

SURFACE WATER MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER

Summary Page

PUBLIC WATER

SYSTEM NAME: Webb County Water Utilities

PLANT NAME

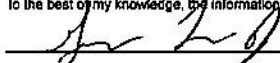
OR NUMBER: Rio Bravo

I certify that I am familiar with the information contained in this report and that, to the best of my knowledge, the information is true, complete, and accurate.

PWS ID No.: 2400022

Plant ID No.: 20831

Operator's Signature: _____



Report for the Month of: June 2024

Certificate No. & Grade: WS0016025, B

Date: July 10, 2024

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	125	Number of 4-hour periods when plant was off-line:	55
Number of readings above 0.10 NTU:	1	Number of 4-hour periods when plant was on-line but turbidity data was not collected:	0
Number of readings above 0.3 NTU:	0	Number of days when plant was on-line but individual filter turbidity data was not collected:	0
Number of readings above 0.5 NTU:	0	Number of days with readings above 1.0 NTU:	0 (2)
Number of readings above 1.0 NTU:	0	Number of days with readings above 5.0 NTU:	0 (3)
Maximum allowable turbidity level:	0.3		
Percentage of readings above this limit:	0.0 % (1)		
Bin Class: <u>2</u>	Crypto Credit Required: <u>4.0</u> (7A)	Crypto Credit Achieved: <u>4.5</u> (7B)	Bin 3&4 Credits: <u>1.0</u> (7C)
Watershed Protection:	0.0	Conventional Treatment:	3.0
Bank Filtration:	0.0	Enhanced Filter Performance:	0.5
Presedimentation with Coagulation:	0.0	Bag and Cartridge Filtration:	0.0
Two-Stage Lime Softening:	0.0	Membrane Filtration:	0.0
		Second Stage Filtration:	0.0
		UV:	1.0
		Ozone, Chlorine Dioxide:	0.0
		Perform. Demonstration:	0.0
Number of days with low inactivation (including UV) for no more than 4.0 consecutive hours:	0	Average log inactivation (including UV) for Giardia:	7.71
Number of days with low inactivation (including UV) for more than 4.0 consecutive hours:	0 (4)	Average log inactivation (including UV) for viruses:	73.36
		Number of days when profiling data was not collected:	0
		Number of days when CT data was not collected:	0
Minimum disinfectant residual required leaving the plant:	0.5 mg/L, measured as Total Chlorine		
Number of days with a low residual for no more than 4.0 consecutive hours:	0	Minimum pH in the last disinfection zone:	6.78
Number of days with a low residual for more than 4.0 consecutive hours:	0 (5)	Number of days with pH below 7.0 in the last disinfection zone:	19.00
		Number of days when disinfectant residual leaving the plant was not properly monitored:	0

DISTRIBUTION SYSTEM

Minimum disinfectant residual required in distribution system:	0.5 mg/L, measured as Total Chlorine		
Total number of readings this month:	44	(at least 30 required) (8)	
Average disinfectant residual value:	2.08	Percentage of readings with a low residual this month:	0.0 % (6A)
Number of readings with a low residual:	0	Percentage of readings with a low residual last month:	0.0 % (6B)
Number of readings with no detectable residual:	0		

ADDITIONAL REPORTS & WORKSHEETS

The Page 1 Addendum (Public Notices) is not required because there were no treatment technique or monitoring/reporting violations reported.

Additional report(s) for individual filter monitoring required: NONE Filter Profile Filter Assessment CPE

Additional report(s) for individual filter monitoring submitted: NONE Filter Profile (9) Filter Assessment (10) CPE (11)

No additional IFE Reports are required this month.

P.2-Turbidity Data	P.3-Filter Data	P.4&5-Disinfection Data	P.6-TOCMOR	P.7-TOC ACC
Alternate Technol.	UV-CDA	UV-Sensor Data	UV-UVT Analyzer	

STATISTICAL ANALYSIS OF TURBIDITY DATA

Settled Water Statistical Summary	Maximum turbidity reading:	4.62 NTU	Average turbidity value:	1.51 NTU
	Minimum turbidity reading:	0.43 NTU	Standard deviation:	0.753 NTU
	95 th percentile value:	2.92 NTU		
IFE Statistical Summary	Maximum IFE turbidity reading:	0.14 NTU	Average IFE turbidity value:	0.08 NTU
	Minimum IFE turbidity reading:	0.04 NTU	Standard deviation:	0.017 NTU
	95 th percentile IFE value:	0.11 NTU		
CFE Statistical Summary	Maximum CFE turbidity reading:	0.11 NTU	Average CFE turbidity value:	0.07 NTU
	Minimum CFE turbidity reading:	0.08 NTU	Standard deviation:	0.007 NTU
	95 th percentile CFE value:	0.08 NTU		

STATISTICAL ANALYSIS OF pH DATA

Last Zone pH Statistical Summary	Maximum pH reading:	7.40 pH	Average pH value:	6.95 pH
	Minimum pH reading:	6.78 pH	Standard deviation:	0.154 pH
	95 th percentile value:	7.25 pH		

SURFACE WATER MONTHLY OPERATING REPORT
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
SURFACE WATER MONTHLY OPERATING REPORT

This copy of the SWMOR was customized for the Webb County Water Utilities Rio Bravo SWTP and includes numerous cross-references to imported data.
The file format was reviewed and approved by the TCEQ on February 1, 2022.

