

COPY

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 Utility

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022
Plant ID No.: 20831
Report for the Month of: August 2015

Operator's Signature: [Signature]
Certificate No. & Grade: WS0009456, C
Date: September 10, 2015

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.

TREATMENT PLANT PERFORMANCE table with columns for turbidity readings, statistical summary, bin class, watershed protection, CT hours, and disinfectant residual.

DISTRIBUTION SYSTEM table with columns for disinfectant residual, total readings, and percentage of readings with low residual.

ADDITIONAL REPORTS & WORKSHEETS section with checkboxes for various reports and a table for alternate technologies.

SURFACE WATER MONTHLY OPERATING REPORT
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

# 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.)  
Summary Page Addendum (Violations and Public Notices)

PUBLIC WATER SYSTEM NAME: Webb County Water Utility

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022

Plant ID No.: 20831

Month: August

Year: 2015

PUBLIC NOTICES							
VIOLATION TYPE	DESCRIPTION OF VIOLATION	VIOLATION OCCURRED?	NOTICE TO TCEQ <input checked="" type="checkbox"/>		NOTICE TO CUSTOMER * <input type="checkbox"/>		VIOLATION DATES
			DATE OF NOTICE	DATE OF NOTICE	PENDING		
TREATMENT TECHNIQUE	Were more than 5.0% of the turbidity readings above the acceptable level? - see (1) on the Summary Page	No					
	Were there any days with turbidity readings above 1.0 NTU? - see (2) on the Summary Page	No					
	Were there any days with turbidity readings above 5.0 NTU? - see (3) on the Summary Page	No					
	Were there any periods when the plant failed to meet the CT requirements for more than 4.0 consecutive hours? - see (4) on the Summary Page	No					
	Were there any periods when the residuals leaving the plant fell below the acceptable level for more than 4.0 consecutive hours? - see (5) on the Summary Page	No					
	Were more than 5.0% of the residuals in the distribution system below the acceptable level for two months in a row? - see (6A) and (6B) on the Summary Page	No					
	Was Cryptosporidium removal credit less than required based on Bin Classification? - see (7A), (7B), and (7C) on the Summary Page	Yes					1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31.
MONITORING & REPORTING	Were there any days when the plant failed to report all of the required Combined Filter Effluent (CFE) turbidity readings? - see the Turbidity Data Page	No					
	Were there any days when the plant failed to report all the CT data needed to evaluate the level of microbial inactivation achieved? - see the Disinfection Data Page	No					
	Were there any days when the plant failed to report the minimum disinfectant residual entering the distribution system? - see the Turbidity Data Page	Yes					1, 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.
	Did the system fail to collect enough samples in the distribution system to meet the minimum disinfectant monitoring requirements? - see (8) on the Summary Page	No					
	Were there any days when the plant failed to report the maximum individual filter effluent (IFE) turbidity level produced by each filter? - see the Filter Data Page	No					
	Were there any days when the plant failed to report the IFE turbidity level 4-hours after beginning a filter run? - see the Filter Data Page	Not Applicable					
	Did the plant fail to submit a Filter Profile Report if one was required? - see (9) on the Summary page	No					
	Did the plant fail to submit a Filter Assessment Report if one was required? - see (10) on the Summary Page	No					
	Did the plant fail to submit a Comprehensive Performance Evaluation Request if one was required? - see (11) on the Summary Page	No					
Did the plant fail to collect at least one Total Organic Carbon sample set? - see TOCMOR Page	No						

Treatment technique violation notices are due no later than the end of the next business day. Please include a copy if possible.  
\* Copies of each Public Notice must accompany this report if they have already been issued.

SUMMITTED BY: Thomas Sanchez Jr.

