

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: December 2024

Certificate No. & Grade: WS0014085, B

Date: January 10, 2025

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	134	Number of 4-hour periods when plant was off-line:	52
Number of readings above 0.10 NTU:	0	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 (7A)</u>	Crypto Credit Achieved: <u>4.5 (7B)</u>	Bin 3&4 Credits: <u>1.0 (7C)</u>
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:	6.12
Number of days with low inactivation (including UV) for more than 4.0 consecutive hours:	0 (4)	Average log inactivation (including UV) for viruses:	54.71
		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:	6.73
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:	1.00
		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:	49 (at least 31 required) (8)	Percentage of readings with a low residual this month:	0.0 % (6A)
Average disinfectant residual value:	2.52	Percentage of readings with a low residual last month:	0.0 % (6B)
Number of readings with a low residual:	0		
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 CPF

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

Alternate Technol.		UV-CDA	UV-Sensor Data
			UV-UVT Analyzer

STATISTICAL ANALYSIS OF TURBIDITY DATA

Settled Water Stastical Summary	Maximum turbidity reading:	5.07 NTU	Average turbidity value:	1.79 NTU
	Minimum turbidity reading:	1.06 NTU	Standard deviation:	1.001 NTU
	95 th percentile value:	3.92 NTU		
IFE Stastical Summary	Maximum IFE turbidity reading:	0.12 NTU	Average IFE turbidity value:	0.07 NTU
	Minimum IFE turbidity reading:	0.05 NTU	Standard deviation:	0.010 NTU
	95 th percentile IFE value:	0.09 NTU		
CFE Stastical Summary	Maximum CFE turbidity reading:	0.09 NTU	Average CFE turbidity value:	0.07 NTU
	Minimum CFE turbidity reading:	0.06 NTU	Standard deviation:	0.007 NTU
	95 th percentile CFE value:	0.08 NTU		

STATISTICAL ANALYSIS OF pH DATA

Last Zone pH Stastical Summary	Maximum pH reading:	7.69 pH	Average pH value:	7.38 pH
	Minimum pH reading:	6.73 pH	Standard deviation:	0.186 pH
	95 th percentile value:	7.63 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: 1,988

Month: December Year: 2024 Population: 6,958

PERFORMANCE DATA																			
Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY (Optional Data)						FINISHED WATER QUALITY								
			NTU	Alk.	Basin No.						Combined Filter Effluent Turbidity						Lowest Residual	Timeid	
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6			
1	0.836	0.755	27	120	1.7	1.1						X	X	0.07	0.06	0.06	0.07	3.4	
2	0.892	0.814	21	120	3.5	1.1						X	X	0.08	0.09	0.06	0.08	3.0	
3	0.727	0.721	15	120	1.9	1.2						X	X	0.06	0.08	0.06	0.08	3.2	
4	0.789	0.736	33	120	1.5	1.2						X	X	0.07	0.06	0.06	0.08	3.3	
5	0.891	0.876	32	140	1.7	1.1						X	X	0.06	0.06	0.06	0.08	2.4	
6	0.729	0.588	30	140	1.3	1.1						0.08	X	X	0.07	0.06	0.06	2.7	
7	1.019	0.840	38	140	1.9	2.0						X	X	0.07	0.06	0.07	0.06	2.5	
8	0.795	0.892	40	140	1.8	1.1						X	X	0.06	0.06	0.06	0.06	2.5	
9	0.820	0.748	24	120	1.8	1.2						X	X	0.06	0.06	0.06	0.06	3.2	
10	0.968	0.834	28	120	2.7	1.2						0.06	X	0.06	0.09	0.07	0.08	3.5	
11	0.824	0.737	26	120	3.8	1.1						X	X	0.08	0.06	0.07	0.07	3.5	
12	0.955	0.816	25	120	5.1	1.1						X	X	0.06	0.07	0.06	0.07	3.1	
13	0.992	0.852	17	120	5.1	1.1						X	X	0.07	0.06	0.07	0.07	3.3	
14	0.962	0.811	20	120	1.1	1.1						X	X	0.07	0.07	0.07	0.07	3.2	
15	0.994	1.059	28	120	1.1	1.1						X	X	0.07	0.07	0.07	0.07	2.3	
16	1.020	0.946	28	120	1.2	2.2						0.07	X	0.07	0.07	0.07	0.07	3.1	
17	0.868	0.822	32	120	1.3	1.6						X	0.07	0.06	0.06	0.06	0.06	2.9	
18	0.898	0.935	28	120	1.6	1.5						X	X	0.07	0.07	0.07	0.06	2.0	
19	0.951	0.931	31	120	1.7	1.5						X	0.07	0.07	0.07	0.06	0.06	2.2	
20	0.991	0.944	45	100	1.3	5.0						X	0.07	0.07	0.07	0.07	0.06	3.1	
21	0.942	0.894	48	100	1.3	2.5						X	X	0.07	0.07	0.07	0.07	1.9	
22	0.892	0.855	55	100	3.3	1.6						X	X	0.08	0.07	0.07	0.07	3.1	
23	0.963	0.824	36	100	1.2	1.8						X	X	0.07	0.07	0.07	0.07	3.2	
24	0.924	0.861	32	100	1.1	1.5						X	X	0.07	0.07	0.07	0.07	1.8	
25	0.903	0.852	32	100	1.1	1.5						X	X	0.07	0.07	0.07	0.07	2.1	
26	0.923	0.942	47	100	1.1	2.3						X	X	0.07	0.07	0.07	0.07	1.7	
27	1.082	0.993	37	100	1.2	3.9						0.07	X	0.07	0.07	0.06	0.06	2.6	
28	1.012	0.883	40	100	1.1	2.6						0.06	X	0.07	0.07	0.07	0.07	1.5	
29	0.960	0.863	37	100	1.1	2.8						X	0.06	0.06	0.06	0.06	0.06	2.5	
30	1.055	0.931	37	100	1.2	1.4						X	0.06	0.06	0.06	0.06	0.06	2.6	
31	0.905	0.873	35	100	1.3	1.4						X	0.06	0.06	0.06	0.06	0.06	3.5	
Total	28.482	26.429			Max	5.1	5.0												
Avg	0.919	0.853			Avg	1.9	1.7												
Max	1.082	1.059			95th %	4.4	3.3												
Min	0.727	0.588			Min	1.1	1.1												
											95th percentile based on data from all basins						3.9		

