



City of Montgomery

Operations Report

April 2021

03/18/21 - 04/17/21

Dear City of Montgomery Council Members:

We are pleased to provide you with the monthly operations report. This report summarizes the major events that occurred during the operating month. Our mission, as always, is to assist the district in providing safe and reliable water to the residents.

The water plants, wastewater plant and drinking water quality is checked on a daily basis. Wastewater collection system lift stations are checked three times a week. Alarms are monitored, and our staff is on 24-hour call. Our construction crews are minutes away from the City.

Our operators collect and enter all facility data into Kardia. Our operators note any issues or problems that are observed during the day. Mission Control is instantly aware of the issue and immediately begins the resolution process. This approach benefits our clients because decisions can be made based on relevant data.

All the district's data can be accessed on-line. The data is username and password protected. The data is integrated with Kardia and updated daily. District alerts that are generated by Kardia can be sent to board designated recipients. H2O Innovation appreciates the trust and confidence that the board has in our team. We work diligently to provide our clients with accurate and useful information.

Michael Williams



Vice President
H2O Innovation

District Alerts

03/23/2021 – Lift Station 3, Generator Running

Operator was called out to facility for generator running. Operator investigated the area and found normal power on upon arrival.

04/07/2021 – Lift Station 2, No Power and VFD failure

Operator was notified of power outage at the facility. Upon arrival operator contacted Entergy, to restore power. Operator reset equipment, no further issues.

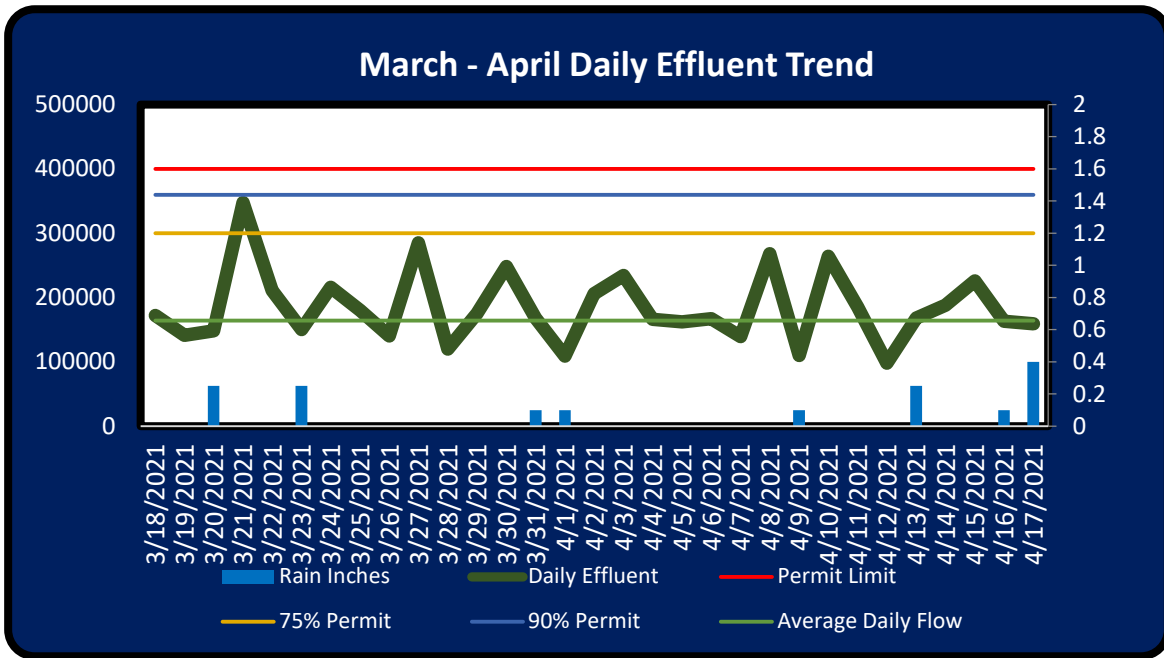
04/10/2021 – Lift Station 5, Generator Running

Operator was called out to facility for generator running. Operator investigated the area and found normal power on upon arrival.

