CITY OF JACKSON
O. B. Curtis Water Treatment Plant
Monthly Report For HS# 1

System ID   **250008-02**
Month of   **February 2019**

1. Total number of turbidity measurements taken during the month.

CONTINUOUS

2. Percentage of turbidity that were equal to or less than the turbidity limit of 0.3 NTU.

99.9%

3. Number of filters that exceeded 0.5 NTU in 2 consecutive readings taken 15 min. apart after first four hours of operation.

NONE

4. Number of filters that exceeded 1.0 NTU in 2 consecutive readings taken 15 min. apart in 3 consecutive months.

NONE

5. Lowest daily disinfectant concentration entering the distribution system in mg/l.

1	3.2	7	2.7	13	2.9	19	3.5	25	2.5
2	2.9	8	2.8	14	3.3	20	2.7	26	2.6
3	2.6	9	2.6	15	2.6	21	2.8	27	2.5
4	2.6	10	2.8	16	3.5	22	3.6	28	2.1
5	2.6	11	3.1	17	3.4	23	2.7		
6	2.5	12	2.1	18	3.7	24	2.7		

6. Date and duration of each period the disinfectant fell below 0.2 mg/l for more than an hour while entering the distribution system.

NONE

7. Total number of disinfectant residual measured in the distribution system where total coliform samples were collected.

126

8. Number of instances where disinfectant was not measured in the distribution system where total coliform samples were collected.

NONE

9. Number of instances where disinfectant was measured in the distributed system but not detected.

NONE

City Of Jackson, MS
O. B. Curtis Surface Water Treatment Plant
Turbidity Compliance Report

System ID   **250008-02**
Month Of   **February 2019**

Feb 2019	TURBIDITIES (NTU)		
	RAW	SETTLED	FILTERS
1	22.3	1.06	0.20
2	21.9	1.38	0.16
3	21.3	1.45	0.16
4	20.8	1.41	0.16
5	21.9	1.42	0.29
6	22.9	1.41	0.15
7	22.3	1.23	0.16
8	26.1	1.13	0.14
9	29.6	1.21	0.15
10	26.0	1.32	0.13
11	24.2	1.34	0.19
12	24.3	1.32	0.23
13	23.2	1.23	0.20
14	22.0	1.21	0.16
15	20.4	1.29	0.12
16	19.8	1.19	0.14
17	21.0	1.29	0.13
18	22.5	1.34	0.27
19	24.0	1.66	0.17
20	22.3	1.75	0.46
21	20.1	1.24	0.12
22	18.8	1.48	0.13
23	22.5	1.03	0.16
24	20.3	0.90	0.14
25	21.8	0.95	0.18
26	29.0	1.02	0.12
27	27.0	0.96	0.13
28	29.9	0.84	0.12
MIN	18.8	0.84	0.12
MAX	29.9	1.75	0.46
AVG	23.2	1.25	0.13

City Of Jackson, MS
O. B. Curtis Surface Water Treatment Plant
Turbidity Compliance

System ID   **250008-02**
Month Of   **February 2019**

Feb 2019	TIME					
	12:00 AM	**4:00 AM**	**8:00 AM**	**12:00 PM**	**4:00 PM**	**8:00 PM**
1	0.12	0.14	0.14	0.11	0.13	0.20
2	0.16	0.13	0.12	0.13	0.14	0.16
3	0.16	0.15	0.15	0.16	0.14	0.13
4	0.13	0.13	0.16	0.10	0.08	0.09
5	0.08	0.24	0.29	0.27	0.13	0.13
6	0.14	0.15	0.15	0.12	0.12	0.14
7	0.14	0.16	0.12	0.13	0.13	0.14
8	0.14	0.14	0.12	0.11	0.12	0.13
9	0.13	0.13	0.15	0.15	0.12	0.13
10	0.13	0.12	0.11	0.10	0.10	0.11
11	0.12	0.11	0.12	0.19	0.13	0.17
12	0.23	0.16	0.13	0.14	0.14	0.16
13	0.18	0.20	0.19	0.14	0.13	0.14
14	0.13	0.16	0.13	0.11	0.10	0.12
15	0.11	0.12	0.10	0.09	0.10	0.12
16	0.10	0.09	0.10	0.12	0.12	0.14
17	0.13	0.13	0.13	0.11	0.12	0.12
18	0.11	0.12	0.27	0.10	0.10	0.14
19	0.13	0.14	0.16	0.17	0.14	0.17
20	0.13	0.12	0.46	0.12	0.11	0.11
21	0.10	0.10	0.10	0.10	0.09	0.12
22	0.10	0.10	0.13	0.11	0.10	0.13
23	0.12	0.13	0.14	0.13	0.16	0.16
24	0.14	0.10	0.10	0.10	0.10	0.13
25	0.18	0.18	0.16	0.10	0.10	0.09
26	0.09	0.10	0.10	0.09	0.09	0.12
27	0.11	0.11	0.13	0.11	0.11	0.12
28	0.12	0.11	0.10	0.10	0.09	0.11
MIN	**0.08**	**0.09**	**0.10**	**0.09**	**0.08**	**0.09**
MAX	**0.23**	**0.24**	**0.46**	**0.27**	**0.16**	**0.20**
AVG	**0.13**	**0.13**	**0.15**	**0.13**	**0.12**	**0.13**

City Of Jackson, MS
O. B. Curtis Surface Water Treatment Plant
Disinfectant Compliance

