



HULL WATER POLLUTION CONTROL FACILITY

February
2021

1	Executive Summary	3
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	Flows and Loadings	2
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MONTHLY OPERATING REPORT



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

NPDES NO. MA0101231

2.1	Average effluent monthly flows – 2+ year comparison.....	5
2.2	Monthly Summary of Rainfall and the Influence on Effluent Flows	6
3	Compliance	8
4	Key Performance Indicators	15
4.1	Water Quality – february 2021	15
5	Odor Control.....	18
6	Maintenance Summary.....	21
6.1	Tasks Completed this Month	21
6.2	Asset Management Accounts.....	26
7	Safety	27
8	Staff Development	28
9	Collection System.....	29
9.1	Wet Well Cleaning.....	29
9.2	Collection System Maintenance	29
10	Project Management & Administration	33
10.1	On-Going Projects and Support Items	33

Cover pictures:

[top] Ocean Ave flooding after winter storm. Pump and hose set up

[bottom] Pumping of floodwater from Ocean Ave area using 6-inch portable pump

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 February 2021.

- No lost-time incidents for the month of February.
- 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 February [details on page (12).] All effluent samples collected were compliant. The average daily flow for the month was 1.55 MGD. A total of 5.54 inches of rainfall was recorded. Process conditions were and compliant.
- There was one Sanitary System Overflow [SSO] reported for a blocked/collapsed sewer on Meade Ave.
- Several days in February, where the winter weather was variable with high winds & surf, and snow that caused for ice and slippery conditions. High tides and wind caused for ocean surge early in the month. Wet weather planning was in place with the necessary changes.
- A winter storm impacted the area from 1/31/21-2/3/21. Plant flows into the facility peaked at 7.5MG for a short time on 2/2/21. Plant preparedness planning for high flows and possible power loss.
- Helped as requested in the Ocean Ave area that was flooded out by a winter storm early in the month. [Pumps and hoses and set up] Feb 2nd through February 6th.
- The plant and collection system odors remained low due to low sewage temperatures The Bioxide system was off for most of the month or on at low feed rates during the month.
- The 06M Asset Management Accounts checkbook summary and planned expenses updated for contract year #6 are attached. Latest revision date: 4/19/21
- There were 2 grinder pump call outs during the month of February with one pump replacement.
- W&C O&M continued to support the Engineering projects – ongoing HW punch list items, pump station punch list items assistance, with multiple visits to pump stations, PS9, PS5 and effluent gate & planned plant engineering upgrade.

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

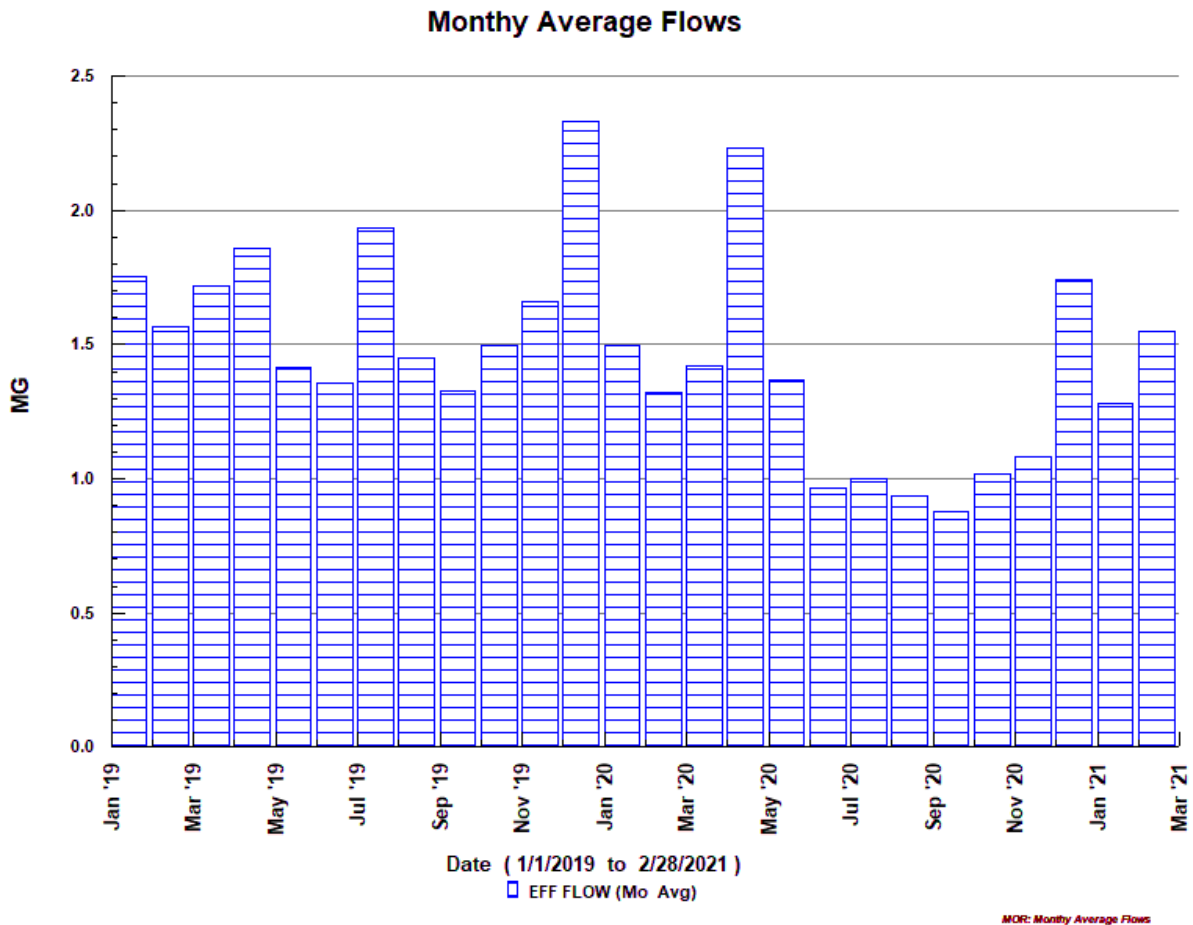


Average Daily Flows and Loadings for the Month:

	Eff Flow MGD	Inf Flow MGD	Inf BOD LBS	Inf TSS LBS	Eff BOD LBS	EFF TSS LBS
Feb 2019	1.568	1.884*	795	1589	35	87
Feb 2020	1.323	1.500*	1140	2001	30	81
Feb 2021	1.549	1.792*	2888	3787	222	300

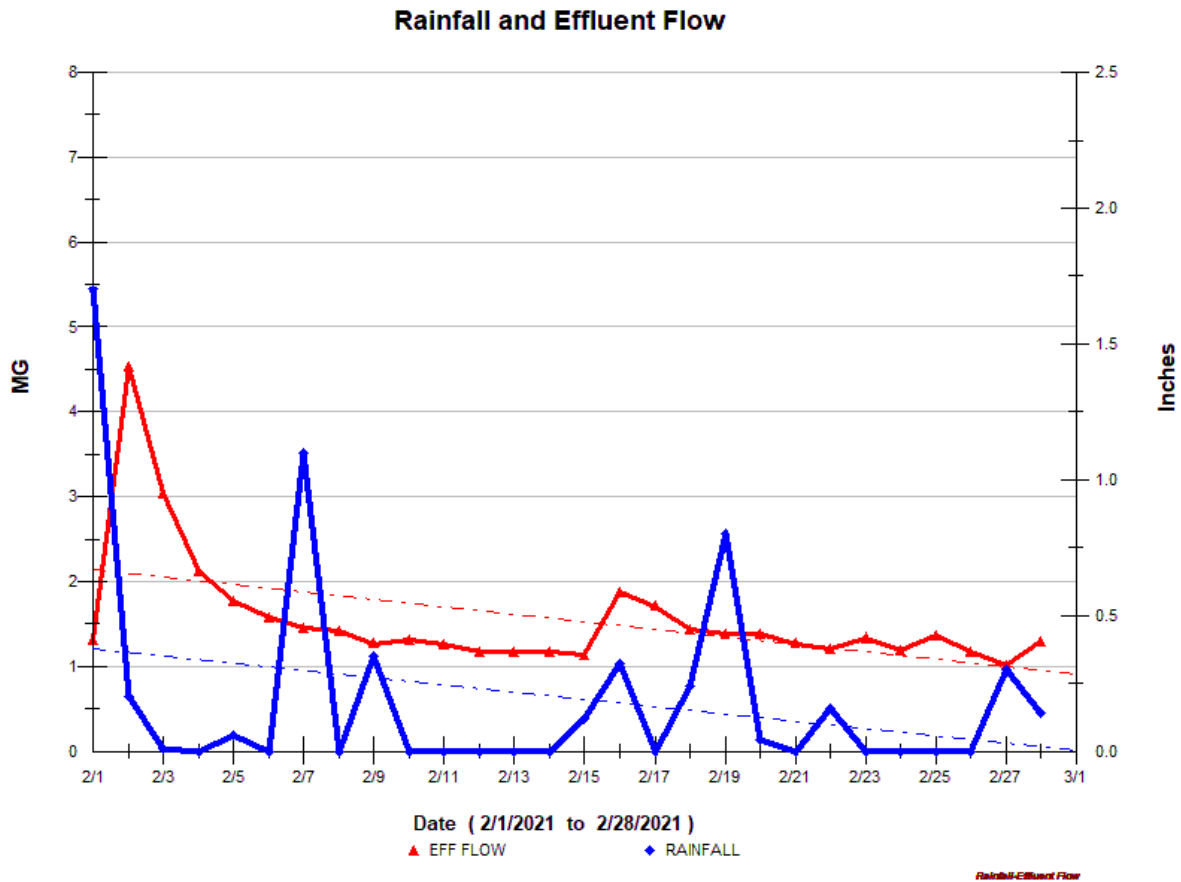
* On-Going -The influent flow meters are strap on doppler flow meters, and the internal pipe condition prevents getting a strong signal. The staff utilizes the area velocity meter in the aeration tank inlet channel as well as the headworks influent Parshall Flume meter. All reported loadings are based on the effluent flow meter. All meters are tied into the Scada system so that influent flows can be monitored. Flows in 2020 are lower due to improvements in the collection system to reduce inflow and infiltration.