SURFACE WATER MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)

Turbidity Data Page

PUBLIC WATER SYSTEM NAME: Webb County Water Utilities PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022 Plant ID No.: 20831 Connections: 1,995

Month: June Year: 2024 Population: 6,983

PERFORMANCE DATA																				
Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY (Optional Data)						FINISHED WATER QUALITY									
			NTU	Aik.	Basin No.						Combined Filter Effluent Turbidity						Lowest Residual	Time \bar{E}		
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6				
1	0.819	0.759	19	80	1.3	2.4						X	X	X	0.08	0.06	0.07	1.5		
2	0.845	0.776	18	80	1.2	1.8						X	X	X	0.07	0.06	0.08	1.6		
3	0.968	0.815	28	100	1.3	2.4						0.07	X	0.07	0.08	0.11	0.09	2.2		
4	1.051	0.953	14	100	1.2	2.2						X	X	0.08	0.08	0.07	0.07	3.4		
5	1.129	0.933	22	120	1.2	2.9						0.09	X	0.09	0.08	0.07	0.07	2.8		
6	1.058	0.831	25	100	1.2	2.2						0.09	X	0.08	0.08	0.07	0.08	3.0		
7	1.064	0.872	24	100	1.2	2.2						X	X	0.07	0.08	0.08	0.08	2.9		
8	1.074	0.865	25	100	1.2	2.5						X	X	0.07	0.07	0.08	0.08	2.0		
9	1.054	0.864	29	100	1.2	2.5						X	X	0.07	0.07	0.07	0.07	1.7		
10	1.087	0.818	26	100	1.2	2.4						X	X	0.07	0.07	0.07	0.07	2.3		
11	1.062	0.900	23	100	1.3	3.3						X	X	0.07	0.07	0.07	0.07	1.2		
12	1.092	0.895	13	100	1.3	2.6						X	X	0.08	0.07	0.07	0.08	3.3		
13	1.104	0.884	23	100	1.2	1.0						0.07	X	0.07	0.07	0.08	0.07	2.1		
14	1.056	0.888	22	100	1.2	1.0						X	X	0.07	0.07	0.07	0.07	3.4		
15	1.157	0.959	33	100	1.2	3.2						0.07	X	0.09	0.07	0.07	0.07	3.3		
16	1.082	0.896	23	100	1.2	0.5						X	X	0.07	0.08	0.07	0.06	3.4		
17	1.146	0.965	18	100	1.2	0.4						0.07	X	0.07	0.07	0.07	0.08	3.2		
18	1.097	0.886	100	100	1.2	0.4						0.07	X	0.07	0.06	0.08	0.08	2.4		
19	0.968	0.783	26	100	1.2	0.5						X	X	0.07	0.08	0.08	0.08	1.4		
20	0.765	0.705	28	100	1.2	0.5						X	X	0.07	0.07	0.07	0.07	1.6		
21	0.753	0.712	27	100	1.1	0.6						X	X	0.07	0.07	0.07	0.08	1.3		
22	0.810	0.685	33	100	1.2	1.3						X	X	0.07	0.07	0.07	0.07	2.5		
23	0.861	0.800	30	100	1.2	1.2						X	X	0.07	0.07	0.07	0.07	1.7		
24	0.914	0.758	32	100	4.6	1.4						X	X	0.08	0.07	0.07	0.08	1.8		
25	0.750	0.714	50	100	1.5	1.2						X	X	X	0.08	0.07	0.07	1.7		
26	0.991	0.882	43	100	1.5	1.3						X	X	0.07	0.08	0.07	0.07	2.4		
27	1.019	0.896	47	100	1.5	1.3						X	X	0.08	0.08	0.08	0.07	1.8		
28	1.000	0.896	52	100	1.5	1.3						X	X	0.07	0.08	0.07	0.07	1.6		
29	1.023	0.875	45	100	1.5	1.3						X	X	0.08	0.08	0.07	0.07	2.4		
30	1.090	0.897	49	100	1.5	1.3						X	0.07	0.07	0.07	0.08	0.07	3.3		
31																				
Total	29.887	25.364			Max	4.6	3.3													
Avg	0.996	0.845			Avg	1.4	1.6													
Max	1.157	0.965			95th %	1.5	3.1													
Min	0.750	0.685			Min	1.1	0.4													
											95th percentile based on data from all basins						2.9			

NOTE: ONLY use the "Time" column to show the length of time that the disinfectant residual entering the distribution system fell below the acceptable level.

