

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

PWS ID No.: 2400022

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.

Plant ID No.: 20831

Operator's Signature: _____

Report for the Month of: May 2015

Certificate No. & Grade: WS0009456, C

Date: June 10, 2015

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	169	Number of 4-hour periods when plant was off-line:	17				
Number of readings above 0.10 NTU:	137	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:	11				
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:	0.14 NTU			
	Minimum turbidity reading:	0.05 NTU	Standard deviation:	0.051 NTU			
	CFE 95 th percentile value:	0.25 NTU	IFE 95 th percentile:	0.387 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 Line 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:	15.09 (R)				
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Average log inactivation for viruses:	383.31 (R)				
		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:	5				

DISTRIBUTION SYSTEM

Minimum disinfectant residual required in distribution system:	0.5 mg/L, measured as Total Chlorine
Total number of readings this month:	38 (at least 31 required) (8)
Average disinfectant residual value:	1.21
Percentage of readings with a low residual this month:	0.0 % (6A)
Number of readings with a low residual:	0
Percentage of readings with a low residual last month:	0.0 % (6B)
Number of readings with no detectable residual:	0

ADDITIONAL REPORTS & WORKSHEETS

The Page 1 Addendum (Public Notices) is required because there was at least one treatment technique or monitoring/reporting violation reported.

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

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

No additional IFE Reports are required this month.

P.2-Turbidity Data	P.3-Filter Data	P.4&5-Disinfection Data	P.6-TOCMOR	P.7-TOC ACC
Alternate Technol.				

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: Rlo Bravo

PWS ID No.: 2400022

Plant ID No.: 20831

Month: May

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	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					1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,26,26,27,28,29,30,31
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					14, 18, 21, 25, 28,
	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	Yes					1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 14,
	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 SANJHEZ JR.

Certificate No. and Grade: WS0009456, C

Date: June 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: May 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		
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						

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SUBMITTED BY: TOMAS SANCHEZ JR.

Certificate No. and Grade: WS0009456, C

Date: June 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: 1,900

Month: May Year: 2015 Population: 6,650

PERFORMANCE DATA																				
Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY (Optional Data)						FINISHED WATER QUALITY									
			NTU	Aik.	Basin No.						Combined Filter Effluent Turbidity						Lowest Residual	Time		
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6				
1	1.881	0.740	11	120	0.3	0.7							0.17	0.16	0.16	0.22	0.22	0.19	1.7	
2	1.434	0.868	9	120	0.2	0.8							0.19	0.16	0.14	0.14	0.22	0.18	2.6	
3	1.372	0.757	9	120	0.5	0.7							0.18	0.23	0.25	0.25	0.12	0.11	1.6	
4	1.188	0.715	13	120	0.5	1.7							0.11	0.13	0.10	0.10	0.08	0.05	1.9	
5	0.986	0.769	10	120	0.5	1.8							0.05	X	0.09	0.09	0.07	0.08	1.1	
6	1.021	0.863	13	140	0.5	1.2							0.08	X	0.08	0.08	0.08	0.06	1.8	
7	1.249	0.848	12	120	0.7	0.5							0.08	0.08	0.14	0.14	0.14	0.12	1.8	
8	1.084	0.764	11	140	0.5	0.3							0.12	0.10	0.13	0.13	0.12	0.07	1.5	
9	1.004	0.844	13	140	0.7	1.0							0.07	X	0.10	0.10	0.15	0.14	1.7	
10	1.227	0.873	16	140	0.5	0.7							0.14	0.14	0.14	0.14	0.14	0.14	1.5	
11	1.008	0.684	17	140	0.6	0.5							0.14	X	0.18	0.18	0.14	0.13	2.1	
12	0.935	0.658	19	140	0.9	1.0							0.13	X	0.11	0.11	0.11	0.11	2.5	
13	1.159	0.644	18	140	1.1	1.4							0.11	0.10	0.11	0.11	0.15	0.17	2.5	
14	1.310	0.725	17	140	0.7	1.1							0.17	0.16	0.13	0.13	0.11	0.16	MD	
15	1.249	0.830	25	140	0.7	1.0							0.16	0.16	0.17	0.17	0.17	0.15	2.5	
16	1.608	0.938	25	140	0.3	1.1							0.15	0.14	0.14	0.14	X	0.21	2.5	
17	1.205	0.641	15	140	1.1	1.3							0.21	0.29	0.29	0.29	0.28	0.17	2.5	
18	1.245	0.959	16	140	7.0	3.8							0.17	0.15	0.17	0.17	0.11	0.08	MD	
19	1.178	0.950	18	140	0.8	1.9							0.08	0.14	0.23	0.23	0.15	0.13	1.5	
20	1.062	0.839	19	120	0.7	1.6							0.13	X	0.13	0.13	0.12	0.12	2.0	
21	1.058	0.696	16	120	0.9	2.5							0.12	X	0.14	0.14	0.12	0.12	MD	
22	1.148	0.717	15	100	1.1	1.4							0.12	X	0.14	0.14	0.15	0.15	1.7	
23	1.110	0.762	17	120	0.5	1.2							0.15	X	0.19	0.19	0.17	0.15	1.2	
24	0.989	0.743	16	120	0.7	1.1							0.15	X	0.14	0.14	0.15	0.09	1.8	
25	1.007	0.699	11	140	1.2	1.7							0.09	X	0.14	0.14	0.08	0.08	MD	
26	1.218	0.741	12	140	0.8	1.1							0.08	0.09	0.12	0.12	0.12	0.11	3.6	
27	1.374	0.910	17	140	0.4	1.2							0.11	0.11	0.10	0.10	0.11	0.13	2.5	
28	1.588	0.786	28	140	1.4	0.5							0.13	0.12	0.28	0.28	0.26	0.24	MD	
29	1.496	0.767	15	140	0.4	1.0							0.24	0.18	X	X	0.15	0.12	1.8	
30	1.537	0.742	16	120	5.1	0.7							0.12	X	0.22	0.22	0.21	0.19	0.9	
31		0.797	17	120	0.6	0.6							0.19	X	0.19	0.19	0.23	X	2.6	
Total	36.930	24.271																		
Avg	1.231	0.783																		
Max	1.881	0.959																		
Min	0.935	0.641																		