2.1 AVERAGE EFFLUENT MONTHLY FLOWS – 2+ YEAR COMPARISON

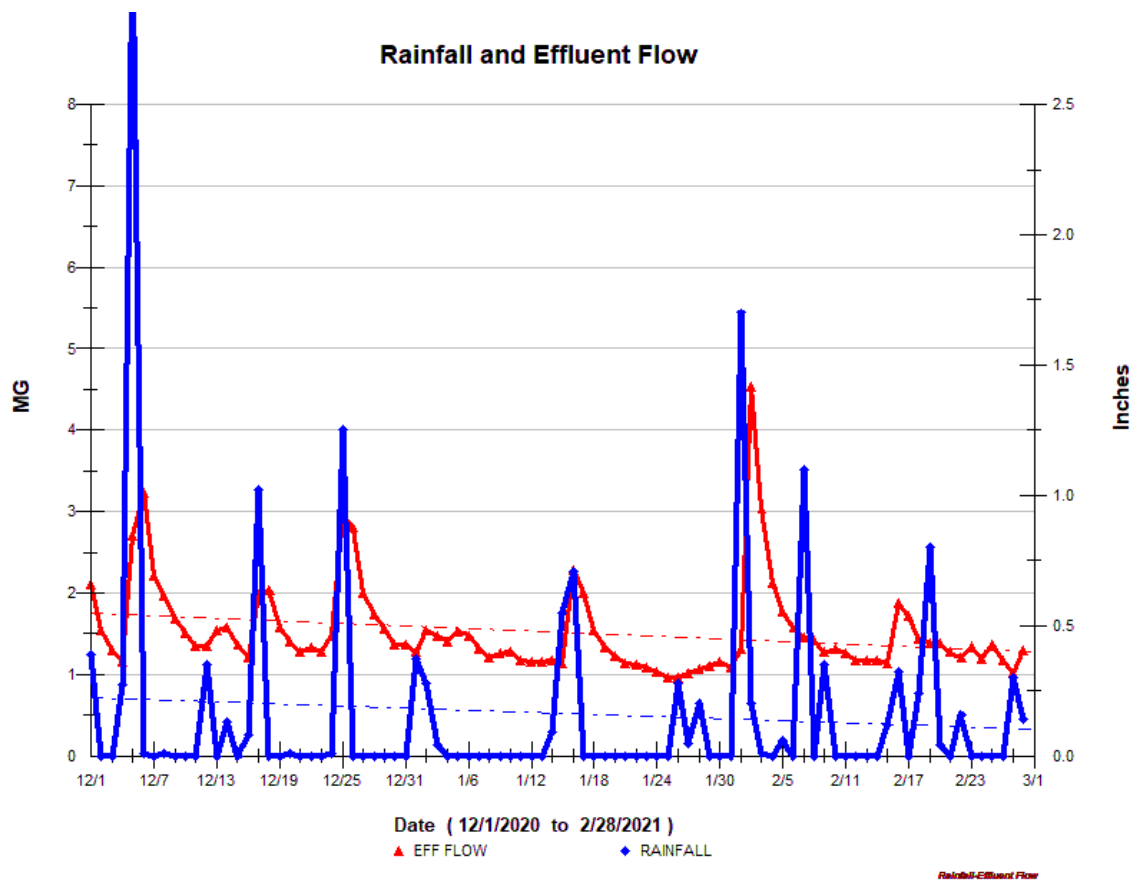


The monthly average flow for February was 1.55 MGD, slightly higher than the previous month. The total precipitation for the month was 5.54 inches. The graph shows the 2-plus year summary of the monthly average flows that includes the most recent 4-month period.

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 days in February, with the 2/1-2 period where 1.7" of precipitation was received. The wet weather had some limited and short-term impact on plant flows.



This graph shows the last few months: December, January & February. There was some flow impact from wet weather in February.

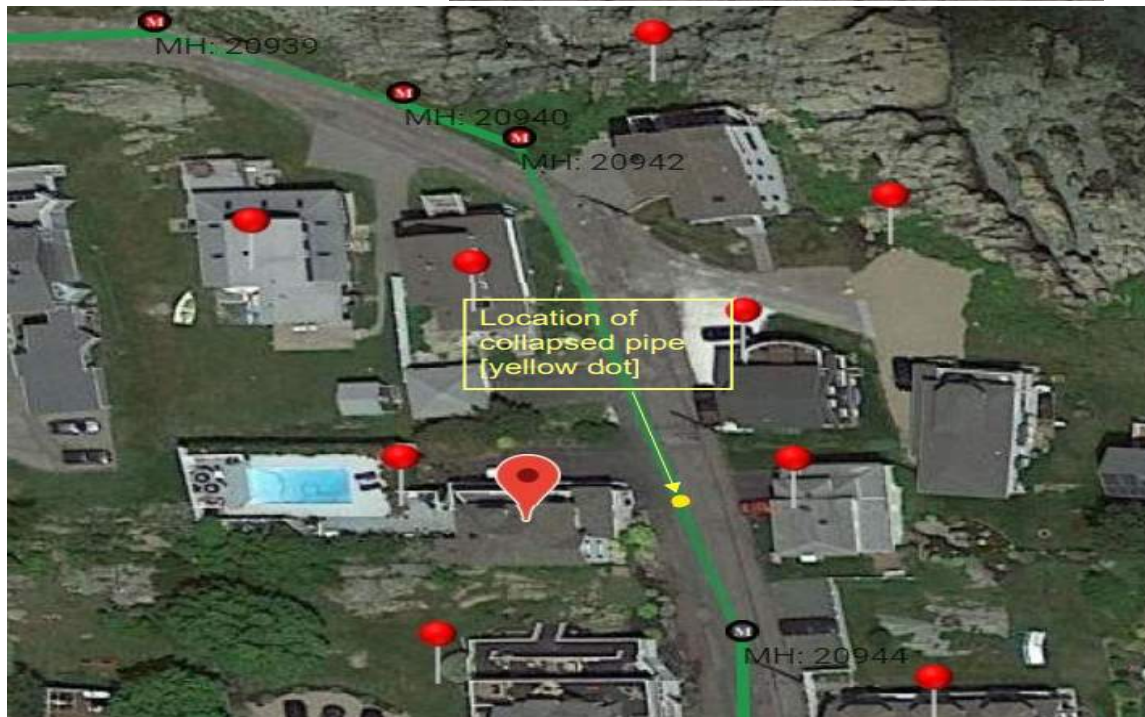
3 COMPLIANCE

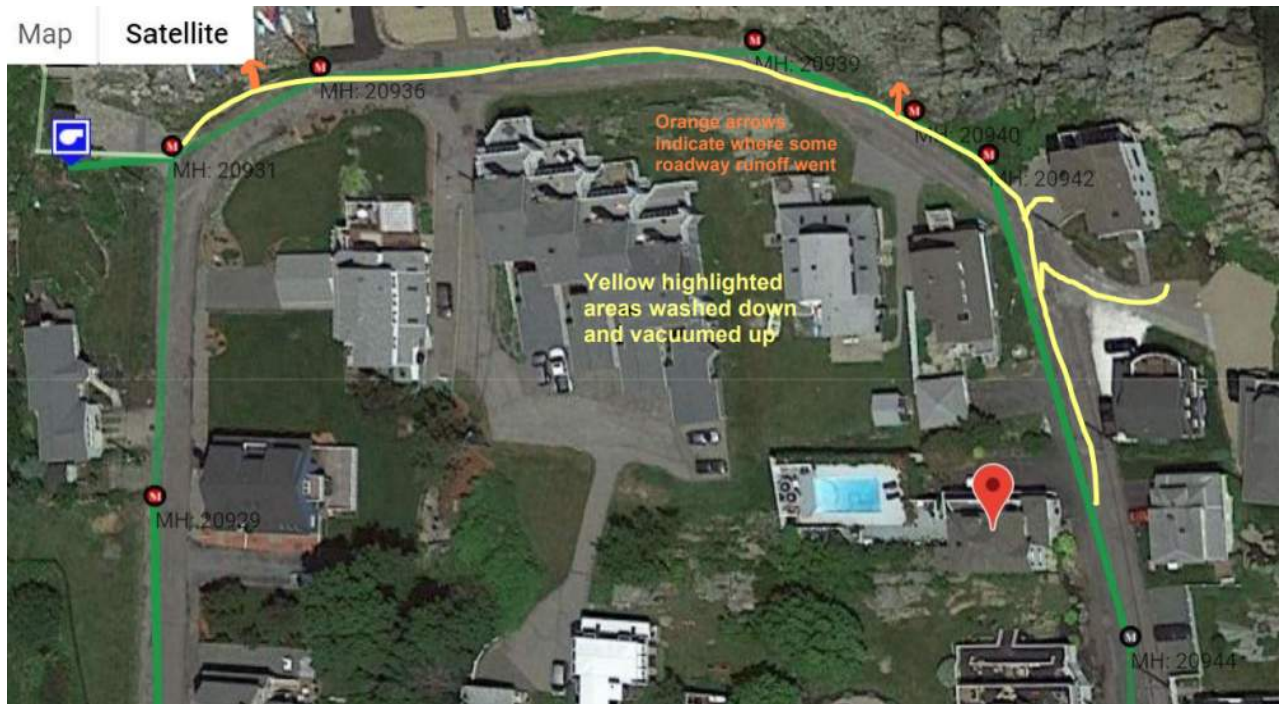


➤ Plant Effluent

There were no permit exceedances in the month of February.

- Plant process conditions were stable during the month. There were high flows to the facility early in February because of a major storm. Influent flows peaked at 7.5MG. Additional offline tanks were filled to equalize flows, and the facility was placed in the “contact stab” mode to handle the higher flows and to retain biomass. The secondary system sludge setting rate was slower due to colder water temperatures and the formation of filamentous bacteria growth, caused by the higher plant flows and introduction of excessive solids from the collection system scouring and the complete plant shutdowns needed for the effluent gate work. Adjustments to the timed aeration schedule were made as needed. The sub-zero temps did cause some icing issues on the SC’s and the plant water was shut off during these periods.
- A Copy of the monthly NPDES reports for February 2021 was submitted to the EPA & DEP and then forwarded to the Hull Sewer Dept.
- The quarterly toxicity sampling was completed.
- Worked with Kristina Richards on MA Tier 2 report filing [due 3/1/21]
- The annual sludge report for 2020 was submitted before the 2/19 deadline for filing date.
- There was one SSO report 2/23 submitted for the Meade Ave collapsed/blocked sewer line. Initial report filed on 2/18 and completed report submitted on 2/23/21. [pictured: cleanup of area, jetting of blockage, excavation, and site maps.







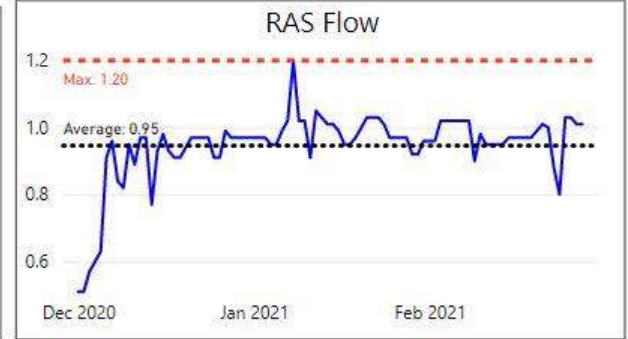
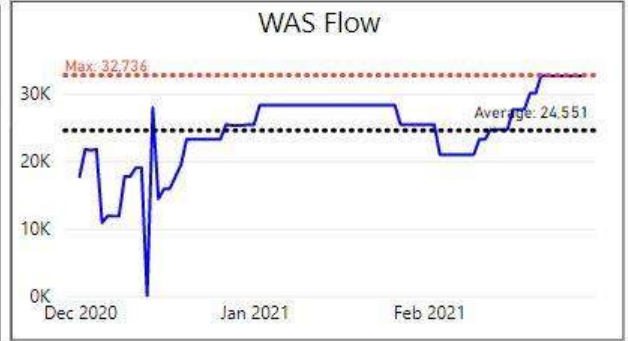
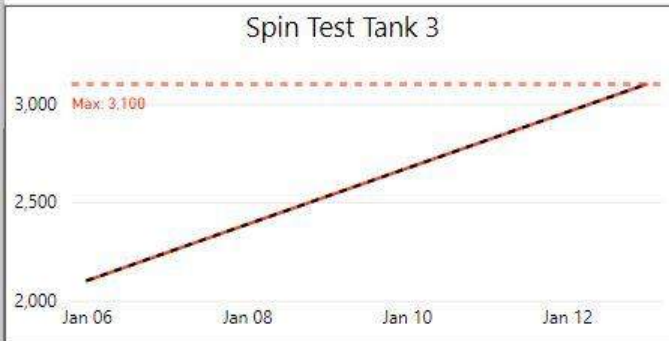
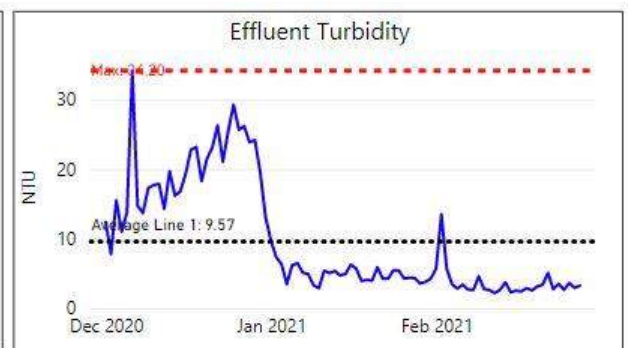
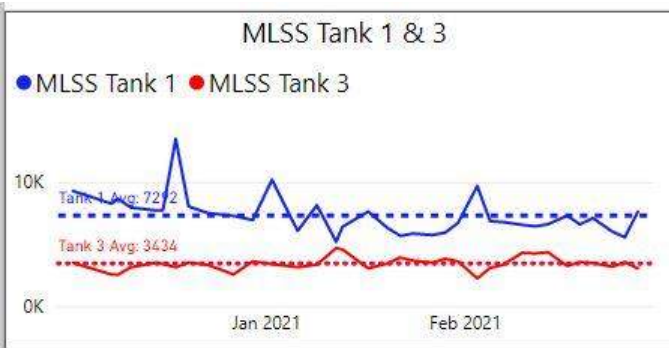
Hull Wastewater Treatment Facility