System ID   **250008-02**
Month Of   **February 2019**

Feb 2019	TIME					
	12:00 AM	**4:00 AM**	**8:00 AM**	**12:00 PM**	**4:00 PM**	**8:00 PM**
1	3.2	3.3	3.3	3.4	3.5	3.5
2	3.3	3.2	3.1	3.0	2.9	2.9
3	2.8	2.8	2.8	2.7	2.7	2.6
4	2.7	2.7	2.6	2.6	2.8	2.7
5	2.7	2.7	2.6	2.6	2.6	2.6
6	2.7	2.7	2.7	2.5	2.6	2.6
7	2.7	2.7	2.8	2.8	2.9	2.9
8	2.9	2.9	2.9	2.9	2.8	2.8
9	2.9	2.8	2.7	2.6	2.8	2.8
10	2.8	2.8	2.9	2.9	3.2	3.2
11	3.1	3.1	3.2	3.3	3.3	3.3
12	3.3	3.3	3.2	2.2	2.1	2.7
13	2.9	3.4	3.4	3.4	3.5	3.4
14	3.8	3.7	3.7	3.6	3.4	3.3
15	3.1	2.9	2.7	2.6	3.1	3.6
16	3.6	3.6	3.5	3.6	3.5	3.5
17	3.5	3.5	3.4	3.4	3.5	3.5
18	3.7	3.7	3.7	3.7	3.7	3.7
19	3.8	3.6	3.5	3.8	3.9	3.8
20	3.9	3.8	3.4	3.3	2.7	3.7
21	3.8	3.4	2.8	3.0	3.1	3.9
22	3.8	3.9	3.9	3.9	3.8	3.6
23	3.2	3.0	3.1	3.2	2.7	2.9
24	2.7	2.8	3.0	3.1	3.5	2.9
25	3.4	3.2	3.9	3.4	3.5	2.5
26	2.6	2.7	3.2	3.6	3.5	3.3
27	3.4	2.9	3.6	3.2	3.0	2.5
28	2.9	3.0	2.1	2.8	3.5	3.0
MIN	**2.6**	**2.7**	**2.1**	**2.2**	**2.1**	**2.5**
MAX	**3.9**	**3.9**	**3.9**	**3.9**	**3.9**	**3.9**
AVG	**3.2**	**3.1**	**3.1**	**3.1**	**3.1**	**3.1**

CITY OF JACKSON
O. B. Curtis Water Treatment Plant
Monthly Report For HS# 2

System ID   **250008-02**
Month of   **February 2019**

1. Total number of turbidity measurements taken during the month.

CONTINUOUS

2. Percentage of turbidity that were equal to or less than the turbidity limit of 0.3 NTU.

99.9%

3. Number of filters that exceeded 0.5 NTU in 2 consecutive readings taken 15 min. apart after first four hours of operation.

NONE

4. Number of filters that exceeded 1.0 NTU in 2 consecutive readings taken 15 min. apart in 3 consecutive months.

NONE

5. Lowest daily disinfectant concentration entering the distribution system in mg/l.

1	2.6	7	2.4	13	2.4	19	2.1	25	2.4
2	2.4	8	2.3	14	2.7	20	2.0	26	2.4
3	2.3	9	2.2	15	2.6	21	2.2	27	2.3
4	2.1	10	2.2	16	2.6	22	2.4	28	2.4
5	2.3	11	2.4	17	2.5	23	2.1		
6	2.4	12	2.5	18	2.5	24	2.4		

6. Date and duration of each period the disinfectant fell below 0.2 mg/l for more than an hour while entering the distribution system.

NONE

7. Total number of disinfectant residual measured in the distribution system where total coliform samples were collected.

126

8. Number of instances where disinfectant was not measured in the distribution system where total coliform samples were collected.

NONE

9. Number of instances where disinfectant was measured in the distributed system but not detected.

NONE

City Of Jackson, MS
O. B. Curtis Surface Water Treatment Plant
Turbidity Compliance Report

System ID   **250008-02**
Month Of   **February 2019**

Feb 2019	TURBIDITIES (NTU)	
	RAW	FINISHED
1	22.3	0.29
2	21.9	0.30
3	21.3	0.24
4	20.8	0.32
5	21.9	0.24
6	22.9	0.19
7	22.3	0.41
8	26.1	0.28
9	29.6	0.18
10	26.0	0.28
11	24.2	0.17
12	24.3	0.17
13	23.2	0.20
14	22.0	0.14
15	20.4	0.12
16	19.8	0.11
17	21.0	0.11
18	22.5	0.34
19	24.0	0.27
20	22.3	0.24
21	20.1	0.12
22	18.8	0.11
23	22.5	0.13
24	20.3	0.19
25	21.8	0.25
26	29.0	0.12
27	27.0	0.16
28	29.9	0.39
MIN	18.8	0.11
MAX	29.9	0.41
AVG	23.2	0.22

City Of Jackson, MS
O. B. Curtis Surface Water Treatment Plant
Turbidity Compliance

System ID   **250008-02**
Month Of   **February 2019**

Higher finished turbidities due to post-treatment pH adjustment with lime.

Feb 2019	TIME					
	12:00 AM	4:00 AM	8:00 AM	12:00 PM	4:00 PM	8:00 PM
1	0.10	0.10	0.10	0.14	0.27	0.29
2	0.25	0.21	0.30	0.20	0.21	0.22
3	0.22	0.22	0.21	0.24	0.21	0.21
4	0.22	0.25	0.21	0.32	0.22	0.19
5	0.24	0.17	0.17	0.17	0.15	0.15
6	0.16	0.17	0.19	0.17	0.17	0.17
7	0.16	0.16	0.16	0.41	0.17	0.16
8	0.28	0.18	0.17	0.17	0.23	0.18
9	0.17	0.17	0.18	0.16	0.16	0.16
10	0.15	0.15	0.15	0.28	0.15	0.15
11	0.15	0.15	0.15	0.16	0.16	0.17
12	0.16	0.15	0.15	0.15	0.15	0.17
13	0.16	0.15	0.12	0.15	0.20	0.12
14	0.12	0.13	0.14	0.14	0.13	0.12
15	0.12	0.11	0.10	0.11	0.11	0.10
16	0.09	0.10	0.10	0.11	0.09	0.09
17	0.09	0.10	0.11	0.09	0.09	0.09
18	0.10	0.11	0.34	0.08	0.08	0.08
19	0.08	0.06	0.27	0.11	0.11	0.11
20	0.11	0.24	0.10	0.13	0.13	0.13
21	0.12	0.12	0.11	0.12	0.12	0.12
22	0.11	0.11	0.10	0.10	0.10	0.10
23	0.11	0.10	0.13	0.11	0.11	0.10
24	0.10	0.19	0.09	0.11	0.11	0.11
25	0.10	0.25	0.11	0.11	0.10	0.11
26	0.12	0.12	0.12	0.11	0.11	0.12
27	0.13	0.16	0.11	0.11	0.12	0.12
28	0.12	0.11	0.39	0.09	0.11	0.11
MIN	**0.08**	**0.06**	**0.09**	**0.08**	**0.08**	**0.08**
MAX	**0.28**	**0.25**	**0.39**	**0.41**	**0.27**	**0.29**
AVG	**0.14**	**0.15**	**0.16**	**0.16**	**0.15**	**0.14**