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: June 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: May

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	MD		MD		MD		MD														
2	MD		MD		MD		MD														
3	MD		MD		MD		MD														
4	MD		MD		MD		MD														
5	MD		MD		MD		MD														
6	MD		0.03		0.05		0.14														
7	MD		0.26		0.19		0.26														
8	MD		0.07		0.12		0.11														
9	MD		0.21		0.29		0.15														
10	0.23		0.18		0.20		MD														
11	0.18		0.25		0.30		0.19														
12	0.10		0.14		0.09		0.12														
13	0.10		0.14		0.09		0.11														
14	MD		MD		MD		MD														
15	0.10		0.14		0.09		0.11														
16	0.10		0.14		0.09		0.11														
17	0.10		0.14		0.09		0.11														
18	0.10		0.14		0.09		0.16														
19	0.13		0.25		0.29		0.33														
20	0.08		0.23		0.19		0.26														
21	0.08		0.14		0.19		0.23														
22	0.12		0.26		0.27		0.27														
23	0.11		0.26		0.26		0.30														
24	0.08		0.18		0.21		0.25														
25	0.20		0.18		0.20		0.17														
26	0.06		0.17		0.22		0.15														
27	0.06		0.18		0.24		0.17														
28	0.15		0.27		0.48		0.32														
29	0.40		0.32		0.32		0.28														
30	0.24		0.38		0.42		0.45														
31	0.19		0.36		0.45		0.26														

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: June 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: May

