




## Utility Department Monthly Update

**MEETING DATE:** January 11, 2021

**TO:** Honorable Mayor and City Councilmembers

**FROM:** Daniel Saus, Utility Director 

**THROUGH:** George Garrett, City Manager

**SUBJECT:** December 2021 Utility Department Update

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### A. Wastewater Treatment Plants

#### 1. General Issues

- a. Bids for the Chemical Feed Upgrades were received last month and came in substantially over the projection. I coordinated with our engineer and the only bidder to see if we can find some substantial savings through value engineering. We were able to lower the price from \$3.9 million down to \$2.715 million.

#### 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 November 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:**

**November 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	0.168	1.0	1.5	0.5	0.8	1.76	1.67	0.609	0.706
AREA 4	0.400	0.367	1.0	1.2	0.75	0.9	0.719	1.2	0.230	0.174
AREA 5	0.450	0.381	1.0	1.7	0.5	0.9	1.46	1.2	0.240	0.3
AREA 6	0.200	0.086	1.0	1.9	0.5	0.9	1.25	1.08	0.269	0.430
AREA 7	0.200	0.049	1.58	2.2	0.5	0.5	0.959	1.40	0.178	0.271

## B. Collection System

1. The month of December had average flows for this time of year.
2. Vacuum Station Salinities for December:
  - a. August's vacuum station salinities were at as follows (in parts per thousand): A3: 2.6 SA4: 3.2; SA5: 6.8; SA6: 3.3 and SA7: 2.2. 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. We have hired additional staff to find and address these leaks, most still left-over damages from Irma.
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 still 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 December 1st to December 28th there were 36 documented Call outs for the entire Collections System. Of these, 29 were system generated typically a low vacuum detected at one of our Vacuum Stations. These 29 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. 12-13-21: Backup Area 7. 57591 Morton Street. 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 check valves and stators were bad in the station. He replaced both check valves and stators then proceeded to put the station back into service. No damage to property.

ii. 12-13-21: Backup Area 4. 337 Sombrero Bch. Road. The MOD phone received a call about a backup at the property. The Tech responded and inspected the vacuum pit and found the unit to be in good working order. He let the Homeowner know to call a plumber. No damage to property.

iii. 12-14-21: Backup Area 3. Lazy Days 725 11<sup>th</sup> Street. The MOD phone received a call about a backup at the property. The Tech responded and inspected the vacuum pit and found the sensor tube line to be malfunctioning. He replaced the sensor tube line and put the unit back into operation. No damage to property.

iv. 12-15-20: Backup Area 7. 171 Orange 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 the stators to be bad in the station. He replaced both stators then put the station back into service. No damage to property.

v. 12-15-21: Backup Area 5. 11335 6<sup>th</sup> Ave. Ocean. The MOD phone received a call about a backup at the property. The Tech responded and inspected the vacuum pit and

found the unit to be in good working order. He let the Homeowner know to call a plumber. No damage to property.

vi. 12-22-21: Backup Area 3. Faro Blanco 1994 O/S Hwy. The MOD phone received a call about a backup at the property. The Tech responded and inspected the lift station and found the city equipment was working properly. The Tech showed the maintenance staff that the city equipment was working properly and informed them that the issue was related to the property.

vii. 12-25-21: Backup Area 6. 99 Ave E. The MOD phone received a call about a backup at the property. The Tech responded and inspected the vacuum pit and found the controller and valve to be bad. He replaced both the valve and controller then put the unit back into service. No damage to property.

## 6. Odor Complaints / Mitigation

b. We received no odor complaints in December 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.
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 which is due March 10, 2022.

## 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 get to bid soon. We are hoping for another larger award next year.