SUBMITTED BY: Gasorio Torres Jr Certificate No. and Grade: WS0016026, B Date: July 10, 2024

SURFACE WATER MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
Filter Data Page

PUBLIC WATER SYSTEM NAME: Webb County Water Utilities
PWS ID No.: 240022 Plant ID No.: 20831

PLANT NAME OR NUMBER: Río Bravo
Month: June Year: 2024

PERFORMANCE DATA

Date	INDIVIDUAL FILTER TURBIDITY																				
	Filter No. 1		Filter No. 2		Filter No. 3		Filter No. 4		Filter No. 5		Filter No. 6		Filter No. 7		Filter No. 8		Filter No. 9		Filter No. 10		
	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	
1	0.06		0.08		0.05		0.08														
2	0.06		0.07		0.06		0.08														
3	0.09		0.09		0.13		0.13														
4	0.08		0.09		0.07		0.08														
5	0.09		0.08		0.10		0.08														
6	0.08		0.10		0.10		0.08														
7	0.10		0.07		0.09		0.08														
8	0.08		0.08		0.09		0.11														
9	0.09		0.08		0.07		0.10														
10	0.06		0.08		0.05		0.07														
11	0.06		0.06		0.05		0.10														
12	0.06		0.07		0.05		0.09														
13	0.06		0.06		0.05		0.12														
14	0.06		0.08		0.05		0.10														
15	0.06		0.06		0.05		0.08														
16	0.06		0.08		0.06		0.12														
17	0.06		0.08		0.05		0.08														
18	0.06		0.08		0.06		0.09														
19	0.09		0.09		0.09		0.08														
20	0.08		0.07		0.08		0.09														
21	0.07		0.06		0.06		0.08														
22	0.08		0.09		0.09		0.09														
23	0.07		0.06		0.08		0.11														
24	0.08		0.09		0.09		0.10														
25	0.06		0.07		0.10		0.07														
26	0.09		0.06		0.05		0.08														
27	0.07		0.06		0.05		0.08														
28	0.06		0.06		0.08		0.12														
29	0.07		0.09		0.08		0.11														
30	0.04		0.10		0.10		0.14														
31																					

SUMMARY & COMPLIANCE ACTIONS	Criteria	Filter No.										Plant	
		1	2	3	4	5	6	7	8	9	10		
	Number of days with event(s) above 0.5 NTU at 4.0 hrs this month												
	Number of days with event(s) above 1.0 NTU this month	0	0	0	0								
	Number of days with event(s) above 1.0 NTU last month	0	0	0	0								
	Number of days with event(s) above 1.0 NTU two months ago	0	0	0	0								
	Total number of days with event(s) above 1.0 NTU in three months	0	0	0	0								
	Number of events above 2.0 NTU this month											0	
	Number of events above 2.0 NTU last month											0	
	Does the filter/plant have an approved Corrective Action Plan?	N	N	N	N								N
	Is the plant required to submit a Filter Profile Report?	N	N	N	N								
	Is the plant required to submit a Filter Assessment Report?	N	N	N	N								
	Is the plant required to submit a Request for Compliance CPE?											N	

SUBMITTED BY: Gregorio Torres Jr Certificate No. and Grade: WS0016025, B Date: July 10, 2024

SURFACE WATER MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
Disinfection Data Page

PUBLIC WATER SYSTEM NAME: Webb County Water Utilities

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022

Plant ID No.: 20831

Month: June

Year: 2024

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
Parameters	Disinfection Zones					Log Inactivations	
	D1A	D1B	D2	D3	D4	Giardia lamblia Cysts	Viruses
Flow Rate (MGD)	1.250	1.250	0.625	1.250		0.5	2.0
T ₁₀ (minutes)	7.9	7.9	21.0	50.4			