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 ₁₀ (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 (min)
1	FCL D1A	1.3	0.622	24.0	7.5				
	FCL D1B	1.4	0.622	24.0	7.4				
	FCL D2	2.9	0.311	24.0	7.5	9.57	331.63	19.13	
	CLA D3	2.7	1.244	24.0	6.9				
	D4								
2	FCL D1A	1.0	0.636	24.0	7.3				
	FCL D1B	1.3	0.636	24.0	7.3				
	FCL D2	3.3	0.318	24.0	7.4	9.86	337.15	19.71	
	CLA D3	3.0	1.272	23.0	7.7				
	D4								
3	FCL D1A	0.6	0.856	23.0	7.4				
	FCL D1B	0.8	0.856	23.0	7.4				
	FCL D2	3.4	0.424	23.0	7.4	6.38	224.55	12.76	
	CLA D3	2.5	1.712	23.0	7.2				
	D4								
4	FCL D1A	1.7	0.598	23.0	7.6				
	FCL D1B	3.3	0.598	24.0	7.7				
	FCL D2	6.2	0.299	23.4	7.0	13.52	445.91	27.04	
	CLA D3	4.2	1.196	24.0	7.1				
	D4								
5	FCL D1A	1.6	0.613	22.9	6.6				
	FCL D1B	3.3	0.613	23.4	6.5				
	FCL D2	4.4	0.306	23.3	6.4	16.46	425.16	32.92	
	CLA D3	3.3	1.226	24.2	6.4				
	D4								
6	FCL D1A	1.4	0.627	24.0	6.5				
	FCL D1B	2.8	0.627	24.2	6.5				
	FCL D2	3.6	0.313	23.6	6.5	15.49	388.93	30.99	
	CLA D3	3.1	1.255	24.6	6.4				
	D4								
7	FCL D1A	1.9	0.630	25.0	6.8				
	FCL D1B	2.8	0.630	24.7	6.6				
	FCL D2	3.9	0.315	24.6	6.6	16.86	469.53	33.73	
	CLA D3	3.1	1.261	24.6	6.6				
	D4								
8	FCL D1A	1.7	0.640	25.3	6.4				
	FCL D1B	2.3	0.640	25.1	6.4				
	FCL D2	3.1	0.320	25.2	6.5	16.21	396.49	32.42	
	CLA D3	2.3	1.281	25.1	6.5				
	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	1.9	0.636	26.3	6.1				
	FCL D1B	2.2	0.636	26.4	6.1				
	FCL D2	3.5	0.318	26.1	6.3	20.77	480.42	41.55	
	CLA D3	2.1	1.272	26.3	6.3				
	D4								
10	FCL D1A	1.4	0.619	26.5	6.5				
	FCL D1B	2.0	0.619	26.5	6.5				
	FCL D2	3.6	0.309	26.1	6.6	17.89	465.88	35.79	
	CLA D3	2.9	1.238	26.2	6.6				
	D4								
11	FCL D1A	1.2	0.609	25.9	6.4				
	FCL D1B	1.3	0.609	25.8	6.4				
	FCL D2	3.1	0.304	26.1	6.5	16.68	402.63	33.36	
	CLA D3	2.6	1.219	26.2	6.6				
	D4								
12	FCL D1A	1.5	0.600	25.0	6.7				
	FCL D1B	1.5	0.600	25.0	6.8				
	FCL D2	3.4	0.300	24.0	6.7	15.09	408.52	30.18	
	CLA D3	2.4	1.200	23.0	6.8				
	D4								
13	FCL D1A	1.0	0.614	25.0	6.6				
	FCL D1B	1.6	0.614	25.0	6.6				
	FCL D2	3.2	0.307	25.0	6.5	14.65	385.13	29.31	
	CLA D3	2.6	1.228	25.0	6.4				
	D4								
14	FCL D1A	0.8	0.622	26.0	6.6				
	FCL D1B	1.7	0.622	26.0	6.4				
	FCL D2	2.2	0.311	26.0	6.4	12.40	277.78	24.80	
	CLA D3	2.4	1.245	26.0	6.4				
	D4								
15	FCL D1A	0.7	0.619	25.0	6.3				
	FCL D1B	1.1	25.000	25.0	6.7				
	FCL D2	3.3	0.309	25.0	6.6	11.17	300.48	22.35	
	CLA D3	2.4	1.238	25.0	6.3				
	D4								
16	FCL D1A	0.7	0.621	25.0	6.4				
	FCL D1B	1.2	0.621	25.0	6.3				
	FCL D2	2.9	0.310	25.0	6.4	13.21	310.45	26.43	
	CLA D3	2.5	1.242	25.0	6.6				
	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: June 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: May