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:  Certificate No. and Grade: WS0014085, B Date: January 10, 2025

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

PLANT NAME: Webb County Water Utilities
 PWS ID No.: 2400022 Plant ID No.: 20831

PLANT NAME: Rio Bravo
 OR NUMBER: _____
 Month: December 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	0.07		0.08		0.07		0.09													
2	0.07		0.08		0.07		0.08													
3	0.07		0.08		0.07		0.05													
4	0.09		0.07		0.07		0.08													
5	0.07		0.07		0.07		0.05													
6	0.08		0.09		0.08		0.06													
7	0.07		0.10		0.07		0.06													
8	0.09		0.09		0.07		0.06													
9	0.08		0.07		0.07		0.06													
10	0.08		0.07		0.08		0.06													
11	0.07		0.07		0.09		0.07													
12	0.09		0.08		0.08		0.08													
13	0.07		0.08		0.07		0.07													
14	0.08		0.07		0.06		0.06													
15	0.08		0.07		0.06		0.07													
16	0.07		0.07		0.07		0.08													
17	0.07		0.08		0.06		0.10													
18	0.07		0.07		0.06		0.06													
19	0.08		0.07		0.07		0.06													
20	0.08		0.07		0.06		0.06													
21	0.08		0.08		0.07		0.06													
22	0.08		0.07		0.08		0.07													
23	0.06		0.12		0.07		0.07													
24	0.06		0.07		0.06		0.07													
25	0.06		0.07		0.06		0.07													
26	0.06		0.06		0.08		0.07													
27	0.06		0.06		0.07		0.07													
28	0.06		0.07		0.06		0.07													
29	0.06		0.06		0.07		0.07													
30	0.08		0.07		0.07		0.07													
31	0.08		0.07		0.06		0.08													

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?																				