City Of Jackson, MS
O. B. Curtis Surface Water Treatment Plant
Disinfectant Compliance

System ID   **250008-02**
Month Of   **February 2019**

Feb 2019	TIME					
	12:00 AM	**4:00 AM**	**8:00 AM**	**12:00 PM**	**4:00 PM**	**8:00 PM**
1	2.8	2.7	2.6	2.8	2.7	2.9
2	2.6	2.5	2.4	2.5	2.4	2.4
3	2.3	2.3	2.4	2.4	2.3	2.3
4	2.3	2.1	2.2	2.5	2.4	2.3
5	2.4	2.4	2.5	2.3	2.3	2.4
6	2.4	2.5	2.6	2.5	2.4	2.4
7	2.4	2.5	2.5	2.4	2.4	2.5
8	2.5	2.5	2.3	2.3	2.4	2.4
9	2.2	2.4	2.3	2.4	2.3	2.4
10	2.4	2.2	2.2	2.7	2.7	2.6
11	2.5	2.4	2.5	2.5	2.5	2.5
12	2.6	2.7	2.5	3.4	3.0	2.5
13	2.5	2.4	2.4	2.5	2.6	2.7
14	3.0	3.0	2.8	2.7	2.7	2.7
15	2.7	2.7	2.6	2.6	2.7	2.6
16	2.6	2.6	2.6	2.7	2.6	2.6
17	2.6	2.5	2.5	2.7	2.7	2.7
18	2.7	2.6	2.5	2.6	2.6	2.5
19	2.3	2.3	2.5	2.2	2.4	2.1
20	3.6	3.4	2.0	2.1	2.2	2.3
21	2.8	3.0	2.4	2.6	2.2	2.7
22	2.5	2.4	2.6	2.5	2.6	2.6
23	2.5	2.6	2.7	2.5	2.3	2.1
24	2.4	2.4	2.5	2.7	2.7	2.8
25	2.7	2.7	2.9	2.5	2.5	2.4
26	2.4	2.5	2.6	2.7	2.7	2.8
27	2.9	3.0	3.0	2.6	2.3	2.3
28	2.4	2.5	2.7	3.0	2.8	2.8
MIN	**2.2**	**2.1**	**2.0**	**2.1**	**2.2**	**2.1**
MAX	**3.6**	**3.4**	**3.0**	**3.4**	**3.0**	**2.9**
AVG	**2.6**	**2.6**	**2.5**	**2.6**	**2.5**	**2.5**

CITY OF JACKSON
J. H. Fewell Treament Plant
Monthly Report

System ID   **250008-01**
Month of   **February 2019**

1. Total number of turbidity measurements taken during the month.

CONTINUOUS

2. Percentage of turbidity that were equal to or less than the turbidity limit of 0.3 NTU.

99.6%

3. Number of filters that exceeded 0.5 NTU in 2 consecutive readings taken 15 min. apart after first four hours of operation.

NONE

4. Number of filters that exceeded 1.0 NTU in 2 consecutive readings taken 15 min. apart in 3 consecutive months.

NONE

5. Lowest daily disinfectant concentration entering the distribution system in mg/l.

1	3.1	7	2.7	13	2.3	19	3.2	25	1.4
2	2.7	8	2.8	14	2.2	20	2.2	26	1.9
3	2.4	9	2.5	15	2.7	21	3.0	27	2.3
4	2.6	10	3.0	16	2.8	22	2.7	28	2.8
5	2.4	11	3.0	17	2.4	23	2.6		
6	2.7	12	2.8	18	3.0	24	2.7		

6. Date and duration of each period the disinfectant fell below 0.2 mg/l for more than an hour while entering the distribution system.

NONE

7. Total number of disinfectant residual measured in the distribution system where total coliform samples were collected.

126

8. Number of instances where disinfectant was not measured in the distribution system where total coliform samples were collected.

NONE

9. Number of instances where disinfectant was measured in the distributed system but not detected.

NONE

City of Jackson, MS
J. H. Fewell Surface Water Treament Plant
Turbidity Compliance Report

