe units – on-going maintenance of dosing units as needed. Staff conducts board troubleshooting, dosing pump repairs and replacements, and works with “In-Pipe” technician on these issues.
- All Pump station generators loaded, and non-loaded generator runs were done for the month.
- All Pump station wet wells were inspected in May. Monthly Pump Station Inspections completed and combined with monthly station PM's.
- Upload tie-cards to the UC as requested.

- Grinder pump summary:
 - callout on 5/27 to 9 Quonset – panel tripped; pump chamber full
 - 1 Worrick Rd – 5/22 – replaced pump
 - 36 Barnstable Rd – 5/12 – replaced pump

Dig Safe mark outs:

- On-going Dig-Safe mark outs. These are completed throughout the Town of Hull to assist/facilitate scheduled and emergency gas repairs, broken water mains, upcoming roadway paving projects, and other residential and town projects and are listed in the UC summary.

Collection system support: Ongoing backup and blockage call outs requiring an increase in manpower and time to support. Below summarizes W&C's efforts at the various call out locations.

- Complete emergency dig safe requests when able to complete them. Most of the calls were for water main breaks/gas company emergencies. There were a number for fire hydrant replacements planned & done.
- Inspect and exercise the buried gate valve at H Street and Central Ave [stormwater system]
- 113 Bay Street – investigate sink hole [5/7]
- 233 Beach Ave – inspect a lateral reconnection [5/17]
- 97 Nantasket Ave – odor/small call out [5/17]
- 5/24 – back up calls for 510-538 Nantasket Ave.
- 5/25 - Pt Allerton drainage test pits
- 38 Beacon Rd
- K/Nantasket Ave & 628 Nantasket Ave – MH cover banging – rapo-ring gasket installed.

Collection system work is being documented and tracked in Utility Cloud and a summarized report for the month of May has been included as an attachment with the Monthly Operating Report.

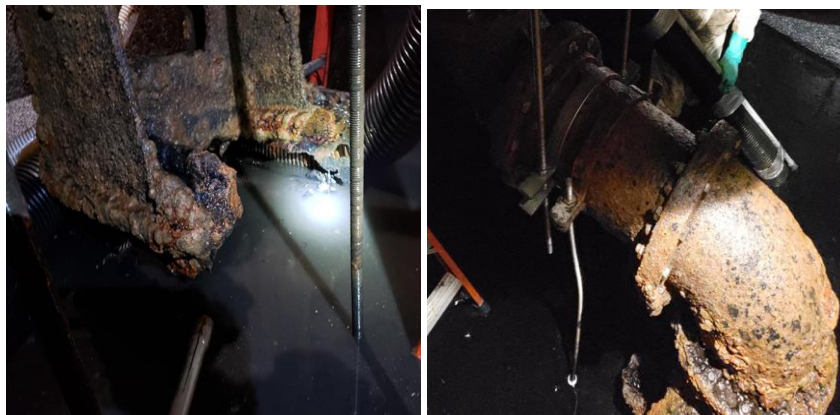
10 PROJECT MANAGEMENT & ADMINISTRATION



10.1 ON-GOING PROJECTS AND SUPPORT ITEMS

May updates:

- Ongoing – support of engineering projects - review and provide feedback and participate in calls as available. Continued work with the Town, W&C Engineering, and D&C Construction on the effluent pump room, PS5 projects, HVAC project. Other items listed below:
 - Work with GMPS for warrantee inspection work in headworks and piping.
 - Coordinate and support all of Tecta America's roofing work for the facility roof repairs.
- JB and ES given on site work time to assist with questions related to Sewer Dept's legal inquiries related to the Feb 2013 incident.
- Ongoing: Co-ordinated plant flow shutdowns for the effluent wet well cleaning, pump base inspection, and repairs & replacement supports for effluent pump #3.



- Continued working with the HSD on Town owned portable equipment list and registrations/license plates.
- Project **On Hold**: Sludge holding tank #1, the installation of diffuser piping. Having an additional tank for waste activated sludge storage would add to the storage capacity during the warmer months. Still to investigate what spare parts are on site and the additional parts/items needed. An update on the existing inventory of parts will be made with a recommended purchase cost and presented. Tank cleaning needed.
- Scope of work for PS 4 continued work to clarify the extent of additional piping and co-ordination needs. Additional parts/fittings ordered. Working with Nick Valinski, HSD, and D&C. Planning to run the station bypass using the 8-inch Vortex pump.
- Continued work on the radio/communications project for communication between the plant and the pump stations. Provided location co-ordinates to TCS Communications, so that the path study work could begin. FCC license application process in process.
- Evaluation of the replacement of one sludge transfer pumps completed. Plan to order a new Summit trash pump and look for contractor installation.
- Completed reconciliation for water billing that related to the headworks bypass project.
- Worked with vendors for polymer blending system, InfraRed electrical study, chopper pumps, sludge transfer pump to issue purchase orders for planned work at the plant. Received ok to proceed from HSD.
- Ongoing - WC looked at several options for improving the pumping at LS A and based upon the current condition of the pumps and differences found when researching what is currently there. The station has had issues with low output for quite some time and this has decreased more due to internal wear of the pump wear rings and impellers. One of the pump impellers lacks a wear ring, as it was ordered that way several years ago. While the most expensive, WC is recommending the replacement of both pumps], and this would include relocation of the power disconnects out of the lower pump room to the street level. WC feels that this option offers the best long-term plan for the pump station and would include the addition of the seal protection circuit. Quotes for new pumps were received from several vendors. Spare rotating assembly at plant – had IPS swap impeller to this unit, for Pump #2 installation.
- PS #1 – found temporary plug from old inlet line had popped out. Worked with W&C Engineering, Aqualine to allow for sealing off the concrete

- **Ongoing [noted last month]:** Influent FM pipes in sub-basement – area of concern and being monitored. Outer pipe layer corroding away and breaking away from remaining pipe. Possible repair options still need to be investigated.
- Pending: GT1 sandblasting/painting – preliminary look at the possibility to have this project occur during the summer season – 2021. Coatings inquiry to Mfr. Nothing further to date.
- Already ordered with purchase order: D Street PS pump inspection and anode inspection and replace as needed with Industrial Pump Sales – Long lead time item for the anode blocks.