SUBMITTED BY: Certificate No. and Grade: WS0014085, B Date: January 10, 2025

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

PLANT NAME: Webb County Water Utilities
 PWS ID No.: 2400022 Plant ID No.: 20831


PLANT NAME: Rio Bravo
 PLANT NUMBER:
 Month: December 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	0.6	0.724	21.0	7.4				
	FCL D1B	0.9	0.724	21.3	7.3				
	FCL D2	1.0	0.362	20.7	7.4	3.21	71.60	6.42	
	CLA D3	3.6	0.724	20.6	7.4			(G)	
	D4								
2	FCL D1A	1.0	0.717	20.9	7.3				
	FCL D1B	1.1	0.717	20.5	7.3				
	FCL D2	0.7	0.359	20.5	7.5	3.12	64.53	6.24	
	CLA D3	3.8	0.717	21.7	7.7			(G)	
	D4								
3	FCL D1A	1.2	0.696	20.5	7.5				
	FCL D1B	1.3	0.696	20.4	7.4				
	FCL D2	1.0	0.348	20.6	7.6	3.63	88.83	7.26	
	CLA D3	3.7	0.696	20.6	7.5			(G)	
	D4								
4	FCL D1A	0.5	0.681	20.4	7.5				
	FCL D1B	0.6	0.681	20.6	7.6				
	FCL D2	0.4	0.341	20.2	7.5	2.03	36.68	4.06	
	CLA D3	3.3	0.681	20.5	7.4			(G)	
	D4								
5	FCL D1A	0.5	0.667	19.4	7.4				
	FCL D1B	0.6	0.667	19.6	7.4				
	FCL D2	0.5	0.333	19.7	7.5	2.26	41.22	4.52	
	CLA D3	3.6	0.667	20.2	7.4			(G)	
	D4								
6	FCL D1A	0.5	0.655	18.5	7.3				
	FCL D1B	0.4	0.655	18.5	7.3				
	FCL D2	0.6	0.328	19.4	7.5	2.19	41.90	4.38	
	CLA D3	3.5	0.655	18.5	7.4			(G)	
	D4								
7	FCL D1A	0.6	0.722	18.8	7.3				
	FCL D1B	0.7	0.722	19.0	7.3				
	FCL D2	0.8	0.361	18.8	7.4	2.65	51.35	5.30	
	CLA D3	4.4	0.722	18.2	7.6			(G)	
	D4								
8	FCL D1A	0.3	0.727	17.6	7.3				
	FCL D1B	0.3	0.727	18.1	7.3				
	FCL D2	0.2	0.364	17.8	7.4	1.36	16.25	2.71	
	CLA D3	4.0	0.727	18.4	7.5			(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	0.4	0.719	18.3	7.2				
	FCL D1B	0.4	0.719	18.0	7.1				
	FCL D2	0.3	0.360	18.2	7.3	1.60	22.21	3.20	
	CLA D3	3.8	0.719	18.7	7.3			(G)	
	D4								
10	FCL D1A	0.5	0.712	18.9	7.4				
	FCL D1B	0.4	0.712	18.8	7.3				
	FCL D2	0.5	0.356	18.8	7.5	2.02	35.50	4.04	
	CLA D3	3.7	0.712	19.1	7.3			(G)	
	D4								
11	FCL D1A	1.1	0.719	18.0	7.3				
	FCL D1B	1.3	0.719	18.3	7.3				
	FCL D2	1.1	0.359	17.5	7.4	3.13	71.67	6.26	
	CLA D3	3.7	0.719	19.3	7.3			(G)	
	D4								
12	FCL D1A	1.3	0.883	19.1	7.5				
	FCL D1B	1.2	0.883	19.5	7.5				
	FCL D2	1.2	0.442	18.3	7.3	2.88	67.11	5.76	
	CLA D3	3.8	0.883	19.9	7.4			(G)	
	D4								
13	FCL D1A	0.9	0.740	18.8	7.4				
	FCL D1B	1.0	0.740	18.7	7.4				
	FCL D2	1.1	0.370	18.8	7.5	3.10	71.78	6.20	
	CLA D3	3.9	0.740	20.0	7.3			(G)	
	D4								
14	FCL D1A	1.1	0.741	19.9	7.3				
	FCL D1B	1.1	0.741	19.8	7.2				
	FCL D2	1.0	0.370	20.5	7.5	3.29	76.64	6.58	
	CLA D3	3.4	0.741	21.6	7.3			(G)	
	D4								
15	FCL D1A	0.8	0.739	20.1	7.3				
	FCL D1B	0.9	0.739	20.8	7.2				
	FCL D2	0.5	0.370	21.1	7.5	2.50	46.77	4.99	
	CLA D3	3.7	0.739	21.8	7.4			(G)	
	D4								
16	FCL D1A	0.7	0.691	19.3	7.3				
	FCL D1B	0.9	0.691	19.4	7.2				
	FCL D2	0.8	0.346	20.2	7.3	2.99	60.41	5.99	
	CLA D3	3.5	0.691	21.3	7.2			(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:  Certificate No. WS0014085, B and Grade: Date: January 10, 2025

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.)

