SURFACE WATER MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER

Summary Page

PUBLIC WATER SYSTEM NAME: Webb County Water Utility

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022

Plant ID No.: 20831

Report for the Month of: February 2018

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: WS0012772, B

Date: March 10, 2018

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	90	Number of 4-hour periods when plant was off-line:	78
Number of readings above 0.10 NTU:	67	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 readings above 0.5 NTU:	0	Number of days when plant was on-line but individual filter turbidity data was not collected:	0
Number of readings above 1.0 NTU:	0		
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)

Bin Class: 2 Crypto Credit Required: 4.0 (7A) Crypto Credit Achieved: 4.0 (7B) Bin 3&4 Credits: 1.0 (7C)

Watershed Protection:	0.0	Conventional Treatment:	3.0	Second Stage Filtration:	0.0
Bank Filtration:	0.0	Enhanced Filter Performance:	0.0	UV:	1.0
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 low inactivation (including UV) for no more than 4.0 consecutive hours:	0	Average log inactivation (including UV) for Giardia:	5.57
		Average log inactivation) (including UV) for viruses:	61.62
Number of days with low inactivation (including UV) 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	Minimum pH in the last disinfection zone:	6.70
		Number of days with pH below 7.0 in the last disinfection zone:	15.00
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:	40 (at least 28 required) (8)		
Average disinfectant residual value:	2.26	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 not required because there were no treatment technique or monitoring/reporting violations 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.	UV–CDA	UV–Sensor Data	UV–UVT Analyzer

STATISTICAL ANALYSIS OF TURBIDITY DATA

Settled Water Stastical Summary	Maximum turbidity reading:	9.52 NTU	Average turbidity value:	3.79 NTU
	Minimum turbidity reading:	0.18 NTU	Standard deviation:	1.813 NTU
	95th percentile value:	7.36 NTU		
IFE Stastical Summary	Maximum IFE turbidity reading:	0.00 NTU	Average IFE turbidity value:	0.06 NTU
	Minimum IFEturbidity reading:	0.32 NTU	Standard deviation:	0.146 NTU
	95th percentile IFE value:	0.06 NTU		
CFE Stastical Summary	Maximum CFE turbidity reading:	0.20 NTU	Average CFE turbidity value:	0.13 NTU
	Minimum CFE turbidity reading:	0.06 NTU	Standard deviation:	0.027 NTU
	95th percentile CFE value:	0.17 NTU		

STATISTICAL ANALYSIS OF pH DATA

Last Zone pH Stastical Summary	Maximum pH reading:	7.19 pH	Average pH value:	6.97 pH
	Minimum pH reading:	6.70 pH	Standard deviation:	0.112 pH
	95th percentile value:	7.12 pH		

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.)

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:** 1,931

Month: February **Year:** 2018 **Population:** 6,759

PERFORMANCE DATA

Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES NTU	RAW WATER ANALYSES Alk.	SETTLED WATER TURBIDITY (Mandatory Data) Basin No. 1	2	3	4	5	6	FINISHED WATER QUALITY Combined Filter Effluent Turbidity NTU1	NTU2	NTU3	NTU4	NTU5	NTU6	Lowest Residual	Time*
1	0.951	0.660	62	120	0.4	3.8					0.12	X	X	0.11	0.14	0.20	2.6	
2	0.736	0.490	54	120	0.2	3.8					X	X	X	0.13	0.12	0.09	2.7	
3	0.830	0.530	85	120	8.3	9.5					X	X	X	0.10	0.11	0.10	3.3	
4	0.959	0.570	10	140	8.7	4.5					X	X	X	0.09	X	0.10	3.0	
5	0.941	0.476	18	140	7.1	4.9					0.11	X	X	0.14	0.10	0.13	2.5	
6	0.927	0.519	15	120	2.0	1.5					X	X	X	0.12	X	0.14	2.4	
7	1.116	0.489	11	120	3.0	4.2					0.12	0.12	X	0.10	0.13	0.15	2.7	
8	0.767	0.548	16	140	2.5	3.3					X	X	X	X	0.13	0.13	2.7	
9	0.936	0.511	35	140	2.7	5.6					0.12	X	0.07	0.10	0.12	0.11	3.2	
10	0.819	0.443	41	120	3.3	3.5					X	X	X	0.10	0.12	0.11	2.9	
11	0.654	0.451	39	120	3.5	2.5					X	X	X	X	0.13	0.12	2.3	
12	0.880	0.344	16	140	4.4	3.0					X	X	X	0.10	0.12	0.10	2.7	
13	0.706	0.245	19	140	6.1	3.6					X	X	X	0.09	0.10	X	2.6	
14	0.764	0.285	33	140	3.9	2.6					0.09	X	X	X	0.09	X	2.6	
15	1.041	0.496	35	140	5.3	2.1					0.11	X	X	0.10	0.13	0.20	3.7	
16	0.816	0.529	24	140	4.1	3.2					X	X	X	0.13	0.14	0.12	3.1	
17	0.950	0.599	25	140	5.0	5.6					X	X	X	0.12	0.13	0.10	3.4	
18	0.709	0.508	16	160	2.5	3.5					0.09	0.09	0.09	0.09	0.12	0.14	3.5	
19	0.923	0.552	16	140	2.9	4.4					0.14	X	X	0.13	0.12	0.15	2.6	
20	1.012	0.520	54	140	2.9	3.9					0.15	X	X	0.13	0.14	X	3.6	
21	1.140	0.466	15	140	4.3	3.5					X	X	X	0.15	0.17	0.16	2.6	
22	0.877	0.431	14	140	2.2	3.5					X	X	X	0.15	X	0.16	2.7	
23	0.775	0.419	14	140	1.2	2.8					0.17	X	X	X	0.17	0.16	2.7	
24	0.904	0.507	27	140	3.3	3.0					X	X	X	0.11	0.13	0.06	3.2	
25	0.796	0.467	25	140	4.3	4.2					0.14	X	X	0.13	0.13	0.16	3.2	
26	0.891	0.534	25	140	4.3	2.8					X	X	X	0.13	0.15	0.16	3.4	
27	0.852	0.509	34	120	4.1	4.3					0.16	X	X	0.14	0.15	0.16	3.4	
28	0.944	0.393	36	140	6.4	0.8					X	X	X	0.15	0.17	0.17	2.6	
29																		
30																		
31																		
Total	24.616	13.491		Max	8.7	9.5												
Avg	0.879	0.482		Avg	3.9	3.7												
Max	1.140	0.660		95th %	7.8	5.6												
Min	0.654	0.245		Min	0.2	0.8												

