




Utility Department Monthly Update

MEETING DATE: April 12, 2022

TO: Honorable Mayor and City Councilmembers

FROM: Daniel Saus, Utility Director 

THROUGH: George Garrett, City Manager

SUBJECT: March 2022 Utility Department Update

A. Wastewater Treatment Plants

1. General Issues

- a. The work continues for the Chemical Feed Upgrades project. Foundations are being laid out and constructed at this time.

2. Odor Complaints / Mitigation

- a. We received one odor complaint for the Area 6 WWTP in March. We found that the air for digester was cut off for an extended period of time. We also found that the screenings dumpster is causing some unpleasant odors. We intend to move it away from the habitable area and use lime to stabilize the odors.

3. Effluent Quality Report/Plant Performance

The February 2022 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:
February 2022**

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	0.203	1.92	1.6	0.5	0.7	1.92	1.36	0.20	0.687
AREA 4	0.400	0.332	1.0	1.1	0.5	0.8	0.72	1.0	0.12	0.21
AREA 5	0.450	0.332	2.2	1.7	1.05	0.7	1.11	1.0	0.22	0.30
AREA 6	0.200	0.089	2.29	1.9	0.5	0.8	1.34	1.27	0.26	0.416
AREA 7	0.200	0.048	2.06	1.6	0.75	0.5	0.91	1.06	0.12	0.261

B. Collection System

1. The month of March had average flows for this time of year.
2. Vacuum Station Salinities for March:
 - a. Vacuum station salinities at the plants were as follows (in parts per thousand): A3: 1.85 SA4: 1.39; SA5: 2.10; SA6: 0.91 and SA7: 0.66. These values show minimal 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. Most of them are residential properties at some point in the foreclosure process.

5. Call-Outs

- a. From March 1st to March 31st there were 46 documented Call outs for the entire Collections System. Of these, 37 were system generated typically a low vacuum detected at one of our Vacuum Stations. These 37 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. 3-8-22: Backup Area 7. 57500 Morton Street. The MOD phone received a call about a backup at the property. The tech responded and inspected the grinder pump station. He discovered that there wasn't any power to the control panel. He replaced the main fuse to the control panel and restored power back to the unit. No damage to property.

- ii. 3-9-22: Backup Area 5. 11611 6th Ave Ocean. 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 unit to be in good working order. He let the homeowner know to call a plumber.

- iii. 3-14-22: Backup Area 4. 1 Sandpiper Ln. 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 unit to be in good working order. He let the Homeowner know to call a plumber.

- iv. 3-22-22: Backup Area 5. 9401 Lime Lane. 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 that the vacuum pit had never had an Airvac valve installed from the original construction and the gravity lateral had just been hooked up to an existing house at that location. The Airvac valve was installed, and the unit was put into operation. No damage to property.

- v. 3-22-22: Backup Area 6. 115 Ave A. The MOD phone received a call about a backup. The tech responded and found the controller to be bad.

The tech replaced the controller and put the unit back into service. No damage to property.

vi. 3-23-22: Backup Area 5. 11134 Camino del Vientos. The MOD phone received a call about a backup at the property. The tech responded and found the vacuum pit to be overwhelmed with water. The Tech manually fired the vacuum pit to empty it of water and put the unit back into service. No damage to property.

vii. 3-28-22: Backup Area 4. 329 Sombrero Bch Rd. The MOD phone received a call about a backup at the property. The tech responded and found the candy cane that services the property was broken and letting rock and debris into the gravity lateral causing the property to backup. The tech let the property owner to call a plumber to have the candy cane fixed.

viii. 3-28-22: Alarm Light Flashing Area 7. 59486 Morton Street. The MOD phone received a call about an alarm light flashing at the property. The tech responded and inspected the grinder pump station and found the alarm float hung up on the flex hose inside the wet well of the station. The tech untangled the float and put the unit back into operation. No damage to property.

ix. 3-29-22: Backup Area 5. 11200 5ht Ave. 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 unit to be in good working order. He let the homeowner know to call a plumber.

6. Odor Complaints / Mitigation

b. We received no odor complaints in March for the collection system.

C. Plant Upgrades & Construction Projects

1. The design for the sludge facility at Area 6 is back on track. The City received about \$3.5 million in Stewardship funding this year and plans to move this project forward. It is being prepared for bidding.
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 are required

to perform a complete environmental assessment which has slowed our progress considerably.

3. The design for the Area 3 WWTP expansion is nearly completed and permitting through FDEP is underway at this time. Another unexpected RAI (request for additional information) was received by FDEP in September. Our response team is working the required response which is now due May 9, 2022.
4. We received an RAI for Area 6 WWTP permit renewal similar to the one for Area 3. We responded February 16th and expect a response from FDEP by April 15th.

D. Grants Update Summary

1. We received notification of an award of \$3,500,000 for Stewardship this year! We plan to move the sludge handling facility forward with this grant money. It is expected to get to bid soon. We are hoping for another larger award next year.