System ID   **250008-01**
MONTH   **February 2019**

Feb 2019	TURBIDITIES (NTU)			
	RAW	SETTLED	FILTER	HS #1
1	29.3	0.33	0.18	0.15
2	26.0	0.69	0.18	0.17
3	26.5	0.55	0.17	0.22
4	27.3	0.76	0.16	0.16
5	25.1	0.29	0.07	0.14
6	25.9	0.52	0.15	0.13
7	27.2	0.51	0.05	0.10
8	28.6	0.34	0.11	0.14
9	35.5	0.62	0.15	0.11
10	33.8	0.42	0.17	0.12
11	29.0	0.63	0.15	0.31
12	29.2	0.28	0.15	0.29
13	29.5	0.39	0.07	0.15
14	30.3	0.74	0.07	0.24
15	27.6	0.10	0.04	0.09
16	27.0	0.39	0.10	0.11
17	27.4	1.59	0.11	0.22
18	25.1	0.60	0.06	0.11
19	28.3	0.52	0.14	0.11
20	29.0	0.44	0.06	0.23
21	28.9	0.40	0.13	0.10
22	29.5	0.48	0.15	0.12
23	28.3	0.46	0.18	0.12
24	30.3	0.57	0.18	0.15
25	29.8	0.61	0.15	0.14
26	28.9	0.70	0.15	0.28
27	29.0	0.96	0.26	0.30
28	36.3	0.34	0.07	0.14
MIN	25.1	0.10	0.04	0.09
MAX	36.3	1.59	0.26	0.31
AVG	28.9	0.54	0.13	0.13

City of Jackson, MS
J. H. Fewell Surface Water Treament Plant
Turbidity Compliance

System ID   **250008-01**
MONTH   **February 2019**

Feb 2019	TIME					
	12:00 AM	**4:00 AM**	**8:00 AM**	**12:00 PM**	**4:00 PM**	**8:00 PM**
1	0.10	0.11	0.12	0.15	0.15	0.12
2	0.15	0.16	0.14	0.16	0.17	0.13
3	0.15	0.22	0.16	0.12	0.12	0.12
4	0.12	0.14	0.15	0.12	0.13	0.16
5	0.14	0.09	0.10	0.10	0.09	0.09
6	0.10	0.12	0.13	0.13	0.10	0.09
7	0.09	0.09	0.09	0.10	0.09	0.09
8	0.09	0.09	0.14	0.11	0.10	0.10
9	0.10	0.10	0.09	0.11	0.10	0.11
10	0.11	0.12	0.11	0.12	0.12	0.12
11	0.11	0.12	0.16	0.31	0.29	0.29
12	0.29	0.29	0.11	0.11	0.09	0.10
13	0.11	0.11	0.14	0.15	0.13	0.11
14	0.13	0.24	0.14	0.09	0.08	0.08
15	0.08	0.08	0.09	0.09	0.09	0.09
16	0.10	0.10	0.11	0.10	0.10	0.10
17	0.10	0.12	0.22	0.18	0.12	0.10
18	0.09	0.09	0.10	0.10	0.11	0.10
19	0.09	0.09	0.09	0.11	0.11	0.11
20	0.10	0.11	0.23	0.19	0.16	0.11
21	0.10	0.10	0.09	0.09	0.10	0.10
22	0.10	0.12	0.12	0.12	0.12	0.10
23	0.10	0.11	0.11	0.11	0.11	0.12
24	0.12	0.13	0.15	0.15	0.12	0.12
25	0.11	0.11	0.11	0.10	0.11	0.14
26	0.14	0.13	0.14	0.14	0.22	0.28
27	0.30	0.27	0.21	0.18	0.14	0.11
28	0.11	0.11	0.11	0.14	0.13	0.13
MIN	**0.08**	**0.08**	**0.09**	**0.09**	**0.08**	**0.08**
MAX	**0.30**	**0.29**	**0.23**	**0.31**	**0.29**	**0.29**
AVG	**0.12**	**0.13**	**0.13**	**0.13**	**0.13**	**0.12**

City Of Jackson, MS
J. H. Fewell Surface Water Treatment Plant
Disinfectant Compliance

System ID　　　　**250008-01**
MONTH　　　　　**February 2019**

Feb 2019	TIME					
	12:00 AM	4:00 AM	8:00 AM	12:00 PM	4:00 PM	8:00 PM
1	3.5	3.4	3.4	3.1	3.1	3.1
2	3.2	3.1	3.1	2.7	2.9	2.8
3	2.9	2.9	2.8	2.8	2.4	2.7
4	2.7	2.7	2.7	2.7	2.7	2.6
5	2.4	2.7	2.7	2.7	2.7	2.6
6	2.7	3.1	3.0	2.7	2.8	3.2
7	3.3	3.4	2.7	3.0	3.1	3.1
8	3.2	3.2	3.2	3.0	2.8	3.2
9	3.1	3.2	3.2	2.5	3.1	3.1
10	3.0	3.0	3.1	3.1	3.1	3.2
11	3.3	3.6	3.2	3.1	3.1	3.0
12	3.0	3.0	3.0	2.9	2.8	2.9
13	2.4	2.9	2.5	2.3	2.8	2.9
14	2.7	2.2	2.3	2.6	2.9	3.0
15	3.0	2.7	2.7	2.8	2.9	2.9
16	2.9	2.9	2.9	2.9	2.9	2.8
17	2.7	2.8	2.4	2.4	2.9	3.1
18	3.2	3.2	3.1	3.0	3.1	3.3
19	3.3	3.2	3.2	3.2	3.4	3.4
20	3.5	3.6	2.2	2.5	2.9	3.2
21	3.2	3.3	3.3	3.2	3.0	3.0
22	3.0	2.9	2.7	2.7	2.7	2.7
23	2.8	2.6	2.8	2.8	2.6	2.7
24	2.7	2.8	2.8	2.8	2.9	2.9
25	2.9	2.3	2.4	2.3	2.5	1.4
26	1.9	2.4	2.3	2.6	2.6	2.4
27	2.3	3.3	3.5	3.5	3.1	3.1
28	3.1	3.0	3.1	3.0	2.9	2.8
MIN	**1.9**	**2.2**	**2.2**	**2.3**	**2.4**	**1.4**
MAX	**3.5**	**3.6**	**3.5**	**3.5**	**3.4**	**3.4**
AVG	**2.9**	**3.0**	**2.9**	**2.8**	**2.9**	**2.9**

