



City of Montgomery

Operations Report

July 2021

06/18/21 - 07/17/21

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 O&M

District Alerts

06/19/2021—Lift Station 5, Generator Running

Operator was called out to facility for generator running alarm. Upon arrival operator found facility operating on normal power with no issues.

06/29/2021—Leak Reported, Fire Hydrant

During regular line flushing technician noticed hydrant operating nut would not close, the hydrant was valved off, and black bagged. Repairs completed the same week returning hydrant back to normal service.

06/29/2021 – Lift Station 2, VFD Alarm

Operator was called out to facility due to VFD alarm. Upon arrival operator found VFD 1 and 2 tripped and VFD 3 not able to be reset and needing to be replaced. VFD 1 and 2 were reset and VFD 3 was replaced. Pumps running normal.

07/03/2021— Lift Station 9, Lift Pump Failure

Operator was called out to facility for Lift Pump failure alarm. Upon arrival operator found LP#2 tripped at overload. Operator reset equipment, and tested pump. No further issues.

07/03/2021—Lift Station 2, Generator Running

Operator was called to facility due to generator running alarm. Operator investigated issue and found facility running on normal power and generator off.

07/09/2021 – Lift Station 3, Clogged Pumps

During facility check in Operator found lift pump 1 and 2 clogged, operator had both pumps pulled and cleaned. No further issues.

07/10/2021 -- Lift Station 3 - Generator Running, Lift Station 6 - Phase Failure, WWTP - Blowers Off

Operator was called out to LS 3 for generator running alarm. Upon arrival operator found facility running on normal power, possible power surge. Lift Station 6 called out due to phase failure operator investigated area and found both pumps running normal, no issues found at lift station or wastewater treatment plant. Alarms likely caused due to power surge in area.

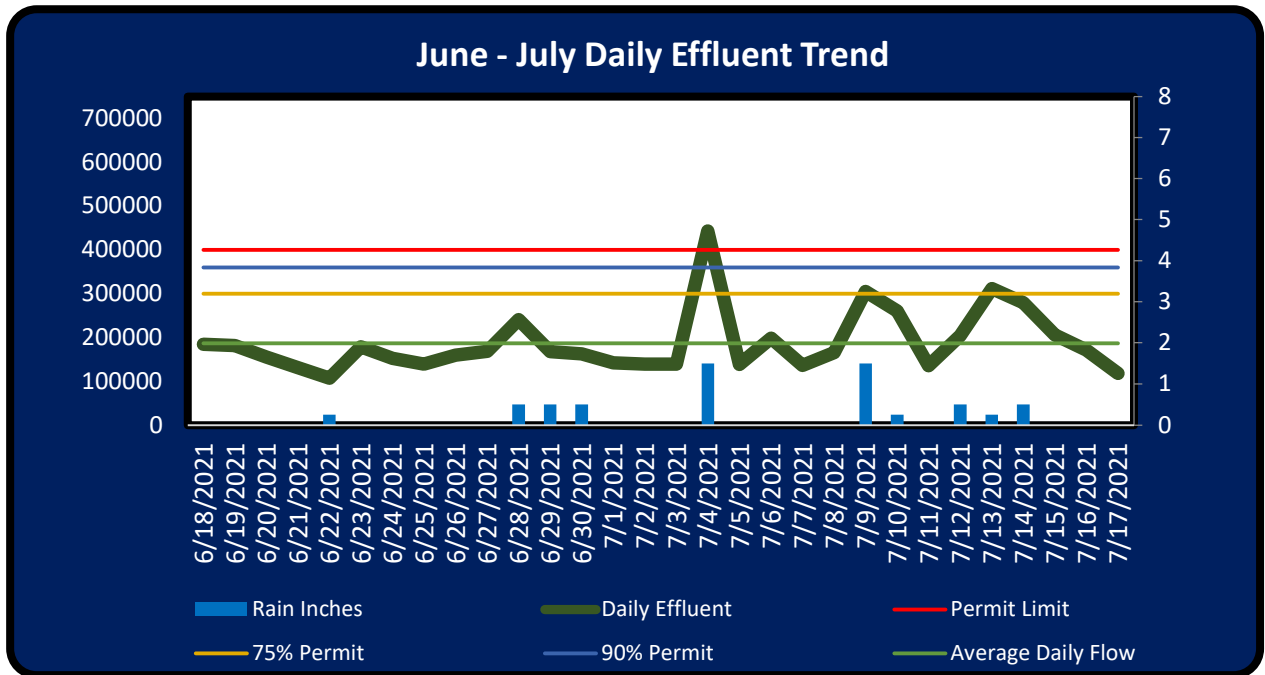
07/12/2021—Wastewater Treatment Plant, Lift Station 3 & 6, Generator Running, VFD Failure

Operator was called out to facility for generator running. Upon arrival operator found the facilities on normal power, no issues found. Operator reset equipment.

07/15/2021 – Water Plant 2, Lift Station 3,4,5,6 and WWTP 2 - Phase Failure

Operator was called out to facilities due to phase failure alarm. Upon arrival operator noticed the whole region was without power due to heavy storms. Energy was notified and power was restored.

Wastewater Plant Flow Detail



- Flow for the month of June - July was 5,611,000 gallons
- Daily peak flow July 04, 2021, was 443,000 gallons
- Average Daily Flow 187,000 gallons
 - 47% 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	2.00	no
Average Monthly NH3	2	mg/l	1.15	no
Minimal CL2 Residual	1	mg/l	1.03	no
Max CL2 Residual	4	mg/l	3.54	no
Rainfall for the Month			6.25	inches

There were no excursions for the month of July.