PLANT NAME: Webb County Water Utilities
PWS ID No.: 2400022 Plant ID No.: 20831


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

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	0.3	0.662	20.3	7.2				
	FCL D1B	0.3	0.662	20.0	7.2				
	FCL D2	0.4	0.331	20.6	7.3	1.94	31.86	3.87	
	CLA D3	3.1	0.662	20.7	7.4			(G)	
	D4								
18	FCL D1A	0.4	0.677	19.6	7.3				
	FCL D1B	0.3	0.677	19.4	7.2				
	FCL D2	0.5	0.338	20.7	7.3	2.18	37.52	4.37	
	CLA D3	2.9	0.677	22.7	7.3			(G)	
	D4								
19	FCL D1A	0.3	0.695	19.6	7.2				
	FCL D1B	0.4	0.695	19.5	7.2				
	FCL D2	0.5	0.347	19.7	7.4	1.98	34.94	3.97	
	CLA D3	3.0	0.695	21.2	7.3			(G)	
	D4								
20	FCL D1A	0.4	0.737	20.5	7.2				
	FCL D1B	0.6	0.737	20.5	7.2				
	FCL D2	0.8	0.369	20.2	7.3	2.81	54.91	5.62	
	CLA D3	3.9	0.737	20.4	7.2			(G)	
	D4								
21	FCL D1A	1.2	0.739	19.8	7.4				
	FCL D1B	1.2	0.739	19.8	7.3				
	FCL D2	1.3	0.369	19.8	7.5	3.84	91.59	7.68	
	CLA D3	4.2	0.739	20.6	7.2			(G)	
	D4								
22	FCL D1A	1.3	0.748	20.3	7.5				
	FCL D1B	1.4	0.748	20.4	7.4				
	FCL D2	1.1	0.374	20.1	7.7	3.48	85.09	6.96	
	CLA D3	3.9	0.748	21.7	7.4			(G)	
	D4								
23	FCL D1A	0.8	0.735	21.5	6.8				
	FCL D1B	0.8	0.735	21.8	7.2				
	FCL D2	0.8	0.368	20.8	6.9	3.47	63.39	6.94	
	CLA D3	3.8	0.735	22.5	7.1			(G)	
	D4								
24	FCL D1A	0.7	0.726	21.8	7.2				
	FCL D1B	0.9	0.726	21.8	7.1				
	FCL D2	0.7	0.363	21.6	7.1	3.06	61.60	6.13	
	CLA D3	3.1	0.720	21.7	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	0.7	0.708	20.3	7.4				
	FCL D1B	0.7	0.708	21.3	7.2				
	FCL D2	0.6	0.354	20.9	7.1	2.54	50.20	5.08	
	CLA D3	2.8	0.708	21.5	7.5			(G)	
	D4								
26	FCL D1A	0.5	0.696	22.0	7.4				
	FCL D1B	0.5	0.696	22.0	7.2				
	FCL D2	0.4	0.348	22.2	7.2	2.23	41.81	4.46	
	CLA D3	2.6	0.696	22.1	7.6			(G)	
	D4								
27	FCL D1A	0.3	0.666	21.1	7.4				
	FCL D1B	0.4	0.666	21.1	7.3				
	FCL D2	0.4	0.333	21.6	7.6	2.02	34.36	4.05	
	CLA D3	3.2	0.666	21.9	6.7			(G)	
	D4								
28	FCL D1A	0.6	0.700	21.8	7.2				
	FCL D1B	0.7	0.700	22.1	7.2				
	FCL D2	0.5	0.350	22.3	7.1	2.70	51.32	5.41	
	CLA D3	2.9	0.700	22.2	7.6			(G)	
	D4								
29	FCL D1A	1.2	0.708	22.4	7.2				
	FCL D1B	1.2	0.708	21.8	7.3				
	FCL D2	0.5	0.354	21.7	7.3	3.18	63.09	6.36	
	CLA D3	3.7	0.708	22.6	7.5			(G)	
	D4								
30	FCL D1A	0.9	0.729	21.8	7.4				
	FCL D1B	0.9	0.729	21.6	7.4				
	FCL D2	0.4	0.364	21.3	7.5	2.45	47.44	4.91	
	CLA D3	3.5	0.729	21.5	7.5			(G)	
	D4								
31	FCL D1A	1.1	0.734	21.0	1.6				
	FCL D1B	1.4	0.734	20.8	7.6				
	FCL D2	1.0	0.367	21.0	7.6	3.58	81.03	7.17	
	CLA D3	4.0	0.734	21.7	7.4			(G)	
	D4								
						Max	3.84	91.59	7.68
						Min	1.36	16.25	2.71
						Avg	2.69	54.66	5.38
						SD	0.63	19.25	1.26

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:  Certificate No. and Grade: WS0014085, B Date: January 10, 2025
TCEQ - 00102D-MGD (Rev. 10-01-20) PAGE 5 SWMOR-Alt

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
D No.: 2400022 **Plant ID No.:** 20831 **Month:** December **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	12/3	140	3.20	2.64	17.5	15	1.17			1.17
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Avg		140.00	3.20	2.64	17.50		1.17			1.17
Max		140.00	3.20	2.64	17.50		1.17			1.17
Min		140.00	3.20	2.64	17.50		1.17			1.17

TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

TOC Summary					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	
140	3.20	2.64	17.5	NA	1.17

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: *[Signature]* Certificate No. and Grade: WS0014085, B Date: January 10, 2025

