




Utility Department Monthly Update

MEETING DATE: April 13, 2021

TO: Honorable Mayor and City Councilmembers

FROM: Daniel Saus, Utility Director 

THROUGH: George Garrett, City Manager

SUBJECT: February 2021 Utility Department Update

A. Wastewater Treatment Plants

1. General Issues

- a. The only large issue in February was the vacuum main going out to 120th St gulf. Council has approved the modifications to the line and the work is set to begin shortly.
- b. Council has also approved work related to the ACOE grant money being received this year. Those designs are well under way and we expect to make the deadline of the end of July.

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 January 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:

JANUARY 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	0.182	1.0	1.7	0.5	1.0	5.00	2.69	0.936	0.654
AREA 4	0.400	0.285	1.0	1.8	0.8	1.7	2.00	1.7	0.02	0.3
AREA 5	0.450	0.331	1.87	1.4	1.7	1.3	2.09	1.2	0.45	0.3
AREA 6	0.200	0.084	1.0	1.9	1.3	1.1	0.45	1.38	0.086	0.346
AREA 7	0.200	0.036	1.0	2.1	0.5	0.5	2.20	2.43	0.21	0.282

B. Collection System

1. The month of January was relatively quiet, and flows high but normal for this time of year.

2. Vacuum Station Salinities for February:
 - a. August's vacuum station salinities were at as follows (in parts per thousand): SA3: 1.8; SA4: 1.69; SA5: 4.0; SA6: 0.9 and SA7: 0.8. This indicates a minimal amount of saltwater intrusion into our system from the king tides except for SA5 where we continue to find issues. We now know it is latent hurricane damage and we are actively pursuing air intake repairs on private property as stated above in in general issues,

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 14 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 February 1st to February 28th there were 49 documented Call outs for the entire Collections System. Of these, 38 were system generated typically a low vacuum detected at one of our Vacuum Stations. These 38 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. 2-1-21: Backup Area 3. City Marina. The Collections Supervisor received a call about the alarm going off at the City Marina. The Lift Station Tech showed up to inspect the station and found one pump burned up and the other one had a worn Stator. He pulled both pumps and replaced them with the spares kept on hand at the City warehouse facility and made sure the station was operating properly.

- ii. 2-3-21: Backup Area 5. Stirrup Key, 107 Woods Road. The MOD phone received a call about a backup at the property. The Tech responded. He found debris stuck in the wye body of the vacuum valve. He removed the debris and put the vac pit back into service. No damage to property.

- iii. 2-7-21: Backup Area 4. 312 N. Angler Dr. 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. 2-10-21: Backup Area 4. 1144 Bulivar de Palmas. The MOD phone received a call about a backup at the property. The Tech responded. He found the valve and controller defective and replaced both parts. He put the vac pit back into service. No damage to property.

- v. 2-12-21: Backup Area 4. 1155 Camino del Vientos. 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 suction tube to be clogged with grease, he cleaned the grease out of the tube and put the vac pit back into service. No damage to property.

- vi. 2-15-21: Backup Area 6. 126th Street. The MOD phone received a call about a backup at the property. The Tech responded and inspected

both vacuum pits. He found both vac pits were overwhelmed with water due to a power outage issue with the Vac Station Control Panel at the Area 6 Plant. The Tech manually fired the vac pits to empty the water and put them back into service. No damage to property.

vii. 2-19-21: Backup Area 5. 181 109th Street Ocean. The MOD phone received a call about a backup at the property. The Tech responded and remembered that the Residence had been capped off after Hurricane Irma during the King Tides due to Saltwater Intrusion at the abandoned property flowing into the system and overwhelming the WWTP processes. We went back a couple of days later and verified the cap on the lateral with our CCTV camera. We called the contact person for the property and let them know that they were responsible to reconnect the Service Lateral and to have it Inspected by the City Inspector when it was done.

viii. 2-22-21: Backup Area 3. 951 James Street. 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 unit to be in good working order. He let the Homeowner know to call a plumber.

ix. 2-24-21: Backup Area 5. Schmidt Plaza, 11100 O/S Hwy. The MOD phone received a call about a backup at the property. The Tech responded and found the vac pit to be in good working order. He let the Property Owner know to call a plumber.

x. 2-25-21: Backup Area 4: Marlin Bay, 3800 Gulfview Ave. The MOD phone received a call about a backup at the property. The Tech responded and inspected the Vacuum Pit. He found the shut off valve installed on that Vac Pit was closed. The Vac Pits at Marlin Bay were installed with individual shut off valves in all of their units. The Tech opened the shut off valve and let the Maintenance Person know that someone had shut the unit off manually. He also stated that it was not one of our Techs and that someone else had done so. No damage to property.

xi. 2-28-21: Backup Area 6: 301 120th 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 controller and valve to be defective. He replaced both parts and put the vac pit back into service. No damage to property.

6. Odor Complaints / Mitigation

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

C. Plant Upgrades & Construction Projects

1. The design for the sludge facility at Area 6 is still on hold at this time awaiting funding.
2. The construction for the Area 3 to 4 force main is about 95% completed. A re-design was required once we determined the survey information was not accurate. The force main now crosses US1 and will now tie-in in front of Gulfside Village on oceanside.
3. The design for the Area 3 WWTP expansion is nearly completed and permitting through FDEP is underway at this time. An unexpected major RAI (request for additional information) was received by FDEP in late October. This will require geotechnical investigations and work from a licensed Geologist for a proper response. That work has been approved and is underway.
4. The design work and engineering is underway to complete the ACOE grant work for this fiscal year. We believe we can make the deadline of the end of July for reimbursement requests.

D. Grants Update Summary

1. LP44041 17 Million dollar Grant – This grant has been closed out.
2. In January we were informed we are receiving \$1,700,000 from ACOE for fiscal year 20/21!
3. Regarding the ACOE PCA: in August we received a reimbursement of \$1,245,000.00 from ACOE for FKWQIP for fiscal year 19/20.