04/16/2021 – Lift Station 3, Generator Running

Operator was called out to facility for generator running due to a power surge in the area. Operator reset equipment and checked facility. No further issues found.

Wastewater Plant Flow Detail



- Flow for the month of March – April was 5,714,000 gallons
- Daily peak flow March 21, 2021 was 348,000 gallons
- Average Daily Flow 184,300 gallons
 - 46% of permitted capacity


Discharge Limitations

- Daily Average Flow 400,000 gallons (0.4 MGD)
- 2-Hour Peak Flow 833 gpm
- CBOD daily average 10 mg/l
- Total Suspended Solids (TSS) 15 mg/l
- Ammonium Nitrogen (NH₃) 2 mg/l
- Chlorine Residual >1.0 mg/l < 4.0 mg/l
- The current permit expires 06/01/2022

Effluent

TSS, DO, E.Coli, NH₃N, PH sample results were all comfortable within the parameters set by the State of Texas.

Buffalo Springs WWTP Effluent Monitoring Report

Effluent Permitted Values	Parameter		Measured	Excursion
Average Monthly T.S.S.	15	mg/l	3.30	no
Average Monthly NH ₃	2	mg/l	0.86	no
Minimal CL ₂ Residual	1	mg/l	1.03	no
Max CL ₂ Residual	4	mg/l	3.82	no
Rainfall for the Month		1.55	inches	

There were no excursions for the month of April.

