

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!

PUBLIC WATER
SYSTEM NAME: Webb County Water Utility

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: February 2016

Certificate No. & Grade: WS0009456, C

Date: March 10, 2016

TREATMENT PLANT PERFORMANCE							
Total number of turbidity readings:	109	Number of 4-hour periods when plant was off-line:	65				
Number of readings above 0.10 NTU:	41	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)						
Statistical Summary	Maximum turbidity reading:	0.29 NTU	Average turbidity value:	0.10 NTU			
	Minimum turbidity reading:	0.05 NTU	Standard deviation:	0.041 NTU			
	CFE 95 th percentile value:	0.18 NTU	IFE 95 th percentile:	0.246 NTU			
Bin Class:	2	Crypto Credit Required:	4.0 (7A)	Crypto Credit Achieved:	0.0 (7B)	Bin 3&4 Credits:	0.0 (7C)
Watershed Protection:	0.0	Conventional Treatment:	3.0	Second Stage Filtration:	0.0		
Bank Filtration:	0.0	Enhanced Filter Performance:	0.0	UV:	0.0		
Presedimentation with Coagulation:	0.0	Bag and Cartridge Filtration:	0.0	Ozone, Chlorine Dioxide:	0.0		
Two-Stage Lime Softening:	0.0	Membrane Filtration:	0.0	Perform. Demonstration:	0.0		
Number of days with a low CT for no more than 4.0 consecutive hours:	0	Average log inactivation for Giardia:	1.58				
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Average log inactivation for viruses:	38.13	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						
Number of days with a low residual for more than 4.0 consecutive hours:	0 (5)	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:	39	(at least 29 required) (8)	
Average disinfectant residual value:	1.32	Percentage of readings with a low residual this month:	0.0 % (6A)
Number of readings with a low residual:	0		
Number of readings with no detectable residual:	0	Percentage of readings with a low residual last month:	0.0 % (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: February

Year: 2016

PUBLIC NOTICES						
VIOLATION TYPE	DESCRIPTION OF VIOLATION	VIOLATION OCCURRED?	NOTICE TO TCEQ <input checked="" type="checkbox"/>	NOTICE TO CUSTOMER *		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	03/04/16		YES	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,26,27,28,29
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	No				
	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: March 10, 2016

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: February Year: 2016

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
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					

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SUBMITTED BY: TOMAS SANCHEZ JR.