Certificate No. and Grade: WS0009456, C

Date: September 10, 2015

**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.)  
 Summary Page Addendum (Violations and Public Notices)

PUBLIC WATER SYSTEM NAME: Webb County Water Utility

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022 Plant ID No.: 20831 Month: August Year: 2015

PUBLIC NOTICES							
VIOLATION TYPE	DESCRIPTION OF VIOLATION	VIOLATION OCCURRED?	NOTICE TO TCEQ <input checked="" type="checkbox"/>		NOTICE TO CUSTOMER <sup>*</sup>		VIOLATION DATES
			DATE OF NOTICE		DATE OF NOTICE	PENDING	
MONITORING & REPORTING FOR ALTERNATIVE TECHNOLOGIES	Were there any days when the plant failed to report all of the data required to evaluate its watershed protection program?	Not Applicable					
	Were there any days when the plant failed to report all of the data required to evaluate its bank filters? - see the Prefilters worksheet	Not Applicable					
	Were there any days when the plant failed to report all of the data needed to evaluate its presedimentation basin? - see the Prefilters worksheet	Not Applicable					
	Were there any days when the plant failed to report all of the data needed to evaluate its two stage softening process? - see the Prefilters worksheet	Not Applicable					
	Were there any days when the plant failed to report all of the data needed to evaluate its bag or cartridge filters? - see the Bag, Cartridge worksheet	Not Applicable					
	Were there any days when the plant failed to report all of the data needed to evaluate its 2nd stage filters? - see the 2ndStageFilters worksheet	Not Applicable					
	Were there any days when the plant failed to report all of the data needed to evaluate its membrane filters? - see the membrane worksheets	Not Applicable					
	Were there any days when the plant failed to report all of the data needed to evaluate its UV reactors? - see the UV-ISA and UV-CDA worksheets	Not Applicable					
	Did the plant fail to report the data needed to evaluate its UV sensors or UV Transmittance analyzers? - see the UV-Sensors and UVT worksheets	Not Applicable					
	Were there any days when the plant failed to report all the CT data needed to evaluate the level of <i>Cryptosporidium</i> inactivation achieved? - see the Crypto CT worksheet	Not Applicable					
Were there any days when the plant failed to report all of the data required by the Demonstration of Performance approval letter issued by the TCEQ?	Not Applicable						

Treatment technique violation notices are due no later than the end of the next business day. Please include a copy if possible.  
<sup>\*</sup> Copies of each Public Notice must accompany this report if they have already been issued.

SUBMITTED BY: Tomás Sanchez Jr.

Certificate No. and Grade: WS0009456, C

Date: September 10, 2015

# 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 Utility PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022 Plant ID No.: 20831 Connections: 1,905