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 ₁₀ (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	1.5	0.840	28.0	6.4				
	FCL D1B	1.3	0.840	28.0	6.4				
	FCL D2	3.8	0.420	28.0	6.7	12.68	345.88	25.36	
	CLA D3	2.3	1.680	28.0	6.7			(G)	
	D4								
18	FCL D1A	1.9	0.813	26.0	6.5				
	FCL D1B	2.8	0.813	26.0	6.5				
	FCL D2	3.5	0.406	24.1	6.4	13.65	336.70	27.29	
	CLA D3	2.3	1.627	26.0	6.5			(G)	
	D4								
19	FCL D1A	0.9	0.604	26.0	6.4				
	FCL D1B	1.8	0.604	24.0	6.3				
	FCL D2	3.0	0.302	26.5	6.4	15.93	378.07	31.87	
	CLA D3	2.3	1.208	27.8	6.5			(G)	
	D4								
20	FCL D1A	1.5	0.614	26.6	6.6				
	FCL D1B	2.5	0.614	26.6	6.4				
	FCL D2	3.4	0.307	26.6	6.4	18.76	467.02	37.53	
	CLA D3	2.6	1.228	27.6	6.3			(G)	
	D4								
21	FCL D1A	1.9	0.619	25.3	6.1				
	FCL D1B	3.1	0.619	25.3	6.2				
	FCL D2	4.0	0.309	25.0	6.4	20.28	500.68	40.56	
	CLA D3	2.5	1.239	26.0	6.0			(G)	
	D4								
22	FCL D1A	1.9	0.632	25.0	6.5				
	FCL D1B	2.9	0.632	25.0	6.4				
	FCL D2	4.0	0.316	26.2	6.3	20.88	521.56	41.75	
	CLA D3	2.7	1.264	23.7	7.0			(G)	
	D4								
23	FCL D1A	1.6	0.643	26.9	6.3				
	FCL D1B	2.9	0.643	27.5	6.3				
	FCL D2	3.5	0.321	26.0	6.4	18.76	452.40	37.52	
	CLA D3	2.0	1.287	27.0	6.3			(G)	
	D4								
24	FCL D1A	2.0	0.638	26.0	6.3				
	FCL D1B	1.9	0.638	26.0	6.3				
	FCL D2	3.0	0.319	25.0	6.3	17.73	407.37	35.47	
	CLA D3	2.7	1.277	24.0	6.4			(G)	
	D4								

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

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	1.8	0.634	27.0	6.3				
	FCL D1B	2.1	0.634	26.8	6.3				
	FCL D2	3.5	0.317	26.9	6.3	20.64	499.20	41.29	
	CLA D3	2.0	1.268	26.4	6.3			(G)	
	D4								
26	FCL D1A	1.6	0.612	26.0	6.4				
	FCL D1B	2.0	0.612	26.0	6.4				
	FCL D2	3.1	0.306	26.0	6.4	18.24	430.85	36.48	
	CLA D3	3.5	1.225	26.0	6.3			(G)	
	D4								
27	FCL D1A	0.7	0.821	28.0	6.1				
	FCL D1B	1.1	0.821	28.0	6.1				
	FCL D2	3.9	0.410	28.0	6.1	16.57	373.69	33.13	
	CLA D3	3.2	1.643	29.0	6.1			(G)	
	D4								
28	FCL D1A	0.8	0.843	26.0	6.2				
	FCL D1B	1.2	0.843	27.0	6.1				
	FCL D2	3.6	0.421	26.0	6.3	12.78	303.80	25.56	
	CLA D3	2.4	1.687	26.0	6.2			(G)	
	D4								
29	FCL D1A	0.8	0.843	25.0	6.7				
	FCL D1B	1.1	0.843	25.0	6.7				
	FCL D2	3.3	0.421	25.0	6.2	11.40	264.26	22.60	
	CLA D3	2.9	1.686	24.0	6.2			(G)	
	D4								
30	FCL D1A	0.7	0.866	25.0	6.3				
	FCL D1B	1.4	0.866	25.0	6.2				
	FCL D2	3.9	0.433	25.0	6.3	11.84	288.26	23.67	
	CLA D3	2.7	1.733	25.0	6.2			(G)	
	D4								
31	FCL D1A	0.8	0.883	25.0	6.7				
	FCL D1B	1.5	0.883	25.0	6.0				
	FCL D2	3.8	0.441	25.0	6.3	11.38	282.27	22.76	
	CLA D3	2.6	1.766	25.0	6.3			(G)	
	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	20.88	521.56	41.75
Min	6.38	224.55	12.76
Avg	15.09	383.31	30.18
SD	3.60	77.99	7.19

SUBMITTED BY:

Thomas Sanchez Jr.

Certificate No. and Grade: WS0009456, C

Date: June 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: May 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						calculated	calculated from matrix	
1	5/6	140	2.90	2.56	11.7	15	0.78			0.78
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
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30										
31										
Avg		140.00	2.90	2.56	11.72		0.78			0.78
Max		140.00	2.90	2.56	11.72		0.78			0.78
Min		140.00	2.90	2.56	11.72		0.78			0.78

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	2.90	2.56	11.7	NA	0.78

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: June 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