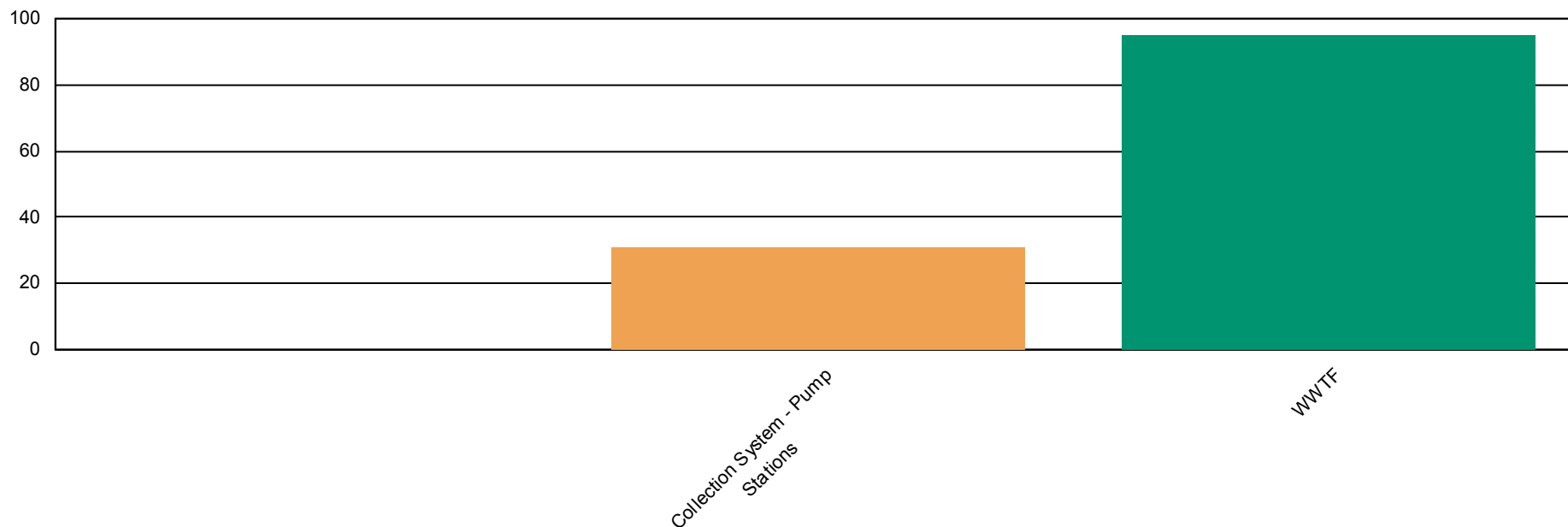


Maintenance History Report

Hull Wastewater

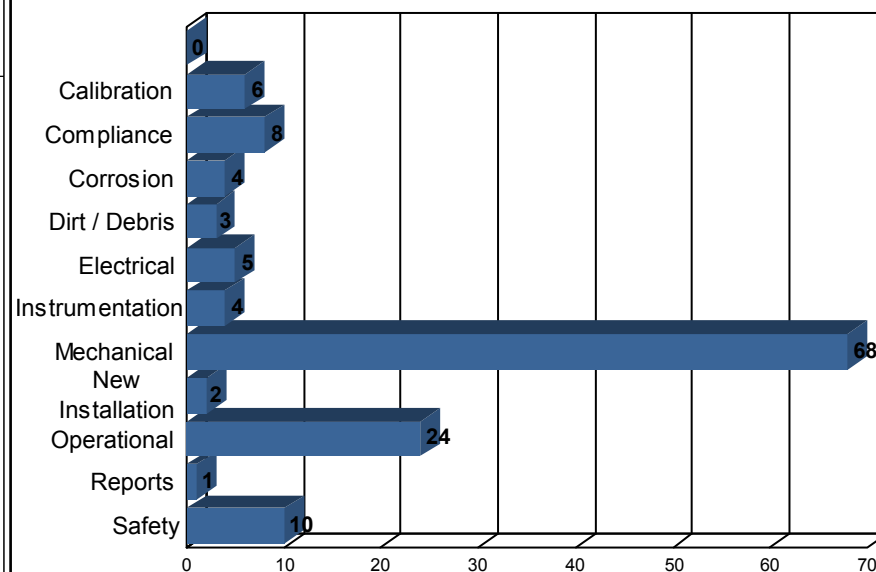
Start Date: 5/1/2021
End Date: 5/31/2021

Work Order History By Department



	Total
Collection System - Pump Stations	31
WWTF	95
Total	126

Employee	WO Count	Labor Hours
Aram Varjarbedian	7	3
David Wilson	117	41
Eric Sutton	1	1
Jody St. George	1	2
Joe Basler	1	1
Outside Contractor	2	8
Paul Horigan	3	4
SEMS TABLET #2	1	6
Unassigned	2	1



Totals	135 66

5/4/21	13819	RST unit	RST Annual Maintenance	Service Incident Completed		4/13/21	Completed
5/10/21	13608	PS Kohler Trailer Mounted Generator	Generator Weekly - Test Run no load	Completed by Killian Anderson	Preventative Maintenance	5/10/21	Completed
5/11/21	13523	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load	No issues found.	Preventative Maintenance	5/10/21	Completed
5/11/21	13518	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		Preventative Maintenance	5/10/21	Completed
5/18/21	13524	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load	Checked all fluids and brought up to operating temp. No issues found.	Preventative Maintenance	5/17/21	Completed
5/18/21	13519	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load	Checked all fluids and brought up to operating temp. No issues found.	Preventative Maintenance	5/17/21	Completed
5/20/21	13609	PS Kohler Trailer Mounted Generator	Generator Weekly - Test Run no load		Preventative Maintenance	5/17/21	Completed
5/24/21	13610	PS Kohler Trailer Mounted Generator	Generator Weekly - Test Run no load	KA completed all station no load generator runs.	Preventative Maintenance	5/24/21	Completed
5/24/21	13520	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		Preventative Maintenance	5/24/21	Completed
5/25/21	13525	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		Preventative Maintenance	5/24/21	Completed

Collection System - Pump Stations

5/1/21	13963	23 - WW Pump Stations	Removing graffiti from pump station 4 exterior	Used two different cleaning agents to try and scrub the graffiti from the pump station door and exterior siding.	Corrective Maintenance	5/1/21	Completed
5/17/21	13989	PS 5 Pump 2	Loss of power caused VFD fault.	DW / ES went to station to diagnose pump not running. Found pump 2 VFD display reading drive fault and pump 1 VFD display reading frequency fault. Pump 1 was still cycling as normal. Loss of utility power at 9:45 am. Likely cause of faults. Exercised power to clear faults. Verified proper operation of both pumps.	Corrective Maintenance	5/17/21	Completed
5/11/21	13603	Fire Extinguishers	WWTF Fire Extinguisher Inspections - Monthly		Inspections	5/3/21	Completed
5/12/21	13571	PS A	PS #A Inspection - Monthly	Inspected wet well, fire extinguisher, pump seals, hubs and couplings. Tested high level alarm and sump pump.	Inspections	5/6/21	Completed
5/12/21	13560	PS 3	PS #3 Inspection - Monthly	Inspected wet well, fire extinguisher, pump seals, hubs and couplings. Tested high level alarm and sump pump.	Inspections	5/6/21	Completed
5/18/21	13568	PS 9	PS #9 Inspection - Monthly	Inspected wet well. Approximately 15% surface solids. Backup high level alarm. Could not verify function. Inspected fire extinguisher, hubs and seals. Tested high level alarm and sump pump.	Inspections	5/6/21	Completed
5/18/21	13564	PS 5	PS #5 Inspection - Monthly	Inspected wet well. Less than 10% surface solids. Verified backup high level alarm. Inspected fire extinguisher. Tested high level alarm and sump pump.	Inspections	5/6/21	Completed
5/18/21	13563	PS 4	PS #4 Inspection - Monthly	Inspected wet well. Approximately 20% surface solids. Possible backup high level alarm. Could not verify function. Inspected fire extinguisher, hubs and seals. Tested high level alarm and sump pump.	Inspections	5/6/21	Completed
5/4/21	13663	PS Onan Trailer mounted generator	Montly operational test run	Service Incident Completed	Preventative Maintenance	5/1/21	Completed
5/10/21	13639	Generators "All Pump Station"	Generator Weekly - Test Run no load	Completed by Killian Anderson	Preventative Maintenance	5/10/21	Completed
5/18/21	13569	PS 9	PUMP STATIONS - QUATERLY PM'S	Ran both pumps. No unusual noises or vibrations. Exercised all valves. Greased all pumps and motors.	Preventative Maintenance	5/4/21	Completed
5/18/21	13558	PS 1	PUMP STATIONS - QUATERLY PM'S	Ran both pumps. Pump 2 slightly louder than pump 1. Exercised all valves. Greased pumps and motors.	Preventative Maintenance	5/4/21	Completed
5/18/21	13565	PS 5	PUMP STATIONS - QUATERLY PM'S	Exercised all valves. Ran both pumps. No unusual noises or vibrations. Cleaned off grease from rising stem suction valves. Dirt in grease. Regreased stems.	Preventative Maintenance	5/4/21	Completed
5/18/21	13566	PS 6	PUMP STATIONS - QUATERLY PM'S	Ran both pumps. No unusual noises or vibrations. Exercised all valves. Greased all pumps and motors. Replaced two light bulbs on the lower level. Replaced frame netting.	Preventative Maintenance	5/4/21	Completed