CITY OF JACKSON
DISTRIBUTION SYSTEM DISINFECTANT DATA

System ID   **250008**
Month of   **February 2019**

DATE	No. of sites, disinfectant residual measured (a)	No. of sites, no disinfectant measured, HPC measured (b)	No. of sites, disinfectant residual not detected, no HPC measured (c)	No. of sites, disinfectant residual not detected. HPC> 500/ml (d)	No. of sites, disinfectant residual not measured. HPC > 500/ml (e)
	COL 2	COL 3	COL 4	COL 5	COL 6
1					
2					
3					
4	38				
5	11				
6	25				
7	10				
8					
9					
10					
11					
12	16				
13	20				
14	6				
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
Total	126	0	0	0	0

V =   (c+d+e)/(a+b)*100

V =   0

CITY OF JACKSON
CHLORINE DIOXIDE COMPLIANCE

Feb-19	SYSTEM ID: 250008-02		SYSTEM ID: 250008-01	
	O.B. CURTIS		J. H. FEWELL	
	ClO_2	ClO^-	ClO_2	ClO^-
1	OFF	OFF	OFF	OFF
2	OFF	OFF	OFF	OFF
3	OFF	OFF	OFF	OFF
4	OFF	OFF	OFF	OFF
5	OFF	OFF	OFF	OFF
6	OFF	OFF	OFF	OFF
7	OFF	OFF	OFF	OFF
8	OFF	OFF	OFF	OFF
9	OFF	OFF	OFF	OFF
10	OFF	OFF	OFF	OFF
11	OFF	OFF	OFF	OFF
12	OFF	OFF	OFF	OFF
13	OFF	OFF	OFF	OFF
14	OFF	OFF	OFF	OFF
15	OFF	OFF	OFF	OFF
16	OFF	OFF	OFF	OFF
17	OFF	OFF	OFF	OFF
18	OFF	OFF	OFF	OFF
19	OFF	OFF	OFF	OFF
20	OFF	OFF	OFF	OFF
21	OFF	OFF	OFF	OFF
22	OFF	OFF	OFF	OFF
23	OFF	OFF	OFF	OFF
24	OFF	OFF	OFF	OFF
25	OFF	OFF	OFF	OFF
26	OFF	OFF	OFF	OFF
27	OFF	OFF	OFF	OFF
28	OFF	OFF	OFF	OFF

DISTRIBUTION SITES			
DATE	SITE	ClO_2	ClO^-
	Olympia		
	Boling St		
	John Hopkins		

CITY OF JACKSON
TOC REMOVAL SUMMARY

TOC Table- Required % Removal of TOC			
Source Water TOC (ppm)	Source Water Alkalinity, ppm as CaCO$_3$		
	0-60	>60-120	>120
>2.0 to 4.0	35.0%	25.0%	15.0%
>4.0 to 8.0	45.0%	35.0%	25.0%
>8.0	50.0%	40.0%	30.0%

$$\% \text{ ACTUAL TOC REMOVED} = \frac{\text{RAW TOC - FINISHED TOC}}{\text{RAW TOC}} \times 100\%$$

$$\text{TOC REMOVAL RATIO} = \frac{\% \text{ ACTUAL TOC REMOVED}}{\text{REQUIRED TOC REMOVAL}}$$

Date	Water Treatment Plant	TOC Summary			TOC % Removal Summary		
		Source Water Alkalinity (ppm)	Source Water TOC (ppm)	Treated Water TOC (ppm)	Actual TOC Removed (%)	Required TOC Removal (%)	TOC Removal Ratio
1/3/2019	OBC HS1	11	12.9	2.1	83.7	50.0	1.67
	OBC HS2	11	12.9	3.5	72.9	50.0	1.46
	JHF HS1	12	12.4	4.6	62.9	50.0	1.26
1/7/2019	OBC HS1	10	12.8	2.8	78.1	50.0	1.56
	OBC HS2	10	12.8	2.8	78.1	50.0	1.56
	JHF HS1	19	12.8	3.0	76.6	50.0	1.53
1/14/2019	OBC HS1	8	13.8	3.7	73.2	50.0	1.46
	OBC HS2	8	13.8	4.4	68.1	50.0	1.36
	JHF HS1	9	12.7	4.0	68.5	50.0	1.37
1/22/2019	OBC HS1	9	10.6	1.4	86.8	50.0	1.74
	OBC HS2	9	10.6	1.7	84.0	50.0	1.68
	JHF HS1	8	10.9	1.7	84.4	50.0	1.69
1/28/2019	OBC HS1	7	10.0	3.3	67.0	50.0	1.34
	OBC HS2	7	10.0	4.6	54.0	50.0	1.08
	JHF HS1	10	10.8	4.1	62.0	50.0	1.24
2/5/2019	OBC HS1	10	4.9	1.0	79.6	45.0	1.77
	OBC HS2	10	4.9	1.3	73.5	45.0	1.63
	JHF HS1	10	7.4	1.4	81.1	45.0	1.80
2/14/2019	OBC HS1	12	10.5	4.0	61.9	50.0	1.24
	OBC HS2	12	10.5	4.6	56.2	50.0	1.12
	JHF HS1	17	9.7	2.9	70.1	50.0	1.40
2/19/2019	OBC HS1	9	7.7	5.9	23.4	45.0	0.52
	OBC HS2	9	7.7	7.1	7.8	45.0	0.17
	JHF HS1	12	10.2	2.5	75.5	50.0	1.51
2/27/2019	OBC HS1	10	9.1	1.9	79.1	50.0	1.58
	OBC HS2	10	9.1	2.2	75.8	50.0	1.52
	JHF HS1	11	9.9	5.7	42.4	50.0	0.85
	OBC HS1				#DIV/0!		
	OBC HS2				#DIV/0!		
	JHF HS1				#DIV/0!		
	OBC HS1				#DIV/0!		
	OBC HS2				#DIV/0!		
	JHF HS1				#DIV/0!		
	OBC HS1				#DIV/0!		
	OBC HS2				#DIV/0!		
	JHF HS1				#DIV/0!		
RUNNING ANNUAL AVERAGE	OBC HS1						1.43
	OBC HS2						1.29
	JHF HS1						1.41
					TOTAL COMBINED RUNNING ANNUAL AVERAGE		1.37