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time ₁₀
1	FCL D1A	2.1	0.837	29.8	6.9				
	FCL D1B	2.0	0.837	29.1	6.9				
	FCL D2	1.3	0.419	29.1	6.9	7.67	182.03	15.35	
	CLA D3	3.4	0.837	29.4	6.8			(G)	
	D4								
2	FCL D1A	1.1	0.821	29.3	6.9				
	FCL D1B	1.2	0.821	28.9	7.0				
	FCL D2	1.0	0.410	29.4	6.9	6.07	131.24	12.14	
	CLA D3	3.4	0.821	29.1	6.8			(G)	
	D4								
3	FCL D1A	0.3	0.809	29.5	6.7				
	FCL D1B	0.3	0.809	29.3	6.7				
	FCL D2	0.3	0.404	28.7	6.8	2.61	39.77	5.23	
	CLA D3	3.2	0.809	28.4	6.8			(G)	
	D4								
4	FCL D1A	1.2	0.819	29.3	6.7				
	FCL D1B	1.3	0.819	29.5	6.7				
	FCL D2	1.0	0.410	29.3	7.0	6.37	134.04	12.73	
	CLA D3	3.9	0.819	29.1	6.8			(G)	
	D4								
5	FCL D1A	0.8	0.821	29.6	6.8				
	FCL D1B	0.9	0.821	29.4	6.7				
	FCL D2	0.5	0.410	29.3	7.0	3.99	73.94	7.98	
	CLA D3	3.5	0.821	29.3	6.8			(G)	
	D4								
6	FCL D1A	0.4	0.801	28.9	6.8				
	FCL D1B	0.4	0.801	28.9	6.8				
	FCL D2	0.5	0.400	28.8	7.1	3.49	61.82	6.99	
	CLA D3	3.7	0.801	28.1	6.8			(G)	
	D4								
7	FCL D1A	1.9	0.841	29.3	6.8				
	FCL D1B	1.9	0.841	29.5	6.7				
	FCL D2	1.4	0.420	28.0	7.0	7.62	178.90	15.24	
	CLA D3	3.7	0.841	28.9	6.8			(G)	
	D4								
8	FCL D1A	1.4	0.816	28.7	6.9				
	FCL D1B	1.6	0.816	28.5	6.7				
	FCL D2	0.8	0.408	28.7	7.0	5.58	116.61	11.16	
	CLA D3	3.8	0.816	28.5	6.8			(G)	
	D4								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time ₁₀
9	FCL D1A	1.1	0.801	28.3	6.9				
	FCL D1B	1.2	0.801	28.3	6.8				
	FCL D2	0.6	0.401	27.9	7.1	4.38	87.04	8.75	
	CLA D3	3.5	0.801	28.2	6.9			(G)	
	D4								
10	FCL D1A	0.4	0.803	28.6	7.1				
	FCL D1B	0.6	0.803	28.8	6.8				
	FCL D2	0.3	0.401	28.4	7.1	2.71	43.73	5.42	
	CLA D3	3.6	0.803	27.9	6.9			(G)	
	D4								
11	FCL D1A	0.5	0.804	29.1	6.9				
	FCL D1B	0.6	0.804	28.9	6.9				
	FCL D2	0.3	0.402	29.1	7.1	2.88	47.05	5.77	
	CLA D3	3.8	0.804	30.0	7.0			(G)	
	D4								
12	FCL D1A	0.6	0.800	29.1	6.9				
	FCL D1B	0.7	0.800	29.3	6.8				
	FCL D2	0.5	0.400	29.2	7.0	3.69	65.25	7.38	
	CLA D3	3.8	0.800	30.3	6.9			(G)	
	D4								
13	FCL D1A	0.5	0.785	28.4	6.8				
	FCL D1B	0.5	0.785	28.1	6.9				
	FCL D2	0.2	0.392	28.2	6.7	2.69	37.27	5.38	
	CLA D3	3.9	0.785	29.0	6.8			(G)	
	D4								
14	FCL D1A	0.7	0.773	29.3	6.9				
	FCL D1B	0.5	0.773	28.9	6.9				
	FCL D2	0.3	0.387	29.0	7.0	3.22	52.49	6.43	
	CLA D3	3.8	0.773	29.6	6.9			(G)	
	D4								
15	FCL D1A	0.5	0.772	27.9	6.9				
	FCL D1B	0.5	0.772	28.1	6.8				
	FCL D2	0.2	0.386	28.9	6.9	2.71	39.60	5.41	
	CLA D3	3.7	0.772	29.7	6.8			(G)	
	D4								
16	FCL D1A	0.7	0.791	28.9	6.9				
	FCL D1B	0.9	0.791	28.2	6.9				
	FCL D2	0.5	0.395	29.0	7.1	3.96	71.54	7.93	
	CLA D3	4.0	0.791	28.7	6.9			(G)	
	D4								

NOTE: - ONLY use the "Time₁₀" column to show the length of time that the total inactivation ratio was less than 1.00.

SUBMITTED BY: Gregorio Torres Jr

Certificate No. and Grade: WS0016025, B

Date: July 10, 2024

SURFACE WATER MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
Disinfection Data Page (cont.)