Month: August Year: 2015 Population: 6,667

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						Residual	Time	
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6			
1	1.451	1.041	14	100	1.7	1.4						0.21	0.19	0.21	0.20	0.20	0.18	MD	
2	1.642	1.065	16	100	1.4	1.0						0.19	0.18	0.20	0.20	0.19	0.20	MD	
3	1.616	1.028	14	100	0.5	1.2						0.12	0.19	0.20	0.21	0.20	0.20	MD	
4	1.547	1.049	13	100	0.6	1.0						0.21	0.20	0.20	0.20	0.21	0.20	MD	
5	1.610	1.014	16	100	0.5	1.0						0.24	0.22	0.23	0.25	0.23	0.23	MD	
6	1.910	1.129	13	100	0.9	1.0						0.23	0.21	0.19	0.21	0.27	0.20	MD	
7	1.975	1.102	8	100	0.5	1.7						0.20	0.15	0.13	0.19	0.17	0.15	MD	
8	2.000	1.078	6	100	0.5	0.9						0.17	0.13	0.17	0.17	0.14	0.14	MD	
9	2.028	1.085	12	100	0.5	3.7						0.20	0.16	0.18	0.19	0.17	0.20	MD	
10	2.152	1.186	17	100	0.4	1.3						0.21	0.20	0.21	0.22	0.25	0.20	MD	
11	2.006	1.150	9	100	1.4	1.2						0.19	0.21	0.25	0.24	0.20	0.20	MD	
12	1.741	1.106	13	100	1.6	1.0						0.19	0.19	0.19	0.20	0.20	0.18	MD	
13	1.630	1.139	11	100	0.6	0.9						0.17	0.18	0.19	0.21	0.21	0.21	MD	
14	1.437	1.096	26	100	0.8	1.0						0.09	0.08	0.07	0.07	0.99	0.11	MD	
15	1.622	1.046	23	100	1.1	1.4						0.10	0.09	0.23	0.19	0.19	0.20	MD	
16	1.410	1.088	28	100	0.9	1.3						0.19	0.18	0.22	0.17	0.20	0.21	MD	
17	1.390	0.952	20	100	0.8	0.8						0.19	0.18	0.20	0.17	0.25	0.15	MD	
18	1.718	1.177	17	120	1.1	1.0						0.15	0.11	0.13	0.15	0.16	0.13	MD	
19	1.653	1.025	14	100	1.2	1.4						0.14	0.12	0.11	0.10	0.14	0.12	MD	
20	1.649	1.099	14	100	1.0	1.3						0.13	0.11	0.13	0.14	0.14	0.12	MD	
21	1.285	1.008	12	100	1.0	1.7						0.12	0.12	0.12	0.12	0.13	0.12	MD	
22	1.431	1.055	9	120	1.1	0.9						0.11	0.10	0.10	0.10	0.14	0.13	MD	
23	1.368	1.073	8	120	0.8	0.7						0.10	0.10	0.11	0.10	0.15	0.14	MD	
24	1.529	1.109	7	120	0.6	0.7						0.12	0.11	0.10	0.12	0.13	0.15	MD	
25	1.553	1.142	16	100	0.5	0.6						0.12	0.12	0.12	0.08	0.08	0.13	MD	
26	1.661	1.118	10	100	0.9	0.5						0.13	0.14	0.13	0.13	0.13	0.15	MD	
27	1.378	1.098	6	100	0.5	0.6						0.15	0.14	0.15	0.15	0.15	0.16	MD	
28	1.639	1.044	8	120	0.7	0.6						0.15	0.15	0.15	0.16	0.16	0.18	MD	
29	1.564	1.118	8	120	0.7	0.8						0.16	0.14	0.15	0.14	0.17	0.15	MD	
30	1.343	1.033	9	120	0.7	1.0						0.16	0.15	0.15	0.14	0.15	0.15	MD	
31	1.347	0.947	8	120	0.7	1.0						0.13	0.13	0.20	0.12	0.15	0.14	MD	
Total	50.285	33.400																	
Avg	1.622	1.077																	
Max	2.152	1.186																	
Min	1.285	0.947																	

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: Tommy Squire JR. Certificate No. and Grade: WS0009456, C Date: September 10, 2015

# 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 Utility  
PWS ID No.: 2400022 Plant ID No.: 20831

PLANT NAME  
OR NUMBER: Rio Bravo  
Month: August Year: 2015

PERFORMANCE DATA																				
INDIVIDUAL FILTER TURBIDITY																				
Date	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																
1	0.23		0.22		0.19		0.40													
2	0.20		0.22		0.26		0.27													
3	0.12		0.18		0.20		0.23													
4	0.28		0.18		0.35		0.42													
5	0.27		0.30		0.26		0.30													
6	0.35		0.30		0.40		0.44													
7	0.34		0.19		0.30		0.37													
8	0.25		0.24		0.35		0.26													
9	0.44		0.25		0.32		0.46													
10	0.38		0.30		0.28		0.34													
11	0.36		0.18		0.23		0.27													
12	0.18		0.20		0.30		0.22													
13	0.16		0.24		0.22		0.27													
14	0.17		0.36		0.30		0.25													
15	0.25		0.24		0.27		0.23													
16	0.18		0.23		0.29		0.25													
17	0.20		0.22		0.30		0.27													
18	0.16		0.15		0.22		0.22													
19	0.15		0.10		0.16		0.16													
20	0.29		0.20		0.16		0.20													
21	0.11		0.14		0.14		0.30													
22	0.12		0.11		0.16		0.21													
23	0.30		0.19		0.14		0.15													
24	0.12		0.14		0.15		0.23													
25	0.28		0.37		0.21		0.24													
26	0.16		0.20		0.29		0.19													
27	0.13		0.18		0.21		0.18													
28	0.14		0.20		0.18		0.18													
29	0.12		0.22		0.30		0.40													
30	0.11		0.18		0.23		0.23													
31	0.08		0.13		0.13		0.17													

