



woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

HULL WATER POLLUTION CONTROL FACILITY

JULY
2023

MONTHLY OPERATING REPORT



NPDES NO. MAG590037

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1 EXECUTIVE SUMMARY

This Monthly Operating Report provides a summary of the pertinent information and activities that occurred at Hull WPCF during the month of July 2023.

- No lost-time incidents for the month of July.
- There were 141 effluent samples taken in July.
- There were two after-hours alarm calls that required a response by W&C staff.
- The Asset Management Accounts summaries for contract year #9 is attached- the latest revision date is 7/7/2023.
- There were no calls from any residents for E-One grinder pump issues.
- W&C's O&M continued its efforts to support the various ongoing engineering projects and upgrades at the plant- see the projects section.
- The weekly BioBot Covid-19 wastewater sampling & monitoring program continues to be done by W&C staff.

***Mike Sullivan – Plant Manager
Town of Hull WPCF
8/31/2023***

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



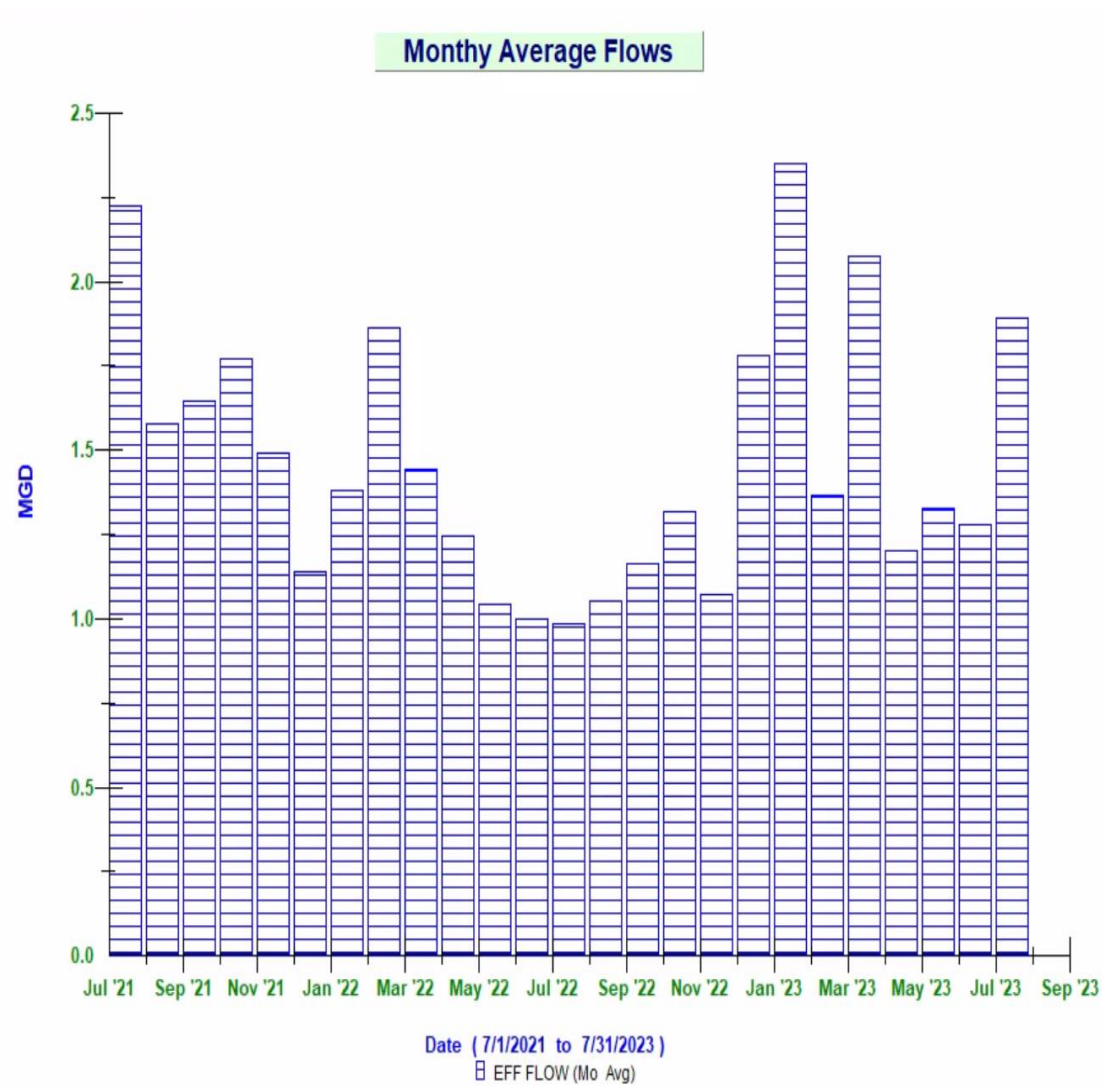
Average Daily Flows and Loadings for *JULY 2023*

Month / Year	Eff Flow	Inf Flow	Inf BOD	Inf TSS	Eff BOD	EFF TSS
	MGD	MDG	LBS	LBS	LBS	LBS
Jul '21	2.22	2.20	1,555.97	3,099.06	66.86	224.58
Jul '22	0.99	1.04	1,136.53	1,805.21	42.06	107.63
Jul '23	1.89	1.93	1,983.81	3,004.44	53.93	172.94

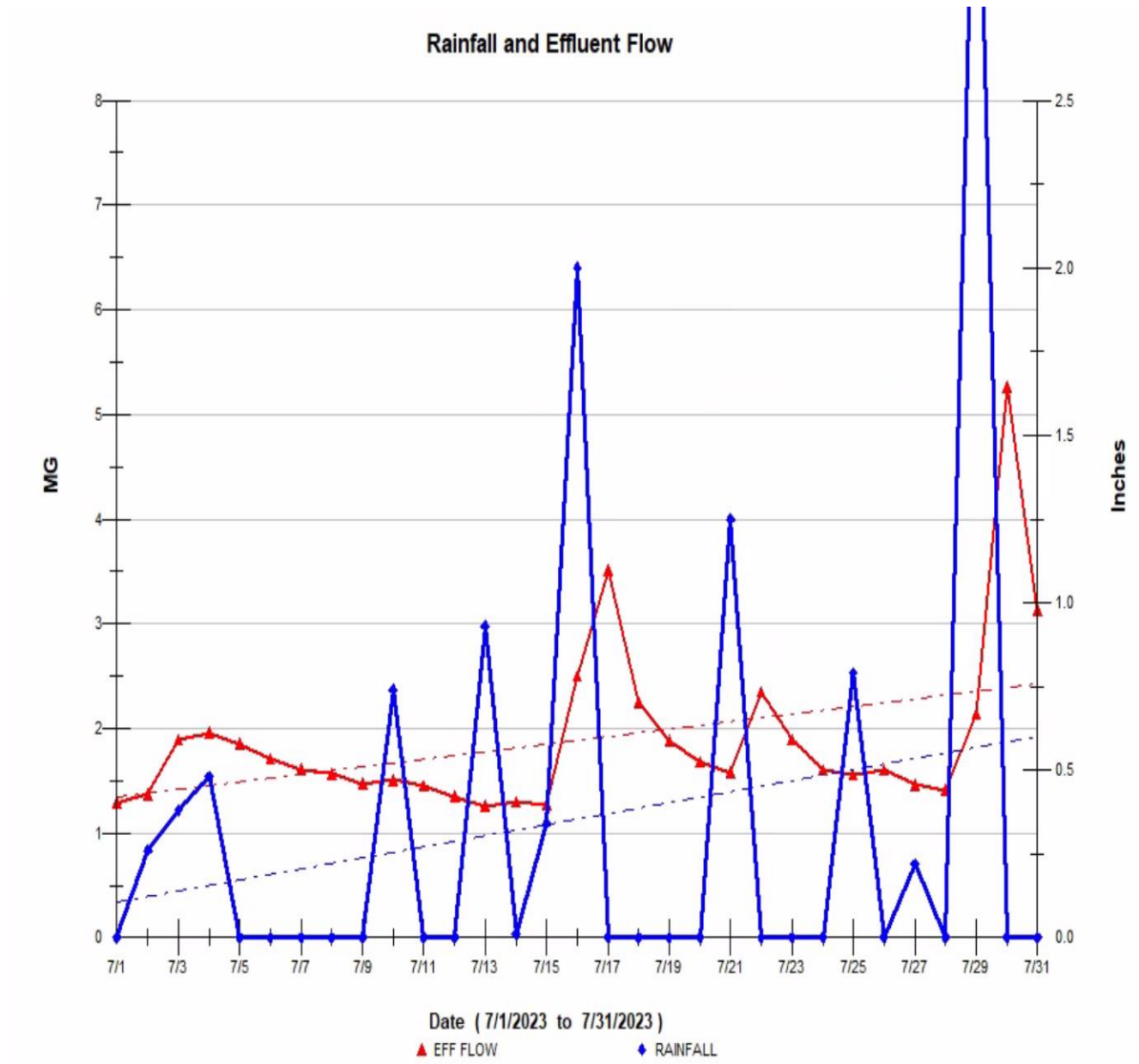
* On-Going -the existing influent flow meters are strap-on doppler flow meters, and the existing pipe condition prevents getting a strong signal. An area velocity meter in the aeration tank inlet channel is used as well as the headworks influent Parshall Flume meter to monitor influent flows. All reported loadings are based on the effluent flow meter [new mag meter April 2021]. All meters are tied into the Scada system so that influent flows can be monitored.

AVERAGE EFFLUENT MONTHLY FLOWS – 2+ YEAR COMPARISON

The monthly average effluent flow for July was 1.89 MGD, a bit more than June’s 1.28 MGD. The total precipitation for July was 11.02 inches, well more than June’s 4.24 inches, yet with no impact on the plant’s process and conditions. The graph below shows the 2-plus year summary of the monthly average flows.