CITY OF JACKSON
CORROSION CONTROL DATA

February 2019		SYSTEM ID: 250008-02			SYSTEM ID: 250008-01		
		OBC COMBINED HIGH SERVICE			JHF		
DATE / SHIFT		pH	Hardness	Alkalinity	pH	Hardness	Alkalinity
1	0700 - 1500	9.0	33	29	9.6	69	22
	1500 - 2300	10.0	25	15	9.4	59	20
	2300 - 0700	10.0	27	21	9.2	39	25
2	0700 - 1500	9.7	25	12	9.3	65	17
	1500 - 2300	9.9	25	14	9.3	68	14
	2300 - 0700	9.9	26	16	9.1	50	18
3	0700 - 1500	9.7	22	13	9.1	68	18
	1500 - 2300	9.6	27	15	9.6	74	20
	2300 - 0700	9.7	30	24	9.7	80	19
4	0700 - 1500	9.4	23	13	9.7	74	22
	1500 - 2300	9.6	28	20	9.3	64	20
	2300 - 0700	9.0	28	23	9.6	69	20
5	0700 - 1500	9.1	23	14	9.7	87	25
	1500 - 2300	9.0	23	19	9.4	78	17
	2300 - 0700	9.5	24	23	9.5	74	16
6	0700 - 1500	9.7	25	15	9.3	57	21
	1500 - 2300	9.7	20	20	9.8	72	22
	2300 - 0700	9.9	29	21	9.5	73	16
7	0700 - 1500	9.7	28	22	9.6	66	21
	1500 - 2300	9.7	27	19	9.5	67	19
	2300 - 0700	9.7	31	24	9.6	79	16
8	0700 - 1500	9.7	29	22	9.6	67	22
	1500 - 2300	9.8	26	15	9.5	74	18
	2300 - 0700	9.9	28	16	9.6	72	17
9	0700 - 1500	9.7	26	26	9.6	90	20
	1500 - 2300	9.7	24	21	9.1	85	12
	2300 - 0700	9.1	27	27	9.5	78	16
10	0700 - 1500	9.8	28	16	9.5	60	18
	1500 - 2300	9.8	28	20	9.8	69	20
	2300 - 0700	9.3	27	19	9.2	77	19
11	0700 - 1500	9.6	29	21	9.5	71	28
	1500 - 2300	9.8	25	24	9.4	59	23
	2300 - 0700	9.7	27	25	9.4	78	24

CITY OF JACKSON
CORROSION CONTROL DATA

February 2019		SYSTEM ID: 250008-02			SYSTEM ID: 250008-01		
		OBC COMBINED HIGH SERVICE			JHF		
DATE / SHIFT		pH	Hardness	Alkalinity	pH	Hardness	Alkalinity
12	0700 - 1500	9.6	24	17	9.5	65	19
	1500 - 2300	9.8	24	24	9.3	75	20
	2300 - 0700	9.7	25	23	9.4	73	23
13	0700 - 1500	9.4	20	16	9.4	58	21
	1500 - 2300	9.5	27	18	9.4	62	19
	2300 - 0700	9.4	29	22	9.6	70	16
14	0700 - 1500	9.5	27	23	9.5	53	21
	1500 - 2300	9.6	27	17	9.4	62	24
	2300 - 0700	9.6	29	20	9.7	75	15
15	0700 - 1500	9.4	30	28	9.7	59	21
	1500 - 2300	9.4	20	16	9.6	66	16
	2300 - 0700	9.3	21	18	9.7	66	17
16	0700 - 1500	9.4	25	23	9.6	78	18
	1500 - 2300	9.4	23	22	9.7	71	20
	2300 - 0700	9.3	26	21	9.8	72	23
17	0700 - 1500	9.4	24	17	9.2	65	21
	1500 - 2300	9.3	20	20	9.5	60	21
	2300 - 0700	9.4	23	22	9.6	64	18
18	0700 - 1500	9.0	22	10	9.6	61	17
	1500 - 2300	9.1	22	19	9.8	58	21
	2300 - 0700	9.6	25	23	9.5	70	20
19	0700 - 1500	9.0	23	10	9.3	72	19
	1500 - 2300	9.6	21	19	9.7	65	19
	2300 - 0700	9.5	23	20	9.6	72	15
20	0700 - 1500	9.6	21	14	9.7	67	21
	1500 - 2300	9.5	22	21	9.3	62	17
	2300 - 0700	9.5	23	21	9.3	65	15
21	0700 - 1500	9.5	22	20	9.4	63	18
	1500 - 2300	9.8	31	18	9.6	72	15
	2300 - 0700	9.3	27	24	9.8	68	15
22	0700 - 1500	9.4	29	27	9.9	64	23
	1500 - 2300	9.3	24	16	9.4	66	25
	2300 - 0700	9.3	24	14	9.5	69	17