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: Tomás Sánchez Jr. Certificate No. WS0009456, C and Grade: WS0009456, C Date: September 10, 2015

# 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 Utility

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022

Plant ID No.: 20831

Month: August

Year: 2015

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 <sub>10</sub> (minutes)	17.3	17.3	21.3	50.4					

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	FCL D1A	0.8	0.835	30.2	6.8	13.88	393.03	27.76	(G)
	FCL D1B	0.9	0.835	28.1	6.6				
	FCL D2	4.4	0.417	28.1	6.6				
	CLA D3	1.5	1.670	31.4	6.8				
	D4								
2	FCL D1A	1.5	0.832	28.0	6.6	14.50	377.82	28.99	(G)
	FCL D1B	1.2	0.832	28.0	6.6				
	FCL D2	3.6	0.416	28.0	6.5				
	CLA D3	1.9	1.664	28.4	6.8				
	D4								
3	FCL D1A	1.7	0.829	29.0	6.5	16.83	449.89	33.66	(G)
	FCL D1B	1.4	0.829	28.0	6.5				
	FCL D2	4.1	0.414	29.0	6.5				
	CLA D3	1.9	1.658	29.0	6.5				
	D4								
4	FCL D1A	1.3	0.828	29.0	6.8	14.94	440.79	29.87	(G)
	FCL D1B	1.2	0.828	29.0	6.7				
	FCL D2	4.7	0.414	29.0	6.7				
	CLA D3	1.9	29.000	29.0	6.7				
	D4								
5	FCL D1A	1.5	0.835	29.0	6.7	16.40	459.68	32.80	(G)
	FCL D1B	1.6	0.835	29.0	6.8				
	FCL D2	4.6	0.417	29.0	6.6				
	CLA D3	1.7	1.670	29.0	6.8				
	D4								
6	FCL D1A	1.8	1.002	29.0	6.8	13.51	389.74	27.01	(G)
	FCL D1B	1.6	1.002	29.0	6.8				
	FCL D2	4.8	0.501	29.0	6.7				
	CLA D3	2.7	2.005	30.0	6.9				
	D4								
7	FCL D1A	1.5	1.004	29.0	6.7	12.99	369.73	25.99	(G)
	FCL D1B	1.7	1.004	29.0	6.7				
	FCL D2	3.8	0.502	29.0	6.7				
	CLA D3	1.6	2.008	30.0	7.0				
	D4								
8	FCL D1A	1.3	1.013	29.0	6.8	12.49	369.44	24.97	(G)
	FCL D1B	1.6	1.013	29.0	6.9				
	FCL D2	4.3	0.506	29.0	6.8				
	CLA D3	1.7	2.026	29.0	7.1				
	D4								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	FCL D1A	1.4	1.015	29.0	6.6	12.66	360.10	25.31	(G)
	FCL D1B	1.7	1.015	29.0	6.7				
	FCL D2	3.8	0.507	29.0	6.7				
	CLA D3	1.7	2.031	29.0	6.9				
	D4								
10	FCL D1A	1.8	1.012	28.4	6.6	13.23	370.05	26.45	(G)
	FCL D1B	1.7	1.012	27.8	6.6				
	FCL D2	4.4	0.506	28.4	6.6				
	CLA D3	2.0	2.024	29.9	6.8				
	D4								
11	FCL D1A	1.4	1.026	29.3	6.8	12.24	372.44	24.48	(G)
	FCL D1B	1.5	1.026	28.1	6.8				
	FCL D2	4.9	0.513	29.3	6.9				
	CLA D3	1.6	2.053	31.2	6.7				
	D4								
12	FCL D1A	1.2	1.030	29.2	6.7	12.32	333.67	24.65	(G)
	FCL D1B	1.4	1.030	26.3	6.6				
	FCL D2	4.2	0.515	27.8	6.5				
	CLA D3	1.6	2.060	29.1	6.6				
	D4								
13	FCL D1A	1.0	0.832	29.2	7.4	14.25	429.91	28.51	(G)
	FCL D1B	1.1	0.832	29.0	6.8				
	FCL D2	4.7	0.416	29.1	6.7				
	CLA D3	2.2	1.664	28.8	5.8				
	D4								
14	FCL D1A	1.5	0.824	29.4	7.5	14.37	453.65	28.74	(G)
	FCL D1B	1.4	0.824	28.7	6.9				
	FCL D2	4.9	0.412	28.8	6.9				
	CLA D3	2.4	1.648	29.1	6.5				
	D4								
15	FCL D1A	1.7	0.817	27.6	6.2	18.68	488.32	37.36	(G)
	FCL D1B	1.6	0.817	29.6	6.5				
	FCL D2	4.1	0.408	29.7	6.5				
	CLA D3	1.7	1.635	29.9	6.6				
	D4								
16	FCL D1A	1.7	0.822	27.4	6.6	14.61	422.77	29.22	(G)
	FCL D1B	1.7	0.822	26.2	6.6				
	FCL D2	4.1	0.411	27.3	6.8				
	CLA D3	2.3	1.645	30.1	6.7				
	D4								