PUBLIC WATER SYSTEM NAME: Webb County Water Utilities

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 240022

Plant ID No.: 20831

Month: June

Year: 2024

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
Parameters	Disinfection Zones					Log Inactivations	
	D1A	D1B	D2	D3	D4	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	1.25	1.25	0.63	1.25		0.5	2.0
T ₁₀ (minutes)	7.90	7.90	21.00	50.40			

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time ¹
17	FCL D1A	0.5	0.783	29.0	6.9				
	FCL D1B	0.6	0.783	28.3	6.9				
	FCL D2	0.5	0.392	28.3	6.7	3.66	63.20	7.33	
	CLA D3	3.2	0.783	28.8	6.9			(G)	
	D4								
18	FCL D1A	0.4	0.791	28.1	6.9				
	FCL D1B	0.3	0.791	28.3	6.9				
	FCL D2	0.2	0.395	28.2	7.1	2.27	31.97	4.54	
	CLA D3	3.5	0.791	29.1	6.9			(G)	
	D4								
19	FCL D1A	0.8	0.778	28.4	7.0				
	FCL D1B	0.8	0.778	28.6	7.0				
	FCL D2	0.5	0.389	28.6	7.1	3.66	72.32	7.33	
	CLA D3	2.9	0.778	27.3	7.4			(G)	
	D4								
20	FCL D1A	0.2	0.784	25.9	7.0				
	FCL D1B	0.3	0.784	25.6	7.0				
	FCL D2	0.2	0.392	26.3	7.1	1.91	24.23	3.82	
	CLA D3	3.3	0.784	26.3	6.9			(G)	
	D4								
21	FCL D1A	0.3	0.779	27.8	7.0				
	FCL D1B	0.3	0.779	27.6	7.0				
	FCL D2	0.3	0.390	27.2	7.2	2.36	35.95	4.72	
	CLA D3	3.4	0.779	27.0	7.0			(G)	
	D4								
22	FCL D1A	0.3	0.751	27.8	7.0				
	FCL D1B	0.3	0.751	27.8	7.0				
	FCL D2	0.2	0.375	27.2	7.2	2.27	29.10	4.54	
	CLA D3	3.8	0.751	26.7	7.0			(G)	
	D4								
23	FCL D1A	0.6	0.731	27.9	7.0				
	FCL D1B	0.7	0.731	28.0	6.9				
	FCL D2	0.3	0.365	27.4	7.1	2.88	47.69	5.76	
	CLA D3	3.3	0.731	26.7	7.0			(G)	
	D4								
24	FCL D1A	0.3	0.719	27.9	7.0				
	FCL D1B	0.3	0.719	27.6	6.9				
	FCL D2	0.3	0.359	27.5	7.1	2.42	35.89	4.84	
	CLA D3	3.2	0.719	27.4	7.0			(G)	
	D4								

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time ¹
25	FCL D1A	0.6	0.740	29.1	7.1				
	FCL D1B	0.6	0.740	29.2	6.9				
	FCL D2	0.5	0.370	29.1	7.0	4.03	77.94	6.06	
	CLA D3	3.1	0.740	29.0	7.0			(G)	
	D4								
26	FCL D1A	0.5	0.756	29.2	6.9				
	FCL D1B	0.5	0.756	29.0	6.9				
	FCL D2	0.4	0.378	29.3	7.0	3.40	61.44	6.80	
	CLA D3	2.9	0.756	28.0	7.0			(G)	
	D4								
27	FCL D1A	0.5	0.761	28.2	7.1				
	FCL D1B	0.5	0.761	29.0	6.9				
	FCL D2	0.5	0.381	28.7	7.0	3.50	65.79	7.00	
	CLA D3	3.0	0.761	28.1	7.0			(G)	
	D4								
28	FCL D1A	0.5	0.757	29.3	6.8				
	FCL D1B	0.5	0.757	29.2	6.8				
	FCL D2	0.5	0.378	29.2	7.1	3.49	64.87	6.98	
	CLA D3	3.0	0.757	27.1	7.1			(G)	
	D4								
29	FCL D1A	1.1	0.778	29.3	6.9				
	FCL D1B	1.0	0.778	29.8	6.9				
	FCL D2	0.9	0.389	30.1	7.0	6.07	131.91	12.14	
	CLA D3	3.4	0.778	28.9	7.0			(G)	
	D4								
30	FCL D1A	1.0	0.768	28.1	7.1				
	FCL D1B	0.9	0.768	28.8	6.9				
	FCL D2	0.6	0.384	28.3	7.1	4.56	93.55	9.12	
	CLA D3	3.5	0.768	27.9	7.4			(G)	
	D4								
31	D1A								
	D1B								
	D2								
	D3								
	D4								

Max	7.67	182.03	15.35
Min	1.91	24.23	3.82
Avg	3.87	73.27	7.74
SD	1.53	41.47	3.06

NOTE: ¹ - ONLY use the "Time=" column to show the length of time that the total inactivation ratio was less than 1.00.

