

# 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

COPY

<b>PUBLIC WATER SYSTEM NAME:</b> <u>Webb County Water Utility</u>	<b>PLANT NAME OR NUMBER:</b> <u>Rio Bravo</u>
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.	
<b>PWS ID No.:</b> <u>2400022</u>	<b>Operator's Signature:</b>
<b>Plant ID No.:</b> <u>20831</u>	<b>Certificate No. &amp; Grade:</b> <u>WS0009456, C</u>
<b>Report for the Month of:</b> <u>July 2015</u>	<b>Date:</b> <u>August 10, 2015</u>

TREATMENT PLANT PERFORMANCE			
Total number of turbidity readings:	185	Number of 4-hour periods when plant was off-line:	1
Number of readings above 0.10 NTU:	153	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)		
<b>Statistical Summary</b>	Maximum turbidity reading: <u>0.30</u> NTU Minimum turbidity reading: <u>0.06</u> NTU CFE 95 <sup>th</sup> percentile value: <u>0.24</u> NTU	Average turbidity value: <u>0.18</u> NTU Standard deviation: <u>0.053</u> NTU IFE 95 <sup>th</sup> percentile: <u>0.300</u> NTU	
Bin Class: <u>2</u>	Crypto Credit Required: <u>4.0</u> (7A)	Crypto Credit Achieved: <u>0.0</u> (7B)	Bin 3&4 Credits: <u>0.0</u> (7C)
Watershed Protection: <u>0.0</u>	Conventional Treatment: <u>3.0</u>	Second Stage Filtration: <u>0.0</u>	
Bank Filtration: <u>0.0</u>	Enhanced Filter Performance: <u>0.0</u>	UV: <u>0.0</u>	
Presedimentation with Coagulation: <u>0.0</u>	Bag and Cartridge Filtration: <u>0.0</u>	Ozone, Chlorine Dioxide: <u>0.0</u>	
Two-Stage Lime Softening: <u>0.0</u>	Membrane Filtration: <u>0.0</u>	Perform. Demonstration: <u>0.0</u>	
Number of days with a low CT for no more than 4.0 consecutive hours: <u>0</u>	Average log inactivation for Giardia: <u>16.61</u> (R)	Average log inactivation for viruses: <u>455.67</u> (R)	
Number of days with a low CT for more than 4.0 consecutive hours: <u>0</u> (4)	Number of days when profiling data was not collected: <u>0</u>	Number of days when CT data was not collected: <u>0</u>	
Minimum disinfectant residual required leaving the plant: <u>0.5</u> mg/L, measured as Total Chlorine			
Number of days with a low residual for no more than 4.0 consecutive hours: <u>1</u>			
Number of days with a low residual for more than 4.0 consecutive hours: <u>0</u> (5)	Number of days when disinfectant residual leaving the plant was not properly monitored: <u>25</u>		

DISTRIBUTION SYSTEM			
Minimum disinfectant residual required in distribution system: <u>0.5</u> mg/L, measured as Total Chlorine			
Total number of readings this month: <u>52</u> (at least 31 required) (8)	Average disinfectant residual value: <u>1.05</u>	Percentage of readings with a low residual this month: <u>0.0</u> % (6A)	
Number of readings with a low residual: <u>0</u>	Number of readings with no detectable residual: <u>0</u>	Percentage of readings with a low residual last month: <u>0.0</u> % (6B)	

ADDITIONAL REPORTS & WORKSHEETS			
The Page 1 Addendum (Public Notices) is required because there was at least one treatment technique or monitoring/reporting violation reported.			
Additional report(s) for individual filter monitoring required:	<input checked="" type="radio"/> NONE	<input type="radio"/> Filter Profile	<input type="radio"/> Filter Assessment
Additional report(s) for individual filter monitoring submitted:	<input checked="" type="radio"/> NONE	<input type="radio"/> Filter Profile (9)	<input type="radio"/> Filter Assessment (10)
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.			

**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: July

Year: 2015

PUBLIC NOTICES							
VIOLATION TYPE	DESCRIPTION OF VIOLATION	VIOLATION OCCURRED?	NOTICE TO TCEQ <input checked="" type="checkbox"/> DATE OF NOTICE	NOTICE TO CUSTOMER * DATE OF NOTICE	PENDING	VIOLATION DATES	
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, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29,
	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.