Collection System - Pump Stations

5/18/21	13561	PS 3	PUMP STATIONS - QUATERLY PM'S	Run both pumps. No unusual noises or vibrations. Exercised all valves. Greased all pumps and motors.	Preventative Maintenance	5/4/21	Completed
5/18/21	13570	PS A	PUMP STATIONS - QUATERLY PM'S	Exercised all valves. Pump 2 was air bound. Air purged but still making strange noise. Pump 2 suction valve is scheduled for replacement.	Preventative Maintenance	5/4/21	Completed
5/18/21	13562	PS 4	PUMP STATIONS - QUATERLY PM'S	Ran both pumps. No unusual noises both have vibrations. Pump 1 valves failed open. Exercised pump 2 valves. Greased pumps and motors.	Preventative Maintenance	5/4/21	Completed
5/18/21	13574	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		Preventative Maintenance	5/12/21	Completed
5/18/21	13578	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		Preventative Maintenance	5/12/21	Completed
5/18/21	13584	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Preventative Maintenance	5/12/21	Completed
5/18/21	13588	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Preventative Maintenance	5/12/21	Completed
5/18/21	13598	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		Preventative Maintenance	5/12/21	Completed
5/18/21	13594	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		Preventative Maintenance	5/12/21	Completed
5/19/21	13575	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		Preventative Maintenance	5/19/21	Completed
5/19/21	13579	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		Preventative Maintenance	5/19/21	Completed
5/19/21	13585	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Preventative Maintenance	5/19/21	Completed
5/19/21	13589	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Preventative Maintenance	5/19/21	Completed
5/19/21	13595	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		Preventative Maintenance	5/19/21	Completed
5/19/21	13599	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		Preventative Maintenance	5/19/21	Completed
5/20/21	13640	Generators "All Pump Station"	Generator Weekly - Test Run no load	Completed all stations	Preventative Maintenance	5/17/21	Completed
5/24/21	13641	Generators "All Pump Station"	Generator Weekly - Test Run no load	KA completed all no load generator runs.	Preventative Maintenance	5/24/21	Completed

5/4/21	11913	Archive Chlorine Residual Probe	Chlorine probe cord and outlet located on the chlorine contact tank have failed. Both are singed and unusable.	Service Incident Completed	Corrective Maintenance	4/18/20	Completed
5/4/21	13981	PS Onan Trailer mounted generator	Replace wheels and tires	DW/ES/MA Set axles on jack stands to remove tires. Brought wheels and tires down to shop. Recommended replacement of wheels and tires. Had 4 tires mounted and balanced. Cleaned corrosion from hubs and dressed with antiseize. Installed on trailer. Torqued to 85ftlbs.	Corrective Maintenance	5/4/21	Completed
5/10/21	13982	39 - WW Sludge Treatment	Fabricate & install hose hanger for flushing line	Completed	Corrective Maintenance	5/10/21	Completed
5/10/21	13983	Operations Building	RST room floor drains leaking fluid.	DW/ ES/ JS Inspected RST room floor drain piping inside of garage. Multiple splits and pin holes in 4" DI pipe. Replaced with 4" schedule 40 PVC.	Corrective Maintenance	5/10/21	Completed
5/11/21	13986	RST Polymer feed pump	Pump discharge fitting failure	Isolated pump and removed fitting for inspection. Taper on old fitting didn't allow tube to flare out enough for lock washer to hold line in place. Cut fresh end on line, replaced washer, fitting and nut. Reassembled and returned to service.	Corrective Maintenance	5/11/21	Completed
5/12/21	13988	Operations Building	lighting deficiencied	change out several fixture ballasts and fluor bulbs. Classif room, garage, 2nd floor. Replace emerg light on 2nd floor by control room.	Corrective Maintenance	5/12/21	Completed
5/12/21	13987	Secondary Clarifier 1	motor failure	AV, DW, GlennF troubleshoot motor, found shorted due to moisture, as electrical wires going in through top, not sealed. Take motor off SC 2 to resume operations, redo necessary conduit and wiring. will reach out to contractor that did the installation.	Corrective Maintenance	5/12/21	Completed
5/16/21	13992	Bisulfite System	feed pump 2 low output	suspected low output, inspect carrier water, all connections, inj chk, and found worn pump peristaltic tube. replaced with new tube, and clean all connections.	Corrective Maintenance	5/16/21	Completed
5/17/21	13990	RST Polymer System	Regulator valve fails to control flow through dynablend.	Isolated dynablend mixer and disassembled regulator. Found orifice failed. Allowed pintle to pass through rather than seal. Made new orifice with 316 Stainless steel. Reassembled and verified function.	Corrective Maintenance	5/17/21	Completed
5/17/21	13991	RST Water Booster Pump	Failed discharge pressure gauge.	Isolated pump. Removed discharge pressure gauge. Installed new pressure gauge. Verified function.	Corrective Maintenance	5/17/21	Completed
5/19/21	13993	Secondary Clarifier 2 Drive System	Motor shorted to ground	Motor installed with conduit in 12 o'clock position instead of 6. Loose conduit fitting allowed water into motor causing a short to ground. Blanchard Electric serviced motor. Set coupling gap of 2mm. Mounted motor to reducer. Routed conduit to motor. Electrician onsite to wire up motor.	Corrective Maintenance	5/19/21	Completed

5/25/21	13995	Hypochlorite System	Broken isolation valve	Isolated hypo system valve. Opened bay door for ventilation. Rinsed off hypo from valve assembly and disassembled valve. Installed 1" colonial ball valve using old unions and new o-rings. Brought system back online. Cleaned out hypo from containment area. No leaks.	Corrective Maintenance	5/25/21	Completed
5/26/21	13996	Secondary Building	4" plug valve on WAS line failed open.	DW/JS Flushed out WAS line with plant water. Isolated pump and valves on either side of valve. Installed missing pipe support. Drained out system and disassembled hardware. Installed new valve and gaskets. Pressure tested line with plant water. Returned to service.	Corrective Maintenance	5/26/21	Completed
5/26/21	13997	Operations Building	Installed new lockers in changing area.	DW/JS Uninstalled coat rack and hung everything on wall hooks. Installed new lockers. Anchored to the walls. Did not install slope due to the amount of debris stacked on top of the shelf. Also slope needs to be cut down in order to be installed.	Corrective Maintenance	5/26/21	Completed
5/28/21	13999	Operations Building	Install upper portion of lockers.	Removed clothing from shelf above lockers. Uninstalled shelf. Uninstalled lockers. Cut down top plate to correct length. Assembled top portion and mounted onto lockers. Reinstalled lockers. Reanchored lockers to the wall. Installed boot rail on top.	Corrective Maintenance	5/28/21	Completed
5/28/21	13998	PS 9 Building	Drywell flood stuck in alarm	Verified issue. Replaced failed float. Verified proper operation.	Corrective Maintenance	5/28/21	Completed
5/4/21	13668	Blower Room Exhaust Fan 2	Monthly operational inspection	Service Incident Completed	Inspections	5/1/21	Completed
5/4/21	13666	Blower Room Exhaust Fan 1	Monthly inspection	Service Incident Completed	Inspections	5/1/21	Completed
5/4/21	13661	Blower Room Exhaust Fan 1	Monthly operational inspection	Service Incident Completed	Inspections	5/1/21	Completed
5/4/21	13660	Blower Room Exhaust Fan 1	Monthly operational inspection	Service Incident Completed	Inspections	4/1/21	Completed
5/4/21	13665	Blower Room Exhaust Fan 1	Monthly inspection	Service Incident Completed	Inspections	4/1/21	Completed
5/4/21	13667	Blower Room Exhaust Fan 2	Monthly operational inspection	Service Incident Completed	Inspections	4/1/21	Completed
5/4/21	13328	AST- Above Ground Storage tank for diesel fuel	Monthly Inspections of Tanks	Service Incident Completed	Inspections	3/1/21	Completed
5/4/21	12974	AST- Above Ground Storage tank for diesel fuel	Monthly Inspections of Tanks	Service Incident Completed	Inspections	1/1/21	Completed
5/4/21	12959	Universal waste area	Universal Waste Storage Area Inspection	Service Incident Completed	Inspections	1/12/21	Completed
5/4/21	12958	Waste Oil Storage	Waste Oil Area Inspection	Service Incident Completed	Inspections	1/12/21	Completed
5/4/21	12648	Waste Oil Storage	Waste Oil Area Inspection	Service Incident Completed	Inspections	11/10/20	Completed
5/4/21	12360	AST- Above Ground Storage tank for diesel fuel	Monthly Inspections of Tanks	Service Incident Completed	Inspections	9/1/20	Completed
5/4/21	12345	Waste Oil Storage	Waste Oil Area Inspection	Service Incident Completed	Inspections	9/8/20	Completed