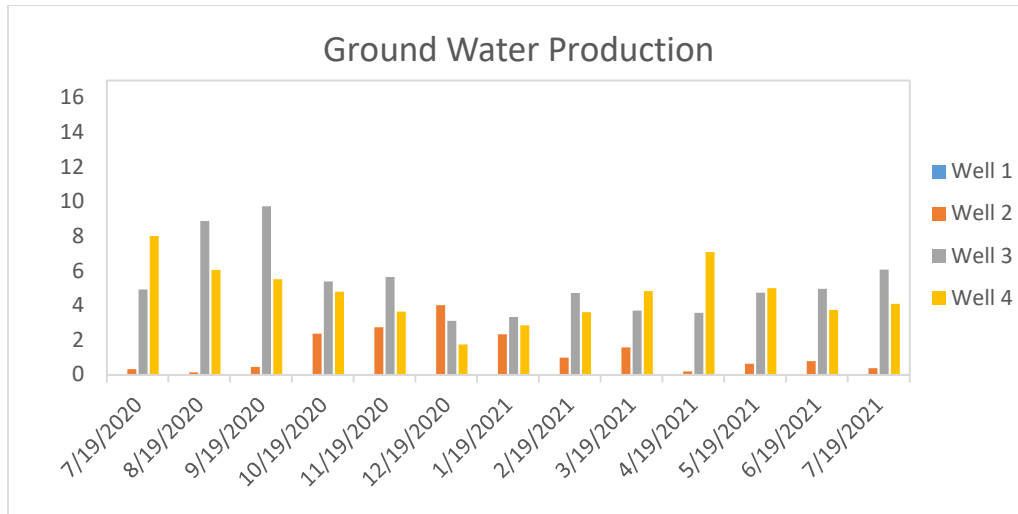
Water Report

06/18/2021-07/17/2021

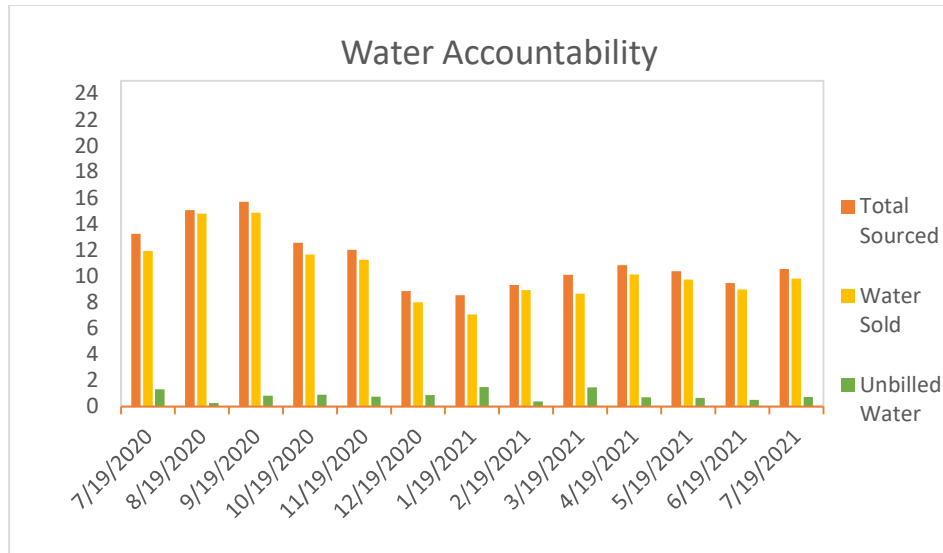
2021							
Well Name	Recorded Flow MGD	% of Total	Rating MGD/Day	YTD Pumpage MGD	YTD %	Permitted Value	Remaining Permit %
Well 2	0.372	3.53%	0.864	5.151	7.93%	92.930	62.37%
Well 3	6.073	57.63%	0.864	29.819	45.91%		
Well 4	4.093	38.84%	2.160	29.985	46.16%	90.000	66.68%
Total	10.538	100.00%	3.888	64.955	100%	182.930	
Flushing	0.101						
Subtotal	10.437						
Sold	9.803						
% Accounted	94%						

Accountability	
Total Water Sourced	10.538
Flushing	0.101
Subtotal	10.437
Sold	9.803
Accountability %	94%

CONNECTIONS	
School	12
Commercial Inside	166
Commercial Outside	1
Residential Inside	770
Residential Outside	29
Church	14
City	15
Hydrant	7
Multifamily	14
n/a	3
Total	1031



Date	Total	Well_1	Well_2	Well_3	Well_4
AVG	11.28	0.000	1.299	5.288	4.688
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
5/19/2021	10.365	0.000	0.642	4.734	4.989
6/19/2021	9.476	0.000	0.773	4.962	3.741
7/19/2021	10.538	0.000	0.372	6.073	4.093
Total	146.58	0.000	16.888	68.746	60.944



Date	Accountability	Unaccounted	Total Sourced	Water Sold	Flushing/Leaks	Unbilled Water
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	97%	0.328	10.837	10.126	0.383	0.711
5/19/2021	96%	0.465	10.365	9.722	0.178	0.643
6/19/2021	96%	0.332	9.476	8.966	0.178	0.510
7/19/2021	94%	0.634	10.538	9.803	0.101	0.735