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

ID No.: 2400022

Plant ID No.: 20831

Month: December

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	0.422	0.914	84.54	25.89	1.00	25.89	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.400	0.863	84.54	26.25	1.00	26.25	0.000	
	4								
	5								
2	1	0.448	0.809	88.68	26.21	1.00	26.21	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.426	0.778	88.68	26.49	1.00	26.49	0.000	
	4								
	5								
3	1	0.368	0.723	86.26	26.51	1.00	26.51	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.350	0.694	86.26	26.53	1.00	26.53	0.000	
	4								
	5								
4	1	0.398	0.742	86.05	26.50	1.00	26.50	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.377	0.692	86.05	26.50	1.00	26.50	0.000	
	4								
	5								
5	1	0.451	0.689	86.07	26.58	1.00	26.58	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.430	0.661	86.07	26.53	1.00	26.53	0.000	
	4								
	5								
6	1	0.308	0.734	84.88	24.72	1.00	24.72	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.293	0.696	84.88	24.72	1.00	24.72	0.000	
	4								
	5								
7	1	0.510	0.812	85.89	24.87	1.00	24.87	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.484	0.759	85.89	24.72	1.00	24.72	0.000	
	4								
	5								
8	1	0.402	0.812	85.65	26.56	1.00	26.56	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.380	0.761	85.65	26.52	1.00	26.52	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	0.405	0.859	85.75	25.99	1.00	25.99	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.385	0.809	85.75	26.56	1.00	26.56	0.000	
	4								
	5								
10	1	0.489	0.730	85.70	26.37	1.00	26.37	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.465	0.702	85.70	26.37	1.00	26.37	0.000	
	4								
	5								
11	1	0.414	0.765	85.65	26.56	1.00	26.56	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.393	0.725	85.65	26.54	1.00	26.54	0.000	
	4								
	5								
12	1	0.478	0.879	86.04	25.59	1.00	25.59	0.000	0.000
	2	X	X	X	X	X	X	X	
	3	0.453	0.831	86.04	26.56	1.00	26.56	0.000	
	4								
	5								
13	1	X	X	X	X	X	X	X	0.25
	2	0.575	0.975	85.71	0.00	1.00	0.00	0.009	
	3	0.396	0.667	85.71	26.31	1.00	26.31	0.000	
	4								
	5								
14	1	X	X	X	X	X	X	X	0.000
	2	0.562	0.891	85.40	8.70	1.00	8.70	0.000	
	3	0.385	0.614	85.40	26.40	1.00	26.40	0.000	
	4								
	5								
15	1	X	X	X	X	X	X	X	0.000
	2	0.572	0.919	84.13	17.09	1.00	17.09	0.000	
	3	0.391	0.629	84.13	26.50	1.00	26.50	0.000	
	4								
	5								
16	1	X	X	X	X	X	X	X	0.000
	2	0.562	0.920	82.96	10.03	1.00	10.03	0.000	
	3	0.387	0.644	82.96	26.04	1.00	26.04	0.000	
	4								
	5								

SUBMITTED BY:

Certificate No.
and Grade:

WS0014085, B

Date:

January 10, 2025

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 Utilities PLANT NAME OR NUMBER: Rio Bravo
 ID No.: 2400022 Plant ID No.: 20831 Month: December 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	X	X	X	X	X	X	X	0.000
	2	0.484	0.777	84.28	9.10	1.00	9.10	0.000	
	3	0.333	0.528	84.28	25.60	1.00	25.60	0.000	
	4								
	5								
18	1	X	X	X	X	X	X	X	0.000
	2	0.514	0.816	81.90	22.03	1.00	22.03	0.000	
	3	0.352	0.572	81.90	25.64	1.00	25.64	0.000	
	4								
	5								
19	1	X	X	X	X	X	X	X	0.000
	2	0.550	0.841	81.03	5.21	1.00	5.21	0.000	
	3	0.378	0.566	81.03	26.19	1.00	26.19	0.000	
	4								
	5								
20	1	X	X	X	X	X	X	X	0.000
	2	0.574	0.897	82.15	13.37	1.00	13.37	0.000	
	3	0.393	0.610	82.15	25.90	1.00	25.90	0.000	
	4								
	5								
21	1	X	X	X	X	X	X	X	0.000
	2	0.550	0.917	83.34	18.15	1.00	18.15	0.000	
	3	0.376	0.625	83.34	26.37	1.00	26.37	0.000	
	4								
	5								
22	1	X	X	X	X	X	X	X	0.000
	2	0.515	0.927	84.03	16.49	1.00	16.49	0.000	
	3	0.354	0.634	84.03	25.25	1.00	25.25	0.000	
	4								
	5								
23	1	0.396	0.709	83.23	26.07	1.00	26.07	0.000	0.25
	2	0.508	0.912	83.23	2.38	1.00	2.38	0.009	
	3	X	X	X	X	X	X	X	
	4								
	5								
24	1	0.391	0.655	82.90	25.83	1.00	25.83	0.000	0.000
	2	0.505	0.848	82.90	10.36	1.00	10.36	0.000	
	3	X	X	X	X	X	X	X	
	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	0.624	82.74	25.79	1.00	25.79	0.000	0.000
	2	0.491	0.795	82.74	22.33	1.00	22.33	0.000	
	3	X	X	X	X	X	X	X	
	4								
	5								
26	1	0.383	0.668	83.93	25.59	1.00	25.59	0.000	0.000
	2	0.493	0.859	83.93	4.86	1.00	4.86	0.000	
	3	X	X	X	X	X	X	X	
	4								
	5								
27	1	0.451	0.612	85.31	26.26	1.00	26.26	0.000	0.000
	2	0.579	0.774	85.31	12.40	1.00	12.40	0.000	
	3	X	X	X	X	X	X	X	
	4								
	5								
28	1	0.425	0.611	85.22	25.90	1.00	25.90	0.000	0.000
	2	0.547	0.789	85.22	23.48	1.00	23.48	0.000	
	3	X	X	X	X	X	X	X	
	4								
	5								
29	1	0.402	0.611	86.70	26.46	1.00	26.46	0.000	0.000
	2	0.516	0.787	86.70	23.17	1.00	23.17	0.000	
	3	X	X	X	X	X	X	X	
	4								
	5								
30	1	0.438	0.666	88.29	25.81	1.00	25.81	0.000	0.000
	2	0.564	0.857	88.29	16.71	1.00	16.71	0.000	
	3	X	X	X	X	X	X	X	
	4								
	5								
31	1	0.383	0.695	88.66	25.81	1.00	25.81	0.000	0.000
	2	0.490	0.898	88.66	26.31	1.00	26.31	0.000	
	3	X	X	X	X	X	X	X	
	4								
	5								