Certificate No. and Grade: WS0009456, C

Date: March 10, 2016

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>1,911</u>
Month: <u>February</u> Year: <u>2016</u>	Population: <u>6,689</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			
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6					
1	1.306	0.887	25	140	0.7	1.1							0.14	X	X	0.21	0.28	0.29	1.3		
2	1.013	0.689	21	140	0.9	1.4							0.23	X	X	0.07	0.19	0.19	1.4		
3	1.043	0.680	15	140	2.4	1.0							X	X	0.14	0.15	0.12	X	1.5		
4	0.942	0.674	26	140	2.7	3.1							X	X	X	0.15	0.08	0.13	1.8		
5	0.841	0.634	23	140	2.2	2.1							X	X	X	0.11	0.11	0.11	2.0		
6	0.958	0.704	22	160	3.0	2.3							X	X	X	0.11	0.11	0.15	1.7		
7	0.957	0.627	26	140	4.3	2.5							0.13	X	X	0.12	0.12	0.13	1.2		
8	1.006	0.813	47	160	1.3	6.9							X	X	0.13	0.13	0.13	0.14	1.5		
9	1.005	0.599	23	140	1.9	1.3							X	X	0.15	0.14	0.17	0.14	1.5		
10	1.072	0.718	30	160	1.8	1.1							0.13	X	X	0.09	0.11	0.11	1.7		
11	1.118	0.835	26	160	1.5	1.2							0.11	X	X	0.12	0.10	0.11	1.3		
12	1.308	0.702	22	160	1.7	1.4							0.11	X	0.09	0.11	0.11	0.08	1.3		
13	1.105	0.722	19	180	1.9	0.8							0.13	0.08	0.09	0.08	0.08	0.07	1.4		
14	1.077	0.754	18	180	1.9	0.7							0.07	0.13	X	0.08	0.07	0.07	0.7		
15	0.907	0.652	16	160	1.9	0.9							0.07	0.08	X	0.06	0.07	0.06	1.2		
16	1.202	0.733	18	160	1.9	1.1							0.05	X	0.07	0.06	0.08	0.07	1.1		
17	1.738	0.793	17	140	1.9	0.8							0.07	X	X	0.07	0.06	0.06	0.9		
18	1.234	0.781	17	140	0.3	0.4							X	X	0.07	0.08	0.10	0.08	0.9		
19	1.149	0.749	20	160	1.1	0.6							X	X	0.09	0.08	0.09	0.08	1.7		
20	1.150	0.740	20	140	1.6	0.3							X	X	X	0.09	0.08	0.09	1.2		
21	1.162	0.756	26	140	1.4	0.3							X	X	X	0.08	0.10	0.08	1.0		
22	0.990	0.692	28	140	2.5	0.3							X	X	X	0.09	0.08	0.07	1.0		
23	1.143	0.708	29	140	1.9	0.3							X	X	X	0.09	0.08	0.07	1.0		
24	1.050	0.691	35	140	0.9	0.2							X	X	X	0.07	0.07	0.08	1.3		
25	0.000	0.650	X	X	X	X							X	X	X	X	X	X	1.2		
26	1.317	0.787	32	160	1.7	0.8							0.08	0.08	0.08	0.09	0.08	0.08	1.2		
27	1.097	0.751	18	160	1.5	0.7							X	X	0.08	0.08	0.08	0.07	1.8		
28	1.080	0.743	20	140	2.0	0.6							X	X	X	0.08	0.07	0.07	0.8		
29	1.197	0.743	37	140	1.6	0.7							X	X	X	0.07	0.09	0.06	1.7		
30																					
31																					
Total	31.167	21.007																			
Avg	1.075	0.724																			
Max	1.738	0.887																			
Min	0.000	0.599																			

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: Thomas Sanchez Jr Certificate No. and Grade: WS0009456, C Date: March 10, 2016

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: February Year: 2016

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	0.24		0.20		0.25		0.28														
2	0.17		0.18		0.20		0.24														
3	0.13		0.18		0.16		0.16														
4	0.19		0.18		0.16		0.15														
5	0.14		0.19		0.14		0.15														
6	0.18		0.21		0.17		0.23														
7	0.24		0.20		0.26		0.12														
8	0.12		0.21		0.17		0.12														
9	0.11		0.18		0.21		0.20														
10	0.13		0.26		0.12		0.14														
11	0.12		0.15		0.10		0.16														
12	0.27		0.24		0.23		0.16														
13	0.14		0.13		0.14		0.14														
14	0.20		0.15		0.16		0.15														
15	0.22		0.23		0.22		0.25														
16	0.09		0.16		0.15		0.16														
17	0.09		0.13		0.12		0.17														
18	0.16		0.12		0.14		0.24														
19	0.15		0.23		0.16		0.21														
20	0.13		0.14		0.20		0.17														
21	0.11		0.15		0.17		0.20														
22	0.11		0.13		0.16		0.20														
23	0.08		0.11		0.13		0.17														
24	0.12		0.12		0.18		0.15														
25	X	X	X	X	X	X	X	X													
26	0.10		0.13		0.12		0.15														
27	0.13		0.16		0.18		0.15														
28	0.14		0.17		0.18		0.19														
29	0.25		0.12		0.19		0.14														
30																					
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: Tomas Sanchez Jr

