




## Utility Department Monthly Update

**MEETING DATE:** March 9, 2021

**TO:** Honorable Mayor and City Councilmembers

**FROM:** Daniel Saus, Utility Director 

**THROUGH:** George Garrett, City Manager

**SUBJECT:** February 2021 Utility Department Update

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### A. Wastewater Treatment Plants

#### 1. General Issues

- a. In February flows were high but the plants performed very well. We had major control panel failure in Service Area 6, but staff was able to get it repaired before any non-compliance could occur.

#### 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 February 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	0.188	1.4	1.8	1.33	1.0	1.76	2.42	0.39	0.603
AREA 4	0.400	0.289	1.65	1.8	1.5	1.7	1.98	1.6	0.131	0.3
AREA 5	0.450	0.329	1.94	1.3	1.55	1.3	1.20	1.1	0.29	0.3
AREA 6	0.200	0.072	3.3	2.3	1.5	1.1	1.54	1.45	1.02	0.346
AREA 7	0.200	0.047	3.4	2.5	0.5	0.5	2.03	2.43	0.29	0.269

### B. Collection System

1. The month of January was relatively quiet, and flows were normal for this time of year.
2. Vacuum Station Salinities for January:
  - a. Vacuum station salinities were at as follows (in parts per thousand): SA3: 2.0; SA4: 1.58; SA5: 4.19; SA6: 0.8 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 January 1st to January 31st there were 45 documented Call outs for the entire Collections System. Of these, 27 were system generated typically a low vacuum detected at one of our Vacuum Stations. These 27 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. 1-1-21: Backup Area 4. 5301 Ocean Terr. The MOD phone received a call about a backup at the property. The tech responded and inspected the vacuum pit and cleanout. He found the unit to be in good working order. He let the homeowner know to call a plumber. No damage to property.

- ii. 1-2-21: Backup Area 7. 57181 Morton St. The MOD phone received a call about a backup at the property. The tech responded. He found the wet well full of water and called in the pump truck to help pull the water down to be able to work on the station. He found the pumps to be bad and replaced them both. He then proceeded to put the station back into service. No damage to property.

- iii. 1-3-21: Backup Area 5. 134 Gulfwind 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 vac pit was overwhelmed with water. The tech manually fired the vac pit to empty the water and put the vac pit back into service. No damage to property.

- iv. 1-5-21: Backup Area 7. 329 Avacado. The MOD phone received a call about a backup at the property. The tech responded. He found the wet well full of water and called in the pump truck to help pull the water down to be able to work on the station. He found the stators were bad in the

pumps in the station. He pulled the pumps and replaced the stators. He then proceeded to put the station back into service. No damage to property.

v. 1-8-21: Backup Area 5. 11400 2nd 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 vac pit was overwhelmed with water. The tech manually fired the vac pit to empty the water and put the vac pit back into service. No damage to property.

vi. 1-8-21: Backup Area 4. 551 49th 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 was overwhelmed with water. The Tech manually fired the vac pit to empty the water and put the vac pit back into service. No damage to property.

vii. 1-9-21: Backup Area 5. 115 Stirrup Key. 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 was overwhelmed with water. The tech manually fired the vac pit to empty the water and put the vac pit back into service. No damage to property.

viii. 1-12-21: Backup Area 7. 58121 Morton St. The MOD phone received a call about a backup at the property. The tech responded. He found the wet well full of water and called in the pump truck to help pull the water down to be able to work on the station. He found the stators were bad on the pumps in the station. He pulled the pumps and replaced the stators. He then proceeded to put the station back into service. No damage to property.

ix. 1-14-21: Backup Area 15 Remote. 2945 Grouper 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. No damage to property.

x. 1-14-21: Backup Area 4: 843 Copa d'Oro East. 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. No damage to property.

xi. 1-16-21: Backup Area 6: 2118 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 to be bad. He replaced the controller and put the vac pit back into service. No damage to property.

xii. 1-17-21: Backup Area 7: 59734 Blue Island Blvd. The MOD phone received a call about a backup at the property. The Tech

responded. He found the wet well full of water and called in the pump truck to help pull the water down to be able to work on the station. He found the stators were bad in the pumps in the station. He pulled the pumps and replaced the stators. He then proceeded to put the station back into service. No damage to property.

xiii. 1-17-21: Backup Area 4: 4820 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. He found the unit to be in good working order. He let the homeowner know to call a plumber. No damage to property.

xiv. 1-18-21: Backup Area 7: 57724 Morton St. The MOD phone received a call about a backup at the property. The tech responded. He found the wet well full of water and called in the pump truck to help pull the water down to be able to work on the station. He found the stators were bad in the pumps in the station. He pulled the pumps and replaced the stators. He then proceeded to put the station back into service. No damage to property.

xv. 1-19-21: Backup Area 7: 57519 Bailey St. The MOD phone received a call about a backup at the property. The tech responded and inspected the lift station and the cleanout. He found the unit to be in good working order. He let the Homeowner know to call a plumber. No damage to property.

xvi. 1-20-21: Backup Area 7: 398 Guava Ave. The MOD phone received a call about a backup at the property. The tech responded. He found the wet well full of water and called in the pump truck to help pull the water down to be able to work on the station. He found a stator and a circuit breaker were bad in the station. He pulled the pump and replaced the stator. He also replaced the bad circuit breaker. He then proceeded to put the station back into service. No damage to property.

xvii. 1-22-21: Backup Area 7: 58662 O/S Hwy. The MOD phone received a call about a backup at the property. The tech responded. He found the wet well full of water and called in the pump truck to help pull the water down to be able to work on the station. He found the stators were bad on the pumps in the station. He pulled the pumps and replaced the stators. He then proceeded to put the station back into service. No damage to property.

xviii. 1-26-21: Backup Area 6: 38 Coco Plum. 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 was overwhelmed with water. The tech manually fired the vac pit to empty the water 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 and awaiting funding.
2. The construction for the Area 3 to 4 force main is about 90% 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 Crane Point on the 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. We are likely going to have to request another extension from FDEP due to the complexity of all the borings and analyses required.

### 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.