MONTHLY SUMMARY OF RAINFALL AND THE INFLUENCE ON EFFLUENT FLOWS



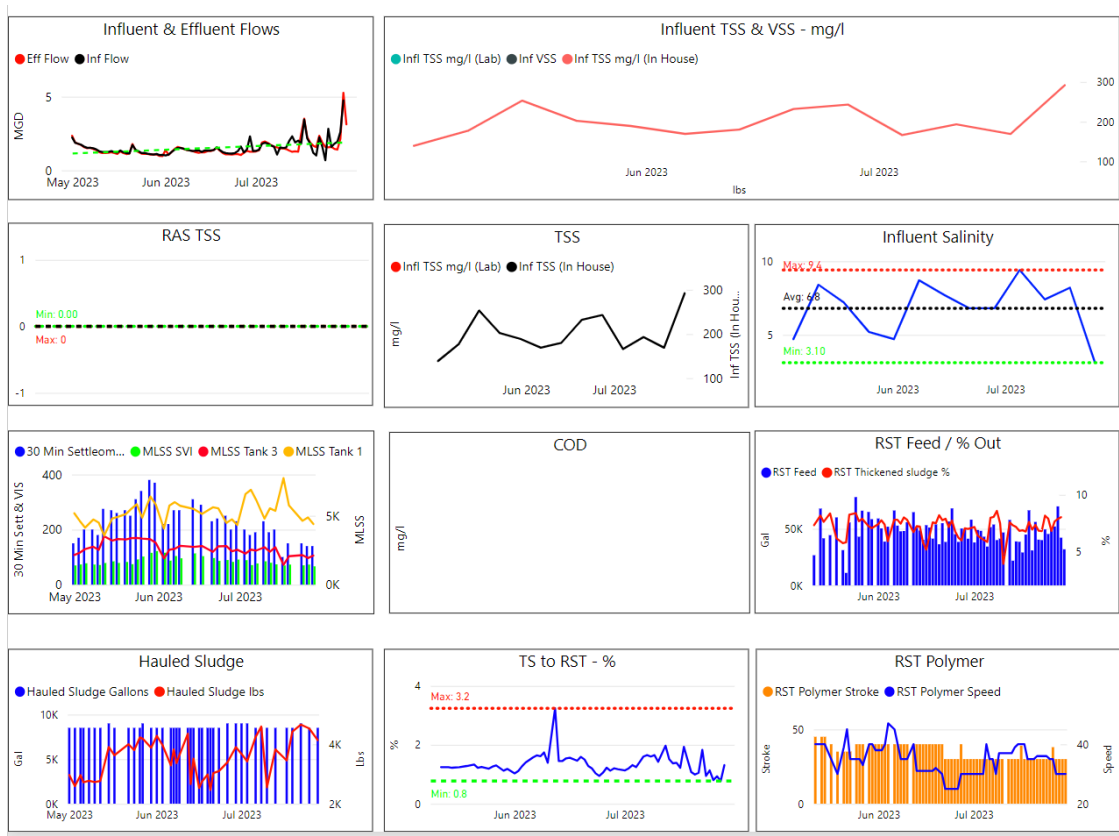
This graph shows the days where precipitation occurred [rainfall] [Blue Peaks].

3 COMPLIANCE



➤ Plant Effluent

- The plant process conditions throughout July were steady.

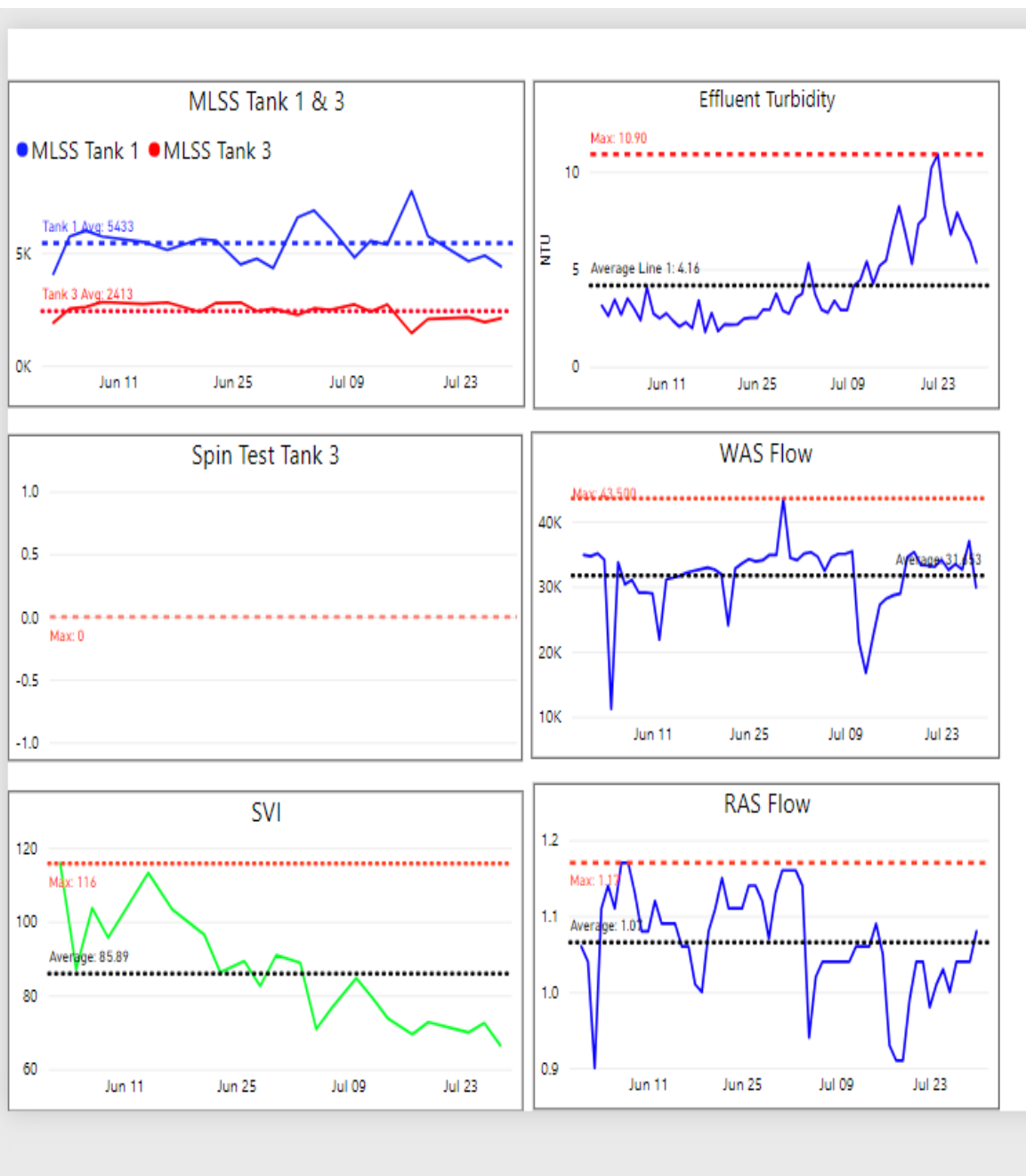


Monthly Process Summary graphs from power BI: May-June-July 2023.

➤ SECONDARY PROCESSES – POWER BI GRAPHS



2-month period ending on 7/31/2023.



Additional Power BI Graphs showing trends of various processes – 6/1/2023- 7/31/2023.

4 KEY PERFORMANCE INDICATORS



<u>Permit Compliance</u>												
Parameter Info			Permit Requirements					Results				
Parameter	Hach WIMS Variable #	Units	Daily Max	Daily Min	Weekly Avg Max	Monthly Avg Max	Freq	Period Avg	Period Min	Period Max	# of Samples	# of Violations
Eff TSS	104 / 999081	MG/L	50		45	30	1 X Week	11.2	7.8	13.5	4	0
Eff TSS	184	LBS			1152	768	1 X Week	172.9	94.3	253.3	4	0
% TSS Rem	208	%		85			1 X Month	94.5			1	0
Eff BOD	108	MG/L	50		45	30	1 X Week	3.2	3.0	3.3	2	0
Eff BOD	185	LBS			1152	768	1 X Week				0	0
% BOD Rem	207	%		85			1 X Month	97.6			1	0
Eff Chlorine	142	MG/L	1			0.7	3 X Day	0.26	0.00	0.74	87	0
Eff Fecal	111	#/100 ML	260			88	1 X Week	10.0	10.0	10.0	9	0
Eff pH	136	SU	8.5	6.5			1X Daily	6.8	6.5	7.2	29	0
Enterococci	255	#/100 ML	276			35	1 X Week	26	10	90	3	0

There were 141 effluent samples taken in July.

