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 Revised

PWS ID No.: 2400022

Plant ID No.: 20831

Report for the Month of: April 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.

Operator's Signature:

Certificate No. & Grade: WS0009456, C

Date: May 21, 2015

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	153	Number of 4-hour periods when plant was off-line:	27
Number of readings above 0.10 NTU:	28	Number of 4-hour periods when plant was on-line	
Number of readings above 0.3 NTU:	0	but turbidity data was not collected:	0
Number of readings above 0.5 NTU:	0	Number of days when plant was on-line	
Number of readings above 1.0 NTU:	0	but individual filter turbidity data was not collected:	30
Maximum allowable turbidity level:	0.3	Number of days with readings above 1.0 NTU:	0 (2)
Percentage of readings above this limit:	0.0 % (1)	Number of days with readings above 5.0 NTU:	0 (3)

Statistical Summary				
Maximum turbidity reading:	0.18 NTU	Average turbidity value:	0.08 NTU
Minimum turbidity reading:	0.04 NTU	Standard deviation:	0.028 NTU
CFE 95th percentile value:	0.15 NTU	IFE 95th percentile:	NA 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:	6.24 (R)
		Average log inactivation for viruses:	165.12 (R)
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	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:	35 (at least 30 required) (8)		
Average disinfectant residual value:	1.39	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: ◉ 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

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 Revised

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

PUBLIC NOTICES

VIOLATION TYPE	DESCRIPTION OF VIOLATION	VIOLATION OCCURRED?	NOTICE TO TCEQ ■ DATE OF NOTICE	NOTICE TO CUSTOMER * DATE OF NOTICE	NOTICE TO CUSTOMER * 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
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*	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.
	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.

SUMITTED BY: TOMAS SANCHEZ JR Certificate No. and Grade: WS0009456, C Date: May 21, 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 Revised

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

PUBLIC NOTICES

VIOLATION TYPE	DESCRIPTION OF VIOLATION	VIOLATION OCCURRED?	NOTICE TO TCEQ 🖬 DATE OF NOTICE	NOTICE TO CUSTOMER * DATE OF NOTICE	NOTICE TO CUSTOMER * 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 *Crptosporidium* 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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SUMITTED BY: Tomas Sanchez Jr. Certificate No. and Grade: WS0009456, C Date: May 21, 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 Revised

PWS ID No.: 2400022 **Plant ID No.:** 20831 **Connections:** 1,907

Month: April **Year:** 2015 **Population:** 6,675

PERFORMANCE DATA

Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY (Optional Data) Basin No.						FINISHED WATER QUALITY Combined Filter Effluent Turbidity						Lowest Residual	Time*
			NTU	Alk.	1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6		
1	17.467	7.516	7	120	0.5	0.5					0.07	0.07	0.07	0.07	0.06	0.06	2.5	
2	17.467	12.859	8	140	0.5	0.6					0.05	0.06	0.06	0.07	0.08	0.09	2.0	
3	12.916	12.398	7	120	1.0	0.6					0.08	0.09	0.07	0.07	0.06	0.05	2.9	
4	13.032	6.480	16	140	0.5	0.6					0.06	0.05	0.06	0.05	0.06	0.06	3.3	
5	13.032	7.502	11	120	0.4	0.7					0.06	0.06	0.07	0.05	0.07	0.05	3.0	
6	17.697	7.142	15	120	0.9	0.8					0.05	0.07	0.07	0.06	0.06	0.06	2.8	
7	12.744	12.369	9	140	0.7	0.6					0.07	0.08	0.05	0.06	0.05	0.06	3.2	
8	12.787	11.080	8	140	0.4	0.8					0.06	0.07	0.08	0.07	0.07	0.07	2.5	
9	13.003	11.707	11	140	0.5	0.6					0.06	0.07	0.07	0.07	0.07	0.07	2.7	
10	17.611	11.563	12	120	1.0	0.5					0.07	0.08	0.07	0.07	0.07	0.06	2.9	
11	13.334	7.344	10	120	1.2	0.6					0.07	0.08	0.07	0.07	0.09	0.09	2.4	
12	12.715	7.156	23	120	1.2	0.5					0.10	0.09	0.08	0.07	0.07	0.07	2.9	
13	12.844	12.801	16	120	1.1	0.5					0.08	0.07	0.07	0.07	0.07	0.07	2.9	
14	12.859	7.387	17	140	0.5	0.4					0.09	X	X	0.08	0.09	0.08	1.9	
15	12.830	7.560	13	140	0.8	0.6					0.08	X	X	0.13	0.07	0.07	2.7	
16	12.715	7.113	13	140	0.9	1.0					0.06	X	X	0.06	0.06	0.06	2.8	
17	12.916	7.344	15	120	0.3	0.6					0.05	X	0.12	0.06	X	0.07	2.1	
18	12.945	7.416	12	140	0.4	0.5					0.07	X	X	0.07	0.08	0.08	2.1	
19	12.657	7.416	14	140	0.2	0.4					0.08	X	X	0.07	0.08	0.11	2.5	
20	13.305	12.628	11	140	1.3	0.6					0.11	X	X	0.04	0.06	0.06	2.6	
21	5.363	6.025	8	140	0.5	0.4					0.06	X	X	0.10	X	X	2.0	
22	12.687	6.679	6	140	1.4	1.3					X	0.07	0.10	0.10	0.10	0.10	2.8	
23	8.256	6.793	4	140	0.8	0.9					0.10	X	0.09	0.09	0.10	0.08	2.8	
24	6.814	4.887	6	140	1.3	1.2					0.08	X	0.08	0.08	0.08	0.08	3.1	
25	9.794	7.454	9	140	0.8	0.5					0.08	X	X	0.08	0.09	0.08	3.1	
26	10.902	7.539	13	140	2.1	0.6					0.08	X	0.11	0.11	0.11	0.12	2.9	
27	12.898	7.252	24	140	0.8	0.6					0.12	0.09	0.12	0.12	0.13	0.13	3.0	
28	11.581	4.947	21	140	0.4	0.4					0.13	X	0.16	0.16	0.13	0.16	3.9	
29	10.867	9.899	16	140	0.5	1.1					0.16	X	0.12	0.12	0.18	0.16	3.3	
30	8.699	7.084	12	120	0.6	1.0					0.16	X	0.14	0.14	0.18	0.15	4.2	
31																		
Total	374.737	253.340																
Avg	12.491	8.445																
Max	17.697	12.859																
Min	5.363	4.887																

