




Utility Department Monthly Update

MEETING DATE: October 8, 2019

TO: Honorable Mayor and City Councilmembers

FROM: Daniel Saus, Utility Director 

THROUGH: Charles Lindsey, City Manager

SUBJECT: **October 2019 Utility Department Update**

A. Wastewater Treatment Plants

1. General Issues

- a. The king tides are causing increased flows at some of the plants. We have identified a great many damaged air inlets that are likely latent hurricane Irma damage either from the storm or from the ensuing cleanup effort. We have sent many letters to the owners but are struggling to achieve compliance.

2. Odor Complaints / Mitigation

- a. We received two odor complaints for the wastewater treatment facilities at Area 4 plant. I was present at the plant that week and was unable to identify any offensive odors and therefore I ordered a misting unit to mist deodorizing liquid should we receive any more complaints.

3. Effluent Quality Report/Plant Performance

The August 2019 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
Wastewater
Treatment Plant
Performance Data
for: AUGUST 2019**

| 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 | 2.9 | 2.52 | 1.85 | 1.98 | 1.36 | 2.18 | 0.67 | 0.88 |
| AREA 4 | 0.400 | 0.248 | 1.0 | 3.27 | 2.5 | 1.53 | 1.22 | 1.53 | 0.347 | 0.70 |
| AREA 5 | 0.450 | 0.328 | 1.0 | 1.25 | 1.6 | 0.97 | 1.23 | 1.96 | 0.39 | 0.38 |
| AREA 6 | 0.200 | 0.071 | 3.32 | 1.92 | 0.5 | 0.63 | 0.613 | 1.83 | 0.222 | 0.140 |
| AREA 7 | 0.200 | 0.040 | 2.44 | 1.99 | 0.5 | 0.72 | 0.685 | 1.63 | 0.136 | 0.136 |

B. Collection System

1. In June, we were caught up on the grease trap list and had full compliance at that time. Now grease trap compliance has become an issue again. We may need to revise our ordinance in the future. I am currently discussing with staff and considering our options.
2. Vacuum Station Salinities for June:
 - a. August's vacuum station salinities were at as follows (in parts per thousand): SA3: 3.3; SA4: 3.6; SA5: 5.2; SA6: 1.3 and SA7: 1.4. This indicates a moderate amount of saltwater intrusion into our system from the king tides. I believe 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 99%. (Only customers that are in code or do not have a certificate of occupancy are not connected)

4. Code Compliance

- a. There are currently 19 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 in some point in the foreclosure process.

5. Call-Outs

- a. From August 1st to August 31st we received 47 documented Call outs for the entire Collections System. Of these, 29 were system generated, typically low vacuum detected at one of our Vacuum Stations. These 29 call outs did not result in any inconvenience to our customers. The problems were detected and remedied by Collections/Maintenance Staff before they became a nuisance to the residents in these areas.

- b. The other call outs were as follows:

- i. 8-1-19: Backup Area 7. 56283 Ocean Dr. The Resident called the manager-on-duty (MOD) phone about a backup at the property. The Tech arrived and found the Grinder Station to be operational. Homeowner issue.
- ii. 8-1-19: Backup Area 5. 11750 2nd Ave. The Resident called the MOD phone about a backup at the property. The Tech arrived and found the Vacuum Pit to be operational. Homeowner issue.
- iii. 8-2-19: Backup Area 5. 1701 6th Ave. The Resident called the MOD phone about a backup at the property. The Tech arrived and found the Vacuum Pit to be overwhelmed with water. he fired the pit manually and cleared the water then put the pit back into operation. No damage to property.
- iv. 8-3-19: Backup Area 6. 1160 Blvd. de Palmas. The Resident called the MOD phone about a backup at the property. The Tech arrived and found the suction tube clogged with grease and debris. He cleared the blockage and put the pit back into service. No damage to property.
- v. 8-4-19: Backup Area 7. 59734 Blue Isle. The Resident called the MOD phone about a backup at the property. The Tech arrived and found the grinder station full of water. He called for the pump truck to pump it down and replaced the stators in the pumps then put the station back into service. No damage to property.
- vi. 8-5-19: Backup Area 3. Knights Key Lift Station. The alarm on the telemetry called the MOD and had the Lift Station Tech checked the station. He found that the VFD's in the control panel had faulted. He reset the VFD's and put the station back into service before residents were impacted.

