




## Utility Department Monthly Update

**MEETING DATE:** July 9, 2019

**TO:** Honorable Mayor and City Councilmembers

**FROM:** Daniel Saus, Utility Director 

**THROUGH:** Charles Lindsey, City Manager

**SUBJECT:** **June 2019 Utility Department Update**

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### A. Wastewater Treatment Plants

#### 1. General Issues

- a. We are working on the odor control upgrades at the Area 3 plant, the remote vacuum station, and the Area 5 plant. Installation should be completed within two weeks.

#### 2. Odor Complaints / Mitigation

- a. We received no odor complaints for the wastewater treatment facilities in June.

#### 3. Effluent Quality Report/Plant Performance

The May 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:**

**MAY 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	0.177	2.47	2.53	0.5	2.1	1.55	2.38	0.719	0.964
AREA 4	0.400	0.266	1.64	5.33	0.97	1.55	0.818	1.92	0.637	0.78
AREA 5	0.450	0.271	1.93	1.29	0.5	0.82	1.48	1.98	0.30	0.39
AREA 6	0.200	0.073	1.0	1.68	0.5	0.78	1.48	1.91	0.188	0.133
AREA 7	0.200	0.036	5.9	1.89	1.48	0.77	2.19	1.67	0.189	0.123

## B. Collection System

1. In June, we were caught up on the grease trap list and have full compliance at this time.
2. Our new technician assigned to the grinder pump system in Grassy Key has made tremendous progress and the system is now better than it ever has been with minimal alarms and/or call outs.
3. Vacuum Station Salinities for June:
  - a. January's vacuum station salinities were at as follows (in parts per thousand): SA3: 1.9; SA4: 1.6; SA5: 2.4; SA6: 0.8 and SA7: 0.9. This indicates a very little amount of saltwater intrusion into our system.
4. 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)

## 5. 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.

## 6. Call-Outs

- a. From June 1st to June 30th there were 41 documented Call outs for the entire Collections System. Of these, 31 were system generated, typically low vacuum detected at one of our Vacuum Stations. These 31 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. 6-8-19: Backup Area 4. 451 64<sup>th</sup> Street. The Resident called the afterhours MOD phone about a backup at the property. The Tech arrived and found the Vacuum Pit to be overwhelmed with water. He fired the Vacuum Pit manually emptying the sump of water and put the pit back into service. No damage to property.
  - ii. 6-9-19: Backup Area 5. 781 83<sup>rd</sup> Street. The Resident called the afterhours MOD phone and the Tech responded to the call. He investigated and found the Vacuum Pit to be overwhelmed with water and the Clean out cap broken with a rock situated on top covering it. He took a picture of the Clean out and he manually fired the Vacuum Pit to clear the sump of water and put the pit back into operation. The Collections Dept. repaired the broken Cleanout the very next morning as it was part of City property. No damage to property.
  - iii. 6-9-19: Alarm Area 7. 58569 Morton Street. The Resident called the afterhours MOD phone to tell the Tech about the Alarm going off on the Grinder Pump Station and he responded to the call. He investigated and found the Grinder Pump Station working properly. The actual Alarm itself was malfunctioning. The Lift Station Tech showed up the next morning and fixed the problem No damage to property.
  - iv. 6-12-19: Backup Area 5. 1116 73<sup>rd</sup> Street. The Resident called the afterhours MOD phone and informed the Tech that water was backing up into the property. He responded and found the City equipment working properly. Home owner side issue.
  - v. 6-17-19: Backup Area 5. 10887 O/S Hwy. The Law Offices of Hal Schumacher. The business called City Hall and the Tech responded. He found

the Controller had come off of the valve and caused the Vacuum Pit to fill with water. He replaced the Controller and Valve and manually fired the pit clearing the water from the sump. The pit was then put back into service. No damage to property.

- vi. 6-20-19: Backup Area 4. 740 46<sup>th</sup> Street. A resident called the afterhours MOD phone about a backup at the property. A Tech responded and inspected the Vacuum Pit. He found a bad Controller and Valve. He replaced the Controller and Valve, then manually fired the pit to clear the water out of the sump. No damage to property.
- vii. 6-21-19: Backup Area 4. 104 41<sup>st</sup> Street. The MOD phone received a call about a backup at the property. The Tech responded and inspected the Vacuum Pit. He found that the Suction Tube was clogged with grease and debris. He cleared the clog and put the pit back into service. He also informed the resident about not putting grease or oils down the drains. No damage to property.
- viii. 6-21-19: Backup Area 5. 800 74<sup>th</sup> Street. The afterhours Mod phone received a call about a backup at the residence. The Tech responded and inspected the Vacuum Pit. He found the Controller and Valve bad. He replaced the Controller and Valve, then fired the pit manually clearing the sump of water. He then put the pit back into operation. No damage to property.
- ix. 6-26-19: Backup Area 3. 408 30<sup>th</sup> Street. The afterhours MOD phone received a call about a backup from the residence and the Tech responded. He inspected the City Equipment and found it to be working properly. Homeowner side issue.
- x. 6-29-19: Backup Area 4. 3800 Gulfview Ave. Marlin Bay. The afterhours MOD phone received a call about a backup from the residence and the Tech responded. He inspected the City Equipment and found that the Breather had come loose in the Vacuum Pit. He installed a new Controller and Valve. He reinserted the Breather then manually fired the pit emptying the sump of water. He then put the pit back into service. No damage to property.

## 7. Odor Complaints / Mitigation

- a. We received one odor complaint in June for the collection system for the remote vacuum station located at the corner of US1 and Aviation Boulevard. An odor control upgrade for this area was approved by City Council at the last council meeting and that equipment has been received. Installation and start-up are scheduled for July 8<sup>th</sup>.

## C. Service Plant upgrades & Construction

- 1. The Service Area 3 WWTP redundant filter upgrade project was approved and the filter is nearly completed.. ACOE grant money is available for reimbursement.

2. The Service Area 3 WWTP wastewater pre-treatment project was recently approved by Council and work is well underway. We expect completion before the end of July.
3. The Area 5 WWTP upgrades are still in progress. The damaged influent EQ tank repairs are nearly completed. The final coatings are going on at this time. We expect the tank to be back on line before mini season.
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 is now 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 (possible grant money for next year) : The House E & W Appropriations Committee just released the report for the fiscal 2020 Energy-Water Appropriations bill. The bill was passed by the full committee and it contains \$100M for Army Corps Section 219! This is the most funding we have ever seen from the House side for the Section 219 program. We still need to see where the Senate comes down and how they hash out the difference later in the year but this is a great start for a chance at FY2020 funding from ACOE.