2/1/2021

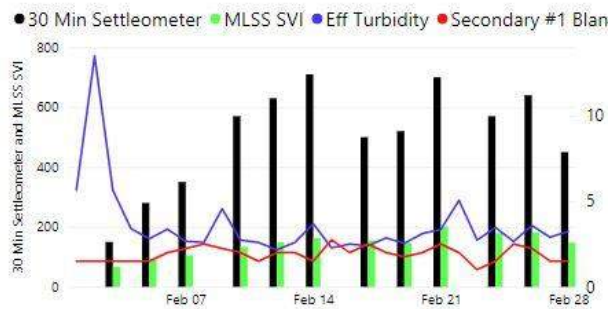
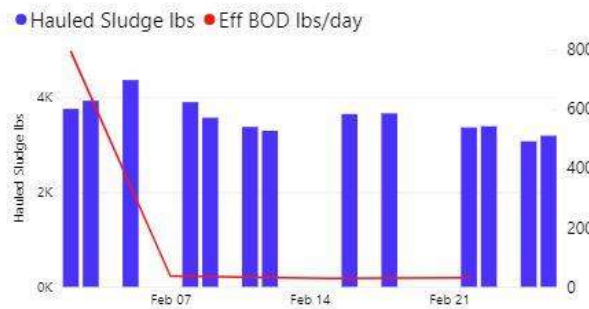
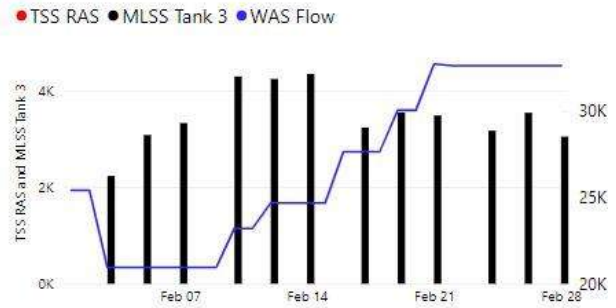
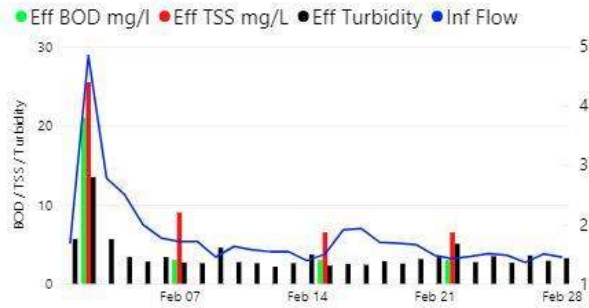
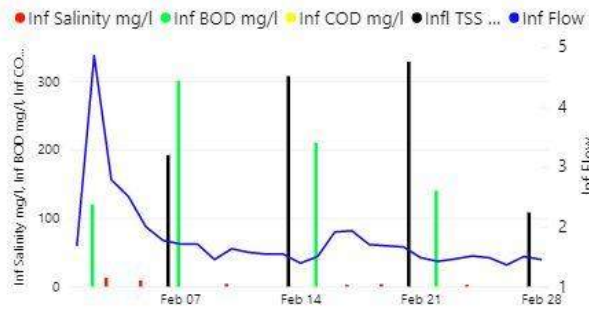
2/28/2021



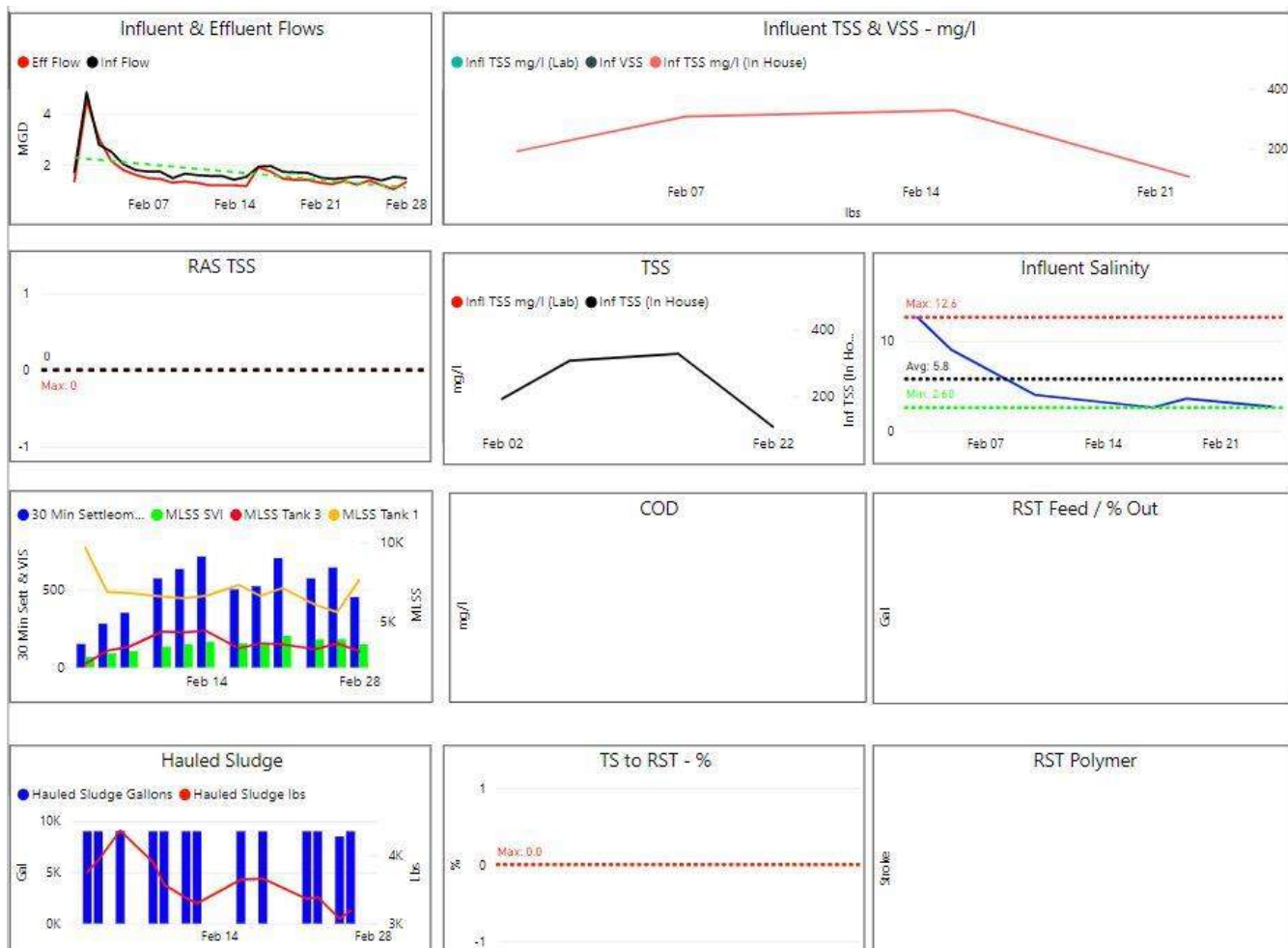
Monthly Process Summary graphs from power BI – February 2021.



Graphs shows trending of secondary processes using Power BI for the 3-month period ending on 2/28/21. The tank solids levels under aeration showed relatively stable levels of solids. Sludge settling was slower as indicated with the increase in the SVI [sludge volume index] but effluent turbidity was stable.



Power BI Graphs shows trending of various processes – February 2021.



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

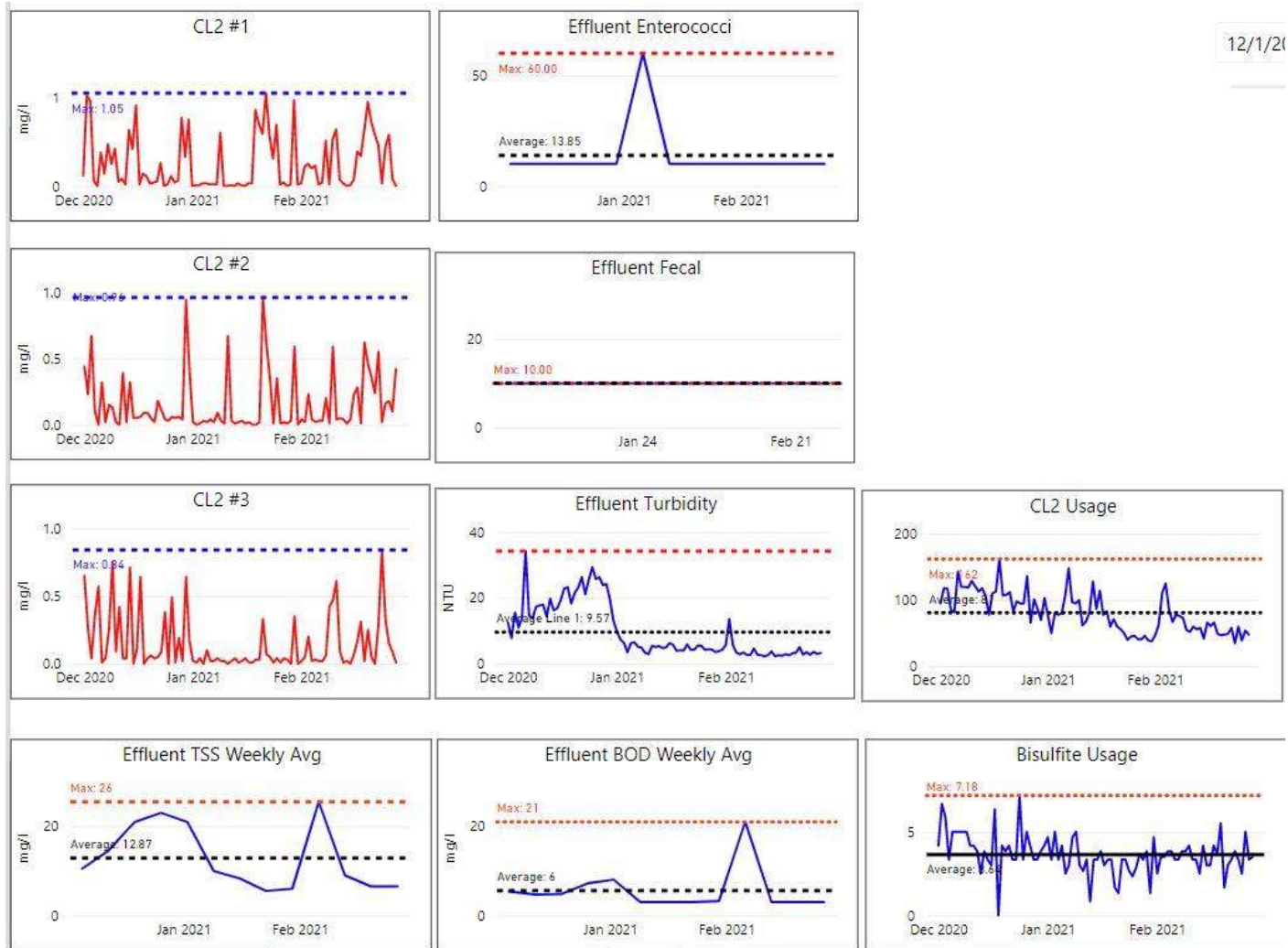
4 KEY PERFORMANCE INDICATORS



4.1 WATER QUALITY – FEBRUARY 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	11.9	6.5	25.5	4	0
Eff TSS	LBS			1152	768	1 X Week	299.8	61.3	963.4		0
% TSS Rem	%		85			1 X Month	94.9				0
Eff BOD	MG/L	50		45	30	1 X Week	7.8	3.0	21.0	4	0
Eff BOD	LBS			1152	768	1 X Week	222.1	28.3	793.4		0
% BOD Rem	%		85			1 X Month	96.1				0
Eff Chlorine	MG/L	1.0			0.7	3 X Day	0.21	0.01	0.55	84	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	7.3	28	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 February.