CITY OF JACKSON
CORROSION CONTROL DATA

February 2019		SYSTEM ID: 250008-02			SYSTEM ID: 250008-01		
		OBC COMBINED HIGH SERVICE			JHF		
DATE / SHIFT		pH	Hardness	Alkalinity	pH	Hardness	Alkalinity
23	0700 - 1500	9.2	23	17	9.4	68	17
	1500 - 2300	9.1	21	18	9.6	61	14
	2300 - 0700	9.6	25	17	9.7	77	17
24	0700 - 1500	9.5	22	16	9.5	73	23
	1500 - 2300	9.6	27	21	9.4	55	18
	2300 - 0700	9.8	25	15	9.8	70	19
25	0700 - 1500	9.6	25	13	9.5	69	22
	1500 - 2300	9.7	22	20	9.4	73	20
	2300 - 0700	9.6	24	20	9.5	58	19
26	0700 - 1500	9.4	22	22	9.2	48	22
	1500 - 2300	9.3	28	25	8.5	53	20
	2300 - 0700	9.4	25	24	9.5	58	17
27	0700 - 1500	9.5	24	12	9.8	58	19
	1500 - 2300	9.5	26	24	9.6	56	15
	2300 - 0700	9.5	27	20	9.2	73	14
28	0700 - 1500	9.6	25	21	9.7	73	24
	1500 - 2300	9.4	24	21	9.3	84	20
	2300 - 0700	9.4	32	24	9.5	65	17
	0700 - 1500						
	1500 - 2300						
	2300 - 0700						
	0700 - 1500						
	1500 - 2300						
	2300 - 0700						
	0700 - 1500						
	1500 - 2300						
	2300 - 0700						
MONTHLY MIN		9.0	20	10	8.5	39	12
MONTHLY MAX		10.0	33	29	9.9	90	28
MONTHLY AVG		9.5	25	19	9.5	68	19

CITY OF JACKSON
UV COMPLIANCE

System ID 250008-02 **Month of** February 2019 **Total Off-Specification Volume (MG) =** 0

Date	UV Reactor #1					UV Reactor #2					UV Reactor #3				
	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UVT (%)	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UVT (%)	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UVT (%)
2/1/2019	23.5	2848228	35	2.8	85						24.0	2720397	34	2.7	84
2/2/2019	24.0	2927151	35	2.9	85						24.0	2711793	34	2.7	89
2/3/2019	24.0	2714834	37	2.7	85						23.7	2467166	62	2.5	88
2/4/2019	24.0	2475583	39	2.5	85						24.0	2278763	42	2.3	90
2/5/2019	23.5	2733527	34	2.7	85						24.0	2604334	36	2.6	88
2/6/2019	23.2	2716070	57	2.7	85						18.9	2525224	64	2.5	87
2/7/2019	24.0	2212395	43	2.2	85	PLC malfunction on UV #2 was troubleshot by contractor. UV reactor was 100% functional but PLC was not communicating with the Historian computer.					24.0	2030893	47	2.0	90
2/8/2019	24.0	2458835	41	2.5	85						24.0	2267001	45	2.3	91
2/9/2019	23.6	2652719	38	2.7	85						23.6	2467570	64	2.5	88
2/10/2019	24.0	2637988	39	2.6	85						24.0	2438137	43	2.4	91
2/11/2019	23.3	2633769	37	2.6	85						24.0	2510834	40	2.5	88
2/12/2019	24.0	2727576	38	2.7	85						24.0	2523187	39	2.5	90
2/13/2019	23.0	2626020	49	2.6	85						23.5	2406250	42	2.4	70
2/14/2019	24.0	2444608	41	2.4	85						24.0	2250657	44	2.3	91
2/15/2019	24.0	2507377	40	2.5	85	24.0	2537758	31	2.5	85	24.0	2309762	43	2.3	91
2/16/2019	23.4	2585476	50	2.6	85	24.0	2409643	32	2.4	85	23.3	2391150	40	2.4	88
2/17/2019	24.0	2703257	39	2.7	85	23.2	2333675	89	2.3	85	24.0	2499510	41	2.5	91
2/18/2019	24.0	2691749	38	2.7	85	24.0	2359789	33	2.4	85	24.0	2482545	41	2.5	91
2/19/2019	23.6	2575952	39	2.6	85	24.0	2279808	34	2.3	85	23.7	2409285	43	2.4	86
2/20/2019	23.2	2448255	41	2.4	85	10.8	2259130	73	2.3	85	23.0	2233503	91	2.2	89
2/21/2019	24.0	2667565	40	2.7	85	13.2	2297733	20	2.3	85	24.0	2467503	44	2.5	91
2/22/2019	24.0	2705403	39	2.7	85	24.0	2225899	36	2.2	85	24.0	2506621	44	2.5	91
2/23/2019	23.5	2844638	48	2.8	85	24.0	2148735	36	2.1	85	23.3	2611626	51	2.6	83
2/24/2019	24.0	2533309	40	2.5	85	23.3	2387075	100	2.4	85	24.0	2343729	44	2.3	91
2/25/2019	23.2	2426187	41	2.4	85	24.0	2444343	32	2.4	85	24.0	2338801	44	2.3	91
2/26/2019	24.0	2560883	40	2.6	85	24.0	2383898	33	2.4	85	23.8	2333102	55	2.3	89
2/27/2019	23.4	2401047	41	2.4	85	23.7	2070921	70	2.1	85	23.3	2196040	57	2.2	89
2/28/2019	24.0	2719832	38	2.7	85	23.7	1922830	71	1.9	85	24.0	2514165	41	2.5	90

Conventional Treatment Plant Log Goals for Crypto Treatment is 3.5 Log Credit

To Achieve Goal, UV dose minimum >15mJ/cm2 based on CFR 40.141.720 (2009)

CITY OF JACKSON
UV COMPLIANCE

System ID 250008-02   **Month of** February 2019   **Total Off-Specification Volume (MG) =** 0

