




Utility Department Monthly Update

MEETING DATE: August 8, 2023

TO: Honorable Mayor and City Councilmembers

FROM: Daniel Saus, Utility Director 

THROUGH: George Garrett, City Manager

SUBJECT: July 2023 Utility Department Update

A. Wastewater Treatment Plants

1. General Issues

- a. Good progress continues for the Chemical Feed Upgrades project. Pay application #10 was just approved by our consultant.
- 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 July.

3. Effluent Quality Report/Plant Performance

The June 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:**

JUNE 2023

Parameters:			CBOD mg/L		TSS mg/L		TN mg/L		TP mg/L	
WWTP	Permit (MGD)	MADF (MGD)	Monthly Average (6.25)	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	0.106	<2.0	<2.0	<1.0	1.4	1.55	1.11	0.48	0.46
AREA 4	0.400	0.297	<2.0	<2.0	2.15	2.0	1.25	1.14	0.38	0.30
AREA 5	0.450	0.355	<2.0	<2.0	1.20	1.0	0.84	0.68	0.17	0.36
AREA 6	0.200	0.108	<2.0	<2.0	<1.0	<1.0	1.15	1.28	0.26	0.36
AREA 7	0.200	0.038	<2.0	2.9	1.30	1.7	0.98	1.10	0.19	0.18

B. Collection System

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

2. Vacuum Station Salinities for July:
 - a. Vacuum station salinities at the plants were as follows (in parts per thousand): SA3: 2.8; SA4: 2.6; SA5: 4.3; SA6: 1.7 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.

Callouts Call-Outs

- a. From July 1st to July 31st there were 76 documented Call outs for the entire Collections System. Of these, 62 were system generated typically a low vacuum detected at one of our Vacuum Stations. These 62 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. 7-3-23: Backup Area 4. 98 Corte del Brisas. 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 Controller, Valve and Surge Suppressor in the Vac Pit to be bad. He replaced the Controller, Valve and Surge Suppressor and put the Vac Pit back into service. No damage to property.

- ii. 7-4-23: Backup Area 7. 7940 Aviation Blvd. The Resident called about a Backup at the property. The Tech responded and found that both Stators on the Grinder Pumps were bad. He replaced both Stators and put the station back into operation. No damage to property.

- iii. 7-6-23: Backup Area 6. 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 Controller, Valve and Surge Suppressor in the Vac Pit to be bad. He replaced the Controller, Valve and Surge Suppressor and put the Vac Pit back into service. No damage to property.

- iv. 7-8-23: Area 5 Remote. 59735 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.

- v. 7-11-23: Backup Area 3. 185 25th 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. 7-11 -23: Backup Area 5 Remote. 551 61st 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. 7-11-23: Backup Area 4. 11 Man O'War Dr. 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. 7-11-23: Backup Area 5. 11349 5th Ave Ocean. 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. 7-15-23: Backup Area 5. 475 114th St. Ocean. 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. 7-15-23: Backup Area 5 Remote. 7539 Gulfstream Blvd. 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. 7-16-23: Backup Area 5 Remote. 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.

xii. 7-19-23: Backup Area 4. 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 Controller, Valve and Surge Suppressor in the Vac Pit to be bad. He replaced the Controller, Valve and Surge Suppressor and put the Vac Pit back into service. No damage to property.

xiii. 7-29-23: Backup Area 3. 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 Controller, Valve and Surge Suppressor in the Vac Pit to be bad. He replaced the Controller, Valve and Surge Suppressor and put the Vac Pit back into service. No damage to property.

xiv. 7-30-23: Backup Area 7. The Resident called about a Backup at the property. The Tech responded and found that both Stators on the Grinder Pumps were bad. He replaced both Stators and put the station back into operation. No damage to property.

5. Odor Complaints / Mitigation

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

C. Plant Upgrades & Construction Projects (No changes this month)

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

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