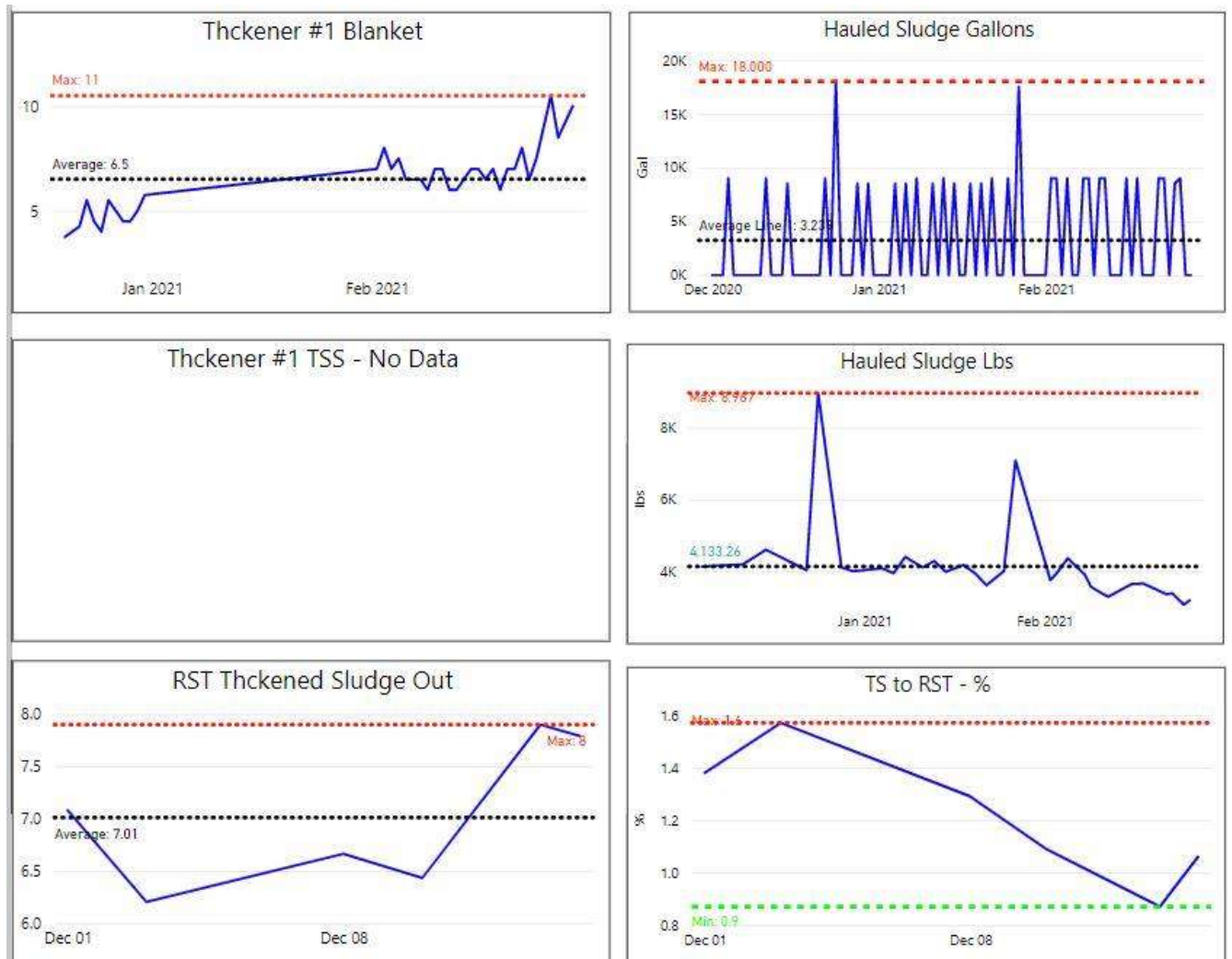


Power BI graphs showing effluent compliance for the last 3-month period ending on 2/28/21 - chlorine residuals, effluent compliance, & chemical use. Bleach [sodium hypochlorite] & sodium bisulfite trending lower, and effluent quality was stable. The spike in TSS and BOD were a result of sampling done during the high flow period.

Gallons Treated vs Sludge Disposed

Month	Effluent Treated, MG	Sludge Disposed, Gals
Feb 2019	43.90	98,000
Feb 2020	36.99	134,000
Feb 2021	43.36	116,500

Additional Power BI graphs for sludge solids for 3-month period ending 2/28/21.



5 ODOR CONTROL

There were no odor complaint calls received during the month of February for the wastewater facility. There were calls reporting a sewage odor from the 23 Meade Ave. area. After several visits up to the area, with manhole inspections and camera work on the gravity sewer line, a blockage was found because of a collapsed sewer pipe. There were some issues with floating sludge on the surface of the secondary clarifiers and intermittent surface spray water was needed. The gravity thickener and primary clarifier were on-line. The Bioxide system was off for nearly the entire month of February. 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 on 2/11/21. 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 not done in February.
- Mixing systems/aerators were all functional and in timed mode at the pump stations, except for pump station #3. [Bioxide addition is at PS 3].
- Hydrogen sulfide monitoring units [H₂S] were recording and being trended on the odor scrubber for monitoring inlet and outlet H₂S levels. Weekly neighborhood monitoring around the plant done with portable Jerome meter as needed.

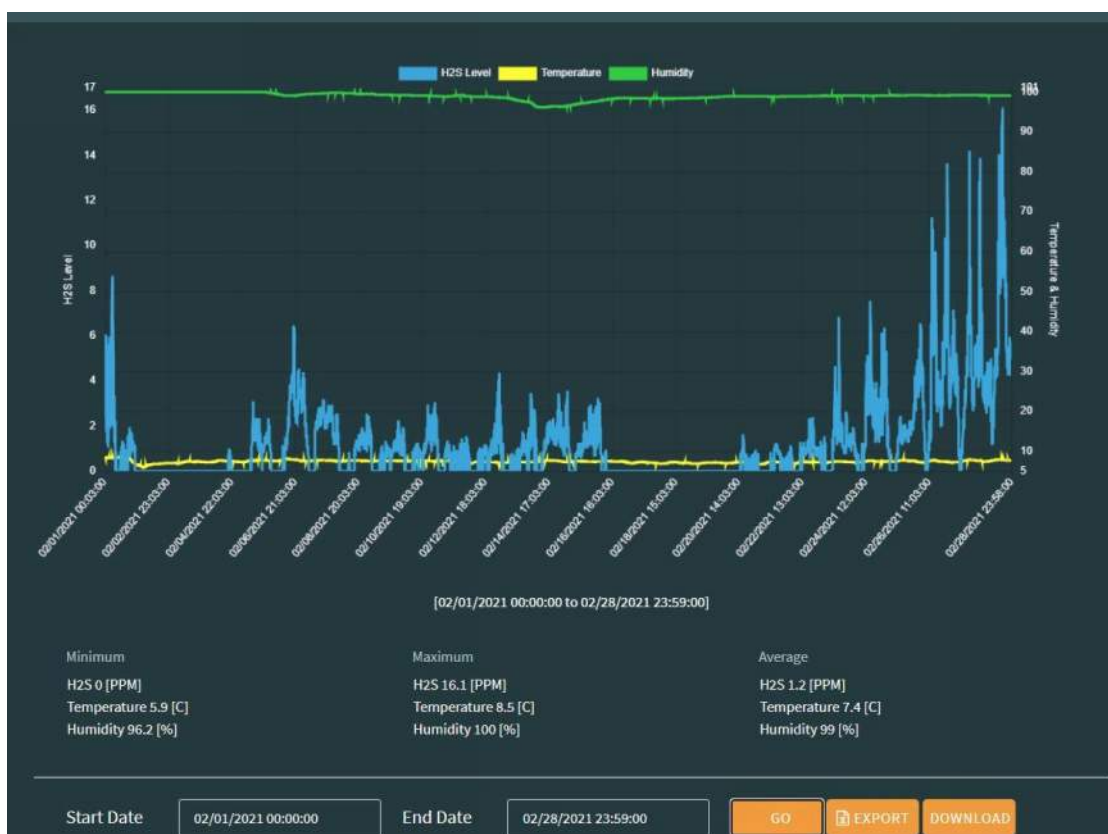
[pictured below: trending graphs for H₂S levels recorded from the vapor link system cellular at manhole at XYZ Street/Nantasket Ave and Nantasket Ave/Water Street.

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 stopped recording around January 16th. Evoqua was contacted in to investigate. Prior to that the H2S levels were low [below 2 ppm].

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



Pump station #3 is the where the Bioxide is stored. The chemical is added here, and then 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, etc. all the way to the plant.

There were low H2S levels much of February due to low wastewater temperatures and some wet weather events. As increased H2S levels were seen near the end of the month, there were adjustments made to get the levels back down.

6 MAINTENANCE SUMMARY

6.1 TASKS COMPLETED THIS MONTH

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

Key items of note are listed below.

- A new Android Tablet was obtained for the operations staff use that would allow for regular staff and part-time staff to utilize all “do-form” reports.
- Re zero Q45 H₂S sensors on the inlet and outlet of the odor scrubber, since the readings were significantly out of range. Realign the center of the sensors for the scrubber “in” and “out”. Also replaced the filters in both sensors. W&C will add sensors PM and calibration to the SEMS schedule. Paul H spent parts of 4 days and several hours to obtain stable and reliable results.
- Install final drainpipe to the floor in the headworks and rehang the garden hose with a new hook-up connection. Took out all the old drainpipes and temporary piping no longer in use. The staff cleaned up in headworks and put all the rubber mats back down that were moved for the construction work. Area washdown and sweep up debris completed.



- Influent Pump #4 - Volute clean out cover rotted through. JS welded a steel patch to the inside of cover and made a new gasket.



- On Feb 2nd through Feb 6th W&C provided support to the DPW with labor, trash pumps and hoses to pump out the flooded area bordered by Ocean Ave, Spring Street, and Main Street. Transported and moved pumps and hoses as requested by the Town on Ocean Ave and on Main Street vault areas to the bay to pump out flooded areas. Monitor and fuel up as needed. Many trips were made up there throughout the days. Deliver hoses for DPW. Check and monitor pumping as needed for 6-inch trash pumps in Ocean Ave area. Collect all discharge and suction hoses at the conclusion of the project and before snowstorm. Assistance provided by the HSD, DPW and Mass Highway.



- Additional summary notes: 2/2 - support provided - 4 out of 5 staff working most of day into evening on Ocean Ave flooding issues. Two six-inch trash pumps brought out with the necessary hoses. Multiple setups made, moving pumps, and trying to figure out best way to drain the area. 2/3 - Move around pumps at Ocean Ave area as requested to resume pumping down flooded water. Provided 4-5 hours of assistance with several of the staff members. 2/4 - Several trips made up to Ocean Ave for pump monitoring. The DPW was watching pumps and fuel. Replaced fuel filters for one of the pumps and topped off fuel. 2/5 - Checking on Ocean Ave status with DPW. At end of the day, the DPW returned the 6-inch trash pumps. The pumps were drained and stored away; 2/6 - ES/JB drained out, rolled up and transported all the lay flat and suction hoses, orange safety barricades &

cones and transported back to the plant and stored them in appropriate storage trailer. A winter storm was predicted for the weekend of 2/6 to 2/7.

