




Utility Department Monthly Update

MEETING DATE: July 11, 2023

TO: Honorable Mayor and City Councilmembers

FROM: Daniel Saus, Utility Director 

THROUGH: George Garrett, City Manager

SUBJECT: June 2023 Utility Department Update

A. Wastewater Treatment Plants

1. General Issues

- a. Good progress continues for the Chemical Feed Upgrades project. Supply issues remain and will likely cause delays, but I continue keeping my fingers crossed for an on-schedule completion.
- b. We advertised the notification of “Intent to Issue” for the WWTP operating permits for Service Areas 3, 4, & 6 and remitted the proof to FDEP. The issuance of our permits is still on hold. Unfortunately, the status remains the same this month.

2. Odor Complaints / Mitigation

- a. We received no odor complaints for the treatment plants in June.

3. Effluent Quality Report/Plant Performance

The May 2023 wastewater facility performance chart is shown below because the January numbers are just being tabulated. The plant permits now require AWT compliance and the operations staff is doing an amazing job as reflected in our effluent quality as shown below. **(Effluent results are always a month behind due to sampling, shipping, & lab reporting)**

City of Marathon WWTP's Plant Performance Data for:

MAY 2023

TSS
mg/L

Parameters:			CBOD mg/L		Monthly Average (6.25)		TN mg/L		TP mg/L	
WWTP	Permit (MGD)	MADF (MGD)	2.80	Annual Average (5.0)	Monthly Average (6.25)	Annual Average (5.0)	Monthly Average (3.75)	Annual Average (3.0)	Monthly Average (1.25)	Annual Average (1.0)
AREA 3	0.250	0.116	<2.0	<2.0	1.11	1.6	0.41	1.28	0.41	0.43
AREA 4	0.400	0.288	<2.0	<2.0	1.25	1.9	0.50	1.22	0.46	0.24
AREA 5	0.450	0.322	<2.0	<2.0	1.15	<1.0	0.52	0.70	0.51	0.3
AREA 6	0.200	0.089	2.85	2.0	<1.0	<1.0	1.27	1.25	0.48	0.36
AREA 7	0.200	0.020	2.85	3.2	1.35	1.7	1.17	1.17		

B. Collection System

1. The month of June had normal flows for this time of year.

2. Vacuum Station Salinities for June:
 - a. Vacuum station salinities at the plants were as follows (in parts per thousand): SA3: 3.2; SA4: 2.7; SA5: 3.7; SA6: 1.9 and SA7: 2.5. These values show a minimal level of infiltration.

3. Wastewater System Connections
 - a. The City's wastewater system parcel connection rate is currently standing at approximately 100%. (Only customers that are in code or do not have a certificate of occupancy are not connected)
4. Code Compliance
 - a. There are still currently 5 open code cases in process for failure to connect to the City's central wastewater system, code violations, or expired permits. All of them are residential properties at some point in the foreclosure process.

5. Callouts

a. From June 1st to June 30th there were 43 documented Call outs for the entire Collections System. Of these, 31 were system generated typically a low vacuum detected at one of our Vacuum Stations. These 31 call outs did not result in any inconvenience to our customers in any way as the problems were detected and remedied by Collections/Maintenance City Staff before these problems could become a nuisance to the homeowners or residents at these locations.

b. The other call outs were as follows:

i. 6-10-23: Backup Area 5. 185 111th St. The MOD phone received a call about a backup at the property. The Tech responded and inspected the Vacuum Pit and the Cleanout. He found the Vac Pit to be overwhelmed with water. He Manually fired the Vac Pit clearing the water and put the Vac Pit back into service. No damage to property.

ii. 6-10-23: Backup Area 6. 12648 O/S Hwy. The MOD phone received a call about a backup at the property. The Tech responded and inspected the Vac Pit and Cleanout. He found the Vac Pit was in good operating condition. Homeowner issue.

iii. 6-11-23: Backup Area 6. The Tides 11890 1st Ave Gulf. The MOD phone received a call about a backup at the property. The Tech responded and inspected the Vacuum Pit and the Cleanout. He found the Vac Pit to be overwhelmed with water. He Manually fired the Vac Pit clearing the water and put the Vac Pit back into service. No damage to property.