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

SUBMITTED BY: Tomas Sanchez Jr

Certificate No. and Grade: WS0009456, C

Date: September 10, 2015

# 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 Utility  
PWS ID No.: 2400022 Plant ID No.: 20831

PLANT NAME OR NUMBER: Rio Bravo  
Month: August Year: 2015

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 <sub>10</sub> (minutes)	17.30	17.30	21.30	50.40					

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	FCL D1A	1.0	0.825	30.0	7.0	11.66	374.79	23.31	
	FCL D1B	1.6	0.825	29.7	7.0				
	FCL D2	4.8	0.412	26.2	7.1				
	CLA D3	2.3	1.650	30.0	7.0				
	D4								
18	FCL D1A	1.6	0.836	29.4	6.7	15.95	474.81	31.89	
	FCL D1B	1.9	0.836	29.6	6.7				
	FCL D2	4.7	0.418	29.1	6.9				
	CLA D3	2.5	1.673	29.0	6.8				
	D4								
19	FCL D1A	1.2	0.830	29.3	7.1	13.63	436.45	27.26	
	FCL D1B	1.4	0.830	27.9	7.0				
	FCL D2	4.7	0.415	28.6	7.0				
	CLA D3	2.6	1.661	26.2	7.2				
	D4								
20	FCL D1A	1.0	0.825	30.0	7.6	11.29	456.67	22.57	
	FCL D1B	0.9	0.825	30.1	7.4				
	FCL D2	4.0	0.412	30.1	7.6				
	CLA D3	1.3	1.650	30.6	7.9				
	D4								
21	FCL D1A	1.2	0.830	29.0	7.1	11.31	410.18	22.61	
	FCL D1B	1.1	0.830	29.0	7.1				
	FCL D2	4.0	0.415	28.0	7.4				
	CLA D3	1.7	1.661	27.0	9.3				
	D4								
22	FCL D1A	1.4	0.830	29.0	6.7	13.39	448.42	26.78	
	FCL D1B	1.3	0.830	29.0	6.6				
	FCL D2	4.9	0.415	29.0	7.3				
	CLA D3	1.9	1.661	28.0	7.7				
	D4								
23	FCL D1A	1.7	0.832	28.0	6.7	15.28	443.33	30.56	
	FCL D1B	1.7	0.832	28.0	6.6				
	FCL D2	4.7	0.416	28.0	6.7				
	CLA D3	1.4	1.664	28.0	6.8				
	D4								
24	FCL D1A	1.5	0.833	27.6	6.8	14.83	429.86	29.65	
	FCL D1B	1.4	0.833	28.7	6.6				
	FCL D2	4.3	0.416	28.2	6.7				
	CLA D3	1.7	1.667	29.5	6.7				
	D4								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
25	FCL D1A	1.1	0.839	28.9	6.8	13.95	431.00	27.90	
	FCL D1B	1.2	0.839	29.3	6.7				
	FCL D2	4.8	0.419	29.1	6.9				
	CLA D3	1.7	1.679	29.6	6.6				
	D4								
26	FCL D1A	1.1	0.835	28.4	6.6	15.49	426.61	30.98	
	FCL D1B	1.4	0.835	28.5	6.6				
	FCL D2	4.4	0.417	28.8	6.6				
	CLA D3	1.9	1.670	29.1	6.5				
	D4								
27	FCL D1A	1.2	0.834	28.2	6.7	13.02	378.35	26.03	
	FCL D1B	1.3	0.834	28.7	6.5				
	FCL D2	4.4	0.417	26.6	6.8				