- On 2/17 – Hoadley vactor truck was subcontracted in to clean the primary scum tank out. This work was combined with other various manhole cleaning [see collection system section]. Some of the debris was brought up to the landfill dumping site. Disposal amount was limited up at the landfill since that area was full. The grease debris was brought back to plant pit and manually put in the small dump cart for screenings. [pictured: Joe Basler cleaning grease/debris from receiving pit at the plant]



- Worked on several lighting fixtures in various areas. Replaced ballasts, light clips, and install new fluorescent LED bulbs in some of the fixtures. Some back storage area cleaning and parts organization done.
- 2/22 - 3:30pm - responded to a drywell high level float alarm in the pump room at PS9. BB/AV/ES responded and found sump pump not working. The float was exercised and repositioned. It took a few hours to get the room pumped down. Replaced check valve and sump pump on the following day.
- On 2/18 during monthly PS checks and valve exercising – staff found that the bypass drain at PS1, mid-level, leaking from gasket. The flange bolts were tightened.



- Seacoast Supply Marc Roper & Dave Bradford in on 2/11 - working with BB/AV/JS on influent pump #2 seal replacement. Determined that the existing shaft sleeve was in very poor of condition, which prevented installation of the rebuilt mechanical seal. Arranged for Seacoast to take the pump assembly and have a new shaft sleeve made. On 2/25 the rotating assembly was returned, and a rebuilt mechanical seal was installed. The entire rotating assembly was reassembled and installed into the volute of this pump. The impeller height was set according to adjustment, then the mechanical seal was set on the shaft by Seacoast staff. The motor stand and motor were reinstalled. After wiring up, the pump was test run with no issues found. [pictured: Jody St. George performing the pump reassembly]



- Clean both check valves at PS #3 for each pump and clean the volute for pump #2 on 2/24/21. On-going debris build-up [disposable wipes. The pump and check valves had been previously cleaned one month earlier.
- PSL pump #1 developed a leak in the pump casing. The case had been previously patched and too rotted to repair again. Upon disassembly, the impeller was also found to be very corroded and worn. Investigating parts repair versus pump end replacement with manufacturer's representative – Vaughan Chopper Pumps. Site visit on 2/24.



- Local locksmith contacted for PS A entry door to match up a new key cylinder to match the other PS doors. [2/24]
- Sludge Transfer Pump #1 disassembled for planned corrective maintenance. The volute piece was rotted, and all parts were sent to Industrial Pump Sales & Service for evaluation as parts are difficult to obtain and no longer available.



- Dealing with cold weather and snow removal issues at various times in February – bisulfite shed heaters, building heaters, PW hoses and freeze ups. Typical for winter operations. The D Street portable pump was set up in early February and operated during the high tide and heavy rainfall period.
- Consulted with W&C Engineering and electrician on whether the temporary electrical service for the panel by the headworks entry door could remain and made permanent.



6.2 ASSET MANAGEMENT ACCOUNTS

- Please see the attached summary and planned expenditures for the Asset Management accounts for contract year (6). Most recent through **04/19/21**.
- Note: there are still a couple of placeholders in the planned maintenance list that are pending and may not necessarily happen under the 06M budget. These projects are being reviewed on a regular basis with the HSD.

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 February.
- Monthly PM's - Emergency eyewash and shower inspections, fire extinguisher and emergency lighting inspections completed.
- On-going Coronavirus Covid-19 awareness and updates discussed – daily & as needed. Staff separation planning & updates, facility visitors, personal hygiene & company initiatives. Daily non-contact temp checks for staff & visitors. Work with onsite contractors to ensure that Covid-19 procedures in place and being followed. Staff continues to follow updated protocols that were posted on 10/27/20. MA Governor's mandate for mask use at all times complied with while working in public buildings/facilities. Continue to work with O&M health & safety, W&C Engineering, to ensure safety protocols in place for the ongoing engineering projects at the facility. Updates to company's health & safety department on building HVAC.
- On-going – daily safety briefing meetings with staff, covid updates & reminders, site specific safety policies for sub-contractors, safety tailgate meetings. Pure Safety topic– February – Cold Stress.
- Monthly staff safety meeting conducted on 2/25/21. the staff participated virtually via Microsoft Teams. Major topics discussed: Review Lessons Learned for Jan 2021, repeat of cold weather conditions and working safety in the cold, ice and storm conditions safety, and carbon monoxide safety.
- Installed safety railing for fall protection by primary scum tank #2. Needed when cleaning scum beach and trough and tank cleaning.



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 January discussed.
- 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.
- No off-site training currently due to Covid-19 limitations & conditions. Staff began attending virtual training sessions offered through NEIWPCC. These modules to be used for training, educational advancement, contact hours for wastewater license renewal, and certification exam preparation.
- Followed company’s directive regarding the Hach WIMS migration to a new server within W&C and assisted the staff with transition. The data stored in the new server would be under the company’s domain.

Staffing related items:

- The regular staff labor was supplemented with the two O&M Specialists to cover all the necessary shifts, since the regular staff was reduced by one person [on medical leave]. Paul Horigan and Jody St. George provided the assistance.
- Staffing schedule – reminders on-going awareness for staff separation, social distancing, face mask use, other safety protocols always.
- No status change - Mass Maritime [MM] internship program on hold until possibly late 2021.
- No changes made to the Sunday schedule plan. Coverage continued with Aram V., Roger B., and Joe B.

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, 2020	X				X			
June, 2020								
July, 2020	X			X				
Aug., 2020								
Sept. 2020	X							
Oct.,2020	X			X	X			
Nov, 2020								
Dec., 2020	X			X	X			
Jan., 2021								
Feb., 2021					X			
March 2021								
April 2021								

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 February.

- In-Pipe units – on-going battery change out, dosing unit repairs & cleaning and inspection. Circuit board troubleshooting, dosing pump repairs and replacement as needed. Working with “In-Pipe” 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 February. Monthly Pump Station Inspections done combined with quarterly pump station PM's such as valve exercising at all stations - JS/PH/MA.

- Grinder pump summary:

- 21 Shore Garden Rd. – pump and chamber loaded with rags/debris and not operational. The station was in alarm, and full to the top with sewage. The water was pumped down, pump removed pump & rags/wipes removed (a heaping 5 gal. bucket). Install rebuilt pump and advised resident not to flush wipes. This location had been serviced approximately 2 months earlier. Reported conditions to the HSD.



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, 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 where able to complete. Most of the calls were for water main breaks/emergencies.
- 2/9 - 416 Nantasket Ave - Sewer Back-up call - BB & ES responded and advised homeowner & plumber that blockage most likely in the service lateral.
- 2/22 - 12A Roosevelt callout - backup call. BB and ES used push camera to inspect main line and locate all lateral services on that side of the street. Coordinate with Hub Construction and homeowner. [pictured – camera inspection of main line to locate the sewer lateral]



- 2/8 - 23 Meade Ave sewer odor/back-up call. BB & ES checked out - main line was clear & minor odors detected but nothing unusual found.
- 2/10 - BB responded to Drainbalance inquiry on the lateral length & blockage at 416 Nantasket Ave. JSS went out to site later in day and coordinated for jetting and CCTV by NWM and Mr. Drain.
- 2/10 - 41 Samoset backup call out - street flow found to be good - marked out service with tie card and checked the old record drawings.
- NWM inspection at 416 Nantasket Ave with Brian K, then moving over to Malta / Samoset, Aqualine called in to dig 416 Nantasket Ave with Town oversight.
- 2/13 - 3 Dellawanda backup call came in - previously called to discuss issues - BB & ES assisted with plumbing questions. Homeowner issue.
- 2/17 - Hoadley vactor truck working with W&C on MH cleaning - 9 Glover Ave., PS5 street manhole and wet well, Attempted Berkeley Ave MH, but the power lines were hanging too low in the street. Investigated a manhole, possibly sewer at 27 Rockview, but this manhole was found to be a stormwater manhole with known historic problems.
- 2/17 - Meade Ave call back for potential sewage issues - used camera and dye to find surcharging in the sewer line. The Hoadley vactor truck jet could not get access from the upstream or downstream manholes. Rosano-Davis Jet trailer contacted and started cleaning the line, until their jetter hose line got cut. They were able to pull out their line & repair for the next morning.
- 2/18 - BB/ES out all day into evening at Meade Ave with Brian K. Attempted the Rosano-Davis trailer jetter again and believed to have jetted through a broken clay pipe into the ground. Saw release of water to the ground surface. Call made to John S. and requested ALU for excavation. ALU & Truax vactor truck arrived onsite by noon, Contained SSO and vactor cleaned the roadway surfaces and supported dewatering in the trench, ALU exposed the section of broken clay pipe and a blockage at the same location with dirt and grease found. Used the push camera to inspect the sewer line, and it was found to be in very poor shape. The immediate repairs were made and would consider future repairs later. [completed by 6pm]
- 2/23 - 23 Meade Ave backup called in again. The sewer service was replaced with the main line collapse last week. BB & town had Budget Camera service in and determined that the house service was broken near the foundation and unrelated to the recent main line repairs. The push camera was used along Meade Ave and another partial collapsed section was found along with

another broken section further downstream. ALU was called in to repair this broken pipe as a spot repair, and a third visit scheduled for the remaining section [partial] on the next day.

- 2/24 - BB/ES returned to camera Meade Ave again and mark out the partial break upstream found from the other 2 repairs. ALU was already onsite and replaced this pipe section. The 23 Meade Ave homeowner coordinated with HUB construction to repair driveway service break.
- 2/26 - BB out to support Brian and contractors at 12/12A blockage on Roosevelt. Found grease being pushed out with snake but flow could not be released. Town recommended to homeowner that a plumber be contacted that included a jetter.
- 68 Salisbury – inspect possible grinder pump issue – blockage determined to be in the hose & grinder pump was ok.
- 41 Kenberma back-up call responded to on 2/11. The main was checked and the flow was normal, and pipes looked clean. The service was marked out, and homeowner informed the sewer department would be inspecting the issue further from the street with the lateral launcher camera from NWM. The lateral inspection looked good and confirmed that issue was a homeowner issue.

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

10 PROJECT MANAGEMENT & ADMINISTRATION



10.1 ON-GOING PROJECTS AND SUPPORT ITEMS

February updates:

- Ongoing - PS9 & influent/secondary engineering projects - review DBR comments and provide feedback and participate in calls as available. Inspection at PS4 as requested for floor and wall concrete repairs by Bolton [BB/JS/Audrey I]. Visits into lower levels. Continued support and follow up calls for cleanup in areas related to the headworks & Pump Station concrete work. Provided updates on cleaning status, hazardous materials disposal, and PS access. Continued work with the Town, W&C Engineering, and D&C Construction to complete headworks project and pump station concrete repairs - other concrete work above the aerated grit tank.
- Storm preparedness planning 1/31-2/2 for the winter storm and coastal flooding. Monitored the storm conditions remotely and through extended work hours at the plant. An additional portable pump was set up at the D Street stormwater station. The pump did run during the peak high tide periods when precipitation rates were at their peak.
- Conference calls on PS#5 / Effluent pump room project, coordinate with D&C Construction for remote PS work at PS4 and LS A, and special MH [SMH-2] at plant. Calls/coordination calls with D&C and Engineering on the effluent MH, gate, and effluent pump room.
- Researched 2020 data for Town annual report and provided to Brian K. [AV, BB, RS]
- Follow up on previous invoices for work performed by D'Allessandro Corp., and all invoices were found to be paid and there were no outstanding issues.
- BB initiated a discussion for the need to develop a backup and blockage program that is more detailed than the current process with a goal of streamline calls for both the Town and W&C

operations, due to the increase in the number of blockage calls, many of which are homeowner issues. A draft procedure would be developed.