➤ EFFLUENT COMPLIANCE POWER BI GRAPHS

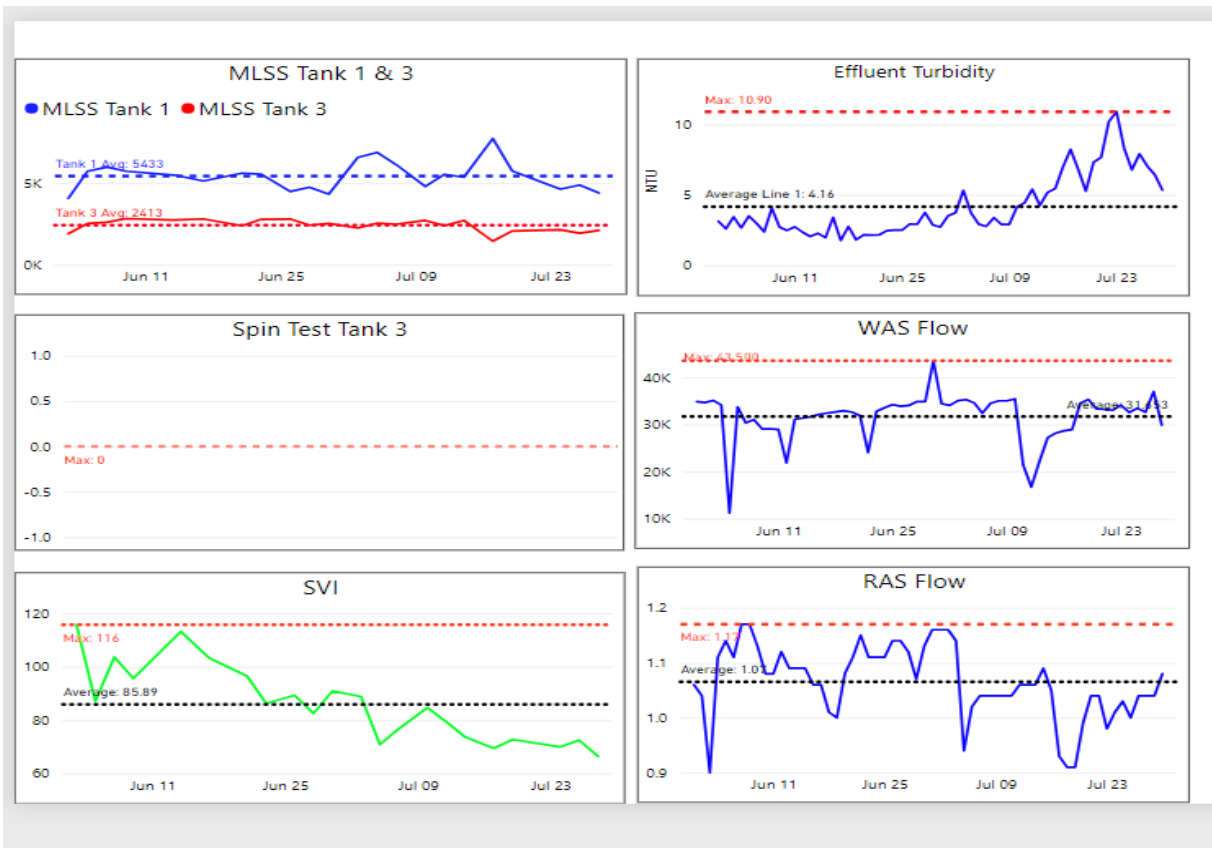


The quality of the effluent was satisfactory, and the turbidity (NTU) levels were normal.

Sewage Gallons Treated vs Sludge Disposed

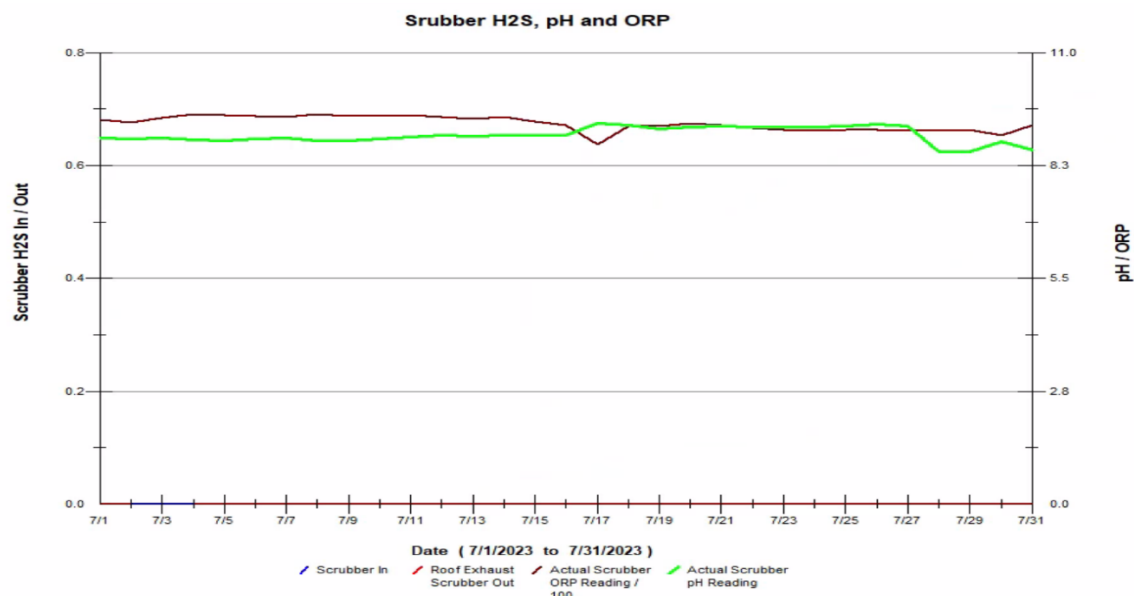
Month	Effluent Treated, MG	Sludge Disposed, Gals
July 2021	69	80,000
July 2022	30.6	60,000
July 2023	58.7	95,000

➤ **Additional Power BI graphs for sludge solids for 3-month period ending 7/31/2023.**



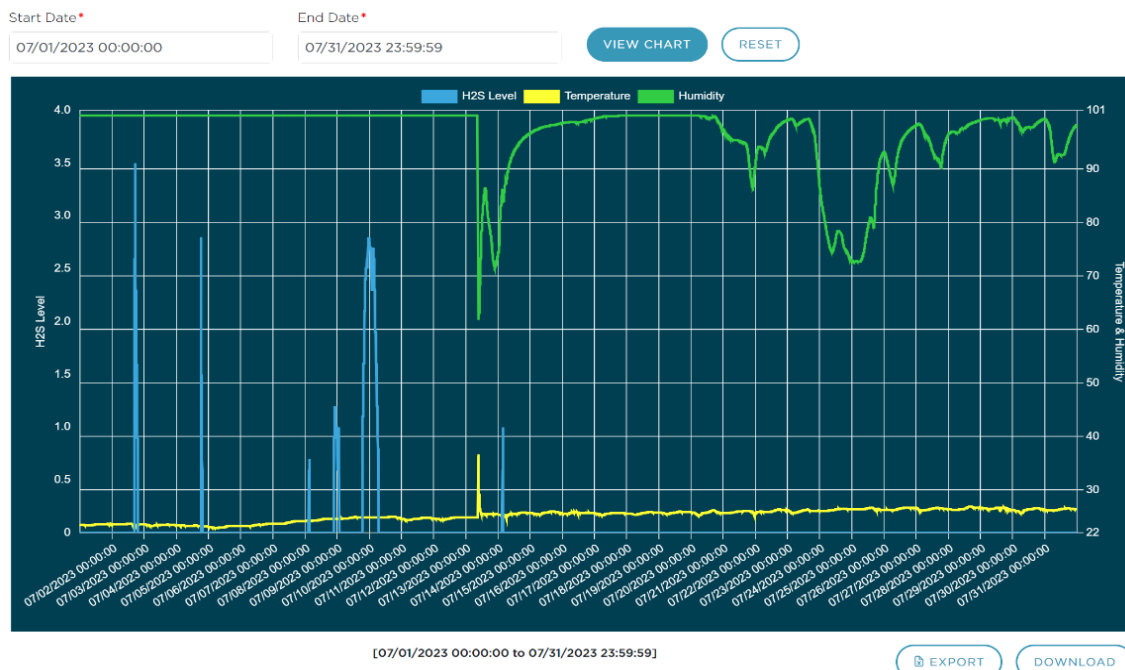
The Bioxide system was on, and the feed rates increased as the warmer summer temperatures set in. Monthly graphs are attached below, and the daily average Bioxide use for July was about 73 gallons per day.

- The “In-Pipe” bacteria containers in the collection system manholes were changed out on July 11th and 25th.
- Slight changes - Hydrogen sulfide (H₂S) monitoring units were recording and trending on the odor scrubber. [inlet and outlet]. Increased scrubber fan speed slightly. See graph below:



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

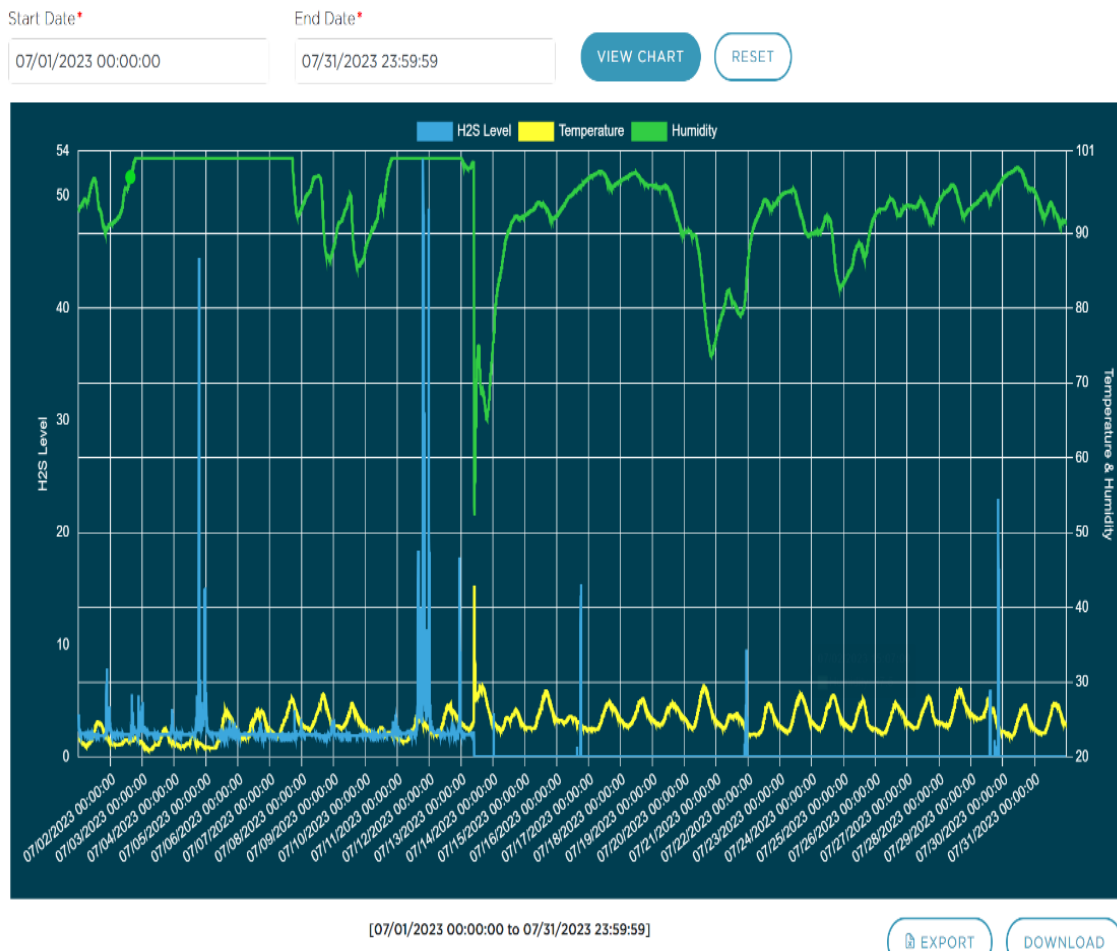
XYZ – Nantasket Ave [closest to plant]