5/4/21	11878	Waste Oil Storage	Waste Oil Area Inspection	Service Incident Completed	Inspections	6/9/20	Completed
5/11/21	13628	Truck 3 - 2015 Chevy 3500 HD	Monthly vehicle inspection on do-Forms	Annual Safety inspection of Boom / Hoist completed by dealership. Winch cable and front beacons were replaced. Passenger side back up light wiring issue corrected. Top of box on passenger side coated with non slip epoxy. Auxillary battery installed in rear passenger side compartment to resolve boom use issue.	Inspections	5/3/21	Completed
5/11/21	13512	Eyewash Stations	WWTF Eyewash Inspection - Weekly		Inspections	5/2/21	Completed
5/11/21	13513	Eyewash Stations	WWTF Eyewash Inspection - Weekly		Inspections	5/9/21	Completed
5/19/21	13619	Gravity Thickener Electrical Power Manhole	Inspect Gravity Thickener Electrical Manhole		Inspections	5/4/21	Completed
5/19/21	13618	Aeration Electrical Control Manhole	Inspect Aeration Electrical Control Manhole		Inspections	5/4/21	Completed
5/20/21	13994	Truck 2 - 2009 Chevy 2500 HD	Perform vehicle inspection	Inspected vehicle - See doFORMS report for full details.	Inspections	5/20/21	Completed
5/20/21	13628	Truck 3 - 2015 Chevy 3500 HD	Monthly vehicle inspection on do-Forms	Exercised crane check tire pressure fluids	Inspections	5/3/21	Completed
5/21/21	13514	Eyewash Stations	WWTF Eyewash Inspection - Weekly	No issues found.	Inspections	5/16/21	Completed
5/21/21	13973	Emergency Lighting & exit signs	Emergency Lighting Inspection - Monthly	No issues found.	Inspections	5/12/21	Completed
5/21/21	13617	Truck 2 - 2009 Chevy 2500 HD	Monthly vehicle inspection on do-Forms	No issues found. Vehicle cleaned and inspected.	Inspections	5/3/21	Completed
5/21/21	13606	Truck 1 - 2010 Dodge Ram 1500	Monthly vehicle inspection on do-Forms	State safety inspection completed.	Inspections	5/3/21	Completed
5/27/21	13379	Backflow Preventer - Generator Room	Backflow Preventor Testing (Generator Room) - Semi Annual	Weston Sampson tested back flow preventer	Inspections	4/14/21	Completed
5/27/21	13380	Backflow Preventer - HVAC Room Back Wall	Backflow Preventor Test (HVAC Room) - Semi Annual	Weston Sampson tested back flow preventer	Inspections	4/14/21	Completed
5/1/21	13627	Chlorine probe ATI	ATI, change membrane	Chg solution	Preventative Maintenance	5/1/21	Completed
5/1/21	13626	Chlorine probe ATI	Change electrolyte	Chg solution	Preventative Maintenance	5/1/21	Completed
5/1/21	13318	Chlorine probe ATI	Weekly calibration	Chk and chg solution.	Preventative Maintenance	3/29/21	Completed
5/1/21	13467	Chlorine probe ATI	Change electrolyte	Chg solution, inspect membrane ok. Recal later in shift	Preventative Maintenance	4/1/21	Completed
5/1/21	13466	Chlorine probe ATI	Weekly calibration	Close out, done 5/1	Preventative Maintenance	4/26/21	Completed
5/1/21	13465	Chlorine probe ATI	Weekly calibration	Cal chk and recall against lab unit	Preventative Maintenance	4/12/21	Completed
5/3/21	13643	Generators "All Pump Station"	Generator - Monthly Load Test	No issues found.	Preventative Maintenance	5/2/21	Completed
5/3/21	13607	PS Kholer Trailer Mounted Generator	Generator - Monthly Load Test	No issues found	Preventative Maintenance	5/2/21	Completed
5/4/21	13213	Generator #1- Emergency Kohler 750	Generator - Monthly Load Test		Preventative Maintenance	3/7/21	Completed
5/4/21	13375	Generator #1- Emergency Kohler 750	Generator - Monthly Load Test		Preventative Maintenance	4/4/21	Completed
5/4/21	13522	Generator #1- Emergency Kohler 750	Generator - Monthly Load Test	Checked all fluids. Brought up to operating temp and recorded all run data. No issues found.	Preventative Maintenance	5/2/21	Completed

5/4/21	13540	Secondary Clarifier 1	Clean Launder Screens - Quarterly		Preventative Maintenance	5/3/21	Completed
5/4/21	13541	Secondary Clarifier 2	Clean Launder Screens - Quarterly	No debris on launder screen.	Preventative Maintenance	5/3/21	Completed
5/4/21	13813	Wet Scrubber System	Clean and Calibration	Service Incident Completed	Preventative Maintenance	5/1/21	Completed
5/4/21	13815	pH meter	Clean and Calibrate	Service Incident Completed	Preventative Maintenance	5/1/21	Completed
5/4/21	13604	GasAlert Max XTII #1	4 gas meter calibration - monthly	Service Incident Completed	Preventative Maintenance	5/1/21	Completed
5/4/21	13827	ATI Wet Hydrogen Sulfide Monitor Intake	System maintenance	Service Incident Completed	Preventative Maintenance	5/1/21	Completed
5/4/21	13829	ATI Wet Hydrogen Sulfide Monitor Exhaust	System Maintenance	Service Incident Completed	Preventative Maintenance	5/1/21	Completed
5/4/21	13448	GODWIN Portable Pump	Test Run Godwin Pump-Monthly	Service Incident Completed	Preventative Maintenance	4/7/21	Completed
5/4/21	13475	Recirculation pump #1	Monthly Check Pump Couplings	Service Incident Completed	Preventative Maintenance	4/7/21	Completed
5/4/21	12963	Chlorine probe ATI	Change electrolyte	Service Incident Completed	Preventative Maintenance	1/1/21	Completed
5/4/21	12961	Chlorine probe ATI	Weekly calibration	Service Incident Completed	Preventative Maintenance	1/4/21	Completed
5/4/21	12103	Aeration Blower 1	Aeration Blower #1 Oil Analysis - Semi Annual	Service Incident Completed	Preventative Maintenance	8/25/20	Completed
5/7/21	13631	High level floats	Weekly High Float Alarm test		Preventative Maintenance	5/2/21	Completed
5/10/21	13552	RST Feed Pump 1	Monthly Check Pump Couplings		Preventative Maintenance	5/5/21	Completed
5/11/21	13511	Portable Generator - Honda	Portable Generator Inspection - Monthly		Preventative Maintenance	5/5/21	Completed
5/12/21	13527	Influent Sluice Isolation Gate	Weekly operate through full range	Exercised influent gate. Tight spots between 75 to 72 steps and 42 to 37 steps while closing. Verified alarm function.	Preventative Maintenance	5/5/21	Completed
5/18/21	13624	Chlorine probe ATI	Weekly calibration	Close out, done by lab	Preventative Maintenance	5/10/21	Completed
5/19/21	13630	Mechanical Screen	Power wash entire unit to clear all accumulated material		Preventative Maintenance	5/3/21	Completed
5/19/21	13532	Mechanical Screen & Washpress System	Monthly Maintenance		Preventative Maintenance	5/3/21	Completed
5/19/21	13531	Mechanical Screen & Washpress System	Screen & Wash press - Semi annual maintenance		Preventative Maintenance	5/3/21	Completed
5/19/21	13644	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Preventative Maintenance	5/2/21	Completed
5/19/21	13633	High level floats	Weekly High Float Alarm test		Preventative Maintenance	5/16/21	Completed
5/19/21	13646	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Preventative Maintenance	5/16/21	Completed
5/19/21	13632	High level floats	Weekly High Float Alarm test		Preventative Maintenance	5/9/21	Completed
5/19/21	13645	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Preventative Maintenance	5/9/21	Completed
5/20/21	13557	Sludge Transfer Pump 2	Monthly Check Pump Couplings	No issues found.	Preventative Maintenance	5/5/21	Completed
5/21/21	13556	Sludge Transfer Pump 1	Monthly Check Pump Couplings	Still out of service and disassembled.	Preventative Maintenance	5/5/21	Completed
5/21/21	13553	RST Feed Pump 2	Monthly Check Pump Couplings	No issues found.	Preventative Maintenance	5/5/21	Completed
5/21/21	13554	Primary Sludge Pump 1	Monthly Check Pump Couplings	New pump on-site. Scheduling installation.	Preventative Maintenance	5/5/21	Completed
5/25/21	13053	Aeration Blower 2	Aeration Blower #2 Oil Change - Semi Annual	LOTO of equipment. Drained oil and replaced with new.	Preventative Maintenance	2/23/21	Completed