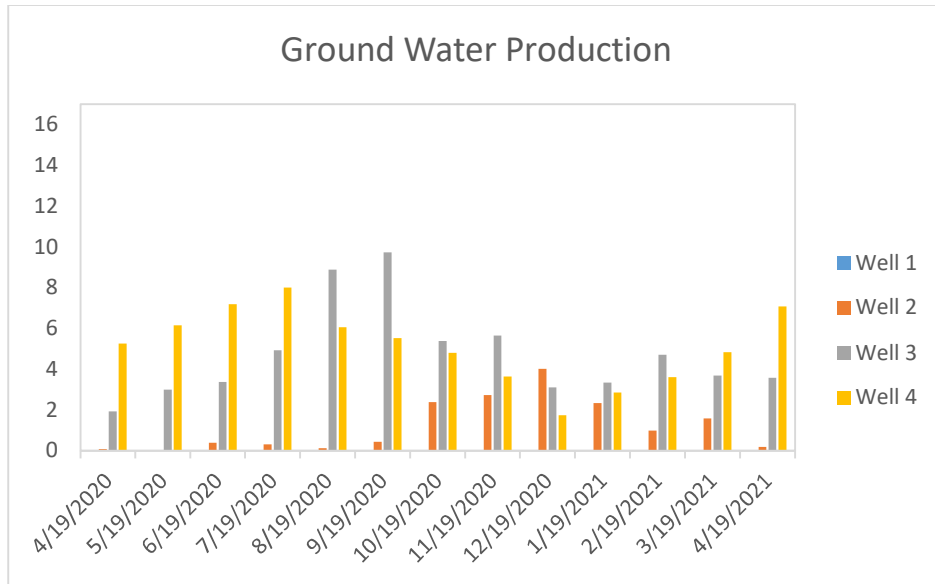
Water Report

03/18/2021-04/17/2021

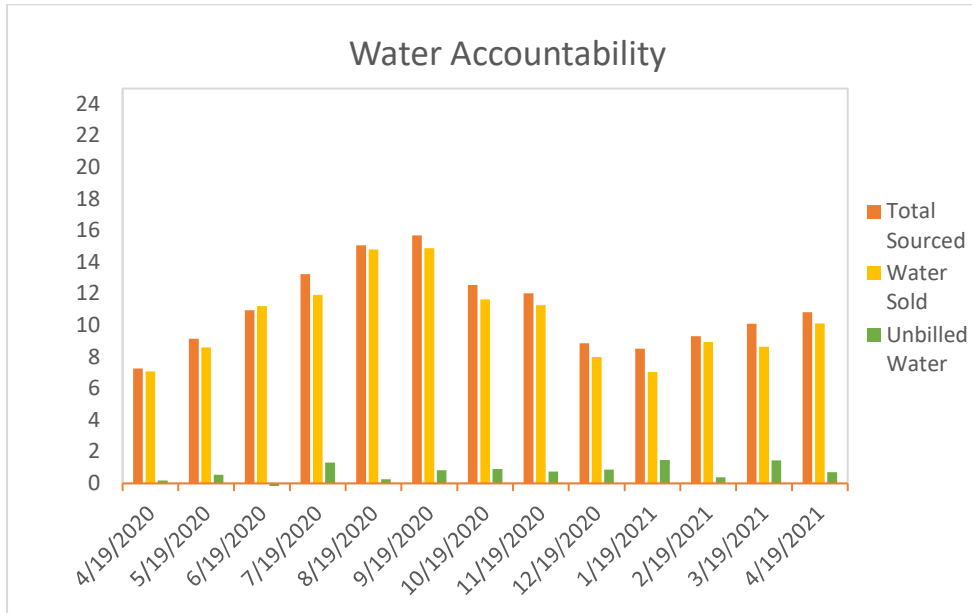
2021							
Well Name	Recorded Flow MGD	% of Total	Rating MGD/Day	YTD Pumpage MGD	YTD %	Permitted Value	Remaining Permit %
Well 2	0.185	1.71%	0.864	3.364	9.73%	92.930	81.26%
Well 3	3.572	32.96%	0.864	14.050	40.64%		
Well 4	7.080	65.33%	2.160	17.162	49.64%	90.000	80.93%
Total	10.837	100.00%	3.888	34.576	100%	182.930	
Flushing	0.318						
Subtotal	10.519						
Sold	10.126						
% Accounted	96%						

Accountability	
Total Water Sourced	10.837
Flushing	0.318
Subtotal	10.519
Sold	10.126
Accountability %	96%

CONNECTIONS	
School	12
Commercial Inside	164
Commercial Outside	1
Residential Inside	755
Residential Outside	29
Church	14
City	15
Hydrant	6
Multifamily	14
n/a	3
Total	1013



Date	Total	Well_1	Well_2	Well_3	Well_4
AVG	11.04	0.000	1.199	4.713	5.132
4/19/2020	7.259	0.000	0.083	1.929	5.247
5/19/2020	9.146	0.000	0.000	2.995	6.151
6/19/2020	10.96	0.000	0.398	3.371	7.191
7/19/2020	13.246	0.000	0.315	4.927	8.004
8/19/2020	15.059	0.000	0.129	8.883	6.047
9/19/2020	15.691	0.000	0.441	9.731	5.519
10/19/2020	12.546	0.000	2.380	5.374	4.792
11/19/2020	12.018	0.000	2.732	5.648	3.638
12/19/2020	8.858	0.000	4.012	3.103	1.743
1/19/2021	8.527	0.000	2.340	3.334	2.853
2/19/2021	9.314	0.000	0.987	4.712	3.615
3/19/2021	10.103	0.000	1.580	3.693	4.830
4/19/2021	10.837	0.000	0.185	3.572	7.080
Total	143.56	0.000	15.582	61.272	66.710



Date	Accountability	Unaccounted	Total Sourced	Water Sold	Flushing/Leaks	Unbilled Water
4/19/2020	100%	-0.017	7.259	7.084	0.192	0.175
5/19/2020	96%	0.325	9.146	8.599	0.222	0.547
6/19/2020	104%	-0.413	10.960	11.215	0.158	-0.255
7/19/2020	92%	1.098	13.246	11.931	0.217	1.315
8/19/2020	100%	0.033	15.059	14.799	0.227	0.260
9/19/2020	99%	0.150	15.691	14.875	0.666	0.816
10/19/2020	93%	0.846	12.546	11.645	0.055	0.901
11/19/2020	95%	0.635	12.018	11.265	0.118	0.753
12/19/2020	94%	0.563	8.858	7.991	0.304	0.867
1/19/2021	96%	0.331	8.527	7.046	1.150	1.481
2/19/2021	97%	0.303	9.314	8.936	0.075	0.378
3/19/2021	94%	0.618	10.103	8.642	0.843	1.461
4/19/2021	96%	0.393	10.837	10.126	0.318	0.711