SUBMITTED BY: Gregorio Torres Jr

Certificate No. and Grade: WS0016025, B

Date: July 10, 2024

MONTHLY TOTAL ORGANIC CARBON REMOVAL REPORT (TOCMOR)

FOR SURFACE WATER OR GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER SYSTEMS

PUBLIC WATER SYSTEM NAME: Webb County Water Utilities **PLANT NAME OR NUMBER:** Rio Bravo
PWS ID No.: 2400022 **Plant ID No.:** 20831 **Month:** June **Year:** 2024
Type of treatment: Conventional Unconventional explain: _____

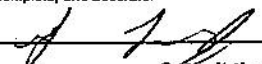
Note: Systems are required to run one TOC Sample Set every month. Additional space is provided for those systems that do additional sampling

Test No.	Test Date	Monthly TOC Sample Set			Actual % TOC Removed	Step 1 Required Removal %	Step 1 Removal Ratio	Optional data		INDIVIDUAL SAMPLE COMPLIANCE REMOVAL RATIO
		Raw Alkalinity	Raw TOC	Treated TOC				Step 2 Required % Removal	Step 2 Removal Ratio	
		Enter the Sample Set results						calculated	calculated from matrix	
1	6/17	100	4.42	3.24	26.7	35	0.76			0.76
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
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21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Avg		100.00	4.42	3.24	26.70		0.76			0.76
Max		100.00	4.42	3.24	26.70		0.76			0.76
Min		100.00	4.42	3.24	26.70		0.76			0.76

TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

TOC Summary					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	
100	4.42	3.24	26.7	NA	0.76

I certify that I am familiar with the information contained in this report and that, to the best of my knowledge, the information is true, complete, and accurate.

Operator's Signature:  Certificate No. and Grade: WS0016025, B

Date: July 10, 2024

Submit the report by the 10th of the month following the reporting period to:
 TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
 WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
 P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

UV MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER
UV Calculated Dose Approach Reactors

PUBLIC WATER
SYSTEM NAME:

Webb County Water Utilities

PLANT NAME
OR NUMBER:

Rio Bravo

PWS ID No.: 2400022

Plant ID No.: 20831

Month: June

Year: 2024

VALIDATED OPERATIONAL CONDITIONS

VALIDATED PARAMETERS						PERFORMANCE REQUIREMENTS	
Parameters	Reactor Number					Crypto Log Inactivation	Required UV Dose (mJ/cm ²)
	UVCD1	UVCD2	UVCD3	UVCD4	UVCD5		
Max Validated Flow Rate (MGD)	5.080	5.080	5.080			1.0	2.50
Min Validated UVT (%)	69.20	69.20	69.20				

PERFORMANCE DATA

Date	OPERATIONAL DATA								
	Reactor	Total Product (MG)	Max. Flow Rate (MGD)	Min UV Trans. (%)	Minimum Meas'd UV Dose (mJ/cm ²)	Sensor CF	Adjusted Minimum UV Dose (mJ/cm ²)	Total Off-Spec Product (MG)	Consec. Off-Spec Hours (hr)
1	1	0.390	0.810	85.11	25.47	1.00	25.47	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.362	0.749	85.11	25.87	1.00	25.87	0.000	
	4								
	5								
2	1	0.382	0.803	83.48	25.55	1.00	25.55	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.363	0.754	83.48	25.92	1.00	25.92	0.000	
	4								
	5								
3	1	0.453	0.822	85.24	24.72	1.00	24.72	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.420	0.765	85.24	24.86	1.00	24.86	0.000	
	4								
	5								
4	1	0.487	0.818	85.10	25.71	1.00	25.71	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.451	0.754	85.10	26.09	1.00	26.09	0.000	
	4								
	5								
5	1	0.520	0.819	85.59	25.80	1.00	25.80	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.482	0.758	85.59	26.20	1.00	26.20	0.000	
	4								
	5								
6	1	0.493	0.881	85.81	25.79	1.00	25.79	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.457	0.811	85.81	25.94	1.00	25.94	0.000	
	4								
	5								
7	1	X	X	X	X	X	X	X	0.000
	2	0.575	1.009	85.85	12.88	1.00	12.88	0.000	
	3	0.385	0.680	85.85	25.92	1.00	25.92	0.000	
	4								
	5								
8	1	X	X	X	X	X	X	X	0.000
	2	0.578	0.894	86.18	24.55	1.00	24.55	0.000	
	3	0.388	0.664	86.18	25.62	1.00	25.62	0.000	
	4								
	5								