SUBMITTED BY:



Certificate No. and Grade:

WS0014085, B

Date:

January 10, 2025

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

PLANT NAME OR NUMBER: Rio Bravo

WS ID No.: 2400022

Plant ID No.: 20831

Month: December

Year: 2024

DAILY MINIMUM INACTIVATION											
Reactor Range	SUMMARY DATA					Reactor Range	SUMMARY DATA				
	Date	Min Dose (mJ/cm ²)	Inactivation Credit Achieved				Date	Min Dose (mJ/cm ²)	Min Inactivation		
			Giardia Log	Virus Log	Crypto Log				Giardia Log	Virus Log	Crypto Log
1 to 3	1	25.89	4.00	0.11	1.00	1 to 3	9	25.99	4.00	0.11	1.00
	2	26.21	4.00	0.12	1.00		10	26.37	4.00	0.12	1.00
	3	26.51	4.00	0.13	1.00		11	26.54	4.00	0.13	1.00
	4	26.50	4.00	0.12	1.00		12	25.59	4.00	0.10	1.00
	5	26.53	4.00	0.13	1.00		13	0.00*	1.00	0.00	1.00
	6	24.72	4.00	0.07	1.00		14	8.70	2.65	0.00	1.00
	7	24.72	4.00	0.07	1.00		15	17.09	3.65	0.00	1.00
	8	26.52	4.00	0.13	1.00		16	10.03	2.85	0.00	1.00

DAILY MINIMUM INACTIVATION											
Reactor Range	SUMMARY DATA					Reactor Range	SUMMARY DATA				
	Date	Min Dose (mJ/cm ²)	Min Inactivation				Date	Min Dose (mJ/cm ²)	Min Inactivation		
			Giardia Log	Virus Log	Crypto Log				Giardia Log	Virus Log	Crypto Log
1 to 3	17	9.10	2.71	0.00	1.00	1 to 3	25	22.33	4.00	0.00	1.00
	18	22.03	4.00	0.00	1.00		26	4.86	1.95	0.00	1.00
	19	5.21	2.00	0.00	1.00		27	12.40	3.18	0.00	1.00
	20	13.37	3.30	0.00	1.00		28	23.48	4.00	0.03	1.00
	21	18.15	3.72	0.00	1.00		29	23.17	4.00	0.02	1.00
	22	16.49	3.61	0.00	1.00		30	16.71	3.62	0.00	1.00
	23	2.38*	1.18	0.00	1.00		31	25.81	4.00	0.10	1.00
	24	10.36	2.90	0.00	1.00						

Total volume of water treated by all CDA reactors: 27.48 MG
 Total volume of off-spec water produced by all CDA reactors: 0.02 MG
 Percentage of off-spec water produced by all CDA reactors: 0.06 %
 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:

6.

SUBMITTED BY: _____



Certificate No. and Grade: _____

WS0014085, B

Date: January 10, 2025

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 Sensor Calibration for Calculated Dose Reactors

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

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

CALIBRATION DATA									
CDA Reactor Number	UV Sensor Calibration Report for Calculated Dose Reactors								
	Calibration Date and Data	Duty Sensor	Duty Sensor Serial #	Ref Sensor Serial #	Duty Sensor Reading (mJ/cm ²)	Ref Sensor Reading (mJ/cm ²)	Cal Ratio	Duty Sensor Replaced?	Calculated Sensor CF
UVCD No. 1	Previous Month's Sensor CF	1	40	11	63.10	60.60	1.04	NA	1.00
		2							
		3							
	1.00	4							
	Calibration Date	5							
		6							
	12/1/24	7							
	New Sensor CF	8							
		9							
	1.00	10							
UVCD No. 2	Previous Month's Sensor CF	1	38	11	51.20	55.70	0.92		1.00
		2							
		3							
	1.00	4							
	Calibration Date	5							
		6							
	12/1/24	7							
	New Sensor CF	8							
		9							
	1.00	10							
UVCD No. 3	Previous Month's Sensor CF	1	48	11	53.70	62.80	0.86	NA	1.00
		2							
		3							
	1.00	4							
	Calibration Date	5							
		6							
	12/1/24	7							
	New Sensor CF	8							
		9							
	1.00	10							
UVCD No. 4	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 5	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							

CALIBRATION DATA									
CDA Reactor Number	UV Sensor Calibration Report for Calculated Dose Reactors								
	Calibration Date	Duty Sensor	Duty Sensor Serial #	Ref Sensor Serial #	Duty Sensor Reading (mJ/cm ²)	Ref Sensor Reading (mJ/cm ²)	Cal Ratio	Duty Sensor Replaced?	Calculated Sensor CF
UVCD No. 6	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 7	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 8	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 9	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 10	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							

SUBMITTED BY: 

Certificate No. and Grade: WS0014085, B Date: January 10, 2025

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 Sensor Calibration for Calculated Dose Reactors (cont.)