- Co-ordinate several plant flow shutdowns for SMH-2 project and return plant to service. A standard operating procedure for the shutdowns was prepared by BB that included use of the 8-inch Vortex pump.
- AV provided information to Kristina Richards for the 2020 Tier 2 filing which is a review of reportable chemicals under the Emergency Planning and Community Right to Know Act (EPCRA) Tier II Hazardous Chemical Inventory reporting requirements (40 C.F.R. Part 370) for the Hull Wastewater Treatment Facility & PS #3. The report was also forwarded to the Hull Fire Dept.
- W&C received a proposal for installation of two “deraggers” at PS#3 to help reduce the pump and check valve clogging/ragging issues. As noted last month, the frequency of significant cleaning is occurring every 4-6 weeks. Mechanical Solutions Inc would provide the installation and be assisted by W&C and an electrician. The proposal will be presented to the HSD.
- Waiting for confirmation from HSD on corrective action plan for the Ocean Ave sewer line that is tuberculated and has a restricted section. Truax has a small trailered jetter unit that is used on smaller pipes in conjunction with a chain knocker attachment with a spinning cable that contains carbide tips.
- On Hold: Sludge holding tank #1, the installation of diffuser piping is under consideration. A recent tank inspection was done and W&C O&M Tech support staff would perform the demolition work. Upon approval, an inventory of parts on site would be made, with an update on the additional parts/items needed. An update on the existing inventory of parts will be made with a recommended purchase cost and presented.
- Old secondary clarifier gear boxes – received evaluation report late in February. The units were found have extensive corrosion throughout and past the point for a cost-effective repair to be considered. Every bolt and connection would need to be drilled out and support pieces replaced. The recommendation is to scrap/discard the units.



- Scope of work for PS 4 needs was reviewed and it was decided that the preferred approach would be to delete any remaining PS 4 work from D&C contract and Operations would solicit

proposals from other contractors to perform the work that was intended to be done by D&C. Operations will compile the scope of work, plans and site visit coordination with preferred contractors and get quotes and then determine whether work would be done by D&C Construction or another contractor.

- Continued work on gathering the additional information related to the radio/communications proposal and researched procurement for pump stations and the plant Scada system. A follow up to the sewer department was provided on 2/9/21. The W&C SCADA Team for their assistance, the proposed project approach was worked on for presentation in early February.
- Electrical use spreadsheet – update information for the Town. As part of a State energy grant that Hull received, the spreadsheet would get updated monthly and then be forwarded to forward to Frank C. W&C was able to complete the login procedure and access the website.
- Reviewed 2/12 cybersecurity incident at a Florida facility as correspondence received from MA DEP. Hull's systems are protected with recent updated cybersecurity hardware.
- Assisted where requested with records disposal and bins for Iron Mountain [items from Wallen room]

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	\$130,573.37	\$79,982.31	(\$17,500.00)	\$113,073.37	\$97,482.31
06M-102B	Capital and Major Repairs	\$140,000.00	\$94,788.15	\$45,211.85	\$101,522.00	\$196,310.15	(\$56,310.15)
06M-103A	Major Sub Contractors	\$178,370.75	\$192,262.05	(\$13,891.30)	\$7,600.00	\$199,862.05	(\$21,491.30)
blank					\$0.00		
	Asset Management	\$528,926.43	\$417,623.57	\$111,302.86	\$91,622.00	\$509,245.57	\$19,680.86

\$111,302.86

Budget expended	Time Status	
	NOW=	4/19/2021
	Start	5/1/2020
62.0%	96.8%	34.8%
67.7%	96.8%	29.1%
107.8%	96.8%	-11.0%
79.0%	96.8%	17.9%

06S	D Street	\$7,500.00	\$4,168.42	\$3,331.58	\$0.00	\$4,168.42	\$3,331.58
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55.6%	96.8%	41.2%
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06C	Odor Control Chemicals	\$100,000.00	\$94,796.69	\$5,203.31	\$0.00	\$94,796.69	\$5,203.31
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94.8%	96.8%	2.0%
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For Feb M.O.B.
2021

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

Maintenance Account - Year 6 - 05_01_20 to 04_30_21

\$91,622.00

4/19/2021 9:14

Priority	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
1	Mechanical Work Labor by O&M specialists	On Going		101A	\$2,000.00			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 pcord]	On Going		101A	\$1,500.00			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 \$\$ 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
1	Lubricants	On Going		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	On Going		101A		\$2,760.80		General Repair Work - Original Placeholder \$3,000- PS4- \$2,600 & other, to date cost noted
1	Fire Alarm Inspections and Service	On Going		101A	\$850.00			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
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	On Going		101A				Annual task - Applied Dynamics - PO is issued for April, PO# 102708
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	On Going		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

For Feb 2021 M.O.R.

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

Maintenance Account - Year 6 - 05_01_20 to 04_30_21

\$91,622.00

4/19/2021 9:14

Priority	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
2	General mechanical and electrical items/supplies	On Going		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	On Going		101A	\$5,550.00			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#
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	On Going		101A				Targeted budget \$2,000 - In-house staff to fabricate, 7 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	On Going		101A	\$200.00			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	On Going		101A	\$1,500.00			Additional lockers ordered to replace those removed years ago; pending delivery
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 4/19/2021	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 06M18/21 added Costs

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

Maintenance Account - Year 6 - 05_01_20 to 04_30_21

\$91,622.00

4/19/2021 9:14

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	Pending		101A	\$600.00			Annual service \$600- usually Jan/Feb. Last done April 2020.
		Pending		101A				
	Mech seal[s] for RAS pumps 1 & 2	Pending		101A	\$2,000.00			Orig budget \$2,000 - for RAS pumps 1 & 2 - pending , but will need to do. Could defer to 07M
		Pending		101A				
	Vaughan chopper pumps - new pump ends for PSL & WAS	On Going		102B				Had Rep in late Feb 2021 to look at all chopper pumps and will provide updated quotes for parts needed. \$5 TBD . Recommending pump replacement for PSL pump #1; PO issued for \$15,950
	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	Pending		102B	\$7,620.00			Estim: \$7,620.00 - TBD when work to be scheduled; will be in 2020 06M. 4/12 - Pending report for 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	Pending		102B	\$3,300.00			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	Pending		102B	\$6,000.00			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
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 [\$3,500]
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
3 of 62	4/19/2021 Replace 6" potable water valve in basement and misc. valves	Pending		102B	2020_05_01_06M_Checkbook_YTD			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.

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

\$91,622.00

4/19/2021 9:14

Priority	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
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 4/5
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'Allessandro - 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	On Going		103A	\$5,600.00			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	-\$34,000.00			
	Electrical LS A hook up	completed		102B		\$1,182.28		estimate look at 2 options - going with option one for new hokk 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	On Going		103A	\$2,000.00			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.
1	Automatic Transfer Switch inspection and servicing	Pending		103A				\$2400 - Annual Service planned for April Highland Power - NETS - Transfer Switch; Part of Gen Svc PO.
4 of 61	Wetwell Inspections and Cleaning - Pump Stations	On Going		103A	2020_05_01_06M_Checkbook_YTD			As required, plant or pump stations; orig budget \$10,000; reduce to zero on 9/9 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

\$91,622.00

4/19/2021 9:14

Priority	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
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	Pending		102B	\$74,602.00			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 2	Pending		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	Pending		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	Pending		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	Pending		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	On Going		103A				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
	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 \$8658 - on a purchase order.
	Generators - Load Bank Testing at plant	On Going		103A				Gen #1 and #1 - last done 4 years ago - \$4800
	Highland Power/MSElectric&Power - Servicing the heat exchangers, fuel filters, etc	On Going		103A				Per proposal \$4,550.00
	Front building window repairs	Pending		101A				To be done under Engin project
1	Low pressure sewer valve box insp & mtce	Pending		103A				placeholder for contractor O&M inspections and potential repairs; Looking at Rosano-Davis or another contractor & W&C to investigate; remove placeholder budget of \$7,500 on 1/28
5 of 61	Aeration Tank #3 - installation of new diffusers and piping grid	Pending		102B	2020_05_01_06M_Checkbook_YTD			\$50,000 Placeholder cost in the event needed 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

\$91,622.00

4/19/2021 9:14

Priority	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
	LS A pumps - Repairs to P2 by Industrial Pump	On Going		101A	\$2,300.00			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 pumper 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	On Going		102B				Solicited estimates for replacement.[estimate if approved]Overhead Door, Collins Door, on a PO:
TOTAL					\$91,622.00			

Date	Asset ID	Asset Description	Asset Class	Name	Workflow Class	View
2/17/2021 14:13	39-057	27 ROCKVIEW RD	Hull Parcels	Sutton, Eric	Generic WO	View
2/27/2021 16:36	21 Shore Gardens Rd	21 Shore Gardens Rd Grinder Pump	Hull Grinder Pumps	Holman, Ryan	Hull - Grinder Pump Maintenance	View
2/11/2021 14:53	Bacteria UNIT #21	UNIT #21	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:57	Bacteria UNIT #22	UNIT #22	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:47	Bateria UNIT # 8	UNIT # 8	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:43	Bateria UNIT #1	UNIT #1	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:47	Bateria UNIT #10	UNIT #10	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:51	Bateria UNIT #11	UNIT #11	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:55	Bateria UNIT #12	UNIT #12	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:54	Bateria UNIT #13	UNIT #13	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:54	Bateria UNIT #14	UNIT #14	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:53	Bateria UNIT #15	UNIT #15	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:52	Bateria UNIT #16	UNIT #16	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:48	Bateria UNIT #17	UNIT #17	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:49	Bateria UNIT #18	UNIT #18	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:50	Bateria UNIT #19	UNIT #19	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:43	Bateria UNIT #2	UNIT #2	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:51	Bateria UNIT #20	UNIT #20	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:56	Bateria UNIT #23	UNIT #23	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:44	Bateria UNIT #24	UNIT #24	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:49	Bateria UNIT #3	UNIT #3	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:44	Bateria UNIT #4	UNIT #4	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:46	Bateria UNIT #5	UNIT #5	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:45	Bateria UNIT #6	UNIT #6	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:46	Bateria UNIT #7	UNIT #7	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/11/2021 14:58	Bateria UNIT #9	UNIT #9	Hull In Pipe Bacteria Unit	Sutton, Eric	Hull - In Pipe Bacteria Units	View
2/4/2021 11:20	24-024	41 KENBERMA ST	Hull Parcels	Sutton, Eric	Hull - Markout	View
2/5/2021 12:33	27-111	401 NANTASKET AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
2/26/2021 9:48	35-086	12 A ROOSEVELT AVE	Hull Parcels	Sutton, Eric	Hull - Markout	View
2/11/2021 13:19	25-176	41 SAMOSET AVE	Hull Parcels	Boornazian, Bill	Hull - Sewer Backup	View
2/11/2021 13:31	27-082	416 NANTASKET AVE	Hull Parcels	Boornazian, Bill	Hull - Sewer Backup	View
2/26/2021 9:44	35-086	12 A ROOSEVELT AVE	Hull Parcels	Sutton, Eric	Hull - Sewer Backup	View
2/3/2021 14:36	45-108	68 SALISBURY ST	Hull Parcels	Boornazian, Bill	Hull - Sewer Backup	View
2/8/2021 12:46	51-061	23 MEADE AVE	Hull Parcels	Boornazian, Bill	Hull - Sewer Backup	View
2/17/2021 12:03	MH-20861	MH-20861	Sanitary Manhole	Boornazian, Bill	Hull - Sewer Backup	View