PERFORMANCE DATA

Date	OPERATIONAL DATA								
	Reactor	Total Product (MG)	Max. Flow Rate (MGD)	Min UV Trans. (%)	Minimum Meas'd UV Dose (mJ/cm ²)	Sensor CF	Adjusted Minimum UV Dose (mJ/cm ²)	Total Off-Spec Product (MG)	Consec. Off-Spec Hours (hr)
9	1	X	X	X	X	X	X	X	0.000
	2	0.570	0.975	86.38	2.94	1.00	2.94	0.000	
	3	0.383	0.648	86.38	25.61	1.00	25.61	0.000	
	4								
	5								
10	1	X	X	X	X	X	X	X	0.000
	2	0.567	0.933	86.29	25.23	1.00	25.23	0.000	
	3	0.382	0.647	86.29	25.97	1.00	25.97	0.000	
	4								
	5								
11	1	X	X	X	X	X	X	X	0.000
	2	0.577	0.934	85.88	25.28	1.00	25.28	0.000	
	3	0.388	0.638	85.88	25.96	1.00	25.96	0.000	
	4								
	5								
12	1	X	X	X	X	X	X	X	0.000
	2	0.577	0.934	85.88	25.28	1.00	25.28	0.000	
	3	0.388	0.638	85.88	25.96	1.00	25.96	0.000	
	4								
	5								
13	1	X	X	X	X	X	X	X	0.000
	2	0.599	0.897	86.12	25.62	1.00	25.62	0.000	
	3	0.404	0.612	86.12	25.19	1.00	25.19	0.000	
	4								
	5								
14	1	0.485	0.790	86.06	25.96	1.00	25.96	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.449	0.727	86.06	26.18	1.00	26.18	0.000	
	4								
	5								
15	1	0.523	0.781	85.56	0.00	1.00	0.00	0.008	0.25
	2	0.022	0.853	85.56	25.91	1.00	25.91	0.000	
	3	0.500	0.730	85.56	24.74	1.00	24.74	0.000	
	4								
	5								
16	1	0.495	0.830	85.72	26.05	1.00	26.05	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.457	0.781	85.72	25.74	1.00	25.74	0.000	
	4								
	5								

SUBMITTED BY:

Gregorio Torres Jr

Certificate No. and Grade:

WS0016025, B

Date:

July 10, 2024

UV MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
UV Calculated Dose Approach Reactors (cont.)

PUBLIC WATER SYSTEM NAME: Webb County Water Utilites
PWS ID No.: 2400022 Plant ID No.: 20831

PLANT NAME OR NUMBER: Rio Bravo
Month: June Year: 2024

TRUE

VALIDATED OPERATIONAL CONDITIONS

VALIDATED PARAMETERS						PERFORMANCE REQUIREMENTS	
Parameters	Reactor Number					Crypto Log Inactivation	Required UV Dose (mJ/cm ²)
	UVCD1	UVCD2	UVCD3	UVCD4	UVCD5		
Max Validated Flow Rate (MGD)	5.080	5.080	5.080			1.0	2.50
Min Validated UVT (%)	69.20	69.20	69.20				

PERFORMANCE DATA

Date	OPERATIONAL DATA								
	Reactor	Total Product. (MG)	Max. Flow Rate (MGD)	Min UV Trans. (%)	Minimum Meas'd UV Dose (mJ/cm ²)	Sensor CF	Adjusted Minimum UV Dose (mJ/cm ²)	Total Off-Spec Product. (MG)	Consec. Off-Spec Hours (hr)
17	1	0.528	0.780	85.64	26.35	1.00	26.35	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.488	0.722	85.64	26.55	1.00	26.55	0.000	
	4								
	5								
18	1	0.512	0.786	85.48	26.34	1.00	26.34	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.473	0.723	85.48	26.48	1.00	26.48	0.000	
	4								
	5								
19	1	0.461	0.874	85.59	26.33	1.00	26.33	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.427	0.821	85.59	26.07	1.00	26.07	0.000	
	4								
	5								
20	1	0.373	0.786	85.33	26.31	1.00	26.31	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.344	0.803	85.33	26.81	1.00	26.81	0.000	
	4								
	5								
21	1	0.364	0.777	85.35	26.50	1.00	26.50	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.337	0.715	85.35	26.52	1.00	26.52	0.000	
	4								
	5								
22	1	0.389	0.826	85.14	26.38	1.00	26.38	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.360	0.770	85.14	26.24	1.00	26.24	0.000	
	4								
	5								
23	1	0.423	0.840	85.18	26.40	1.00	26.40	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.392	0.787	85.18	26.35	1.00	26.35	0.000	
	4								
	5								
24	1	0.438	0.778	84.92	25.07	1.00	25.07	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.403	0.735	84.92	24.95	1.00	24.95	0.000	
	4								
	5								