Certificate No. and Grade: WS0009456, C

Date: March 10, 2016

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

PLANT NAME OR NUMBER: Rio Bravo
Month: February Year: 2016

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 (min)
1	FCL D1A	0.3	0.892	2.1	7.4				
	FCL D1B	0.3	0.892	20.0	7.3				
	FCL D2	0.2	0.446	18.5	7.5	0.50	9.81	1.01	
	CLA D3	1.8	1.785	20.5	7.4				
	D4								
2	FCL D1A	0.6	0.897	18.2	7.3				
	FCL D1B	0.6	0.897	19.1	7.3				
	FCL D2	0.5	0.448	19.2	7.8	1.09	28.31	2.17	
	CLA D3	1.9	1.794	19.2	7.8				
	D4								
3	FCL D1A	1.1	0.846	17.5	7.4				
	FCL D1B	1.0	0.846	17.3	7.2				
	FCL D2	0.9	0.423	17.2	7.4	1.77	47.53	3.54	
	CLA D3	1.8	1.693	18.3	7.3				
	D4								
4	FCL D1A	1.0	0.810	17.0	7.3				
	FCL D1B	0.6	0.810	16.9	7.2				
	FCL D2	0.5	0.405	16.9	7.4	1.26	29.82	2.52	
	CLA D3	2.1	1.620	17.6	7.3				
	D4								
5	FCL D1A	0.7	0.789	17.0	7.2				
	FCL D1B	0.7	0.789	17.8	7.3				
	FCL D2	0.3	0.394	17.3	7.4	1.02	22.87	2.05	
	CLA D3	2.5	1.578	15.8	7.1				
	D4								
6	FCL D1A	0.7	0.792	19.8	7.2				
	FCL D1B	0.6	0.792	19.6	7.1				
	FCL D2	0.9	0.396	18.7	7.2	2.07	50.67	4.13	
	CLA D3	2.3	1.595	19.8	7.3				
	D4								
7	FCL D1A	0.2	0.797	16.5	7.0				
	FCL D1B	0.6	0.797	16.2	7.0				
	FCL D2	0.8	0.398	18.1	7.2	1.58	37.26	3.16	
	CLA D3	2.2	1.594	16.9	7.1				
	D4								
8	FCL D1A	0.9	0.765	17.0	7.2				
	FCL D1B	1.0	0.765	16.5	7.1				
	FCL D2	0.9	0.382	15.6	7.3	1.90	49.25	3.81	
	CLA D3	2.1	1.530	16.7	7.2				
	D4								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time (min)
9	FCL D1A	0.7	0.763	17.0	7.1				
	FCL D1B	0.8	0.763	17.5	7.0				
	FCL D2	0.7	0.381	17.0	7.2	1.73	39.80	3.45	
	CLA D3	2.8	1.526	17.4	7.1				
	D4								
10	FCL D1A	0.8	0.742	16.7	7.1				
	FCL D1B	0.9	0.742	16.0	7.0				
	FCL D2	0.7	0.371	17.0	7.3	1.87	45.17	3.74	
	CLA D3	2.8	1.484	16.0	7.2				
	D4								
11	FCL D1A	0.7	0.748	19.0	7.2				
	FCL D1B	0.7	0.748	19.7	7.2				
	FCL D2	0.6	0.374	19.7	7.3	1.91	46.11	3.82	
	CLA D3	2.4	1.497	19.7	7.3				
	D4								
12	FCL D1A	0.8	0.759	19.0	7.2				
	FCL D1B	0.8	0.759	19.0	7.2				
	FCL D2	0.7	0.379	18.0	7.3	1.89	46.75	3.78	
	CLA D3	2.2	1.519	19.0	7.3				
	D4								
13	FCL D1A	0.8	0.794	18.5	7.3				
	FCL D1B	1.0	0.794	18.9	7.2				
	FCL D2	0.8	0.397	18.2	7.4	1.88	48.34	3.76	
	CLA D3	2.0	1.589	20.5	7.4				
	D4								
14	FCL D1A	0.6	0.810	18.2	7.2				
	FCL D1B	0.6	0.810	18.7	7.2				
	FCL D2	0.8	0.405	19.4	7.4	1.74	44.98	3.47	
	CLA D3	2.0	1.621	20.1	7.3				
	D4								
15	FCL D1A	0.8	0.842	19.9	7.0				
	FCL D1B	0.5	0.842	20.2	6.9				
	FCL D2	0.4	0.421	19.4	7.0	1.31	27.84	2.63	
	CLA D3	1.8	1.684	20.7	7.1				
	D4								
16	FCL D1A	0.5	0.851	19.8	7.3				
	FCL D1B	0.5	0.851	19.8	7.3				
	FCL D2	0.6	0.425	19.2	7.1	1.53	34.85	3.05	
	CLA D3	2.0	1.703	22.1	7.2				
	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. WS0009456, C and Grade: WS0009456, C Date: March 10, 2016