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

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

CALIBRATION DATA									
CDA Reactor Number	UV Sensor Calibration Report for Calculated Dose Reactors								
	Calibration Date	Duty Sensor	Duty Sensor Serial #	Ref Sensor Serial #	Duty Sensor Reading (mJ/cm ²)	Ref Sensor Reading (mJ/cm ²)	Cal Ratio	Duty Sensor Replaced?	Calculated Sensor CF
UVCD No. 11	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
	New Sensor CF	7							
		8							
		9							
		10							
UVCD No. 12	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
	New Sensor CF	7							
		8							
		9							
		10							
UVCD No. 13	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
	New Sensor CF	7							
		8							
		9							
		10							
UVCD No. 14	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
	New Sensor CF	7							
		8							
		9							
		10							
UVCD No. 15	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
	New Sensor CF	7							
		8							
		9							
		10							

CALIBRATION DATA									
CDA Reactor Number	UV Sensor Calibration Report for Calculated Dose Reactors								
	Calibration Date	Duty Sensor	Duty Sensor Serial #	Ref Sensor Serial #	Duty Sensor Reading (mJ/cm ²)	Ref Sensor Reading (mJ/cm ²)	Cal Ratio	Duty Sensor Replaced?	Calculated Sensor CF
UVCD No. 16	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
	New Sensor CF	7							
		8							
		9							
		10							
UVCD No. 17	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
	New Sensor CF	7							
		8							
		9							
		10							
UVCD No. 18	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
	New Sensor CF	7							
		8							
		9							
		10							
UVCD No. 19	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
	New Sensor CF	7							
		8							
		9							
		10							
UVCD No. 20	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
	New Sensor CF	7							
		8							
		9							
		10							

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Certificate No. and Grade: WS0014085, B

Date: January 10, 2025

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.)
UVT Analyzer Calibration

PUBLIC WATER
SYSTEM NAME: Webb County Water Utilities

PLANT NAME
OR NUMBER: Rio Bravo

O No.: 2400022

Plant ID No.: 20831

Month: December

Year: 2024

CALIBRATION DATA									CALIBRATION DATA									
UVT Analyzer Number	Benchtop UVT Analyzer Serial Number: UVT-08-P0109855					Difference (% UVT)	Recalibration Performed? (if Diff > 2%)	Other Action Taken	UVT Analyzer Number	Benchtop UVT Analyzer Serial Number: UVT-08-P0109855					Difference (% UVT)	Recalibration Performed? (if Diff > 2%)	Other Action Taken	
	Week	Calibration Date	On-line UVT Analyzer Serial #	On-line Reading (% UVT)	Grab Sample Reading (% UVT)					Week	Calibration Date	On-line UVT Analyzer Serial #	On-line Reading (% UVT)	Grab Sample Reading (% UVT)				
UVT No. 1	1	12/1/24	90422	89.30	89.90	0.60	NA	NA	UVT No. 11	1								
	2	12/5/24	90422	90.80	90.40	0.40	NA	NA		2								
	3	12/16/24	90422	91.70	91.70	0.00	NA	NA		3								
	4	12/23/24	90422	90.10	91.00	0.90	NA	NA		4								
	5	12/30/24	90422	92.50	92.60	0.10	NA	NA		5								
UVT No. 2	1								UVT No. 12	1								
	2									2								
	3									3								
	4									4								
	5									5								
UVT No. 3	1								UVT No. 13	1								
	2									2								
	3									3								
	4									4								
	5									5								
UVT No. 4	1								UVT No. 14	1								
	2									2								
	3									3								
	4									4								
	5									5								
UVT No. 5	1								UVT No. 15	1								
	2									2								
	3									3								
	4									4								
	5									5								
UVT No. 6	1								UVT No. 16	1								
	2									2								
	3									3								
	4									4								
	5									5								
UVT No. 7	1								UVT No. 17	1								
	2									2								
	3									3								
	4									4								
	5									5								
UVT No. 8	1								UVT No. 18	1								
	2									2								
	3									3								
	4									4								
	5									5								
UVT No. 9	1								UVT No. 19	1								
	2									2								
	3									3								
	4									4								
	5									5								
UVT No. 10	1								UVT No. 20	1								
	2									2								
	3									3								
	4									4								
	5									5								

SUBMITTED BY: 

Certificate No. and Grade: WS0014085, B

Date: January 10, 2025

SURFACE WATER MONTHLY OPERATING REPORT

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

PUBLIC WATER SYSTEM NAME: Webb County Water Utilities PLANT NAME: Rio Bravo
 PWS ID No.: 2400022 Plant ID No.: 20831 Month: December Year: 2024
 OR NUMBER: _____