SUBMITTED BY: TOMAS SANCHEZ JR.

Certificate No. and Grade: WS0009456, C

Date: August 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: July Year: 2015

PUBLIC NOTICES						
VIOLATION TYPE	DESCRIPTION OF VIOLATION	VIOLATION OCCURRED?	NOTICE TO TCEQ	NOTICE TO CUSTOMER *		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>Crptosporidium</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.
- \* Copies of each Public Notice must accompany this report if they have already been issued.

SUMMITTED BY: Tomas Sanchez Jr.

Certificate No. and Grade: WS0009456, C

Date: August 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: <u>Webb County Water Utility</u>	PLANT NAME OR NUMBER: <u>Rio Bravo</u>
PWS ID No.: <u>2400022</u> Plant ID No.: <u>20831</u>	Connections: <u>1,904</u>
Month: <u>July</u> Year: <u>2015</u>	Population: <u>6,664</u>

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	Time <sup>h</sup>	
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6			
1	1.280	0.848	10	120	1.0	1.0						0.08	0.08	0.11	0.08	0.08	0.08	MD	
2	1.236	0.942	11	120	1.2	1.3						0.08	0.07	0.11	0.07	0.08	0.08	2.0	
3	1.551	0.926	11	120	0.7	1.3						0.08	0.07	0.10	0.07	0.06	0.06	1.7	
4	1.405	0.940	11	100	0.9	1.0						0.06	0.07	0.08	0.14	0.08	0.07	1.6	
5	1.321	1.031	12	100	1.2	0.9						0.08	0.08	0.11	0.10	0.09	0.09	1.7	
6	1.364	0.925	13	120	0.9	0.9						0.09	0.10	0.22	0.19	0.20	0.20	MD	
7	1.305	0.978	15	120	1.0	0.8						0.20	0.20	0.20	0.23	0.24	0.24	MD	
8	1.400	0.998	17	120	0.8	1.0						0.24	0.25	0.24	0.24	0.21	0.23	MD	
9	1.417	1.101	21	120	1.6	0.6						0.21	0.21	0.22	0.21	0.20	0.20	MD	
10	1.370	1.026	19	120	0.9	0.9						0.20	0.20	0.19	0.18	0.17	0.17	MD	
11	1.569	1.150	14	80	1.4	1.1						0.24	0.30	0.20	0.19	0.18	0.17	MD	
12	0.995	0.858	14	100	1.0	0.8						0.18	0.15	0.18	0.18	0.18	0.18	MD	
13	1.337	1.128	14	120	1.0	1.1						0.20	0.15	0.14	0.19	0.19	0.20	MD	
14	1.554	1.006	23	120	1.2	1.4						0.20	0.21	0.21	0.21	0.25	0.23	MD	
15	1.335	1.053	20	120	1.3	1.1						0.24	0.23	0.20	0.22	0.22	0.23	MD	
16	1.596	1.095	17	100	1.4	1.1						0.23	0.21	0.22	X	0.24	0.21	MD	
17	1.370	0.915	18	120	1.3	1.0						0.20	0.15	0.14	0.22	0.21	0.20	MD	
18	1.566	1.189	28	120	1.4	0.9						0.10	0.10	0.24	0.24	0.23	0.23	MD	
19	1.499	1.093	17	120	0.9	1.2						0.25	0.24	0.24	0.25	0.24	0.24	MD	
20	1.512	1.141	19	120	1.1	1.2						0.24	0.17	0.21	0.15	0.17	0.10	MD	
21	1.562	1.059	16	120	1.5	1.0						0.10	0.27	0.19	0.21	0.18	0.18	MD	
22	1.386	1.136	30	100	1.1	1.0						0.18	0.18	0.18	0.17	0.21	0.20	MD	
23	1.443	1.166	18	100	1.2	1.6						0.20	0.17	0.18	0.17	0.18	0.18	MD	
24	1.340	1.103	28	100	1.4	0.9						0.18	0.17	0.17	0.15	0.20	0.18	MD	
25	1.603	1.129	16	100	1.5	0.9						0.18	0.19	0.20	0.19	0.18	0.17	MD	
26	1.289	1.070	11	100	1.3	1.1						0.18	0.15	0.15	0.15	0.17	0.18	MD	
27	1.419	1.072	11	100	1.4	1.6						0.18	0.20	0.28	0.20	0.20	0.18	MD	
28	1.633	1.116	9	100	1.7	1.1						0.18	0.19	0.18	0.13	0.18	0.20	MD	
29	1.548	1.157	8	100	1.0	1.0						0.20	0.22	0.20	0.20	0.22	0.23	MD	
30	1.382	1.058	13	100	1.1	1.4						0.20	0.19	0.20	0.20	0.24	0.25	0.1	0.25
31	1.583	1.069	16	120	1.3	1.4						0.21	0.19	0.19	0.20	0.23	0.21	2.0	
Total	44.170	32.478																	
Avg	1.425	1.048																	
Max	1.633	1.189																	
Min	0.995	0.848																	