The odor data logging unit at XYZ monitoring the overall H2S levels close to the plant. From the graph, the daily pattern of H2S levels see a rise in the mid-afternoon until late evening/early AM.

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

Pump station #3 - H2S is monitored at the end of the force main in the manhole at Nantasket Ave & Water Street. Bioxide is added to allow excess nitrate in the sewage system to treat the additional H2S added from other parts the system – such as PS #4, contributions from lines feeding the interceptor - PS #5, PS #6, PS #9, Spinnaker Island, etc., all the way to the wastewater plant. H2S levels through July were normal, with some summer heat, and adjustments for more Bioxide feed were made. The average daily use of Bioxide in the collection system through July was 73 gallons per day.



Nantasket Ave

5 MAINTENANCE SUMMARY

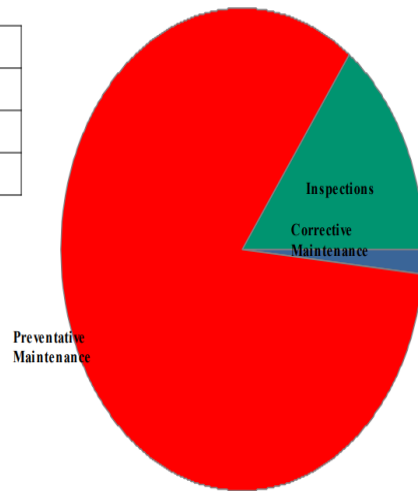


Maintenance History Report Hull Wastewater

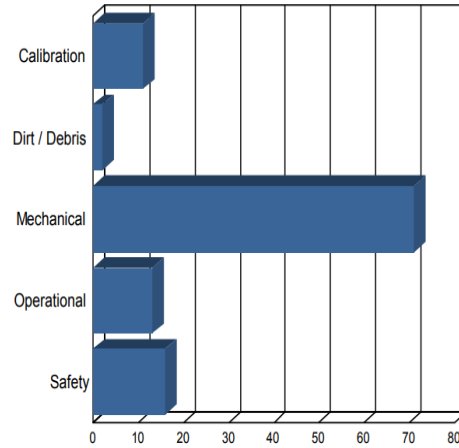
Start Date: 7/1/2023
End Date: 7/31/2023

Corrective Maintenance	2
Inspections	17
Preventative Maintenance	94
Total Work Orders	113

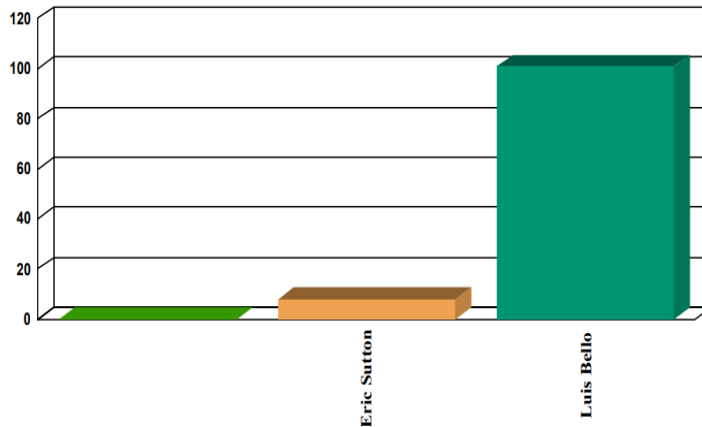
Work Order History By Type



Work Order History by Reason



Work Order History By Employee



Employee	WO Count	Labor Hours
Eric Sutton	8	1
Luis Bello	101	0
Unassigned	4	4
Totals	113	5

6 SAFETY



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

- No lost time incidents were reported for July.
- Monthly PM's - emergency eyewash and shower inspections, fire extinguishers, and emergency lighting inspections completed.
- Monthly calibrations were performed on all MX4 & Max XT11 gas meters.
- W&C's Pure Safety topic for July was respirators.
- The monthly W&C SPARKS safety meeting was held on July 27, including a review of W&C's monthly "Lessons Learned!" from June.
- W&C's monthly safety inspection checklist for the plant was completed.

7 STAFF DEVELOPMENT

Training is an important part of any operation to ensure employee health and safety is assured, quality standards are supported, staff skills are improved, career opportunities become available, and higher productivity is achieved.

Listed is a general outline of training that the staff received over the course of the month:

- All staff completed W&C's monthly Pure Safety training module and our monthly safety meeting was held on July 27- topics discussed were heat, heat stress, proper hydration, and attire for summer working. Staff also reviewed the "near-miss" incidents occurring at all W&C projects during the month of June in "Lessons Learned!"
- Regular, usually daily, safety briefings, operational updates & process control discussions, pump station operations, Dig Safes, and the Phase 2 construction project work scope ongoing.

Staffing related items:

- Plant continued to have weekend coverage supplemented with part-time staffers Roger Boltrushek and Ryan Holman, in addition to Mike S, Joe B, Luis B, and Eric S.
- O&M Specialists Paul Horigan and Jody St George continue to assist as needed with plant O&M projects.
- Newly hired operator Clyde Lewis started with W&C on July 25- he comes to the project with a Massachusetts Grade V wastewater license.

8 COLLECTION SYSTEM

A. WET WELL CLEANING

The actual schedule for wet well cleaning: May 2023 to April 2024:

(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, 2023								
June, 2023	X			X				
July, 2023								
Aug., 2023								
Sept. 2023								
Oct., 2023								
Nov, 2023								
Dec., 2023								
Jan., 2024								
Feb., 2024								
March 2024								
April 2024								

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

B. COLLECTION SYSTEM MAINTENANCE

Collection system work is being documented and tracked in Utility Cloud [UC] and a summarized report for September has been included as an attachment with the Monthly Operating Report.

Woodard & Curran assisted/conducted camera work and sewer system support in the Hull collection system at the following areas during the month of September. Ongoing backup and blockage call outs requiring an increase in labor and time to support. Below summarizes W&C's efforts at the various call out locations.

- All pump station back-up power emergency generator testing- consisting of a weekly no load running and a monthly loaded running.
- All Pump station wet wells were inspected in July- the monthly station inspections are completed and combined with the monthly station PM's.
- Upload new or updated tie-cards to the UC as required.
- Dig-Safe mark outs are completed throughout the Town of Hull as needed to assist and facilitate scheduled and emergency gas repairs, broken water mains, roadway paving projects, and other residential and town projects. All are listed in the UC summary.

9 PROJECT MANAGEMENT & ADMINISTRATION



A. ON-GOING PROJECTS AND SUPPORT ITEMS

July updates:

- Phase 1 construction work in the operations building is nearly complete with just some minor punch list tasks being addressed. Phase 2 lead contractor Barletta Engineering of Canton, MA has been onsite periodically- at this time they are still waiting on parts to arrive- such as electrical MCCs, influent pumps, and aeration parts for tanks 2 & 4.
- On July 6, the emergency generator at PS # 4 would not start for its weekly “no load” test running. It was determined by W&C’s contracted maintenance provider South Shore Generator (SSG) that the battery needed to be replaced, as the engine’s alternator and the charging system checked out fine.
- Upon July 26 SSG was at PS #1 to install a new fuel diaphragm on the engine, which pressurizes the air and natural gas fuel mixture. The engine’s performance and idling was questionable during weekly no load runs and the diaphragm was determined to be failing.
- On July 11 plumbing contractor Hoadly was called in to replace a broken sludge feed line to the rotary sludge thickener (RST).
- Sunday evening July 16 the plant saw a high flow rainstorm event bringing some ?? inches of rain. There were many high wet well alarms at pumps stations.
- On the 20th electrical contractor, Hi-Voltage was onsite to de-energize and disconnect influent pump # 2 which had failed during the high flows event on the 16-17th. The pump was pulled up and out and was taken to Blanchard’s in Whitman, MA for further assessment and rebuilding.
- Electrician Andy McKenzie was called onsite to install and re-program a new circuit board into the plant water system pump #1 VFD- variable frequency drive. The pump had failed on July 21st and Phase 2 electricians Annese already onsite were able to determine that the circuit board was compromised and needed replacement.
- Lt. Gibbons of the Hull Fire Dept was onsite to put a new 5-year life battery into the AED on the first floor foyer area.
- Concrete contractor “Xtreme Shotcrete” was at the plant to address some groundwater infiltration concerns. Using a fluid resin injection & expansion method, some substantial inflow

- was stopped in the lower-level influent pump room. There are also some areas of concern Shotcrete will address up on the roof,
- Industrial Pump Services of Tiverton, RI were at the D Street Pump Station on July 25. IPS comes every summer to remove both pumps at D Street for a full mechanical inspection and pressure power wash cleaning. This station's wet well fills up with storm runoff waters (not sewage!) from the neighborhood streets. These pumps run alternately to send the inflow waters out into the bay, or if inflows are high, they will run simultaneously to keep the wet well empty.
 - On the 16th Sunday evening into Monday there was a high flow rain event leading to several alarms for pump station wet well high-level alarms, W&C staff was at the plant until 1am after rain stopped and tide was outgoing. The treatment process was not affected and no SSOs occurred.
 - There was another high flow rain event on Saturday July 29th requiring a W&C staff member to stay overnight and monitor the plant and pump station conditions. Primary Clarifier #1 was opened for sewage storage and to take some of the inflows from the aeration tanks. During this event both pumps at the D Street station tripped simultaneously at 8:30 and 10:45 pm, and the pumps were promptly re-set. Electrician Hi-Voltage came in on Tuesday and determined that the circuit breaker panel bus was compromised. A new panel box, circuit breakers, and wiring was installed on Friday August 4.