Note: Indicate the treatment processes in each train. (see comment)	TREATMENT TECHNOLOGIES										ENHANCED PERFORMANCE CREDITS		DISINFECTION TECHNOLOGY CREDITS			OTHER TREATMENT CREDITS	
	PRETREATMENT CREDITS			FILTRATION TECHNOLOGY CREDITS					ENHANCED PERFORMANCE CREDITS		DISINFECTION TECHNOLOGY CREDITS			OTHER TREATMENT CREDITS			
	Riverbank Filtration	Pressed. with Coagul.	Two-stage Lime Softening	Conventional Sedimentation or Clarification	Conventional Granular Media Filters	Bag or Cartridge Filtration	Two-Stage Filtration	Membrane Filtration (PBT)	Membrane Filtration (QBT)	Membrane Filtration (MBT)	Enhanced CFE Perform.	Optimized IFE Perform.	Crypto Chemical Disinfect.	UV Disinfect. (ISA)	UV Disinfect. (CDA)	Watershed Protection	Perform. Demon.
FALSE	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	
Train 1			TRUE	TRUE													
Train 2			TRUE														
Train 3																	
Train 4																	
Train 5																	
1				2.50										1.00			
2				2.50										1.00			
3				2.50										1.00			
4				2.50										1.00			
5				2.50										1.00			
6				2.50										1.00			
7				2.50										1.00			
8				2.50										1.00			
9				2.50										1.00			
10				2.50										1.00			
11				2.50										1.00			
12				2.50										1.00			
13				2.50										1.00			
14				2.50										1.00			
15				2.50										1.00			
16				2.50										1.00			
17				2.50										1.00			
18				2.50										1.00			
19				2.50										1.00			
20				2.50										1.00			
21				2.50										1.00			
22				2.50										1.00			
23				2.50										1.00			
24				2.50										1.00			
25				2.50										1.00			
26				2.50										1.00			
27				2.50										1.00			
28				2.50										1.00			
29				2.50										1.00			
30				2.50										1.00			
31				2.50										1.00			
MIN				0.5										0.5			

SURFACE WATER MONTHLY OPERATING REPORT
 FOR PUBLIC WATER SYSTEMS THAT USING SURFACE WATER SOURCES
 OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
 LTZESWTR Summary Page (cont)

PUBLIC WATER SYSTEM NAME: Webb County Water Utilities Plant ID No.: 20831 Month: December Year: 2024
 PWSID No.: 2400022 PLANT NAME: Rio Bravo OR NUMBER: Rio Bravo

Overall	GIARDIA AND CRYPTOSPORIDIUM TREATMENT CREDITS				GIARDIA INACTIVATION CREDITS				VIRAL INACTIVATION CREDITS				
	Total Daily Credit By Train				Total Daily Inactivation Credit By Train				Total Daily Inactivation Credit by Train				
	TRUE	FALSE	FALSE	Minimum	TRUE	FALSE	FALSE	Minimum	TRUE	FALSE	FALSE	FALSE	Minimum
1	4.50			4.50	1.00			1.00	7.21			7.21	71.70
2	4.50			4.50	1.00			1.00	7.21			7.21	84.65
3	4.50			4.50	1.00			1.00	7.83			7.83	88.96
4	4.50			4.50	1.00			1.00	6.03			6.03	38.80
5	4.50			4.50	1.00			1.00	6.26			6.26	41.34
6	4.50			4.50	1.00			1.00	6.19			6.19	41.96
7	4.50			4.50	1.00			1.00	6.65			6.65	51.42
8	4.50			4.50	1.00			1.00	5.36			5.36	16.37
9	4.50			4.50	1.00			1.00	5.60			5.60	22.31
10	4.50			4.50	1.00			1.00	6.02			6.02	35.62
11	4.50			4.50	1.00			1.00	7.13			7.13	71.79
12	4.50			4.50	1.00			1.00	6.88			6.88	67.21
13	4.50			4.50	1.00			1.00	4.10			4.10	71.78
14	4.50			4.50	1.00			1.00	5.94			5.94	76.64
15	4.50			4.50	1.00			1.00	6.15			6.15	46.77
16	4.50			4.50	1.00			1.00	5.85			5.85	60.41
17	4.50			4.50	1.00			1.00	4.65			4.65	31.88
18	4.50			4.50	1.00			1.00	6.18			6.18	37.52
19	4.50			4.50	1.00			1.00	3.98			3.98	34.94
20	4.50			4.50	1.00			1.00	6.11			6.11	54.91
21	4.50			4.50	1.00			1.00	7.56			7.56	91.59
22	4.50			4.50	1.00			1.00	7.09			7.09	85.09
23	4.50			4.50	1.00			1.00	4.66			4.66	63.39
24	4.50			4.50	1.00			1.00	5.97			5.97	61.60
25	4.50			4.50	1.00			1.00	6.54			6.54	50.20
26	4.50			4.50	1.00			1.00	4.18			4.18	41.81
27	4.50			4.50	1.00			1.00	5.20			5.20	34.36
28	4.50			4.50	1.00			1.00	6.70			6.70	51.35
29	4.50			4.50	1.00			1.00	7.18			7.18	63.11
30	4.50			4.50	1.00			1.00	6.08			6.08	47.44
31	4.50			4.50	1.00			1.00	7.58			7.58	81.14
MIN	4.50			4.50	1.00			1.00	3.98			3.98	16.37
AVR	4.50			4.50	1.00			1.00	6.12			6.12	54.71
M.A.	4.50			4.50	1.00			1.00	7.63			7.63	91.59