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:** May 21, 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 Revised

PWS ID No.: 2400022 Plant ID No.: 20831 Month: April 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	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	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		MD		MD		MD													
7	MD		MD		MD		MD													
8	MD		MD		MD		MD													
9	MD		MD		MD		MD													
10	MD		MD		MD		MD													
11	MD		MD		MD		MD													
12	MD		MD		MD		MD													
13	MD		MD		MD		MD													
14	MD		MD		MD		MD													
15	MD		MD		MD		MD													
16	MD		MD		MD		MD													
17	MD		MD		MD		MD													
18	MD		MD		MD		MD													
19	MD		MD		MD		MD													
20	MD		MD		MD		MD													
21	MD		MD		MD		MD													
22	MD		MD		MD		MD													
23	MD		MD		MD		MD													
24	MD		MD		MD		MD													
25	MD		MD		MD		MD													
26	MD		MD		MD		MD													
27	MD		MD		MD		MD													
28	MD		MD		MD		MD													
29	MD		MD		MD		MD													
30	MD		MD		MD		MD													
31																				

SUMMARY & COMPLIANCE ACTIONS

Criteria	Filter No. 1	2	3	4	5	6	7	8	9	10	Plant
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: May 21, 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 Revised

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

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
	Disinfection Zones					Log Inactivations	
Parameters	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

Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
1	FCL *D1A*	0.3	0.873	22.0	6.6				
	FCL *D1B*	0.4	0.873	22.0	6.6				
	FCL *D2*	0.4	0.436	22.0	6.6	1.42	25.14	2.84	
	CLA *D3*	2.5	1.746	21.0	6.7			(G)	
	D4								
2	FCL *D1A*	0.4	0.873	24.0	6.6				
	FCL *D1B*	0.2	0.873	24.0	6.6				
	FCL *D2*	0.2	0.436	23.0	6.6	0.70	13.74	1.41	
	CLA *D3*	2.0	1.746	0.6	6.7			(G)	
	D4								
3	FCL *D1A*	0.5	0.645	23.0	6.7				
	FCL *D1B*	0.6	0.645	23.0	6.7				
	FCL *D2*	0.3	0.322	23.0	6.7	2.24	40.04	4.48	
	CLA *D3*	2.9	1.291	23.0	6.7			(G)	
	D4								
4	FCL *D1A*	0.6	0.651	21.9	7.0				
	FCL *D1B*	0.9	0.651	21.7	6.9				
	FCL *D2*	0.3	0.325	21.7	6.8	2.00	36.98	4.01	
	CLA *D3*	3.3	1.303	22.0	6.8			(G)	
	D4								
5	FCL *D1A*	0.6	0.651	23.0	6.3				
	FCL *D1B*	1.1	0.651	23.0	6.3				
	FCL *D2*	0.2	0.325	23.0	6.4	2.09	32.81	4.19	
	CLA *D3*	3.0	1.303	23.0	6.5			(G)	
	D4								
6	FCL *D1A*	0.4	0.884	23.0	6.5				
	FCL *D1B*	0.8	0.884	23.0	6.5				
	FCL *D2*	0.1	0.442	22.0	6.7	0.99	14.50	1.98	
	CLA *D3*	2.8	1.769	23.0	6.7			(G)	
	D4								
7	FCL *D1A*	0.2	0.637	23.3	6.2				
	FCL *D1B*	0.7	0.637	23.3	6.0				
	FCL *D2*	0.1	0.318	23.5	6.5	1.44	18.59	2.88	
	CLA *D3*	3.2	1.274	23.8	6.7			(G)	
	D4								
8	FCL *D1A*	0.5	0.639	24.4	6.8				
	FCL *D1B*	0.6	0.639	24.3	6.6				
	FCL *D2*	0.2	0.319	24.3	6.6	1.92	32.60	3.84	
	CLA *D3*	2.5	1.278	24.8	6.5			(G)	
	D4								