Maintenance History Report

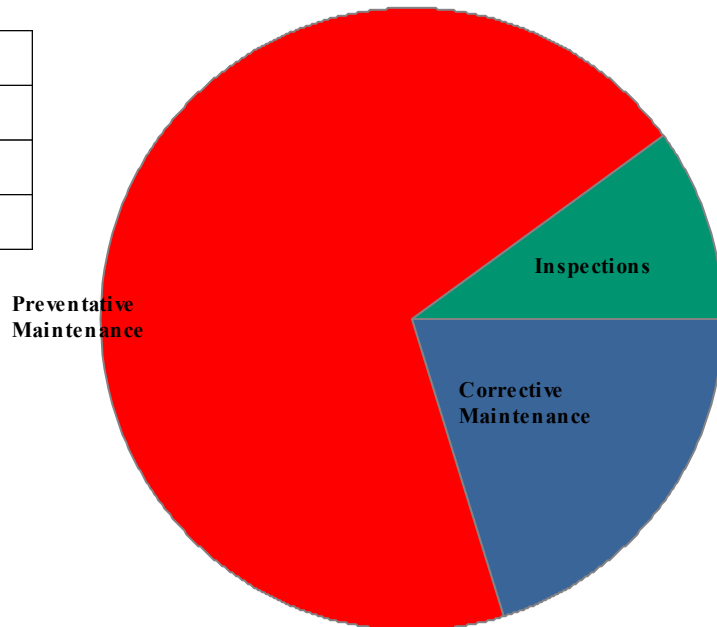
Hull Wastewater

Start Date: 2/1/2021

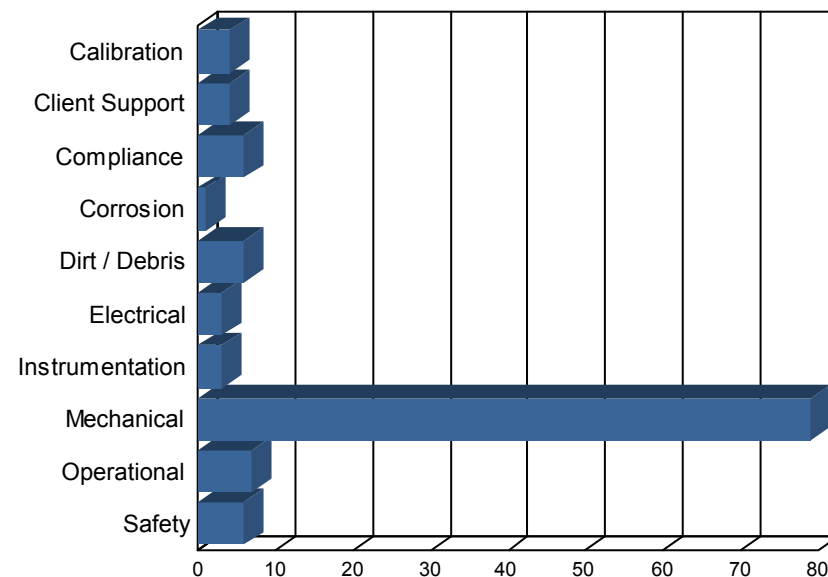
End Date: 2/28/2021

Work Order History By Type

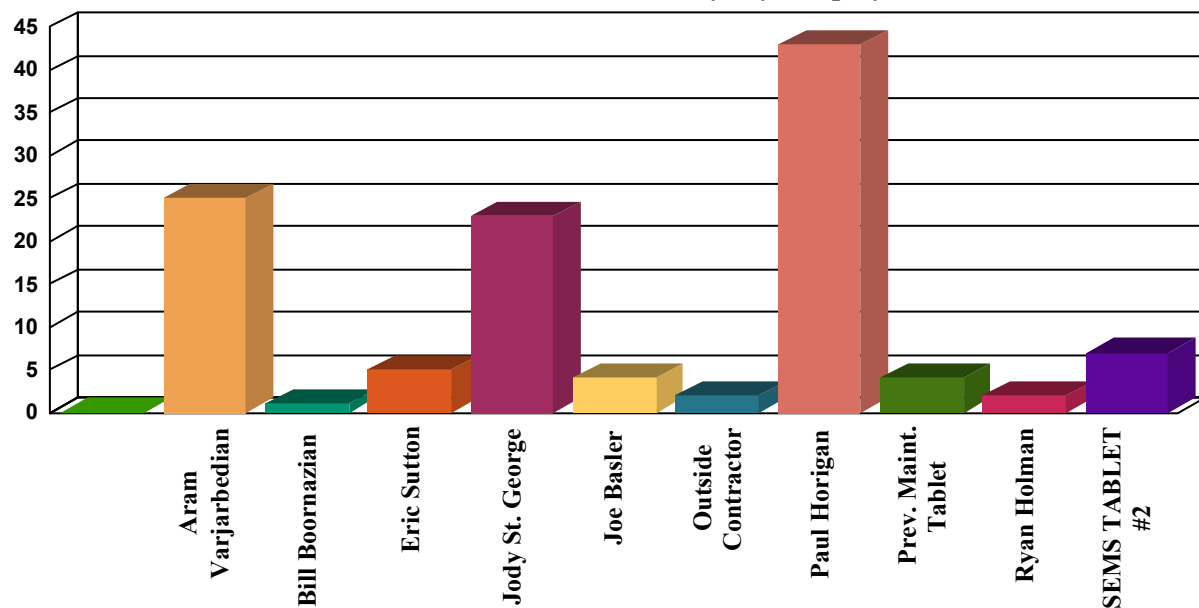
Corrective Maintenance	24
Inspections	12
Preventative Maintenance	83
Total Work Orders	119



Work Order History by Reason



Work Order History By Employee



Employee	WO Count	Labor Hours
Aram Varjarbedian	25	35
Bill Boornazian	1	1
Eric Sutton	5	6
Jody St. George	23	17
Joe Basler	4	7
Outside Contractor	2	3
Paul Horigan	43	22
Prev. Maint. Tablet	4	2
Ryan Holman	2	2
SEMS TABLET #2	7	3

Unassigned	3	4
Totals	119	101

Corrective Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/1/21	13487	37 - WW Odor Control	Re zero q45 sensor do to readings being so far off. Re aign center of sensor in odor controlinbasement as well as sensor in stack. Replaced filters in both sensors.will add sensors to UC	Worked with PH/MK worked several days and spent approximately 4 hrs total.	Paul Horigan	2/1/21	Completed
2/1/21	13488	PS D - DPW Stormwater Pump Station	Set up 6 inch port pump	AV, ES, KA, BB set up 6inch portable pump in the event needed at the station. Set up for auto start on floats.	Aram Varjarbedian	2/1/21	Completed
2/2/21	13489	RAS Pump 2	low output flow	LOTO, pull rotating assy and clear debris/rags. AV and BB	Aram Varjarbedian	2/2/21	Completed
2/2/21	13490	Building Flood Conrtol	Lower door hinge bearing is bad on door 7	No	Prev. Maint. Tablet	2/2/21	In Process
2/2/21	13495	DPW Support	Ocean Ave flooding - requested assistance by Town	Spent approx 6 hrs transport and set up of 2 6-inch trash pumps and hoses to pump flooded areas at Ocean Ave. AV, BB, ES, KA. Per request of the town. 0	Aram Varjarbedian	2/2/21	Completed
2/3/21	13493	Portable Diesel Pump 6A Thompson 6" 900 - 1000 gpm	running erratically	change fuel filters [2] reprime and restart at job site. AV and JS	Aram Varjarbedian	2/3/21	Completed
2/3/21	13496	DPW Support	Ocean Ave area assistance	Move pumps and hoses per request of Town - Ocean Ave and Main Street vault areas to continue pumping flooded areas. Monitor and fuel up as needed. Many trips up there throughout the day. Deliver hoses for DPW. AV, BB, ES, JS.	Aram Varjarbedian	2/3/21	Completed
2/4/21	13492	Influent Pump 4	Volute clean out cover rotted through	Completed	Jody St. George	2/4/21	Completed
2/4/21	13491	31 - WW Headworks	Install drain pipe to floor and hang garden hose	Completed	Jody St. George	2/4/21	Completed
2/4/21	13497	DPW Support	Ocean Ave area emerg pumping	Check and monitor pumping as needed for 6 inch trash pumps in Ocean Ave area. Limited checks of area, as the DPW was overseeing MHD and pumping, moving pumps, etc AV, BB, ES.	Aram Varjarbedian	2/4/21	Completed
2/6/21	13494	DPW Support	collect all hoses from Ocean Ave area	JB and ES collect all suction and dischg hoses from Ocean Ave area. Drain, roll up, load onto trailer and bring back to plant and store away. snowstorm forecasted for following day.	Joe Basler	2/6/21	Completed
2/7/21	13498	Portable Equipment	Old portable gen in yard test run.	Pump out containment area water, insp generator, chk oil , no load test run for approx 20 min. (E.t. 248.6)	Aram Varjarbedian	2/7/21	Completed
2/10/21	13499	Plant Water Pump 2	pump will not run	AV and KA insp and found rot assy jammed. We were able to free up. Test run, amps normal and leave on line at 50hz.	Aram Varjarbedian	2/10/21	Completed

Corrective Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/17/21	13500	33 - WW Primary Treatment	scum tank full of grease	AV, ES, KA set up vac truck with 6 inch flex hose to pri scum tank. Vacuum out grease and clear backed scum trough in PC #2	Outside Contractor	2/17/21	Completed
2/17/21	13501	PS 5 Wet Well	wet well needs cleaning	AV, KA, and Hoadley vac truck clean wetwell and manhole in front of the pump station. A lot of grease and grease balls. Transducer could not be removed from stilling pipe. Pull aerator and clean also.	Aram Varjarbedian	2/17/21	Completed
2/18/21	13502	23 - WW Pump Stations	Bypassdrain at PS1, mid level, leaking from gasket	Ph, Mike and jody	Jody St. George	2/18/21	In Process
2/18/21	13503	30 - WW Treatment Plant - General	dump pit needs cleaning	since the landfill could not take the PS5 grease from cleaning, the material was taken in at the plant. Cleaned out to 2yd dumpster. Washdown completed.. AV and JB	Joe Basler	2/18/21	Completed
2/22/21	13505	Operations Building	Mtce shop lighting	Jody S and AV repl 8 ft flour with new clip/socket, ballast and LED flour bulbs	Aram Varjarbedian	2/22/21	Completed
2/22/21	13506	Operations Building	basement area	replace ballasts in 3 fixtures, and install 8 ft LED bulbs in two fixtures, and 4 ft flour bulbs in three fixtures	Jody St. George	2/22/21	Completed
2/22/21	13504	Operations Building	lighting	repl burnt clips, ballast and install new LED FLUOR bulbs in control room fixture - Middle fixture	Aram Varjarbedian	2/16/21	Completed
2/24/21	13507	PS 3 Pump 2	Remove clog from check valve and pump	Completed. Increased pumping by 150 gpm		2/24/21	Completed
2/24/21	13508	PS 3 Pump 1	Remove small rag from check valve	Completed		2/24/21	Completed
2/24/21	13509	PS 9 Sump Pump	Replace faulty check valve	Completed		2/24/21	Completed
2/25/21	13510	Primary Clarifier 1	Install railing between scum pit and clarifier	Completed	Jody St. George	2/25/21	Completed

Inspections

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/1/21	12413	Backflow Preventer - Generator Room	Backflow Preventor Testing (Generator Room) - Semi Annual	Tested and passed by water supplier	Outside Contractor	10/14/20	Completed
2/2/21	11879	Universal waste area	Universal Waste Storage Area Inspection		SEMS TABLET #2	6/9/20	Completed
2/2/21	12649	Universal waste area	Universal Waste Storage Area Inspection		Prev. Maint. Tablet	11/10/20	Completed
2/2/21	12346	Universal waste area	Universal Waste Storage Area Inspection	Completed with next pm	Prev. Maint. Tablet	9/8/20	Completed
2/4/21	13128	Truck 1 - 2010 Dodge Ram 1500	Monthly vehicle inspection on do-Forms	Circle check vehicle check fluids add 1.5 quart oil topped windshield fluid	Eric Sutton	2/1/21	Completed
2/4/21	13138	Truck 2 - 2009 Chevy 2500 HD	Monthly vehicle inspection on do-Forms	Circle check vehicle checked fluids added 2 quart oil topped windshield wash fluid	Eric Sutton	2/1/21	Completed
2/4/21	13146	Truck 3 - 2015 Chevy 3500 HD	Monthly vehicle inspection on do-Forms	Circle check vehicle checked fluids added 1 quart oil topped windshield fluid	Eric Sutton	2/1/21	Completed
2/7/21	13147	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms	Insp check done, no issues. 116675 mileage.	Aram Varjarbedian	2/1/21	Completed
2/11/21	13140	Universal waste area	Universal Waste Storage Area Inspection	Area check ok	Aram Varjarbedian	2/9/21	Completed