Date	Asset ID	Asset Description	Asset Class	Name
7/13/2023 7:22	03-064	18 BAY VIEW ST	Hull Parcels	Sutton, Eric
7/31/2023 13:43	10-090	42 BEACON RD	Hull Parcels	Sutton, Eric
7/26/2023 12:59	12-083	10 W STREET	Hull Parcels	Sutton, Eric
7/13/2023 7:25	13-071	39 R STREET	Hull Parcels	Sutton, Eric
7/14/2023 11:49	14-006	7 H STREET	Hull Parcels	Sutton, Eric
7/14/2023 11:31	14-022	14 J STREET	Hull Parcels	Sutton, Eric
7/14/2023 11:33	14-039	21 J STREET	Hull Parcels	Sutton, Eric
7/13/2023 13:47	14-095	81 A CENTRAL AVE	Hull Parcels	Sutton, Eric
7/13/2023 14:22	15-005	47 H STREET	Hull Parcels	Sutton, Eric
7/14/2023 11:37	15-019	37 J STREET	Hull Parcels	Sutton, Eric
7/6/2023 12:23	15-065	245 BEACH AVE	Hull Parcels	Sutton, Eric
7/13/2023 14:03	15-086	251 BEACH AVE	Hull Parcels	Sutton, Eric
7/13/2023 14:15	16-036	23 G STREET	Hull Parcels	Sutton, Eric
7/14/2023 11:42	16-039-B	26 H STREET	Hull Parcels	Sutton, Eric
7/14/2023 11:45	16-041	20 H STREET	Hull Parcels	Sutton, Eric
7/14/2023 11:30	16-044	12 H STREET	Hull Parcels	Sutton, Eric
7/13/2023 13:42	16-073	6 G STREET	Hull Parcels	Sutton, Eric
7/13/2023 7:30	16-087	21 E STREET	Hull Parcels	Sutton, Eric
7/13/2023 13:30	16-093	20 F STREET	Hull Parcels	Sutton, Eric
7/13/2023 14:21	16-144-A	40 A H STREET	Hull Parcels	Sutton, Eric
7/13/2023 14:18	16-161	46 G STREET	Hull Parcels	Sutton, Eric
7/6/2023 11:00	16-171	35 F STREET	Hull Parcels	Sutton, Eric
7/13/2023 13:32	16-171	35 F STREET	Hull Parcels	Sutton, Eric
7/13/2023 13:52	17-034	59 A B STREET	Hull Parcels	Sutton, Eric
7/13/2023 13:54	17-038	67 B STREET	Hull Parcels	Sutton, Eric
7/27/2023 13:39	17-060	46 D STREET	Hull Parcels	Sutton, Eric
7/13/2023 7:29	17-076	76 D STREET	Hull Parcels	Sutton, Eric
7/13/2023 7:30	17-109	62 E STREET	Hull Parcels	Sutton, Eric
7/6/2023 11:03	17-130	74 F STREET	Hull Parcels	Sutton, Eric
7/31/2023 13:51	17-130	74 F STREET	Hull Parcels	Sutton, Eric
7/13/2023 13:59	21-005	131 BEACH AVE	Hull Parcels	Sutton, Eric
7/13/2023 8:04	21-011	162 SAMOSET AVE	Hull Parcels	Sutton, Eric
7/13/2023 8:06	21-067	105 MANOMET AVE	Hull Parcels	Sutton, Eric
7/20/2023 10:18	23-025	200 KINGSLEY RD	Hull Parcels	Sutton, Eric
7/31/2023 14:02	23-049	107 SAMOSET AVE	Hull Parcels	Sutton, Eric
7/13/2023 8:05	23-061	0 LINCOLN ST	Hull Parcels	Sutton, Eric
7/31/2023 14:03	23-061	0 LINCOLN ST	Hull Parcels	Sutton, Eric
7/13/2023 7:59	23-086	6 WARREN STREET	Hull Parcels	Sutton, Eric
7/12/2023 11:44	24-024	41 KENBERMA ST	Hull Parcels	Sutton, Eric
7/13/2023 7:52	24-024	41 KENBERMA ST	Hull Parcels	Sutton, Eric
7/13/2023 7:58	25-055	42 MASSASOIT AVE	Hull Parcels	Sutton, Eric
7/6/2023 11:14	25-101	29 MANOMET AVE	Hull Parcels	Sutton, Eric
7/13/2023 7:48	26-013	57 BATES ST	Hull Parcels	Sutton, Eric

7/13/2023 7:35 26-014	59 BATES ST	Hull Parcels	Sutton, Eric
7/13/2023 7:33 27-121	15 EDGEWATER RD	Hull Parcels	Sutton, Eric
7/13/2023 7:32 27-132	8 EDGEWATER RD	Hull Parcels	Sutton, Eric
7/13/2023 14:08 28-038	26 BELMONT ST	Hull Parcels	Sutton, Eric
7/13/2023 7:57 28-051	31 WALTHAM ST	Hull Parcels	Sutton, Eric
7/13/2023 7:54 29-031	83 EDGEWATER RD	Hull Parcels	Sutton, Eric
7/13/2023 7:34 29-054	58 EDGEWATER RD	Hull Parcels	Sutton, Eric
7/13/2023 10:40 32-063	66 CLIFTON AVE	Hull Parcels	Sutton, Eric
7/13/2023 10:52 32-068	54 CLIFTON AVE	Hull Parcels	Sutton, Eric
7/13/2023 11:00 32-070	48 CLIFTON AVE	Hull Parcels	Sutton, Eric
7/14/2023 11:03 33-104	115 BAY STREET	Hull Parcels	Sutton, Eric
7/14/2023 9:31 35-003	93 HAMPTON CIRCLE	Hull Parcels	Sutton, Eric
7/13/2023 7:55 35-032	19 ISLAND VIEW RD	Hull Parcels	Sutton, Eric
7/14/2023 10:03 35-100	15 FAIRMOUNT WAY	Hull Parcels	Sutton, Eric
7/13/2023 7:55 36-012	33 BAY STREET	Hull Parcels	Sutton, Eric
7/6/2023 11:38 36-017	47 BAY STREET	Hull Parcels	Sutton, Eric
7/27/2023 11:57 36-017	47 BAY STREET	Hull Parcels	Sutton, Eric
7/14/2023 9:48 36-038	23 HAMPTON CIRCLE	Hull Parcels	Sutton, Eric
7/20/2023 10:13 36-104	11 MAYFLOWER AVE	Hull Parcels	Sutton, Eric
7/14/2023 9:54 36-148	28 HAMPTON CIRCLE	Hull Parcels	Sutton, Eric
7/14/2023 9:58 36-166	55 HAMPTON CIRCLE	Hull Parcels	Sutton, Eric
7/14/2023 9:36 36-174	71 HAMPTON CIRCLE	Hull Parcels	Sutton, Eric
7/14/2023 9:35 36-176	0 HAMPTON CIRCLE	Hull Parcels	Sutton, Eric
7/6/2023 7:15 39-098	69 PARK AVE	Hull Parcels	Sutton, Eric
7/27/2023 13:51 48-011	19 STATE PARK RD	Hull Parcels	Sutton, Eric
7/27/2023 14:17 48-015	42 STATE PARK RD	Hull Parcels	Sutton, Eric
7/27/2023 14:09 48-019	1 LONG BEACH AVE	Hull Parcels	Sutton, Eric
7/27/2023 14:06 48-020-A	9 LONG BEACH AVE	Hull Parcels	Sutton, Eric
7/27/2023 13:52 48-029	16 STATE PARK RD	Hull Parcels	Sutton, Eric
7/27/2023 14:02 49-065	5 STATE PARK RD	Hull Parcels	Sutton, Eric
7/27/2023 14:01 49-066	7 STATE PARK RD	Hull Parcels	Sutton, Eric
7/27/2023 13:55 49-067	9 STATE PARK RD	Hull Parcels	Sutton, Eric
7/28/2023 14:35 49-067	9 STATE PARK RD	Hull Parcels	Sutton, Eric
7/28/2023 11:23 49-068	38 ATLANTIC HSE RD	Hull Parcels	Sutton, Eric
7/28/2023 14:37 49-068	38 ATLANTIC HSE RD	Hull Parcels	Sutton, Eric
7/13/2023 7:38 51-006	181 ATLANTIC AVE	Hull Parcels	Sutton, Eric
7/6/2023 12:16 51-007	187 ATLANTIC AVE	Hull Parcels	Sutton, Eric
7/6/2023 11:45 51-009	205 ATLANTIC AVE	Hull Parcels	Sutton, Eric
7/13/2023 7:37 51-064	50 VALLEY BEACH AVE	Hull Parcels	Sutton, Eric
7/6/2023 11:48 52-014	174 ATLANTIC AVE	Hull Parcels	Sutton, Eric
7/6/2023 12:19 52-014	174 ATLANTIC AVE	Hull Parcels	Sutton, Eric
7/31/2023 14:21 53-029	0 ATLANTIC AVE	Hull Parcels	Sutton, Eric
7/13/2023 7:41 54-032	12 DRIFTWAY	Hull Parcels	Sutton, Eric
7/7/2023 12:45 58-100	1169 NANTASKET AVE	Hull Parcels	Sutton, Eric