Date	UV Reactor #4					UV Reactor #5					UV Reactor #6				
	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UVT (%)	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UVT (%)	Run Time (Hrs)	Total Production (Gals)	Calculated Min Dose (mJ/cm2)	Min Flow Rate (MGD)	Min UVT (%)
2/1/2019						24.0	2015136	105	2.0	99	24.0	2951834	42	3.0	84
2/2/2019						24.0	1959759	113	2.0	99	24.0	2946502	42	2.9	84
2/3/2019						23.5	2238104	146	2.2	98	23.6	2680849	45	2.7	83
2/4/2019						24.0	2474876	95	2.5	100	24.0	2488939	50	2.5	84
2/5/2019						24.0	2434369	92	2.4	100	24.0	2832132	43	2.8	82
2/6/2019						23.7	2462798	124	2.5	97	23.8	2785248	44	2.8	85
2/7/2019						24.0	2630564	91	2.6	100	24.0	2228771	55	2.2	84
2/8/2019						24.0	2500884	98	2.5	100	24.0	2477109	52	2.5	83
2/9/2019						23.6	2330529	134	2.3	99	23.5	2676577	49	2.7	85
2/10/2019						24.0	2335078	104	2.3	100	24.0	2656767	50	2.7	85
2/11/2019						24.0	2272488	104	2.3	100	24.0	2730822	47	2.7	84
2/12/2019						24.0	2205882	105	2.2	100	24.0	2746569	45	2.7	84
2/13/2019						23.6	2389760	120	2.4	100	23.4	2602780	50	2.6	84
2/14/2019						24.0	2615941	93	2.6	100	24.0	2458173	55	2.5	85
2/15/2019		Fitler is offline due to a flow controller issue.				24.0	2513258	96	2.5	100	24.0	2525307	47	2.5	80
2/16/2019						23.4	2344674	131	2.3	100	23.7	2656238	46	2.7	78
2/17/2019						22.8	2107614	107	2.1	100	24.0	2717706	48	2.7	79
2/18/2019						24.0	2045983	114	2.0	100	24.0	2708832	48	2.7	82
2/19/2019						24.0	1980727	117	2.0	100	23.6	2595485	53	2.6	85
2/20/2019						10.1	2032372	119	2.0	100	23.2	2449226	58	2.4	86
2/21/2019						13.3	2180563	63	2.2	100	13.7	2633576	30	2.6	81
2/22/2019						24.0	2125052	110	2.1	100	16.4	2727461	36	2.7	78
2/23/2019						19.8	1862985	120	1.9	100	23.1	2773895	45	2.8	80
2/24/2019						24.0	2422533	96	2.4	100	24.0	2554640	54	2.6	84
2/25/2019						24.0	2437457	94	2.4	100	24.0	2550414	58	2.6	83
2/26/2019						23.6	2247431	132	2.2	100	23.5	2498180	55	2.5	87
2/27/2019						24.0	2184047	100	2.2	100	22.7	2305850	52	2.3	83
2/28/2019						23.4	2107195	144	2.1	100	24.0	2734463	48	2.7	81

Conventional Treatment Plant Log Goals for Crypto Treatment is 3.5 Log Credit   To Achieve Goal, UV dose minimum >15mJ/cm2 based on CFR 40.141.720 (2009)

CITY OF JACKSON
UV COMPLIANCE

System ID 250008-01 **Month of** February 2019 **Total Off-Specification Volume (MG) =** 0

Date	Min Flow Rate (MGD)	Total Production (Gals)	UV Reactor #1			UV Reactor #2			UV Reactor #3			UV Reactor #4		
			Run Time (Hrs)	Calc Min Dose (mJ/cm^2)	Min UVT (%)	Run Time (Hrs)	Calc Min Dose (mJ/cm^2)	Min UVT (%)	Run Time (Hrs)	Calc Min Dose (mJ/cm^2)	Min UVT (%)	Run Time (Hrs)	Calc Min Dose (mJ/cm^2)	Min UVT (%)
2/1/2019	12.4	12351910	24.0	18	85							0.0	0	0
2/2/2019	12.3	12329965	24.0	20	85							0.0	0	0
2/3/2019	12.2	12236962	24.0	23	85							0.0	0	0
2/4/2019	12.3	12254930	24.0	17	85							2.1	20	87
2/5/2019	12.1	12056101	8.8	24	85							15.7	24	87
2/6/2019	11.8	11804392	0.0	0	0							24.0	24	87
2/7/2019	11.9	11910278	0.0	0	0							24.0	26	87
2/8/2019	11.8	11821806	3.0	20	85							24.0	25	87
2/9/2019	11.4	11434531	0.0	0	0							24.0	26	87
2/10/2019	11.5	11463368	0.0	0	0							24.0	24	87
2/11/2019	11.4	11418351	0.0	0	0							24.0	22	87
2/12/2019	11.6	11590104	0.0	0	0	Offline during February 2019			Offline during February 2019			24.0	23	87
2/13/2019	11.6	11631944	0.0	0	0							24.0	22	87
2/14/2019	11.8	11753247	0.0	0	0							24.0	23	87
2/15/2019	11.7	11728785	0.0	0	0							24.0	21	87
2/16/2019	11.6	11571580	0.0	0	0							24.0	20	87
2/17/2019	11.4	11369271	0.0	0	0							24.0	19	87
2/18/2019	11.3	11261302	0.0	0	0							24.0	18	87
2/19/2019	11.1	11102111	0.0	0	0							23.9	17	87
2/20/2019	11.8	11773715	16.4	23	85							7.3	23	87
2/21/2019	12.1	12102622	24.0	26	85							0.0	0	0
2/22/2019	12.2	12176476	24.0	28	85							0.0	0	0
2/23/2019	12.2	12224514	24.0	27	85							0.0	0	0
2/24/2019	12.1	12136910	24.0	25	85							0.0	0	0
2/25/2019	12.3	12302500	24.0	25	85							0.0	0	0
2/26/2019	12.1	12135538	24.0	25	85							0.0	0	0
2/27/2019	12.2	12222188	24.0	24	85							0.0	0	0
2/28/2019	12.1	12112882	24.0	24	85							0.0	0	0

Conventional Treatment Plant Log Goals for Crypto Treatment is 3.5-Log Credit

To Achieve Goal, UV dose minimum >15 mJ/cm^2 based on CFR 40.141.720 (2009)