5/25/21	13550	RAS Pump 3	RAS Pump #3 PM - Quarterly	LOTO of equipment. Exercised valves, inspected hubs, coupling, and greased all bearings.	Preventative Maintenance	5/5/21	Completed
5/25/21	13549	RAS Pump 2	RAS Pump #2 PM - Quarterly	Exercised all valves. Inspected hubs, coupling, seals and greased all bearings. Coupling is showing wear.	Preventative Maintenance	5/5/21	Completed
5/25/21	13546	RAS Pump 1	RAS Pump #1 PM - Quarterly	Exercised all valves. Inspected hubs, coupling, seals and greased all bearings. Coupling is showing wear.	Preventative Maintenance	5/5/21	Completed
5/26/21	13538	Aeration Blower 1	Aeration Blower #1 Air Filter Inspection - monthly		Preventative Maintenance	5/25/21	Completed
5/26/21	13551	RAS Pump 3	Monthly Check Pump Couplings		Preventative Maintenance	5/5/21	Completed
5/26/21	13548	RAS Pump 2	Monthly Check Pump Couplings		Preventative Maintenance	5/5/21	Completed
5/26/21	13547	RAS Pump 1	Monthly Check Pump Couplings		Preventative Maintenance	5/5/21	Completed
5/26/21	13528	Influent Sluice Isolation Gate	Weekly operate through full range		Preventative Maintenance	5/12/21	Completed
5/26/21	13529	Influent Sluice Isolation Gate	Weekly operate through full range		Preventative Maintenance	5/19/21	Completed
5/27/21	13381	Backflow Preventer - HVAC Room Boiler Makeup Feed	Backflow Preventor Test (HVAC Room Boiler) - Semi Annual	Weston Sampson tested back flow preventer	Preventative Maintenance	4/14/21	Completed
5/27/21	13539	Aeration Blower 2	Aeration Blower #2 Air Filter Inspection - Monthly		Preventative Maintenance	5/27/21	Completed

Date	Asset ID	Asset Description	Asset Class	Name	Workflow Class	View
5/19/2021 13:12	06-052	14 GALLOPS HILL RD	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/26/2021 8:25	09-055	18 PT ALLERTON AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/26/2021 14:14	09-055	18 PT ALLERTON AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/26/2021 14:16	09-058	14 PT ALLERTON AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/25/2021 14:03	09-094	12 PT ALLERTON AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/22/2021 11:23	1 Worrick Rd	1 Worrick Rd Grinder Pump	Hull Grinder Pumps	Sutton, Eric	Hull - Grinder Pump Maintenance	View
5/7/2021 14:17	10-006	0 PT ALLERTON AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/26/2021 14:10	10-022	22 PT ALLERTON AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/26/2021 14:05	10-036	46 PT ALLERTON AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/26/2021 14:08	10-037	44 PT ALLERTON AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/26/2021 14:06	10-041	36 PT ALLERTON AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/26/2021 8:13	10-052	65 HOLBROOK AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/26/2021 14:01	10-052	65 HOLBROOK AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/26/2021 10:29	10-070	53 BEACON RD	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/25/2021 13:37	10-093	59 BEACON RD	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/26/2021 13:58	10-103	64 HOLBROOK AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/26/2021 8:05	12-010	12 BEACON RD	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/26/2021 8:03	12-011	1 BRADFORD AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/26/2021 10:23	12-054	36 BEACON RD	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/25/2021 13:27	12-054-A	38 BEACON RD	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/7/2021 13:49	13-147	791 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/11/2021 14:58	14-090	3 M STREET	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/7/2021 13:55	15-025	49 J STREET	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/7/2021 13:53	15-037	35 K STREET	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/12/2021 13:49	16-008	20 SUNSET AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/17/2021 13:38	16-037	49 CENTRAL AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/19/2021 13:39	16-129	11 C STREET	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/19/2021 13:32	17-136	62 F STREET	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/4/2021 8:06	17-182	233 BEACH AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/14/2021 11:19	19-041	76 A STREET	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/4/2021 8:18	19-119	179 C SAMOSET AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/7/2021 14:01	22-155	75 BROOKLINE AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/7/2021 14:03	23-114	145 KENBERMA ST	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/7/2021 13:59	23-133	90 B MANOMET AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View

5/19/2021 14:04	23-154	147 KENBERMA ST	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/7/2021 14:07	24-033	79 KENBERMA ST	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/19/2021 14:12	25-084	53 BEACH AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/26/2021 9:17	26-034	58 BATES ST	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/12/2021 13:16	27-014	11 MANOMET AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/11/2021 14:30	29-103	10 SECOND ST	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/17/2021 13:05	32-021	276 NANTASKET RD	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/26/2021 9:06	32-053	94 CLIFTON AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/7/2021 14:09	35-070	26 ROOSEVELT AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/12/2021 17:30	36 Barnstable St	36 Barnstable St Grinder Pump	Hull Grinder Pumps	Sutton, Eric	Hull - Grinder Pump Maintenance	View
5/19/2021 8:20	39-003	97 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/7/2021 14:11	39-900	121 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/27/2021 12:31	48-002	288 ATLANTIC AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/20/2021 13:22	49-041	261 ATLANTIC AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/20/2021 13:24	49-090	253 ATLANTIC AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/20/2021 13:27	51-024	0 ATLANTIC AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/20/2021 13:29	51-028	208 ATLANTIC AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/20/2021 13:19	52-030	21 GUN ROCK AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/20/2021 13:19	52-034	39 GUN ROCK AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/20/2021 13:16	52-060	4 GUN ROCK AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/20/2021 13:17	52-062	6 GUN ROCK AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/20/2021 13:35	53-003	93 ATLANTIC AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/20/2021 13:34	53-015	119 ATLANTIC AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/20/2021 13:32	53-017	123 ATLANTIC AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/27/2021 12:30	53-041	114 A ATLANTIC AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/20/2021 13:36	54-040	0 ATLANTIC AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/7/2021 14:20	56-012-B	60 HARBOR VIEW RD	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/20/2021 13:38	56-038	0 FARINA ROAD	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/20/2021 13:41	56-046	17 FARINA ROAD	Hull Parcels	Sutton, Eric	Hull - Markout	View
5/28/2021 9:00	9 Quanset St	9 Quanset St Grinder Pump	Hull Grinder Pumps	Sutton, Eric	Hull - Grinder Pump Maintenance	View
5/19/2021 8:36	Bacteria UNIT #21	UNIT #21	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/27/2021 12:32	Bacteria UNIT #21	UNIT #21	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:45	Bacteria UNIT #22	UNIT #22	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:30	Bateria UNIT # 8	UNIT # 8	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:24	Bateria UNIT #1	UNIT #1	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View