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: February Year: 2016

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=
17	FCL D1A	0.4	0.869	21.5	7.1	/	/	/	/
	FCL D1B	0.4	0.869	21.4	7.1	/	/	/	/
	FCL D2	0.5	0.434	20.8	7.2	1.48	33.43	2.96	
	CLA D3	1.8	1.738	22.1	7.1	/	/	/	/
	D4					/	/	/	/
18	FCL D1A	0.4	0.893	21.9	7.1	/	/	/	/
	FCL D1B	0.5	0.893	22.1	7.1	/	/	/	/
	FCL D2	0.6	0.446	21.4	7.4	1.54	37.74	3.08	
	CLA D3	1.7	1.767	22.5	7.2	/	/	/	/
	D4					/	/	/	/
19	FCL D1A	0.7	0.905	22.2	7.4	/	/	/	/
	FCL D1B	0.7	0.905	22.2	7.5	/	/	/	/
	FCL D2	0.7	0.452	22.0	7.8	1.61	45.65	3.21	
	CLA D3	2.0	1.811	21.5	7.4	/	/	/	/
	D4					/	/	/	/
20	FCL D1A	0.5	0.915	20.6	7.2	/	/	/	/
	FCL D1B	0.4	0.915	22.5	7.0	/	/	/	/
	FCL D2	0.6	0.457	21.3	7.3	1.56	37.30	3.12	
	CLA D3	1.9	1.830	22.6	7.2	/	/	/	/
	D4					/	/	/	/
21	FCL D1A	0.3	0.935	22.9	7.1	/	/	/	/
	FCL D1B	0.3	0.935	22.7	7.0	/	/	/	/
	FCL D2	0.4	0.467	22.4	7.3	1.10	23.66	2.20	
	CLA D3	2.0	1.870	22.7	7.2	/	/	/	/
	D4					/	/	/	/
22	FCL D1A	0.1	0.920	22.4	7.0	/	/	/	/
	FCL D1B	0.1	0.920	22.8	7.7	/	/	/	/
	FCL D2	0.3	0.460	22.8	7.6	0.76	16.96	1.52	
	CLA D3	1.9	1.841	22.5	7.0	/	/	/	/
	D4					/	/	/	/
23	FCL D1A	0.4	0.895	22.0	6.9	/	/	/	/
	FCL D1B	0.5	0.895	22.2	6.8	/	/	/	/
	FCL D2	0.6	0.447	21.8	7.0	1.72	38.78	3.44	
	CLA D3	1.5	1.791	22.0	7.0	/	/	/	/
	D4					/	/	/	/
24	FCL D1A	1.2	0.875	21.8	7.1	/	/	/	/
	FCL D1B	1.2	0.875	21.4	7.1	/	/	/	/
	FCL D2	1.3	0.437	21.6	7.1	3.41	86.49	6.81	
	CLA D3	2.5	1.751	21.1	7.0	/	/	/	/
	D4					/	/	/	/