PERFORMANCE DATA

Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
9	FCL *D1A*	0.8	0.650	24.8	6.8				
	FCL *D1B*	1.0	0.650	24.7	6.7				
	FCL *D2*	0.3	0.325	24.5	6.7	2.77	52.85	5.53	
	CLA *D3*	2.7	1.300	25.3	6.6			(G)	
	D4								
10	FCL *D1A*	0.4	0.880	24.0	6.6				
	FCL *D1B*	0.4	0.880	24.0	6.6				
	FCL *D2*	0.1	0.440	24.0	6.5	1.14	16.66	2.27	
	CLA *D3*	2.9	1.761	24.0	6.5			(G)	
	D4								
11	FCL *D1A*	0.1	0.666	24.0	6.5				
	FCL *D1B*	0.1	0.666	24.0	6.5				
	FCL *D2*	0.1	0.333	24.0	6.6	0.75	7.94	1.50	
	CLA *D3*	2.4	1.333	24.0	6.6			(G)	
	D4								
12	FCL *D1A*	0.5	0.635	24.0	6.6				
	FCL *D1B*	0.6	0.635	24.0	6.5				
	FCL *D2*	0.3	0.317	24.2	6.4	2.27	37.54	4.54	
	CLA *D3*	2.9	1.271	23.0	6.6			(G)	
	D4								
13	FCL *D1A*	0.4	0.642	23.9	6.5				
	FCL *D1B*	0.6	0.642	24.2	6.5				
	FCL *D2*	0.3	0.321	23.4	6.4	1.71	30.53	3.42	
	CLA *D3*	2.9	1.284	6.6	6.6			(G)	
	D4								
14	FCL *D1A*	1.2	0.642	23.0	6.5				
	FCL *D1B*	1.0	0.642	23.0	6.5				
	FCL *D2*	0.4	0.321	23.0	5.9	3.18	55.56	6.35	
	CLA *D3*	1.9	1.285	23.0	6.1			(G)	
	D4								
15	FCL *D1A*	1.2	0.641	24.0	6.4				
	FCL *D1B*	0.9	0.641	24.0	6.4				
	FCL *D2*	4.4	0.320	24.0	6.4	13.38	348.61	26.76	
	CLA *D3*	2.7	1.283	23.0	6.4			(G)	
	D4								
16	FCL *D1A*	1.2	0.635	24.0	6.5				
	FCL *D1B*	1.0	0.635	24.0	6.7				
	FCL *D2*	1.3	0.317	24.0	6.5	6.46	136.50	12.92	
	CLA *D3*	2.8	1.271	23.0	6.6			(G)	
	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: May 21, 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 Revised

PWS ID No.: 2400022 **Plant ID No.:** 20831 **Month:** April **Year:** 2015

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
	Disinfection Zones					Log Inactivations	
Parameters	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

Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time*
17	FCL *D1A*	0.6	0.645	24.0	6.0	7.88	157.38	15.77 (G)	
	FCL *D1B*	0.5	0.645	24.0	6.6				
	FCL *D2*	1.9	0.322	23.0	6.1				
	CLA *D3*	2.1	1.291	23.0	6.2				
	D4								
18	FCL *D1A*	0.7	0.647	25.0	6.4	8.87	194.42	17.74 (G)	
	FCL *D1B*	0.6	0.647	24.0	6.3				
	FCL *D2*	2.2	0.323	24.0	6.4				
	CLA *D3*	2.1	1.294	24.0	6.4				
	D4								
19	FCL *D1A*	0.5	0.632	25.0	6.5	9.65	217.00	19.31 (G)	
	FCL *D1B*	0.5	0.632	25.0	6.6				
	FCL *D2*	2.3	0.316	25.0	6.4				
	CLA *D3*	2.5	1.265	25.0	6.7				
	D4								
20	FCL *D1A*	0.6	0.665	23.9	7.1	10.67	273.49	21.33 (G)	
	FCL *D1B*	0.6	0.665	24.4	7.3				
	FCL *D2*	3.3	0.332	24.0	6.5				
	CLA *D3*	2.6	1.330	24.0	6.6				
	D4								
21	FCL *D1A*	1.2	0.655	22.9	6.7	10.32	282.18	20.64 (G)	
	FCL *D1B*	0.9	0.655	23.1	6.7				
	FCL *D2*	3.5	0.327	23.1	6.6				
	CLA *D3*	2.0	1.310	23.8	6.7				
	D4								
22	FCL *D1A*	0.9	0.637	23.4	6.9	10.69	321.19	21.38 (G)	
	FCL *D1B*	1.3	0.637	23.4	7.0				
	FCL *D2*	3.8	0.318	23.4	6.8				
	CLA *D3*	2.8	1.275	23.7	6.8				
	D4								
23	FCL *D1A*	0.7	0.624	24.4	7.1	11.58	354.72	23.16 (G)	
	FCL *D1B*	1.1	0.624	24.7	7.2				
	FCL *D2*	4.2	0.312	24.1	6.8				
	CLA *D3*	2.8	1.249	23.7	6.8				
	D4								
24	FCL *D1A*	0.9	0.613	25.3	7.0	11.32	368.90	22.64 (G)	
	FCL *D1B*	1.2	0.613	25.1	7.1				
	FCL *D2*	3.8	0.306	24.8	7.1				
	CLA *D3*	3.1	1.226	24.3	6.8				
	D4								

PERFORMANCE DATA

Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time*
25	FCL *D1A*	0.9	0.619	26.1	6.9	12.45	365.28	24.90 (G)	
	FCL *D1B*	1.2	0.619	26.2	6.9				
	FCL *D2*	3.5	0.309	25.9	6.9				
	CLA *D3*	3.1	1.238	25.8	6.7				
	D4								
26	FCL *D1A*	0.7	0.622	26.6	6.6	13.20	382.94	26.39 (G)	
	FCL *D1B*	0.9	0.622	26.4	6.7				
	FCL *D2*	3.6	0.311	26.6	6.8				
	CLA *D3*	2.9	1.245	26.8	6.6				
	D4								
27	FCL *D1A*	0.2	0.632	25.0	6.9	8.55	278.71	17.10 (G)	
	FCL *D1B*	0.5	0.632	25.0	6.9				
	FCL *D2*	3.0	0.316	25.5	7.3				
	CLA *D3*	3.0	1.265	27.9	7.0				
	D4								
28	FCL *D1A*	0.5	0.649	25.0	7.3	9.79	254.48	19.58 (G)	
	FCL *D1B*	1.3	0.649	25.0	7.0				
	FCL *D2*	2.8	0.324	25.0	6.7				
	CLA *D3*	3.9	1.298	24.0	6.8				
	D4								
29	FCL *D1A*	1.2	0.658	21.0	6.7	8.23	250.97	16.46 (G)	
	FCL *D1B*	1.5	0.658	21.0	6.3				
	FCL *D2*	4.0	0.329	19.0	6.9				
	CLA *D3*	3.3	1.316	23.0	7.8				
	D4								
30	FCL *D1A*	1.4	0.524	23.0	8.0	9.47	351.24	18.95 (G)	
	FCL *D1B*	3.2	0.524	23.0	7.1				
	FCL *D2*	3.3	0.262	23.0	7.6				
	CLA *D3*	4.2	1.049	24.0	6.9				
	D4								
31	*D1A*								
	D1B								
	D2								
	D3								
	D4								
					Max	13.38	382.94	26.76	
					Min	0.70	7.94	1.41	
					Avg	6.24	165.12	12.48	
					SD	4.44	138.48	8.87	

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.

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:** May 21, 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

PLANT NAME OR NUMBER: Rio Bravo Revised

PWS ID No.: 2480022

Plant ID No.: 20831

Month: April

Year: 2015

Type of treatment: [X] 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*	*calculated*			*calculated*
1	4/1	120	3.54	2.49	29.7	25	1.19			1.19
2										
3										
4										
5										
6										
7										
8										
9										
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28										
29										
30										
31										
Avg		120.00	3.54	2.49	29.66		1.19			1.19
Max		120.00	3.54	2.49	29.66		1.19			1.19
Min		120.00	3.54	2.49	29.66		1.19			1.19

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	3.54	2.49	29.7	NA	1.19

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: May 21, 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

WEBB COUNTY UTILITIES DEPARTMENT
513 MARTHA DRIVE
RIO BRAVO, Texas 78046

COVER LETTER
Revised SWMOR

Attention To: *Donald Hunter*

Submitted by: *Tomas Sanchez Jr.*

Date/Time: *May 21, 2015*

Attach is the revised Monthly Report for April 2015 that we had some wrong incorrect readings to the Flows on Page 4 & 5.

Revised month of April 2015.