




Utility Department Monthly Update

MEETING DATE: October 12, 2021

TO: Honorable Mayor and City Councilmembers

FROM: Daniel Saus, Utility Director 

THROUGH: George Garrett, City Manager

SUBJECT: September 2021 Utility Department Update

A. Wastewater Treatment Plants

1. General Issues

- a. No major issues in September for the plants or the collection system.
- b. The work related to the ACOE grant money at the Area 3 plant is completed. Jennifer requested that ACOE extend our reimbursement deadline to the middle of September, and they approved that new deadline. The final pay application has been approved and are ready for reimbursement.

2. Odor Complaints / Mitigation

- a. We received no odor complaints for the wastewater treatment facilities in the last several months.

3. Effluent Quality Report/Plant Performance

The August 2021 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:

August 2021

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	0.198	1.48	1.4	0.97	0.8	1.46	2.35	0.42	0.743
AREA 4	0.400	0.288	1.66	1.3	2.2	1.5	0.479	1.4	0.104	0.188
AREA 5	0.450	0.349	1.5	1.7	0.5	1.2	0.63	1.2	0.26	0.40
AREA 6	0.200	0.089	2.48	1.9	0.5	1.0	0.798	1.33	0.921	0.417
AREA 7	0.200	0.037	2.33	2.0	0.5	0.5	0.525	1.7	0.075	0.256

B. Collection System

1. The month of September was relatively quiet with flows high because of the start of the king tides. The Collections crew has been hard at work identifying and repairing infiltration in the Little Venice area. Several damaged vacuum pits have been found and repaired or replaced.
2. Vacuum Station Salinities for August:
 - a. August's vacuum station salinities were at as follows (in parts per thousand): SA3: 2.1 SA4: 2.7; SA5: 5.7; SA6: 3.9 and SA7: 01.3. These values show some infiltration but only Area 5 is really causing a problem. We continue to look for the outstanding issues in that system.
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 currently 6 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 September 1st to September 30th there were 26 documented Call outs for the entire Collections System. Of these, 20 were system generated, typically low vacuum detected at one of our Vacuum Stations. These 20 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. 9-2-21: Backup Area 5 Remote. 398 Gulf Terr. The MOD phone received a call about a backup at the property. The Tech responded and inspected the vacuum pit and the cleanout and found the city equipment in good working order. It was a Homeowner issue.

- ii. 9-2-21: Backup Area 5 Remote. 7010 O/S Hwy. The MOD phone received a call about a backup at the property. The Tech responded and inspected the vacuum pit and the cleanout and found the controller and valve to be bad. The Tech replaced both components with new controller and valve then put unit back into service. No damage to property.

- iii. 9-6-21: Backup Area 7. 205 Guava. The MOD phone received a call about a backup at the property. The Tech responded and inspected the grinder pump station and found the city equipment in good working order. Homeowner issue.

- iv. 9-7-21: Backup Area 5. 524 Ocean Terr. The MOD phone received a call about a backup at the property. The Tech responded and inspected the vacuum pit and the cleanout and found the city equipment in good working order. It was a Homeowner issue.

- v. 9-9-21: Backup Area 3. 174 26th St. The MOD phone received a call about a backup at the property. The Tech responded and inspected

the vacuum pit and the cleanout and found the city equipment in good working order. It was a Homeowner issue.

vi. 9-11-21: Backup Area 4. 329 Sombrero Bch Rd. The Resident called the afterhours MOD phone and the Tech responded. The Tech found the vac pit to be overwhelmed with water. He manually fired the pit to clear the water and put back into service. No damage to property.

6. Odor Complaints / Mitigation

b. We received no odor complaints in August 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. The design work is in progress and the bids for the Chemical Feed Upgrade Project are due in two weeks.
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 on a proposal for this required response.

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 go to bid soon.

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2. In January we were informed we are receiving \$1,700,000 from ACOE for fiscal year 20/21! We have completed that work and the reimbursement request is in progress.