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: TOMAS SANCHEZ JR      Certificate No. and Grade: WS0009456, C      Date: August 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

PLANT NAME  
OR NUMBER: Rio Bravo

PWS ID No.: 2400022

Plant ID No.: 20831

Month: July

Year: 2015

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	0.20		0.27		0.28		0.26													
2	0.30		0.20		0.21		0.20													
3	0.30		0.18		0.23		0.24													
4	0.30		0.19		0.19		0.28													
5	0.23		0.28		0.27		0.26													
6	0.24		0.22		0.22		0.30													
7	0.20		0.30		0.28		0.27													
8	0.23		0.20		0.23		0.27													
9	0.24		0.21		0.26		0.26													
10	0.19		0.19		0.24		0.26													
11	0.18		0.24		0.23		0.27													
12	0.24		0.20		0.23		0.27													
13	0.20		0.18		0.18		0.22													
14	0.24		0.20		0.20		0.23													
15	0.26		0.23		0.24		0.32													
16	0.24		0.24		0.26		0.30													
17	0.18		0.14		0.16		0.19													
18	0.30		0.17		0.17		0.19													
19	0.12		0.16		0.20		0.24													
20	0.28		0.26		0.26		0.23													
21	0.18		0.34		0.22		0.22													
22	0.22		0.30		0.26		0.26													
23	0.15		0.25		0.19		0.20													
24	0.17		0.30		0.20		0.29													
25	0.24		0.40		0.19		0.21													
26	0.24		0.20		0.20		0.30													
27	0.20		0.16		0.19		0.24													
28	0.27		0.21		0.19		0.24													
29	0.19		0.29		0.24		0.26													
30	0.19		0.25		0.31		0.25													
31	0.25		0.32		0.23		0.29													