- vii. 8-9-19: Backup Area 3. 201 22nd Street. The resident called the MOD phone about a backup at the property. The tech arrived and found the controller to be bad. He replaced the controller and put the pit back into service. No damage to property.
- viii. 8-9-19: Backup Area 3. Hyatt Hotel. 1996 O/S hwy. An employee of the Hyatt called the afterhours MOD phone about a backup at the property. The tech arrived and found the Lift Station to be operational. Private property issue.
- ix. 8-9-19: Backup Area 5. 125 Brian Road. The resident called the MOD phone about a backup at the property. The tech arrived and found the Vacuum pit to be overwhelmed with water, he fired the pit manually and cleared the water then put the pit back into operation. No damage to property.
- x. 8-9-19: Backup Area 5. 1590 Marlin Drive. The resident called the MOD phone about a backup at the property. The tech arrived and found the vacuum pit to be overwhelmed with water, he fired the pit manually and cleared the water then put the pit back into operation. No damage to property.
- xi. 8-10-19: Backup Area 5. 8061 Porpoise Drive. The resident called the MOD phone about a backup at the property. The tech arrived and found the vacuum pit to be operational. Homeowner issue.
- xii. 8-11-19: Back up Area 4. 249 Sombrero Bch Rd. The resident called the MOD phone about a backup at the property. The tech arrived and found the vacuum pit to be operational. Homeowner issue.
- xiii. 8-11-19: Backup Area 4. Marlin Bay. The resident called the MOD phone about a backup at the property. The tech arrived and found the controller to be bad, he replaced the controller and put the pit back into service. No damage to property.
- xiv. 8-12-19: Backup Area 4. 250 43rd Street. The resident called the MOD phone about a backup at the property. The tech arrived and found the Controller to be bad, he replaced the Controller and put the pit back into service. No damage to property.
- xv. 8-13-19: Backup Area 5. 1590 Marlin Drive. The resident called the MOD phone about a backup at the property. The tech arrived and found the vacuum pit to be overwhelmed with water. He fired the pit manually and cleared the water then put the pit back into operation. No damage to property.
- xvi. 8-13-19: Backup Area 5. 1590 Marlin Drive. The resident called the MOD phone about a backup at the property. The tech arrived and found that the tech from the previous night had misdiagnosed the problem with the Vac Pit. The problem turned out to be a small hole in the sensor tube hose causing the pit not to fire. He replaced the hose and put the pit back into operation. No damage to property.

xvii. 8-27-19: Backup Area 4. 854 51st Street Gulf. The resident called the MOD phone about a backup at the property. The tech arrived and found the vacuum pit to be operational. Homeowner issue.

xviii. 8-31-19: Backup Area 6. 115 Ave A. The resident called the MOD phone about a backup at the property. The tech arrived and found the suction tube to be clogged with grease and debris. He removed the blockage and put the pit back into service. No damage to property

6. Odor Complaints / Mitigation

b. We received no odor complaint in August for the collection system.

C. Service Plant upgrades & Construction

1. The Service Area 3 WWTP upgrades are completed.
2. The Service Area 3 WWTP wastewater pre-treatment project was also completed.
3. The Area 5 WWTP upgrades are nearly completed. The damaged influent EQ tank repairs are now completed. The final punch list items are being completed at this time..
4. The design for the sludge facility at Area 6 is on hold at this time.
5. The design for the Area 3 to 4 re-pump and force main design is in progress.

D. Grants Update Summary

1. LP44041 17 Million dollar Grant – No major changes this month.
 - i. Finance is working on the next draw at this time.
2. Regarding the ACOE PCA: We received a grant for \$948,000.00 for the fiscal year 2019-2020!!