iv. 6-11-23: Backup Area 3. La Nina Restaurant, 1571 O/S Hwy. The MOD phone received a call about a backup at the property. The Tech responded and saw water coming up through the lid of the Buffer Tank at the location. It seemed that the vacuum was low just at that spot in the Vacuum Main. Upon further investigation, it was found that one of the main isolation valves was partially closed from the Annual Exercising of the Division Valves for inspection of functionality for this area, due to the valve being bad. The valve was forced open to bring the vacuum back to normal operating condition. We have this valve on our list for repair in the near future. No damage to property.

v. 6-12-23: Backup Area 3. 307 11th St. The MOD phone received a call about a backup at the property. The Tech responded and inspected the Vac Pit and Cleanout. He found the Vac Pit was in good operating condition. Homeowner issue.

vi. 6-15-23: Backup Area 3. 1021 11th St. The MOD phone received a call about a backup at the property. The Tech responded and inspected the Vac Pit and Cleanout. He found the Vac Pit was in good operating condition. Homeowner issue.

vii. 6-17-23: Backup Area 5 Remote. 1021 11th St. The MOD phone received a call about a backup at the property. The Tech responded and inspected the Vac Pit and Cleanout. He found the Vac Pit was in good operating condition. Homeowner issue.

viii. 6-17-23: Backup Area 6. The MOD phone received a call about a backup at the property. The Tech responded and inspected the Vac Pit and Cleanout. He found the Vac Pit was in good operating condition. Homeowner issue.

ix. 6-19-23: Backup Area 5. 11295 3rd Ave. The MOD phone received a call about a backup at the property. The Tech responded and inspected the Vac Pit and Cleanout. He found the Vac Pit was in good operating condition. Homeowner issue.

x. 6-19-23: Backup Area 3. 813 30th St. The MOD phone received a call about a backup at the property. The Tech responded and inspected the Vac Pit and Cleanout. He found the Vac Pit was in good operating condition. Homeowner issue.

xi. 6-19-23: Backup Area 7. 385 Orange Ave. The MOD phone received a call about an Alarm Light Flashing at the property. The Tech responded and inspected the Grinder Pump Station. He found the Stators to be in bad condition. He replaced both Stators and put the Station back into operation. No damage to property.

xii. 6-19-23: Backup Area 7. 398 Guava Ave. The MOD phone received a call about an Alarm Light Flashing at the property. The Tech responded and inspected the Grinder Pump Station. He found the Stators to be in bad condition. He replaced both Stators and put the Station back into operation. No damage to property.

6. Odor Complaints / Mitigation

We received no odor complaints in June for the collection system.

C. Plant Upgrades & Construction Projects

1. Due to the permitting issues for the Area 3 WWTP Upgrade project taking almost 3 years and with COVID delays and inflation, the project costs for this project have increased significantly. I've requested finance to investigate if we can transfer the ACOE grant money from the Area 6 Sludge Processing Facility project to this project. The Area 6 project is on the back burner until more funding is received.
2. A CDBG-DR Grant has been received for electrical upgrades, vacuum monitoring system, and flood wall at Area 6 plant. Design is at approx. 90%. We completed environmental assessment which has not yet been accepted by DEO. We are awaiting approval from DEO before we can move forward with the projects.
3. The design for the Area 3 WWTP expansion is nearly completed and permitting through FDEP is underway at this time. We advertised the notification of "Intent to Issue" for the WWTP operating permits for Service Areas 3, 4, & 6 and remitted the proof to FDEP. The issuance of our permits is still on hold.

D. Grants Update Summary

1. Due to the permitting issues for the Area 3 WWTP Upgrade project taking almost 3 years and with COVID delays and inflation, the project costs for this project have increased significantly. I've requested finance to investigate if we can transfer the ACOE grant money from the Area 6 Sludge Processing Facility project to this project. The Area 6 project would then be put on the back burner until more funding is received.