5/19/2021 8:31	Bateria UNIT #10	UNIT #10	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:34	Bateria UNIT #11	UNIT #11	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:40	Bateria UNIT #12	UNIT #12	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:39	Bateria UNIT #13	UNIT #13	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:38	Bateria UNIT #14	UNIT #14	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:38	Bateria UNIT #15	UNIT #15	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:34	Bateria UNIT #16	UNIT #16	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:31	Bateria UNIT #17	UNIT #17	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:32	Bateria UNIT #18	UNIT #18	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:33	Bateria UNIT #19	UNIT #19	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:24	Bateria UNIT #2	UNIT #2	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:35	Bateria UNIT #20	UNIT #20	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:42	Bateria UNIT #23	UNIT #23	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:25	Bateria UNIT #24	UNIT #24	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:32	Bateria UNIT #3	UNIT #3	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/27/2021 12:33	Bateria UNIT #3	UNIT #3	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:26	Bateria UNIT #4	UNIT #4	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/27/2021 12:35	Bateria UNIT #4	UNIT #4	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:28	Bateria UNIT #5	UNIT #5	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:27	Bateria UNIT #6	UNIT #6	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:29	Bateria UNIT #7	UNIT #7	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/19/2021 8:46	Bateria UNIT #9	UNIT #9	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
5/14/2021 14:21	MH-20127-1 - *INACTIVE*	MH-20127-1 - *INACTIVE*	Sanitary Manhole	Sutton, Eric	MH Frame & Cover Inspection	View
5/14/2021 14:10	MH-20138-1 - *INACTIVE*	MH-20138-1 - *INACTIVE*	Sanitary Manhole	Sutton, Eric	MH Frame & Cover Inspection	View
5/17/2021 13:00	MH-20147-1 - *INACTIVE*	MH-20147-1 - *INACTIVE*	Sanitary Manhole	Sutton, Eric	MH Frame & Cover Inspection	View
5/27/2021 12:40	MH-20355	SEMS_Asset	Sanitary Manhole	Sutton, Eric	MH Frame & Cover Inspection	View
5/17/2021 15:32	MH-20490	SEMS_Asset	Sanitary Manhole	Sutton, Eric	MH Frame & Cover Inspection	View

Asset Management Accounts - Year 6							
		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	\$32,413.47	\$180,615.26	\$0.00	\$32,413.47	\$180,615.26
07M-102B	Capital and Major Repairs	\$140,000.00	\$15,217.98	\$124,782.02	\$0.00	\$15,217.98	\$124,782.02
07M-103A	Major Sub Contractors	\$180,465.81	\$38,004.55	\$142,461.26	\$0.00	\$38,004.55	\$142,461.26
blank					\$0.00		
	Asset Management	\$533,494.54	\$85,636.00	\$447,858.54	\$0.00	\$85,636.00	\$447,858.54

\$447,858.54

Budget expended	Time Status	
	NOW=	8/10/2021
	Start	5/1/2020
15.2%	127.7%	112.5%
10.9%	127.7%	116.9%
21.1%	127.7%	106.7%
16.1%	127.7%	111.7%

07S	D Street	\$7,500.00	\$0.00	\$7,500.00	\$0.00	\$0.00	\$7,500.00
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0.0%	127.7%	127.7%
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07C	Odor Control Chemicals	\$100,000.00	\$11,436.00	\$88,564.00	\$0.00	\$11,436.00	\$88,564.00
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11.4%	127.7%	116.3%
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Estimated total
remaining 07M,
07C, 07S

\$543,922.54

Asset Management Accounts - Year 6							
		Actual to date			Projected for Final Estimate		
Account		Budgeted Amount	Spent to Date	Delta	Projected costs and incl PO's	Final est	Delta
06M-101A	Preventive Maint	\$210,555.68	\$154,019.53	\$56,536.15	\$0.00	\$154,019.53	\$56,536.15
06M-102B	Capital and Major Repairs	\$140,000.00	\$128,236.71	\$11,763.29	\$75,903.00	\$204,139.71	(\$64,139.71)
06M-103A	Major Sub Contractors	\$178,370.75	\$180,880.29	(\$2,509.54)	\$0.00	\$180,880.29	(\$2,509.54)
blank					\$0.00		
	Asset Management	\$528,926.43	\$463,136.53	\$65,789.90	\$75,903.00	\$539,039.53	(\$10,113.10)

Remaining funds for anticipated radio costs	\$65,789.90
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06S	D Street	\$7,500.00	\$4,942.06	\$2,557.94	\$0.00	\$4,942.06	\$2,557.94
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06C	Odor Control Chemicals	\$100,000.00	\$95,614.80	\$4,385.20	\$0.00	\$95,614.80	\$4,385.20
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Estimated total remaining 06M & 06C	(\$5,727.90)
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Hull 2019 - 06M Projects, Tasks, and Needs - 05-06-2020 (AV)

Maintenance Account - Year 6 - 05_01_20 to 04_30_21

updates/comments 7/14/21

\$75,903.00

7/27/2021 10:20

Priority	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
2	General mechanical and electrical items/supplies	completed		101A				Grainger, FWWWebb, EJP, Hoadley, McMasterCarr, etc; orig budget \$18,000. Adj 9/9/20; adj 10/15; adj 10/29; adj 1/6/21; adj made 1/28; adj made 3/17; adj made 4/6 - budget to zero
2	IR Survey or Vibration Analysis Survey	completed		101A				Annual - 2 to 3 Days - Aeration System Blowers, Pump Station Pumps, etc./tbd; possibly Paul H from W&C; adj budget to \$2000 1/6/21. Could be 3-4 days of work \$4000; May happen in 07M??Reviewed and EESCO would be the contractor of choice. PO# 102815 - \$5550; On site for work 7/12 & 7/13
2	Valves	completed		101A				Replacements and/or Service - On-Going - As Needed; Placeholder - Cut planned budget to 2k 10/15; 4-inch valves ordered. May be some additional valves needed for PS 4; adj for plug valves received in Feb/Mar.
2	Hoses	completed		101A				Replacements and/or Service - On-Going - As Needed; Purchased three 6-inch hoses for the RAS bypass. [\$1800]; orig buget \$3000; addit 6" discharge hoses purchased Dec 2020
2	Sump Pumps	completed		101A				Replacements and/or Service - On-Going - As Needed - Cut budget from 1200 to \$600 11/17; adj 1/6/21 to zero; Purchasing as needed.
2	Install 6" or 8" drop pipes in secondary clarifier #1 and #2 OR 8-inch drop pipe for infl manhole	completed		101A				Targeted budget \$2,000 - In-house staff to fabricate, ? go to 8" pipe? if needed??On hold, since effl MH work will have a standpipe for bypass pumping. Retarget \$\$ for infl MH 8-inch drop pipe, ordered 3/4/21; PO 103621 is in the checkbook. \$1,300; requested quote for effluent dischg pipe [estim \$6,421]
2	Effluent pump room pump bracket testing	Completed		101A				by Lightship Group - completed Aug 2020. On purchase order cost \$950]
2		Pending		101A				
2	Misc. Materials	completed		101A				Hardware Store - \$200.00 per month - reoccurring expense; orig budget \$2,400; adj to \$1,000 on 11/17; adj 1/6/21; adj 1/28; adj 3/17
2		Pending		101A				
2	PS 1 impellers/flow	Pending		101A				look at increasing size of impellers, after Gunrock work completed; on hold due to area low flows [\$5,000]
2	Lift Station A	Pending		101A				Pump efficiency lower than desired - new pump or impeller & mech seal
2		Pending		101A				
3	Install new aeration channel angle iron for a slide gate	Pending		101A				Jody S to install - 2 days, if we do \$2,500 estimate, or push to Engin project
3	Install a flow meter on the generator cooling water system - plant water	Pending		101A				Have an estimate [Oct 2018]; possible after 5/1/20
3	Lockers for the staff - Install	completed		101A				Additional lockers ordered to replace those removed years ago; pending delivery, delivered June 2021
3	Purchase (1) spare Euro drives for the RST drum drive	Completed		101A				spare part item now in stock [\$800]
3	Purchase an LMI pump for the RST	Completed		101A				spare part item now in stock [\$1700]
2 of 63 7/27/2021	Purchase an equipment lift or gantry	Pending		101A	2020_05_01_06M_Checkbook_YTD			planned cost \$2,500 for moving elec hoists around, & other equip; delete item for now 6/18/21

6/18/21

Hull 2019 - 06M Projects, Tasks, and Needs - 05-06-2020 (AV)