Inspections

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/11/21	13139	Waste Oil Storage	Waste Oil Area Inspection	Area check ok	Aram Varjarbedian	2/9/21	Completed
2/11/21	13155	AST- Above Ground Storage tank for diesel fuel	Monthly Inspections of Tanks	Insp all equipment. 2248 gal	Aram Varjarbedian	2/1/21	Completed
2/20/21	13025	Eyewash Stations	WWTF Eyewash Inspection - Weekly	Tested and inspected all emergency eye wash and shower stations throughout the plant.	Ryan Holman	2/14/21	Completed

Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/1/21	12877	Influent Sluice Isolation Gate	Weekly operate through full range	Exerc,still sticks at 38%	Bill Boornazian	1/27/21	Completed
2/1/21	12969	High level floats	Weekly High Float Alarm test	Done on 1/29	Eric Sutton	1/24/21	Completed
2/1/21	12977	Generators "All Pump Station"	Generator Weekly - Test Run no load	Done on 1/25 & 1/26	Eric Sutton	1/25/21	Completed
2/1/21	12936	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly	Done	Paul Horigan	1/27/21	Completed
2/1/21	12940	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly	Done	Paul Horigan	1/27/21	Completed
2/1/21	12930	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly	completed	Paul Horigan	2/1/21	Completed
2/1/21	12926	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly	Completed as requested	Paul Horigan	1/27/21	Completed
2/1/21	12916	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly	Completed as requested	Paul Horigan	1/27/21	Completed
2/1/21	12920	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly	Completed as requested	Paul Horigan	2/1/21	Completed
2/1/21	13157	Generators "All Pump Station"	Generator Weekly - Test Run no load		Paul Horigan	2/1/21	Completed
2/1/21	12950	PS Trailer Mounted Generator	Generator Weekly - Test Run no load	Done at pump station. No issues	Paul Horigan	1/25/21	Completed
2/2/21	13034	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load	Weekly exercise no load ok	Aram Varjarbedian	2/1/21	Completed
2/2/21	13059	Effluent Pumps	Effluent pumps - Annual	Pump/ notors are not pulled unless there is a problem	Paul Horigan	2/1/21	Completed
2/2/21	12803	Building Flood Conrtol	Semi Annual PM of Flood Gates	Done by Paul H. Completed as requested, all doors work fine, bearings on door 7 are bad, will create work order	Prev. Maint. Tablet	12/17/20	Completed
2/4/21	13056	Aeration Tank 1 Oxygen Probe	AT #1 DO Probe Clean and Calibrate - Monthly		Joe Basler	2/2/21	Completed
2/4/21	13057	Aeration Tank 3 Oxygen Probe	AT #3 DO Probe Clean and Calibrate - Monthly		Joe Basler	2/2/21	Completed
2/5/21	12902	Primary Sludge Pump 2	Monthly Check Pump Couplings		Jody St. George	1/6/21	Completed
2/5/21	12901	Primary Sludge Pump 1	Monthly Check Pump Couplings		Jody St. George	1/6/21	Completed
2/5/21	12895	RAS Pump 1	Monthly Check Pump Couplings		Jody St. George	1/6/21	Completed
2/5/21	12896	RAS Pump 2	Monthly Check Pump Couplings		Jody St. George	1/6/21	Completed
2/5/21	12903	Sludge Transfer Pump 1	Monthly Check Pump Couplings		Jody St. George	1/6/21	Completed
2/5/21	13023	Portable Generator - Honda	Portable Generator Inspection - Monthly	Started up and run. No issues	Paul Horigan	2/3/21	Completed

Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/5/21	12904	Sludge Transfer Pump 2	Monthly Check Pump Couplings		Jody St. George	1/6/21	Completed
2/5/21	12860	Portable Generator - Honda	Portable Generator Inspection - Monthly		Jody St. George	1/6/21	Completed
2/5/21	13045	Influent Pump 1	Monthly Check Pump Couplings	Completed as requested	Jody St. George	2/3/21	Completed
2/5/21	13047	Influent Pump 3	Monthly Check Pump Couplings	Completed as requested	Jody St. George	2/3/21	Completed
2/5/21	13048	Influent Pump 4	Monthly Check Pump Couplings	Completed as requested	Jody St. George	2/3/21	Completed
2/5/21	13049	Influent Pump 5	Monthly Check Pump Couplings	Completed as requested	Jody St. George	2/3/21	Completed
2/5/21	13072	Primary Sludge Pump 1	Monthly Check Pump Couplings	Completed as requested	Jody St. George	2/3/21	Completed
2/5/21	13062	RAS Pump 1	Monthly Check Pump Couplings	Completed as requested	Jody St. George	2/3/21	Completed
2/5/21	13063	RAS Pump 2	Monthly Check Pump Couplings	Completed as requested	Jody St. George	2/3/21	Completed
2/5/21	13073	Primary Sludge Pump 2	Monthly Check Pump Couplings	Completed as requested	Jody St. George	2/3/21	Completed
2/5/21	13066	RAS Pump 3	Monthly Check Pump Couplings	Completed as requested	Jody St. George	2/3/21	Completed
2/5/21	13069	RST Feed Pump 2	Monthly Check Pump Couplings	Completed as requested	Jody St. George	2/3/21	Completed
2/7/21	13142	Chlorine probe AT1	Weekly calibration	Cal check ok,no changes needed	Aram Varjarbedian	2/1/21	Completed
2/7/21	13144	Chlorine probe AT1	Change electrolyte	No changes made	Aram Varjarbedian	2/1/21	Completed
2/7/21	13145	Chlorine probe AT1	ATI, change membrane	Working well . No membrane chg	Aram Varjarbedian	2/1/21	Completed
2/7/21	13030	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load	AV & KA insp, check oil ok, no load test. 231..7 hrs	Aram Varjarbedian	2/1/21	Completed
2/9/21	13054	Secondary Clarifier 1	Clean Launder Screens - Quarterly	Insp ok. No screens in laundet	Aram Varjarbedian	2/1/21	Completed
2/9/21	13055	Secondary Clarifier 2	Clean Launder Screens - Quarterly	Screens are clean, insp ok.	Aram Varjarbedian	2/1/21	Completed
2/9/21	13040	Influent Sluice Isolation Gate	Weekly operate through full range	Operated for flow shutdown at 830am closed it , and at 12pm opened incrementally to fully open by 330pm.	Aram Varjarbedian	2/3/21	Completed
2/10/21	13046	Influent Pump 2	Monthly Check Pump Couplings	Pump disassembled for mech seal work AV and JS. Remained out of service until further repairs completed.	Aram Varjarbedian	2/3/21	Completed
2/11/21	13103	PS 4 Generator	PS #4 Generator Inspection and Load Test - Monthly	Completed as requested; needs to have mcc looked at when under load, breaker m Switches back and forth	Paul Horigan	2/3/21	Completed
2/11/21	13104	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly	Completed with load test	Paul Horigan	2/3/21	Completed
2/11/21	13102	PS 3 Generator	PS #3 Generator Inspection and Load Test - Monthly	Completed as requested	Paul Horigan	2/3/21	Completed
2/11/21	13098	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly	This was done during load test,	Paul Horigan	2/3/21	Completed
2/11/21	13093	PS 1 Generator	PS #1 Generator Inspection and Load Test - Monthly	Completed as requested	Paul Horigan	2/3/21	Completed
2/11/21	13094	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly	Completed with load test	Paul Horigan	2/3/21	Completed

Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/11/21	13068	RST Feed Pump 1	Monthly Check Pump Couplings		Jody St. George	2/3/21	Completed
2/11/21	13112	PS 5 Generator	PS #5 Generator Inspection and Load Test - Monthly	Completed as requested	Paul Horigan	2/3/21	Completed
2/11/21	13108	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly	Completed with load test pm	Paul Horigan	2/3/21	Completed
2/11/21	13122	PS 6 Generator	PS #5 Generator Inspection and Load Test - Monthly	Completed as requested	Paul Horigan	2/3/21	Completed
2/11/21	13118	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly	Completed with load test pm	Paul Horigan	2/3/21	Completed
2/11/21	13095	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly	Completed as requested	Paul Horigan	2/10/21	Completed
2/11/21	13099	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly	Completed as requested	Paul Horigan	2/10/21	Completed
2/11/21	13105	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly	Completed as requested	Paul Horigan	2/10/21	Completed
2/11/21	13109	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly	Completed as requested	Paul Horigan	2/10/21	Completed
2/11/21	13119	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly	Completed as requested	Paul Horigan	2/11/21	Completed
2/11/21	13156	Generators "All Pump Station"	Generator - Monthly Load Test		Paul Horigan	2/7/21	Completed
2/11/21	13113	PS 9 Generator	PS #9 Generator Inspection and Load Test - Monthly	Completed as requested	Paul Horigan	2/3/21	Completed
2/11/21	13114	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly	Completed with load pm	Paul Horigan	2/3/21	Completed
2/11/21	13115	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly	Completed as requested	Paul Horigan	2/10/21	Completed
2/19/21	13116	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly	Tested good all systems normal	Paul Horigan	2/17/21	Completed
2/19/21	13120	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly	Tested normal no issues found	Paul Horigan	2/17/21	Completed
2/19/21	13110	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly	Completed as requested	Paul Horigan	2/17/21	Completed
2/19/21	13096	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly	Completed as requested	Paul Horigan	2/17/21	Completed
2/19/21	13100	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly	Done	Paul Horigan	2/17/21	Completed
2/19/21	13106	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Paul Horigan	2/17/21	Completed
2/19/21	13158	Generators "All Pump Station"	Generator Weekly - Test Run no load	Completed all pump station gen inspections	Paul Horigan	2/15/21	Completed
2/20/21	13149	High level floats	Weekly High Float Alarm test	Tested all plant alarms. RH/JB	Ryan Holman	2/14/21	Completed
2/21/21	13143	Chlorine probe ATI	Weekly calibration	On target, no adjustments needed	Aram Varjarbedian	2/15/21	Completed
2/24/21	13162	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY	Completed as requested, greased, very little condensate	Paul Horigan	2/21/21	Completed
2/24/21	13161	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY	Completed with the next pm	Paul Horigan	2/14/21	Completed
2/25/21	13036	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load	Completed as requested	Paul Horigan	2/22/21	Completed
2/25/21	13032	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load	Completed as requested	Paul Horigan	2/22/21	Completed
2/25/21	13159	Generators "All Pump Station"	Generator Weekly - Test Run no load		Paul Horigan	2/22/21	Completed

Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
2/25/21	13031	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load	Completed as requested	Paul Horigan	2/15/21	Completed
2/28/21	13097	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly	Weekly generator no load test. KA	SEMS TABLET #2	2/28/21	Completed
2/28/21	13101	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly	Weekly no load generator test KA	SEMS TABLET #2	2/28/21	Completed
2/28/21	13107	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly	Weekly no load generator test	SEMS TABLET #2	2/28/21	Completed
2/28/21	13111	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly	Weekly no load generator test KA	SEMS TABLET #2	2/28/21	Completed
2/28/21	13121	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly	Weekly no load generator test KA	SEMS TABLET #2	2/28/21	Completed
2/28/21	13117	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly	Weekly no load generator test KA	SEMS TABLET #2	2/28/21	Completed