7/27/2023 11:47 F_833570_2921073	1 WORRICK RD	Hull Parcels	Sutton, Eric
7/7/2023 7:58 MH-20178	SEMS_Asset	Sanitary Manhole	Sutton, Eric
7/6/2023 10:12 MH-20759	SEMS_Asset	Sanitary Manhole	Sutton, Eric

[illegible]

Hull - Markout	View
Sewer Main Cleaning & CCTV	View
Hull - Sewer Backup	View



Maintenance History Report

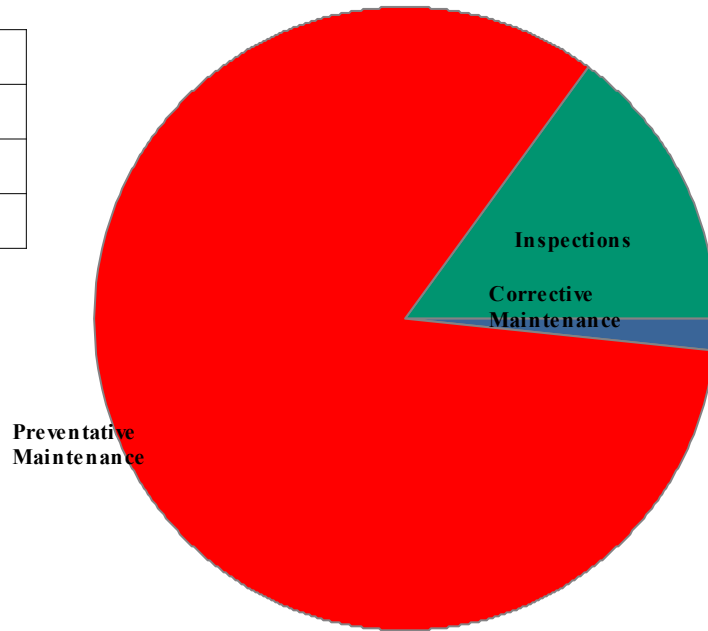
Start Date: 7/1/2023

End Date: 7/31/2023

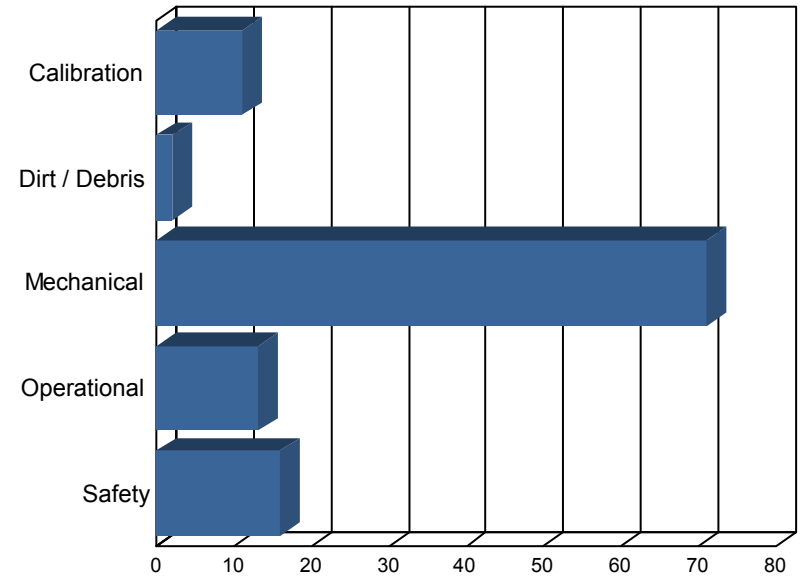
Hull Wastewater

Work Order History By Type

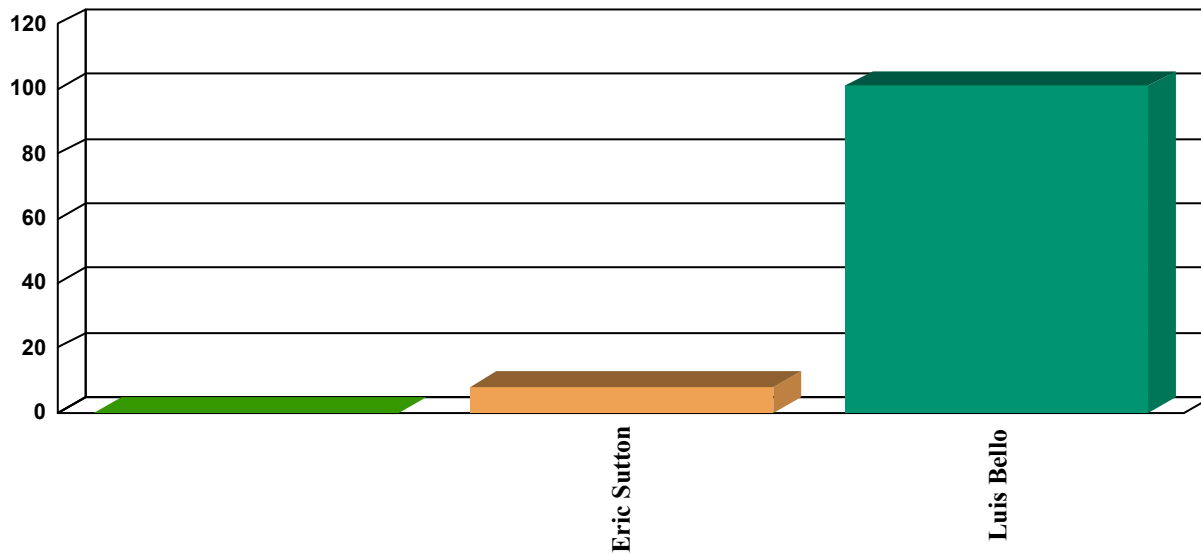
Corrective Maintenance	2
Inspections	17
Preventative Maintenance	94
Total Work Orders	113



Work Order History by Reason



Work Order History By Employee



Employee	WO Count	Labor Hours
Eric Sutton	8	1
Luis Bello	101	0
Unassigned	4	4
Totals	113	5

Corrective Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
7/5/23	18182	RAS Pump 1	Remove debris	LOTO completed suction an discharge closed , lifted pump by chain fall removed debris, reversed process, now operational	Eric Sutton	7/5/23	Completed
7/5/23	18183	RAS Pump 3	Remove debris	LOTO completed suction an discharge valve closed lifted pump by chain fall removed debris reversed process now operational	Eric Sutton	7/5/23	Completed

Inspections

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
7/7/23	17615	Emergency Lighting & exit signs	Emergency Lighting Inspection - Monthly		Luis Bello	6/14/23	Completed
7/18/23	18184	Truck 4 - 2015 Nissan Frontier	Perform vehicle inspection	Inspected vehicle - See doFORMS report for full details.		7/18/23	Completed
7/18/23	17857	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms		Luis Bello	7/3/23	Completed
7/18/23	17590	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms		Luis Bello	5/1/23	Completed
7/18/23	17716	Truck 4 - 2015 Nissan Frontier	Monthly vehicle inspection on do-Forms		Luis Bello	6/5/23	Completed
7/18/23	18185	Truck 3 - 2015 Chevy 3500 HD	Perform vehicle inspection	Inspected vehicle - See doFORMS report for full details.		7/18/23	Completed
7/18/23	17715	Truck 3 - 2015 Chevy 3500 HD	Monthly vehicle inspection on do-Forms		Luis Bello	6/5/23	Completed
7/18/23	17551	Truck 3 - 2015 Chevy 3500 HD	Monthly vehicle inspection on do-Forms		Luis Bello	5/1/23	Completed
7/18/23	17856	Truck 3 - 2015 Chevy 3500 HD	Monthly vehicle inspection on do-Forms		Luis Bello	7/3/23	Completed
7/19/23	17751	Emergency Lighting & exit signs	Emergency Lighting Inspection - Monthly		Luis Bello	7/12/23	Completed
7/24/23	18186	Truck 2 - 2009 Chevy 2500 HD	Perform vehicle inspection	Inspected vehicle - See doFORMS report for full details.		7/24/23	Completed
7/24/23	17848	Truck 2 - 2009 Chevy 2500 HD	Monthly vehicle inspection on do-Forms		Luis Bello	7/3/23	Completed
7/24/23	17707	Truck 2 - 2009 Chevy 2500 HD	Monthly vehicle inspection on do-Forms		Luis Bello	6/5/23	Completed
7/24/23	17588	Truck 2 - 2009 Chevy 2500 HD	Monthly vehicle inspection on do-Forms		Luis Bello	5/1/23	Completed
7/24/23	18187	Truck 1 - 2010 Dodge Ram 1500	Perform vehicle inspection	Inspected vehicle - See doFORMS report for full details.		7/24/23	Completed
7/24/23	17697	Truck 1 - 2010 Dodge Ram 1500	Monthly vehicle inspection on do-Forms		Luis Bello	6/5/23	Completed
7/24/23	17837	Truck 1 - 2010 Dodge Ram 1500	Monthly vehicle inspection on do-Forms		Luis Bello	7/3/23	Completed

Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
7/5/23	17539	Ventis MX4 #6 - 4 Gas	4 Gas Meter #6 Calibration - Monthly		Luis Bello	5/25/23	Completed
7/5/23	17702	Ventis MX4 #2 - 4 Gas	4 Gas Meter #2 Calibration - Monthly		Luis Bello	6/29/23	Completed

Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
7/5/23	17535	Ventis MX4 #2 - 4 Gas	4 Gas Meter #2 Calibration - Monthly		Luis Bello	5/25/23	Completed
7/5/23	17703	Ventis MX4 #3 - 4 Gas	4 Gas Meter #3 Calibration - Monthly		Luis Bello	6/29/23	Completed
7/5/23	17704	Ventis MX4 #4 - 4 Gas	4 Gas Meter #4 Calibration - Monthly		Luis Bello	6/29/23	Completed
7/5/23	17706	Ventis MX4 #6 - 4 Gas	4 Gas Meter #6 Calibration - Monthly		Luis Bello	6/29/23	Completed
7/5/23	17711	GasAlert Max XTII #2	monthly calibration		Luis Bello	6/29/23	Completed
7/5/23	17833	GasAlert Max XTII #1	4 gas meter calibration - monthly		Luis Bello	7/1/23	Completed
7/5/23	17545	GasAlert Max XTII #2	monthly calibration		Luis Bello	5/25/23	Completed
7/5/23	17537	Ventis MX4 #4 - 4 Gas	4 Gas Meter #4 Calibration - Monthly		Luis Bello	5/25/23	Completed
7/5/23	17538	Ventis MX4 #5 - 4 Gas	4 Gas Meter #5 Calibration - Monthly		Luis Bello	5/25/23	Completed
7/5/23	17693	GasAlert Max XTII #1	4 gas meter calibration - monthly		Luis Bello	6/1/23	Completed
7/5/23	17721	Meters - 4 Gas Confined Space #2	4 gas meter calibration - monthly		Luis Bello	6/1/23	Completed
7/5/23	17536	Ventis MX4 #3 - 4 Gas	4 Gas Meter #3 Calibration - Monthly		Luis Bello	5/25/23	Completed
7/6/23	17763	Influent Sluice Isolation Gate	Weekly operate through full range		Eric Sutton	7/5/23	Completed
7/6/23	17628	Influent Sluice Isolation Gate	Weekly operate through full range		Eric Sutton	6/28/23	Completed
7/6/23	17858	High level floats	Weekly High Float Alarm test		Luis Bello	7/2/23	Completed
7/6/23	17873	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Luis Bello	7/2/23	Completed
7/6/23	17733	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Luis Bello	6/18/23	Completed
7/6/23	17734	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Luis Bello	6/25/23	Completed
7/6/23	17627	Influent Sluice Isolation Gate	Weekly operate through full range		Eric Sutton	6/21/23	Completed
7/7/23	17664	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		Luis Bello	6/21/23	Completed
7/7/23	17668	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		Luis Bello	6/21/23	Completed
7/7/23	17674	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Luis Bello	6/21/23	Completed
7/7/23	17688	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		Luis Bello	6/21/23	Completed
7/7/23	17621	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		Luis Bello	6/19/23	Completed
7/7/23	17534	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		Luis Bello	5/29/23	Completed
7/7/23	17698	PS Kholer Trailer Mounted Generator	Generator - Monthly Load Test		Luis Bello	6/4/23	Completed
7/7/23	17699	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		Luis Bello	6/12/23	Completed
7/7/23	17700	PS Kholer Trailer Mounted Generator	Generator Weekly - Test Run no load		Luis Bello	6/19/23	Completed

Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
7/7/23	17678	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Luis Bello	6/21/23	Completed
7/7/23	17730	Generators "All Pump Station"	Generator Weekly - Test Run no load		Luis Bello	6/26/23	Completed
7/7/23	17868	Generators "All Pump Station"	Generator - Monthly Load Test		Luis Bello	7/2/23	Completed
7/7/23	17684	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		Luis Bello	6/21/23	Completed
7/7/23	17622	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		Luis Bello	6/26/23	Completed
7/7/23	17757	Generator #1- Emergency Kohler 750	Generator - Monthly Load Test		Luis Bello	7/2/23	Completed
7/7/23	17752	Generator #2 - Backup Detroit 500	Generator - Monthly Load Test		Luis Bello	7/2/23	Completed
7/7/23	17618	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		Luis Bello	6/26/23	Completed
7/7/23	17617	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		Luis Bello	6/19/23	Completed
7/11/23	17801	PS 1 Generator	PS #1 Generator Inspection and Load Test - Monthly		Luis Bello	7/5/23	Completed
7/11/23	17802	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		Luis Bello	7/5/23	Completed
7/11/23	17806	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		Luis Bello	7/5/23	Completed
7/11/23	17810	PS 3 Generator	PS #3 Generator Inspection and Load Test - Monthly		Luis Bello	7/5/23	Completed
7/11/23	17811	PS 4 Generator	PS #4 Generator Inspection and Load Test - Monthly		Luis Bello	7/5/23	Completed
7/11/23	17812	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Luis Bello	7/5/23	Completed
7/11/23	17821	PS 9 Generator	PS #9 Generator Inspection and Load Test - Monthly		Luis Bello	7/5/23	Completed
7/11/23	17822	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		Luis Bello	7/5/23	Completed
7/11/23	17826	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		Luis Bello	7/5/23	Completed
7/11/23	17830	PS 6 Generator	PS #5 Generator Inspection and Load Test - Monthly		Luis Bello	7/5/23	Completed
7/11/23	17816	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Luis Bello	7/5/23	Completed
7/11/23	17820	PS 5 Generator	PS #5 Generator Inspection and Load Test - Monthly		Luis Bello	7/5/23	Completed
7/11/23	17720	High level floats	Weekly High Float Alarm test		Luis Bello	6/25/23	Completed
7/11/23	17677	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Luis Bello	6/14/23	Completed
7/11/23	17665	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		Luis Bello	6/28/23	Completed
7/11/23	17669	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		Luis Bello	6/28/23	Completed
7/11/23	17675	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Luis Bello	6/28/23	Completed
7/11/23	17679	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Luis Bello	6/28/23	Completed

Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
7/11/23	17689	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		Luis Bello	6/28/23	Completed
7/11/23	17685	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		Luis Bello	6/28/23	Completed
7/14/23	17859	High level floats	Weekly High Float Alarm test		Luis Bello	7/9/23	Completed
7/14/23	17874	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Luis Bello	7/9/23	Completed
7/17/23	17803	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		Luis Bello	7/12/23	Completed
7/17/23	17807	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		Luis Bello	7/12/23	Completed
7/17/23	17813	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Luis Bello	7/12/23	Completed
7/17/23	17823	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		Luis Bello	7/12/23	Completed
7/17/23	17827	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		Luis Bello	7/12/23	Completed
7/17/23	17817	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Luis Bello	7/12/23	Completed
7/17/23	17869	Generators "All Pump Station"	Generator Weekly - Test Run no load		Luis Bello	7/10/23	Completed
7/18/23	17758	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		Luis Bello	7/10/23	Completed
7/18/23	17753	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		Luis Bello	7/10/23	Completed
7/20/23	17860	High level floats	Weekly High Float Alarm test		Luis Bello	7/16/23	Completed
7/20/23	17875	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Luis Bello	7/16/23	Completed
7/20/23	17642	RAS Pump 1	Monthly Check Pump Couplings		Eric Sutton	6/7/23	Completed
7/20/23	17643	RAS Pump 2	Monthly Check Pump Couplings		Eric Sutton	6/7/23	Completed
7/20/23	17644	RAS Pump 3	Monthly Check Pump Couplings		Eric Sutton	6/7/23	Completed
7/20/23	17764	Influent Sluice Isolation Gate	Weekly operate through full range		Luis Bello	7/12/23	Completed
7/20/23	17631	Influent Pump 2	Monthly Check Pump Couplings		Luis Bello	6/7/23	Completed
7/21/23	17708	Building Flood Control	Semi Annual PM of Flood Gates		Luis Bello	6/15/23	Completed
7/24/23	17824	PS 9 Generator	PS #9 Generator Inspection and Test - Weekly		Luis Bello	7/19/23	Completed
7/24/23	17828	PS 6 Generator	PS #6 Generator Inspection and Test - Weekly		Luis Bello	7/19/23	Completed
7/24/23	17814	PS 4 Generator	PS #4 Generator Inspection and Test - Weekly		Luis Bello	7/19/23	Completed
7/24/23	17818	PS 5 Generator	PS #5 Generator Inspection and Test - Weekly		Luis Bello	7/19/23	Completed
7/24/23	17808	PS 3 Generator	PS #3 Generator Inspection and Test - Weekly		Luis Bello	7/19/23	Completed
7/24/23	17804	PS 1 Generator	PS #1 Generator Inspection and Test - Weekly		Luis Bello	7/19/23	Completed
7/24/23	17870	Generators "All Pump Station"	Generator Weekly - Test Run no load		Luis Bello	7/17/23	Completed

Preventative Maintenance

Status Date	WO #	Asset Name	Work Description	Work History Note	Employee	Schedule Date	Status
7/26/23	17759	Generator #1- Emergency Kohler 750	Generator Weekly - Test Run no load		Luis Bello	7/17/23	Completed
7/26/23	17754	Generator #2 - Backup Detroit 500	Generator Weekly - Test Run no load		Luis Bello	7/17/23	Completed
7/27/23	17765	Influent Sluice Isolation Gate	Weekly operate through full range		Luis Bello	7/19/23	Completed
7/27/23	17861	High level floats	Weekly High Float Alarm test		Luis Bello	7/23/23	Completed
7/27/23	17876	All Plant Gear box reducers	GEAR BOX MAINT - WEEKLY		Luis Bello	7/23/23	Completed
7/27/23	17866	pH meter	Clean and Calibrate		Luis Bello	7/1/23	Completed
7/27/23	17561	pH meter	Clean and Calibrate		Luis Bello	5/1/23	Completed
7/27/23	17725	pH meter	Clean and Calibrate		Luis Bello	6/1/23	Completed
7/29/23	17384	ORP meter	Clean and Calibrate		Luis Bello	4/10/23	Completed