Maintenance Account - Year 6 - 05_01_20 to 04_30_21

updates/comments 7/14/21

\$75,903.00

7/27/2021 10:20

Priority	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
	Purchase Dehumidifiers for pump stations LS A & PS 4, PS 5, PS 6	Pending		101A				\$4,000 - orig budget for 4 pump stations - A,4,5,6; delete budget to zero on 4/6;
		Pending		101A				
	Lab Equip Calibration	completed		101A				Annual service \$600- usually Jan/Feb. Last done April 2020. Will be May 2021 service
		Pending		101A				
	Mech seal[s] for RAS pumps 1 & 2	Pending		101A				Orig budget \$2,000 - for RAS pumps 1 & 2 - pending , but will need to do. Could defer to 07M; Adj to zero on 5/3
		Pending		101A				
	Vaughan chopper pumps - new pump ends for PSL & WAS	completed		102B				Had Rep in late Feb 2021 to look at all chopper pumps and will provide updated quotes for parts needed. \$\$ TBD. Recommending pump replacement for PSL pump #1; PO issued for \$15,950, completed July 2021
	Purchase Two 6" valves for PS 4	Completed		101A				Estim cost \$1450; Invoice paid.
	Springs for check valves	Completed		101A				Original budget \$400; Purchased
1	Tecta Roof Repairs - proposed per 2020 inspection	completed		102B				Estim: \$7,620.00 - TBD when work to be scheduled; will be in 2020 06M. 4/12 - Pending report for 2021 ; with report and additional items 4/28 - total adj up to 24,870.00; on a PO 4/29, completed June 2021
1	(GT) Steel rake mechanism inspection and needed repairs	completed						to be completed by NEPV under critical spares bond account. Completed at end of November.
1	(SC#1) Steel rake mechanism inspection and needed repairs	Completed						completed by Lydon under critical spares bond account.
1	(SC#2) Steel rake mechanism inspection and needed repairs	Completed						completed by Lydon under critical spares bond account.
1	Pri D-Box repairs	Pending		102B				possibly by D&C Construction as part of structural repair project. Estim \$15,000.
1	Replace scrubber recirc pump	completed		102B		\$2,410.80		spare pump ordered & received October 2020, bill pd Nov2020.
1	Sludge transfer pump #1 rebuild	completed		102B				Estim - parts - \$5,000 and rebuild pump needed. Still on target for rebuild 3/4 update. 3/4/21: Update: Unit sent out for evaluation. Revised quote & repairable. Ok'd for repair - 4/9/21
1	Dynablend System is obsolete - mixing valve worn - need in kind or like system	completed		102B				May or may not proceed with replacement, since unit still functioning, and polymer addition point changed and yielding good results. Shutting down in December 2020. Cost \$12,000 might be held off. Took off list 3/24/21. Put mixing chamber estimate back on list 3/29 - \$5,717.10
2	grit classifier spare parts	Pending		102B				based on limited spare parts currently. Yet to be ordered [11/17]On hold pending grit screw operability 3/17; On hold 4/6; remove from planned budget 4/12 [\$3,600]
2	Pump Station Ladders	Pending		102B				We are complete except for PS #9; nothing further planned for PS 9, since new pump station planned.
2	Sanitaire hardware purchase for aer tk 1	Completed		102B		\$3,054.03		Purchased July 2020

Hull 2019 - 06M Projects, Tasks, and Needs - 05-06-2020 (AV)

Maintenance Account - Year 6 - 05_01_20 to 04_30_21

updates/comments 7/14/21

\$76,903.00

7/27/2021 10:20

Priority	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
2	Replace 6" potable water valve in basement and misc. valves	Pending		102B				While doing project check/replace 1 1/4 valves as needed - Requires a water shutdown, may hold until after 5/1/20; orig planned cost \$3,000.
2	Install (4-5) additional yard hydrants	completed		102B		\$10,563.64		original budget \$12,000 - hydrants already purchased, and materials & contractor installation [2 days]; 1st day completed Aug 2020 - \$5194.88. Second day planned early October - \$5,368.76. 3 replacements planned. Completed 10/27; Need to roll up final costs. Hydrants and paving Nov2020.
	Remaining yard paving - plant - WAS/PSL and by fuel tank	completed		102B		\$4,362.77		For plant work
2	PS 4 valves, check valves - installation	On Going		102B				Placeholder - After structural work, replace. Valves and check valves. May be a changeorder for D&C Constr.[\$4,000] Also 1 day for pump & hauling 2 trucks [\$3200]; More \$\$ will be needed here, due to scope changes. On hold 3/17; latest D&C estimate \$18,000; deleted 7,500 budgeted 4/6
3		Pending		102B				
3	Influent Distribution Box - Aerate Primary/Influent D-Box/Overflow Project	Pending		102B				Contracted Project - need State Approval - Facility/Process modification. Facilities Plan possible modification
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.
1	Jerome meter replacement	Pending		102B				replace unit, if done \$11,000
	Rotating Sludge Thickener - Thickened Sludge Pump - rotor/stator	Completed		101A				purchased spare stator approx cost \$900.
	D'Alessandro - WAS line replacement & gate valve	Completed		102B		\$16,018.78		Work Authorization submitted 10/14/20; paid Nov2020.
	GT sandblasting/painting	Pending		102B				Estimate \$45,000 - would need to go out for competitive bid request
	Lydon Labor - March & April	completed		103A		\$5,366.18		Sec WAS piping [1 day], Grit screw [2 days] if feasible to repair. [3 person crew] \$3400/day; pending invoices 4/6
	Truax \$\$ unspent	On Going		101A				Adjusted with latest Truax bill 4/28 \$1,910; zero'd out 7/14/21
	Electrical LS A hook up	completed		102B		\$1,182.28		estimate look at 2 options - going with option one for new hook up only; early October planned. Completed Nov2020. Bill to be paid.
1	Electrical Work	On Going		103A				Electricians: Glen Fellows, HiVoltage, other; remv old blowers/lighting, sec bldg elec outlets - \$2,000/month; orig budget \$25,000; adj YTD - funds left; adj 9/30; Adj 10/15/20; adj 11/17/20; adj 1/6/21; clear remaining budget.
1	SCADA Work	On Going		103A				Steve Rose and the SCADA Support Team; orig budget \$25,000; reduce by \$6K on 9/9/20; adj 1/28; clear this budget, and costs will post as they are incurred. [1/28]
1	E-One Repairs and Replacement	completed		103A				Based on historical costs. E1 repairs where cost-effective & new replacement pumps, control panels, other equip; Orig budget \$25,000; adj made 1/6/21; adj made 1/28; adj 3/17 - reduce budget to zero, with recent purchases/repairs. Remaining parts/repairs 4/12/21;
1	Annual Generator inspection	completed		103A		\$4,900.00		Annual - Highland Power/ME Electrical Power - Generator PM/Service work - due in November, Early Dec target completion. Completed.
4 of 61	7/27/2021 Automatic Transfer Switch inspection and servicing	Pending		103A	2020_05_01_06M_Checkbook_YTD			\$2400 - Annual Service planned for April Highland Power - NETS - Transfer Switch; paid of Gen Svc PO.