PERFORMANCE DATA

Date	OPERATIONAL DATA								
	Reactor	Total Product. (MG)	Max. Flow Rate (MGD)	Min UV Trans. (%)	Minimum Meas'd UV Dose (mJ/cm ²)	Sensor CF	Adjusted Minimum UV Dose (mJ/cm ²)	Total Off-Spec Product. (MG)	Consec. Off-Spec Hours (hr)
25	1	0.384	0.752	84.31	25.15	1.00	25.15	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.336	0.702	84.31	25.02	1.00	25.02	0.000	
	4								
	5								
26	1	0.478	0.838	84.73	26.53	1.00	26.53	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.442	0.785	84.73	26.44	1.00	26.44	0.000	
	4								
	5								
27	1	0.484	0.783	84.43	26.44	1.00	26.44	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.457	0.734	84.43	26.20	1.00	26.20	0.000	
	4								
	5								
28	1	0.484	0.752	84.61	26.51	1.00	26.51	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.447	0.691	84.61	26.40	1.00	26.40	0.000	
	4								
	5								
29	1	0.487	0.788	84.28	26.41	1.00	26.41	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.450	0.701	84.28	26.20	1.00	26.20	0.000	
	4								
	5								
30	1	0.525	0.811	84.31	25.88	1.00	25.88	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.488	0.748	84.31	26.34	1.00	26.34	0.000	
	4								
	5								
31	1								
	2								
	3								
	4								
	5								

SUBMITTED BY: Bregorio Torres Jr

Certificate No. and Grado: WS0018025, B Date: July 10, 2024

UV MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
UV Calculated Dose Approach - Daily Minimum Inactivation Summary Page

PUBLIC WATER SYSTEM NAME: Webb County Water Utilities
PWS ID No.: 2400022 Plant ID No.: 20831

PLANT NAME OR NUMBER: Rio Bravo
Month: June Year: 2024

DAILY MINIMUM INACTIVATION											
SUMMARY DATA					SUMMARY DATA						
Reactor Range	Date	Min Dose (mJ/cm ²)	Inactivation Credit Achieved			Reactor Range	Date	Min Dose (mJ/cm ²)	Min Inactivation		
			Giardia Log	Virus Log	Crypto Log				Giardia Log	Virus Log	Crypto Log
1 to 3	1	25.47	4.00	0.09	1.00	1 to 3	9	2.94	1.47	0.00	1.00
	2	25.55	4.00	0.09	1.00		10	25.23	4.00	0.08	1.00
	3	24.72	4.00	0.07	1.00		11	25.28	4.00	0.09	1.00
	4	25.71	4.00	0.10	1.00		12	25.28	4.00	0.09	1.00
	5	25.80	4.00	0.10	1.00		13	25.19	4.00	0.08	1.00
	6	25.79	4.00	0.10	1.00		14	25.98	4.00	0.11	1.00
	7	12.88	3.24	0.00	1.00		15	0.00*	1.00	0.00	1.00
	8	24.55	4.00	0.08	1.00		16	25.74	4.00	0.10	1.00

DAILY MINIMUM INACTIVATION											
SUMMARY DATA					SUMMARY DATA						
Reactor Range	Date	Min Dose (mJ/cm ²)	Min Inactivation			Reactor Range	Date	Min Dose (mJ/cm ²)	Min Inactivation		
			Giardia Log	Virus Log	Crypto Log				Giardia Log	Virus Log	Crypto Log
1 to 3	17	26.35	4.00	0.12	1.00	1 to 3	25	25.02	4.00	0.08	1.00
	18	26.34	4.00	0.12	1.00		26	26.44	4.00	0.12	1.00
	19	26.07	4.00	0.11	1.00		27	25.20	4.00	0.12	1.00
	20	26.31	4.00	0.12	1.00		28	26.40	4.00	0.12	1.00
	21	26.50	4.00	0.12	1.00		29	26.20	4.00	0.12	1.00
	22	26.24	4.00	0.12	1.00		30	25.66	4.00	0.10	1.00
	23	26.35	4.00	0.12	1.00		31				1.00
	24	24.85	4.00	0.08	1.00						

Total volume of water treated by all CDA reactors: 27.12 MG
 Total volume of off-spec water produced by all CDA reactors: 0.01 MG
 Percentage of off-spec water produced by all CDA reactors: 0.03 %
 Crypto Log-inactivation Credit for treatment by CDA reactors: 1.00 log

Raw water pumpage and total production by all UV reactors differ by more than 15% on these days:

SUBMITTED BY: Gregorio Torres Jr

Certificate No. and Grade: WS0016025, B Date: July 10, 2024