Asset Management Accounts - Year 9							
		Actual to date			Projected for Final Estimate		
Account		Budgeted Amount	Spent to Date	Delta	Projected costs and incl PO's	Final est	Delta
09M-101A	Preventive Maint	\$242,712.26	\$44,478.62	\$198,233.64	\$114,140.00	\$158,618.62	\$84,093.64
09M-102B	Capital and Major Repairs	\$140,000.00	\$20,815.35	\$119,184.65	\$70,500.00	\$91,315.35	\$48,684.65
09M-103A	Major Sub Contractors	\$206,459.14	\$55,452.40	\$151,006.74	\$179,000.00	\$234,452.40	(\$27,993.26)
blank							
	Asset Management	\$589,171.40	\$120,746.37	\$468,425.03	\$363,640.00	\$484,386.37	\$104,785.03

\$468,425.03

Budget expended	Time Status	
	NOW=	9/5/2023
	Start	5/1/2020
18.3%	334.9%	316.6%
14.9%	334.9%	320.0%
26.9%	334.9%	308.1%
20.5%	334.9%	314.4%

09S	D Street	\$7,500.00	\$4,222.43	\$3,277.57	\$0.00	\$4,222.43	\$3,277.57
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56.3%	334.9%	278.6%
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09C	Odor Control Chemicals	\$100,000.00	\$122,384.00	(\$22,384.00)	\$0.00	\$122,384.00	(\$22,384.00)
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122.4%	334.9%	212.5%
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\$446,041.03

Estimated total
remaining 09M,
09C \$82,401.03

Hull 2022-2023 - 09M Projects, Tasks, and Needs - (MS)								
Maintenance Account - Year 9 - 05_01_23 to 04_30_24								
FOR 2023 M.O.R.					\$363,640.00			9/5/2023 10:16
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
1	Mechanical Work Labor by O&M specialists	Pending		101A	\$25,000.00			Placeholder for Jody St. George, Paul Horigan & WC Support Staff - Total budget \$25,000;
1	Pump and Motor Repairs/Replacements [invoiced and pcard]	Pending		101A	\$20,000.00			to keep existing equipment running - utilize various outside contractor repair shops, new purchases. orig budget \$20,000;
1	Lubricants	Pending		101A	\$1,000.00			Various Suppliers for oil and grease. Budgeted \$1000.
1	Generator Prev. Maintenance and Repairs	Pending		101A	\$21,698.61			Orig budget \$25,000. General PM and CM Repair Work - Placeholder
1	Fire Alarm Inspections and Service	Pending		101A	\$4,000.00			Original Budget \$4,000 - Semi Annual - Flight Alarm Co.Inspections, central station, and service calls
2	Universal waste disposal	Pending		101A	\$500.00			Placeholder - \$500
1	Service the Forklift	Pending		101A	\$400.00			Placeholder \$400 - Annual cost - outside vendor.
1	Overhead Hoist Inspection & repairs	Pending		101A	\$1,700.00			Annual task - Applied Dynamics - Inspection Work - due in spring/summer 2023
1	Flow meter verification and calibration	Pending		101A	\$1,200.00			Placeholder \$1,200 - Annual - Ray Ferland or other 1 visit annually -
1	Facility Building - Roof Inspection	Pending		101A	\$2,800.00			\$2800 Annual Placeholder - Established contract with Tecta America. Need for new proposal.
2	Jerome H2S Meter Inspection	Pending		102B	\$11,000.00			Placeholder if new meter is to be planned for. Factors for new meter replacement to be considered.
1	Janitorial Supplies	Pending		101A	\$3,000.00			Orig budget \$3,000 - Estimated annual expenditures
1	Manhole Inspections	Pending		101A				As required,and/or scheduled
2	General mechanical and electrical items/supplies	Pending		101A	\$20,000.00			Grainger, FWWebb, EJP,Hoadley, McMasterCarr, etc; orig budget \$20,000,
1	Thompson Pump repairs	Pending		101A				
2	Large Hoses & fittings	Pending		101A	\$3,000.00			Orig budget \$3,000. Replacements and/or Service - On-Going - As Needed.
1		Pending		102B				
3		Pending		101A				
		Pending		101A				

Hull 2022-2023 - 09M Projects, Tasks, and Needs - (MS)								
Maintenance Account - Year 9 - 05_01_23 to 04_30_24								
FOR 2023 M.O.R.					\$363,640.00			9/5/2023 10:16
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
1	Lab Equip Calibration	Pending		101A	\$640.00			Annual service \$640
1		Pending		101A				
	Duperon Service Call	Pending		102B				recommended services per last visit, need repair report[s]
2		Pending		101A				
1		Pending		102B				
2	New Magnetic flow meters for RAS and WAS	Pending		102B	\$9,000.00			hardware - does not include installation [estimate for Equip - \$9,000] May or may not occur. Remove from planned projects for 09M.
2		Pending		102B				
1		Pending		102B				
1		Pending		102B				
1		Pending		102B				
3	Sanitaire hardware purchase for aer tk 1	Pending		102B				Purchase more hardware ??
1		Pending		102B				
2		Pending		102B				
2	Pump Station #3 - spare rotating, assy, or pump	Pending		102B				TBD- estimates being obtained
3	New 4-inch valves or 6-inch valves for pri building between the tanks & Installation	Pending		102B				Valves - cost: \$3000, sub-contracted labor - either WC or outside co.\$5,000 - totl estim \$8,000
3	Odor log data loggers & calibr kit	Pending		102B				if funds avail
3		Pending		102B				
3	Gravity Thickener #1 sandblasting/painting	Pending		102B				Estimate \$50,000+ - would need to go out for competitive bid request

Hull 2022-2023 - 09M Projects, Tasks, and Needs - (MS)								
Maintenance Account - Year 9 - 05_01_23 to 04_30_24								
FOR 2023 M.O.R.					\$363,640.00			9/5/2023 10:16
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
2		Pending		102B				
1	Grit classifier system parts	Pending		102B	\$4,500.00			Plan for additional tail shaft assy and housing & bushings. Pricing out items/costs by various vendors incl Mfr. 3/16 update - recommendations provided for spare parts
	Plant Water System [Pump and/or parts]	Pending		102B	\$6,000.00			consider spare motor or complete unit. Under review/hold [est \$6,000].
1		Pending		102B				
1	Electrical Work	Pending		103A	\$35,000.00			Orig budget \$35,000. Electricians: Glen Fellows, HiVoltage, or other;
1	SCADA Work - service calls, etc	Pending		103A	\$6,000.00			Steve Rose and the SCADA Support Team; budget \$6,000;
1	E-One Repairs and Replacement	Pending		103A	\$65,000.00			Orig budget: \$65,000. Based on historica/recent costs.
1	Automatic Transfer Switch inspection and servicing	Pending		101A	\$2,400.00			\$2400 - Annual Service planned for NETS - Transfer Switch
1	Wetwell Inspections and Cleaning - Plant/Pump Stations	Pending		103A	\$8,000.00			As required, plant or pump stations; orig budget \$8,000;
1	Sewer Line Cleaning - Emergencies, pump & haul	Pending		103A	\$10,000.00			Placeholder - As required for various sub-contractors; could be Hoadley, Truax, WindRiver, BMC, or other, collection system & plant; budget \$10,000
1	Collection System and plant - emerg & unplanned calls - Jetting & CCTV work - various contractors	Pending		103A	\$15,000.00			Budget - 15,000, Plan to be developed
1		Pending		102B				
3		Pending		103A				
3	SHT1 - demo of equip, air piping & diffuser install/materials	Pending		103A				demo concrete in tank - \$15,000 - sub-contractor and installation of new equip -additional new equip \$6,000; air piping to the tank \$10,000; Total estimate: \$31k to 35K ??. For consideration with outside contractor
4	Generators - Load Bank Testing Plant & Pump Stations	Pending		103A				Look at 09M -last done under 06M. SSGen - review cost estimates.
1	Generators and portable pumps - Annual repairs	Pending		103A	\$20,000.00			SSGen - \$20,000
1	MCC work at the Pump Stations & IR scan for plant and pump s	Pending		103A				Review recent propsal and develop plan
3	Low pressure sewer valve box insp & mtce	Pending		103A				placeholder for contractor O&M inspections and potential repairs; Looking at Rosano-Davis or another contractor & W&C to investigate;come up with plan to rempve covers and inspect
1	Grit screw installation	Pending		102B	\$40,000.00			\$40,000 placeholder installation.

Hull 2022-2023 - 09M Projects, Tasks, and Needs - (MS)								
Maintenance Account - Year 9 - 05_01_23 to 04_30_24								
FOR 2023 M.O.R.					\$363,640.00			9/5/2023 10:16
Priority [1=high]	Description	Status	completed	Task	Estimates & funds remaining	Final Completed Cost	Lead	Comments
1		Pending		102B				
1		Pending		101A				
	HDWK fiberglass slide gate	Pending		101A	\$3,500.00			Soliciting estimates for at least one new slide gate. Placeholder [Jan 2023] \$3,000; Adjust estimate up to \$3,500 for one gate. No orders placed yet. 3/16 [AV]
1	SC #1 Structural Steel Repairs	Pending		103A	\$20,000.00			Based on T&M - center supports, scrapers, other - IPC Lydon.
TOTAL					\$360,338.61			