06M Planned Costs

Hull 2019 - 06M Projects, Tasks, and Needs - 05-06-2020 (AV)

Maintenance Account - Year 6 - 05_01_20 to 04_30_21

updates/comments 7/14/21

\$75,903.00

7/27/2021 10:20

Priority	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
1	Wetwell Inspections and Cleaning - Pump Stations	On Going		103A				As required, plant or pump stations; orig budget \$10,000; reduce to zero on 9/9
1	Wetwell Inspection and Cleaning- Plant	On Going		103A				
1	Sewer Line Cleaning - Emergencies	On Going		103A				Placeholder - As required for various sub-contractors; could be Hoadley, Truax, WindRiver, BMC, or other, collection system & plant; orig budget \$10,000 ; YTD already over \$10k.
1	Collection System - emerg & unplanned calls - Jetting & CCTV work	On Going		103A				Budget - orig \$20,000; reduce it to \$10,000; adj down \$3,100 1/28; Use of Hoadley Vector truck through early march 2021. Adj 3/17; adj for 4/1 work
1	Collection System - Jetting Work & CCTV Truax \$35,000	On Going		103A				up to 35K - roadway proj work related - TBD for contractor [Truax] PO was issued. 11/25 - no work completed to date. Requested by HSD.
1	Aer tank repairs [labor]	Completed		103A				2 days - millwrights - Lydon \$3800
1	Pump Station communication - changover to radio - phase 1	On Going		102B	\$65,903.00			Equipment purchase to come from 06M/07M on the Critical Spare List; based on latest quote from Doug Tirrel. Updated 2021. 4/27: [\$74,602-\$7825.25 = \$66,776.75]; updated for postings on cost detail related to radio purchase [7/27/21]
1	Pump Station communication - changover to radio - phase 2	On Going		102B				Equipment purchase to come from 06M/07M on the Critical Spare List; based on latest quote from Doug Tirrel. Updated memo Nov 2017
1	Pump Station communication - changover to radio - phase 3	On Going		102B				Equipment purchase to come from 06M/07M on the Critical Spare List; based on latest quote from Doug Tirrel. Updated memo Nov 2017
1	Pump Station communication - changover to radio - phase 4	On Going		102B				Equipment purchase to come from 06M/07M on the Critical Spare List; based on latest quote from Doug Tirrel. Updated memo Nov 2017
2	Pump Station Communication - electrical contractor services	On Going		102B	\$10,000.00			Electrician costs - install antennae, and related components to allow for SCADA tie in.
2	Regen Aeration System - Pump Station #5	Pending		103A				Orig est \$1,500 -Tie into the SCADA system - Glen Fellows; may wait until after 5/1/20; on hold.
2	cancel Dehumidifiers at four pstat - install new EFF flow meter	completed		103A		\$2,066.48		Orig budget approx 2K per station - PS A, 4, 5 & 6 - if done. Extra elec cost for new eff mag meter install incl here [added 3/29/21] Dehum on hold for 06M [4/12/21]
2	SHT1 - demo of equip, air piping & diffuser install/materials	Pending		103A				In-house O&M project and staff labor \$10,000, demo of tank equip \$5,000; air piping \$10,000; materials \$5,000 - rough estimate - future needs. Removing these \$30K [3/24/21]
2	Generators - Load Bank Testing Pump Stations	completed		103A		\$6,300.00		Look at under 06M - PS#1, PS#3, PS#4, PS#5, PS#6, and PS#9]Looking to do spring 2021. 2 units/day. \$6300 Completed June 2021
	Ted Berry - RAS line repairs	completed		102B		\$9,950.00		PO issued for anticipated repairs in mid-December; work completed, waiting for final bill
	Lydon Mech work - screenings box and Sec Bldg wye	completed		103A				Work completed - October 2020 - \$3,439.98 & \$2,767.28
	CPE - ABBA RAS pump rotating assembly	completed		102B				proposed cost \$8858 - on a purchase order.
	Generators - Load Bank Testing at plant	completed		103A		\$4,800.00		Gen #1 and #1 - last done 4 years ago - \$4800; Completed
	Highland Power/MSElectric&Power - Servicing the heat exchangers, fuel filters, etc	completed		103A		\$4,550.00		Per proposal \$4,550.00, Completed
	Front building window repairs	Pending		101A				To be done under Engin project
5 of 61 7/27/2021	Low pressure sewer valve box insp & mtce	Pending		103A	2020_05_01_06M_Checkbook_YTD			placeholder for contractor O&M inspections and potential repairs; Looking at Rosang Davis or another contractor & W&C to investigate; remove placeholder budget of \$7,500 on 1/28

Hull 2019 - 06M Projects, Tasks, and Needs - 05-06-2020 (AV)

Maintenance Account - Year 6 - 05_01_20 to 04_30_21

updates/comments 7/14/21

\$75,903.00

7/27/2021 10:20

Priority	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
1	Aeration Tank #3 - Installation of new diffusers and piping grid	Pending		102B				\$50,000 Placeholder cost in the event needed
	LS A pumps - Repairs to P2 by Industrial Pump	On Going		101A				Placeholder - 4/12 - Evaluating cost for pump repair while replacement costs for parts or new pumps are looked at.
	LS A P2 suction valve replacement	Pending		101A				Vac truck, or pump truck & Jody S. 1 day
	Deragger PS3	On Going		102B				2 units - for installation at PS 3; PO# 102752; electrician will be additional
1	Garage back side overhead door replacement	completed		102B				Solicited estimates for replacement [estimate if approved] Overhead Door, Collins Door, on a PO Completed
TOTAL					\$75,903.00			

Hull 2019 - 06M Projects, Tasks, and Needs - 05-06-2020 (AV)

Maintenance Account - Year 6 - 05_01_20 to 04_30_21

updates/comments 7/14/21

\$75,903.00

7/27/2021 10:20

Priority	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
1	Mechanical Work Labor by O&M specialists	completed		101A				Jody St. George, and WC Support Staff - estim \$3000/month; Total budget \$36,000; incl annual scrubber cleaning, remove old blowers [mech]; Adj made 9/9/20; adj 10/15; adj 11/25; Adj 1/6/21; Adj 1/28/21; adj 3/17/21, adj 4/6/21; adj 4/12
1	Pump and Motor Repairs [invoiced and pcard]	completed		101A				to keep existing equipment running - utilize various outside contractor repair shops, new purchases. Duperon motor, RST eurodrives, orig budget \$20,000; adj 10/15; RAS motor rewinding, influent motor rewind. Adj remaining \$5 10/29; Infl Pump #2 repairs - pending impeller repair & motor rewind [11/17]; Adj 11/25; adj 1/6/21; adj made 3/17; adj made 4/12; adj made 4/19; adj 5/3/21 to zero
1	Lubricants	completed		101A				Various Suppliers for oil and grease. Budgeted \$3500; adj 11/17; adj to \$1,500 1/28; Adj 3/3. Ordered additional lubricants March 2021.
1	Generator Repairs	completed		101A		\$2,760.80		General Repair Work - Original Placeholder \$3,000- PS4- \$2,800 & other; to date cost noted
1	Fire Alarm Inspections and Service	completed		101A				Semi Annual - Hart Security [October & April , central station, & Service]Orig budget \$3000, as of 11/17 \$1,500 pd.; adj 11/25; Planned April 2021 \$650
1	Universal waste disposal	Pending		101A				Placeholder - \$500; zero the budget, will incur if needed
1		Pending		101A				
1	Service the Forklift	completed		101A				\$400 - Annual cost - outside vendor; work completed. Waiting for report and invoice. 11/17 service completed.
1	Overhead Hoist Inspection	completed		101A				Annual task - Applied Dynamics - PO is issued for April, PO# 102708; Completed
1	Flow meter verification and calibration	Pending		101A				Annual - Ray Ferland 1 visit annually Aug/Sept. On hold as new effluent flow meter set to be installed April 2021 [orig budget \$1,000
1	Facility Building - Roof Inspection	completed		101A				\$2800 Annual Placeholder - Established contract with Tecta America [Visit #3] Bill to be paid late March. Report pending
1	Pump Station #9 - Repairs Immediate	pending		101A				New valve, new check valve, replace pump assembly - Jody St. G. to assist; items rec'd [used up approx 50% of orig 4,000]; pending to be used if needed.
1	Jerome H2S Meter Inspection	Pending		101A				\$1100 Placeholder for Annual Inspection - sent out includes annual service \$1100; 4/6 - may defer to 07M
1		Pending		101A				
1	butterfly valves for PW pumps 4 valves	completed		101A				purchase and install - expect November installation [staff & O&M] 11/17 - completed November 2020.
1	Hoisting platform ladder for the AST	Completed		101A				Completed, purchased for use with screenings box - \$600.00
1	Weather Station	completed		101A				Installed by Glenn F, June 2020, programming by SCADA group
1	Janitorial Supplies	completed		101A				Estimated annual expenditures - Orig budget \$4,000; adj 4 months - 9/9; adj 10/15; adj 1/6/21; adj 1/28; Adj budget to zero 3/24/21
1	Backflow device testing	Pending		101A				done by, 3rd party - orig budget \$400
1	Manhole Inspections	Pending		101A				As required, and/or scheduled