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
25	NA D1A					/	/	/	/
	NA D1B					/	/	/	/
	NA D2					NA	NA	NA	
	NA D3					/	/	/	/
	D4					/	/	/	/
26	FCL D1A	0.8	0.871	20.9	7.0	/	/	/	/
	FCL D1B	0.8	0.871	20.4	7.0	/	/	/	/
	FCL D2	0.7	0.435	21.6	7.1	2.14	49.31	4.28	
	CLA D3	2.2	1.743	22.3	7.1	/	/	/	/
	D4					/	/	/	/
27	FCL D1A	0.7	0.885	20.0	7.1	/	/	/	/
	FCL D1B	0.7	0.885	20.5	7.1	/	/	/	/
	FCL D2	0.6	0.442	21.7	7.6	1.69	42.69	3.39	
	CLA D3	2.0	1.771	21.3	7.2	/	/	/	/
	D4					/	/	/	/
28	FCL D1A	0.6	0.904	21.1	7.0	/	/	/	/
	FCL D1B	0.6	0.904	21.2	7.0	/	/	/	/
	FCL D2	0.5	0.452	21.6	7.1	1.57	34.23	3.14	
	CLA D3	2.1	1.808	21.8	7.1	/	/	/	/
	D4					/	/	/	/
29	FCL D1A	0.1	0.925	21.0	7.4	/	/	/	/
	FCL D1B	0.1	0.925	21.5	7.4	/	/	/	/
	FCL D2	0.2	0.462	20.6	7.6	0.59	12.04	1.18	
	CLA D3	2.0	1.850	20.7	7.4	/	/	/	/
	D4					/	/	/	/
30	D1A					/	/	/	/
	D1B					/	/	/	/
	D2					/	/	/	/
	D3					/	/	/	/
	D4					/	/	/	/
31	D1A					/	/	/	/
	D1B					/	/	/	/
	D2					/	/	/	/
	D3					/	/	/	/
	D4					/	/	/	/
		Max				3.41	86.49	6.81	
		Min				0.50	9.81	1.01	
		Avg				1.58	38.13	3.16	
		SD				0.54	14.57	1.09	

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: March 10, 2016

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 PLANT NAME OR NUMBER: Rio Bravo
 PWS ID No.: 2400022 Plant ID No.: 20831 Month: February Year: 2016
 Type of treatment: Conventional Unconventional explain: _____

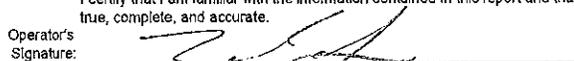
Note: Systems are required to run one TOC Sample Set every month. Additional space is provided for those systems that do additional sampling

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										
1	2/8	160	3.70	2.60	29.7	15	1.98			1.98
2										
3										
4										
5										
6										
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31										
Avg		160.00	3.70	2.60	29.73		1.98			1.98
Max		160.00	3.70	2.60	29.73		1.98			1.98
Min		160.00	3.70	2.60	29.73		1.98			1.98

TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

TOC Summary					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	
160	3.70	2.60	29.7	NA	1.98

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: March 10, 2016

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

Public Drinking Water Violation Report

To: Texas Commission on Environmental Quality
Water Supply Division

Public Water
System Name: Webb County Water Utility

PWS
ID No.: 2400022

Plant Name
or Number: Rio Bravo or 20831

Type of Violation(s): Treatment Technique, Cryptosporidium removal credit less than required based on the Bin Classification?
(e.g., turbidity above 5.0 NTU, turbidity between 1.0 and 5.0 NTU, turbidity above 0.3 NTU, low CT value,
low residual leaving the plant, low distribution system residual, ClO₂ residual above 0.8 mg/L at plant discharge,
ClO₂ residual above 0.8 mg/L in distribution, etc.)

Date and Time that the
Violation was Detected: Day 1 of the month

Duration of the
Violation (if known): (1) month for the exception of the 25th
(for example, 5 hours, 1 day, 2 months, etc.)

Other Data: Finished Water Highest IFE Giardia Inactivation: _____-log
(for SWTPs only) Turbidity Level: _____ NTU Turbidity Level: _____ NTU Viral Inactivation: _____-log

Corrective Action Taken: Notifying Mr. Donald Hunter Jr. TCEQ, Compliance Officer for SWMOR Public Drinking Water Supply Division via email on March 4, 2016. Customers will be notified about the Violation type and explain them the cause that is triggering this Public Notice no later than March 25, 2016 via mail to the Customer's Addresses.

Reported By: Tomas Sanchez Jr.

Date: March 4, 2016

Telephone No.: (956) 480-8216

Fax No.: (956) 724-7906

Fax this violation report to TCEQ/Water Supply Division at (512) 239-6050

For TCEQ Use