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: Thomas Sanchez Jr

Certificate No. and Grade: WS0009456, C

Date: August 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: July

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	1.4	0.756	28.0	6.3	13.70	307.83	27.40	
	FCL D1B	1.7	0.766	27.0	6.3				
	FCL D2	3.4	0.378	22.0	6.2				
	CLA D3	2.7	1.513	28.0	6.5				
	D4								
2	FCL D1A	1.7	0.785	27.0	6.5	17.61	440.21	35.22	
	FCL D1B	1.9	0.785	27.0	6.4				
	FCL D2	4.4	0.392	27.0	6.3				
	CLA D3	2.9	1.571	28.0	6.7				
	D4								
3	FCL D1A	1.5	0.784	27.0	6.4	17.41	441.61	34.83	
	FCL D1B	1.9	0.784	27.0	6.4				
	FCL D2	3.9	0.392	28.0	6.4				
	CLA D3	2.7	1.568	27.0	6.3				
	D4								
4	FCL D1A	1.3	0.786	28.2	6.4	17.42	433.05	34.83	
	FCL D1B	1.8	0.786	28.2	6.4				
	FCL D2	3.9	0.393	27.9	6.3				
	CLA D3	2.6	1.572	27.1	6.4				
	D4								
5	FCL D1A	1.5	0.778	29.0	6.5	17.31	444.44	34.62	
	FCL D1B	1.6	0.778	28.0	6.4				
	FCL D2	4.3	0.389	27.0	6.4				
	CLA D3	2.1	1.556	29.0	6.6				
	D4								
6	FCL D1A	1.1	0.787	28.0	6.9	15.08	427.60	30.15	
	FCL D1B	1.7	0.787	28.0	6.8				
	FCL D2	6.9	0.393	28.0	6.6				
	CLA D3	1.9	1.575	28.0	7.0				
	D4								
7	FCL D1A	1.6	0.755	28.0	7.0	15.93	482.81	31.86	
	FCL D1B	2.1	0.755	28.0	6.8				
	FCL D2	6.2	0.377	28.0	6.8				
	CLA D3	2.3	1.510	28.0	6.9				
	D4								
8	FCL D1A	1.2	0.730	29.0	6.8	16.98	502.32	33.96	
	FCL D1B	1.3	0.730	28.0	6.7				
	FCL D2	5.3	0.365	29.0	6.8				
	CLA D3	3.0	1.460	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	1.7	0.764	29.0	7.0	16.07	489.92	32.14	
	FCL D1B	1.9	0.764	29.0	6.9				
	FCL D2	3.7	0.382	29.0	6.9				
	CLA D3	2.5	1.529	29.0	6.9				
	D4								
10	FCL D1A	1.6	0.748	27.4	6.6	15.61	437.79	31.23	
	FCL D1B	1.9	0.748	27.0	6.7				
	FCL D2	5.4	0.374	26.2	6.7				
	CLA D3	2.8	1.497	27.8	6.7				
	D4								
11	FCL D1A	1.4	0.784	28.0	6.7	14.46	450.14	28.92	
	FCL D1B	1.6	0.784	28.0	6.8				
	FCL D2	5.5	0.392	28.0	7.0				
	CLA D3	2.0	1.569	28.0	6.7				
	D4								
12	FCL D1A	1.3	0.777	29.0	6.6	18.34	507.18	36.68	
	FCL D1B	1.6	0.777	29.0	6.7				
	FCL D2	5.5	0.388	30.0	6.6				
	CLA D3	2.6	1.555	30.0	6.6				
	D4								
13	FCL D1A	1.8	0.786	29.3	6.9	17.84	539.52	35.68	
	FCL D1B	2.0	0.786	28.8	6.9				
	FCL D2	4.0	0.393	29.9	6.8				
	CLA D3	2.3	1.573	30.0	6.8				
	D4								
14	FCL D1A	1.6	0.783	28.0	6.3	18.46	465.85	36.92	
	FCL D1B	1.8	0.783	28.0	6.4				
	FCL D2	4.3	0.391	28.0	6.4				
	CLA D3	2.8	1.566	29.0	6.4				
	D4								
15	FCL D1A	1.2	0.812	30.9	6.5	19.25	495.10	38.51	
	FCL D1B	1.8	0.812	31.1	6.5				
	FCL D2	3.8	0.406	30.9	6.4				
	CLA D3	2.5	1.625	31.1	6.6				
	D4								
16	FCL D1A	1.5	0.819	28.0	6.6	16.31	438.11	32.62	
	FCL D1B	1.7	0.819	28.0	6.5				
	FCL D2	4.8	0.409	28.0	6.5				
	CLA D3	2.0	1.638	28.0	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: August 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

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022

Plant ID No.: 20831

Month: July

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			
T <sub>10</sub> (minutes)	17.30	17.30	21.30	50.40		0.5	2.0