	CLA D3	1.6	1.668	29.0	6.8				
	D4								
28	FCL D1A	1.3	0.828	27.7	6.7	13.83	412.86	27.67	
	FCL D1B	1.5	0.828	27.5	6.6				
	FCL D2	4.1	0.414	27.7	6.8				
	CLA D3	1.9	1.656	29.2	6.8				
	D4								
29	FCL D1A	1.3	0.812	27.1	6.9	13.69	405.76	27.38	
	FCL D1B	1.7	0.812	27.0	6.9				
	FCL D2	4.1	0.406	27.3	6.8				
	CLA D3	2.1	1.624	27.7	6.8				
	D4								
30	FCL D1A	1.4	0.812	26.1	6.7	13.16	370.23	26.32	
	FCL D1B	1.5	0.812	26.0	6.6				
	FCL D2	4.3	0.406	25.6	6.7				
	CLA D3	1.7	1.625	27.1	6.7				
	D4								
31	FCL D1A	0.9	0.818	27.9	6.6	13.79	392.36	27.58	
	FCL D1B	1.2	0.818	28.0	6.6				
	FCL D2	4.9	0.409	27.8	6.7				
	CLA D3	2.0	1.637	27.9	6.6				
	D4								

NOTE: The log removal credits for this plant were restricted on at least one day this month due to high free chlorine levels in one or more zones or trains.	Max	18.68	488.32	37.36
	Min	11.29	333.67	22.57
	Avg	13.94	412.02	27.88
	SD	1.61	37.99	3.21

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

SUBMITTED BY: Thomas Sanchez Jr Certificate No. and Grade: WS0009456, C Date: September 10, 2015

# 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 Utility  
 PWS ID No.: 2400022

PLANT NAME OR NUMBER: Rio Bravo  
 Month: August Year: 2015

Type of treatment:  Conventional  Unconventional  
 explain:

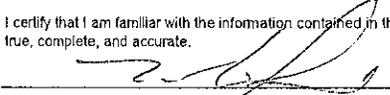
Note: Systems are required to run one TOC Sample Set every month. Additional space is provided for those systems that do additional sampling

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	
<b>Enter the Sample Set results</b>										
					<i>calculated</i>	<i>calculated from matrix</i>	<i>calculated</i>			<i>calculated</i>
1	8/4	100	3.18	2.32	27.0	25	1.08			1.08
2										
3										
4										
5										
6										
7										
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Avg		100.00	3.18	2.32	27.04		1.08			1.08
Max		100.00	3.18	2.32	27.04		1.08			1.08
Min		100.00	3.18	2.32	27.04		1.08			1.08

### 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	3.18	2.32	27.0	NA	1.08

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: WS0009456, C

Date: September 10, 2015

**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