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	1.7	0.817	30.8	6.6	19.04	545.39	38.07	
	FCL D1B	2.0	0.817	31.0	6.7				
	FCL D2	4.7	0.408	30.6	6.7				
	CLA D3	2.6	1.635	31.3	6.7				
	D4								
18	FCL D1A	1.3	0.780	27.5	6.9	14.11	428.39	28.21	
	FCL D1B	1.6	0.780	27.6	6.8				
	FCL D2	4.6	0.390	27.3	6.9				
	CLA D3	2.4	1.560	27.4	6.9				
	D4								
19	FCL D1A	1.6	0.752	27.6	6.6	17.48	480.85	34.97	
	FCL D1B	1.9	0.752	27.7	6.6				
	FCL D2	4.8	0.376	27.9	6.6				
	CLA D3	2.7	1.504	28.1	6.7				
	D4								
20	FCL D1A	1.8	0.759	30.3	6.5	17.66	535.08	35.37	
	FCL D1B	2.1	0.759	29.9	6.5				
	FCL D2	4.6	0.379	28.7	7.0				
	CLA D3	2.1	1.519	31.6	6.4				
	D4								
21	FCL D1A	1.7	0.763	29.0	6.6	18.12	470.63	36.25	
	FCL D1B	1.5	0.763	28.0	6.6				
	FCL D2	4.4	0.381	28.0	6.4				
	CLA D3	2.7	1.527	28.0	6.8				
	D4								
22	FCL D1A	1.4	0.769	29.6	6.5	19.17	501.20	38.34	
	FCL D1B	1.6	0.769	29.9	6.4				
	FCL D2	4.6	0.384	29.3	6.5				
	CLA D3	2.1	1.539	31.2	6.4				
	D4								
23	FCL D1A	1.1	0.781	28.0	6.5	16.19	431.02	32.38	
	FCL D1B	1.5	0.781	28.0	6.4				
	FCL D2	4.4	0.390	28.0	6.5				
	CLA D3	2.2	1.563	28.0	6.8				
	D4								
24	FCL D1A	1.4	0.797	30.0	6.6	17.59	485.15	35.18	
	FCL D1B	1.1	0.797	30.0	6.6				
	FCL D2	4.7	0.398	30.0	6.6				
	CLA D3	2.0	1.594	31.0	6.6				
	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	1.0	0.800	28.0	6.7	14.35	413.30	28.71	
	FCL D1B	1.4	0.800	28.0	6.6				
	FCL D2	4.5	0.400	28.0	6.7				
	CLA D3	2.0	1.601	28.0	6.7				
	D4								
26	FCL D1A	1.4	0.804	29.0	6.6	17.79	461.31	35.57	
	FCL D1B	1.5	0.804	29.0	6.5				
	FCL D2	3.9	0.402	29.0	6.4				
	CLA D3	2.0	1.609	29.0	6.3				
	D4								
27	FCL D1A	1.3	0.816	29.0	6.5	16.43	412.88	32.85	
	FCL D1B	1.2	0.816	29.0	6.5				
	FCL D2	3.6	0.408	29.0	6.4				
	CLA D3	2.0	1.635	29.0	6.7				
	D4								
28	FCL D1A	0.9	0.818	29.3	6.8	14.71	434.89	29.43	
	FCL D1B	1.1	0.818	29.1	6.8				
	FCL D2	5.7	0.409	29.2	6.8				
	CLA D3	2.6	1.637	29.8	6.7				
	D4								
29	FCL D1A	1.5	0.812	29.7	6.6	17.06	472.67	34.13	
	FCL D1B	1.4	0.812	28.4	6.6				
	FCL D2	4.0	0.406	29.4	6.6				
	CLA D3	2.0	1.625	31.1	6.6				
	D4								
30	FCL D1A	1.1	0.818	28.3	6.6	14.59	402.15	29.18	
	FCL D1B	1.7	0.818	28.4	6.6				
	FCL D2	3.6	0.409	29.0	6.7				
	CLA D3	1.9	1.637	29.8	6.6				
	D4								
31	FCL D1A	1.0	0.817	28.3	6.5	12.75	344.36	25.50	
	FCL D1B	1.1	0.817	28.7	6.5				
	FCL D2	3.3	0.408	27.8	6.7				
	CLA D3	1.7	1.635	25.9	6.7				
	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	19.25	545.39	38.51
Min	12.75	307.83	25.50
Avg	16.61	455.57	33.22
SD	1.69	50.46	3.38

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: August 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

Plant ID No.: 20831

Month: July

Year: 2015

Type of treatment:  Conventional

Unconventional explain:

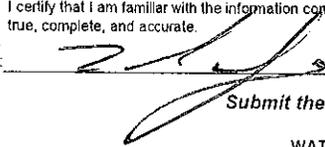
Note: Systems are required to run one TOC Sample Set every month. Additional space is provided for those systems that do additional sampling

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	
Enter the Sample Set results										
					<i>calculated</i>		<i>calculated</i>			<i>calculated</i>
1	7/1	120	4.33	2.62	39.5	35	1.13			1.13
2										
3										
4										
5										
6										
7										
8										
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Avg		120.00	4.33	2.62	39.49		1.13			1.13
Max		120.00	4.33	2.62	39.49		1.13			1.13
Min		120.00	4.33	2.62	39.49		1.13			1.13

### TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

TOC Summary					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	
120	4.33	2.62	39.5	NA	1.13

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: August 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