95th percentile based on data from all basins: 7.4

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:** WS0012772, B **Date:** March 10, 2018

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: 2018

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	0.09		0.14		0.09		0.13													
2	0.06		0.06		0.08		0.16													
3	0.24		0.14		0.16		0.10													
4	0.06		0.23		0.16		0.24													
5	0.13		0.17		0.14		0.16													
6	0.18		0.18		0.21		0.28													
7	0.16		0.19		0.19		0.12													
8	0.14		0.14		0.20		0.23													
9	0.13		0.15		0.20		0.14													
10	0.10		0.19		0.14		0.16													
11	0.07		0.11		0.17		0.10													
12	0.08		0.12		0.13		0.14													
13	0.06		0.07		0.10		0.08													
14	0.17		0.16		0.18		0.19													
15	0.13		0.20		0.32		0.15													
16	0.06		0.24		0.13		0.09													
17	0.06		0.27		0.08		0.06													
18	0.15		0.11		0.21		0.14													
19	0.19		0.13		0.17		0.12													
20	0.19		0.16		0.09		0.10													
21	0.11		0.29		0.29		0.28													
22	0.18		0.26		0.25		0.16													
23	0.10		0.13		0.10		0.13													
24	0.08		0.13		0.09		0.29													
25	0.08		0.10		0.10		0.17													
26	0.08		0.12		0.13		0.07													
27	0.10		0.13		0.08		0.11													
28	0.10		0.23		0.15		0.10													
29																				
30																				
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: WS0012772, B Date: March 10, 2018

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: February Year: 2018

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

DISINFECTION PROCESS DATA

Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time*
1	FCL *D1A*	1.1	0.738	19.0	7.0				
	FCL *D1B*	0.8	0.738	19.1	7.0				
	FCL *D2*	0.8	0.369	18.6	7.2	2.60	55.48	5.21	
	CLA *D3*	2.6	0.738	19.9	7.2			(G)	
	D4								
2	FCL *D1A*	0.7	0.746	17.8	7.1				
	FCL *D1B*	1.3	0.746	18.3	7.0				
	FCL *D2*	0.8	0.373	17.8	7.2	2.61	51.77	5.22	
	CLA *D3*	3.4	0.746	19.5	7.1			(G)	
	D4								
3	FCL *D1A*	0.6	0.771	18.5	7.0				
	FCL *D1B*	0.8	0.771	18.5	7.0				
	FCL *D2*	0.8	0.385	17.9	7.1	2.43	46.30	4.86	
	CLA *D3*	3.5	0.771	18.5	7.0			(G)	
	D4								
4	FCL *D1A*	0.7	0.807	19.1	7.0				
	FCL *D1B*	0.8	0.807	18.9	7.1				
	FCL *D2*	0.5	0.403	19.3	7.2	1.92	34.86	3.83	
	CLA *D3*	3.1	0.807	19.3	7.0			(G)	
	D4								
5	FCL *D1A*	0.5	0.823	20.1	6.9				
	FCL *D1B*	0.5	0.823	14.3	6.9				
	FCL *D2*	0.4	0.411	19.4	7.1	1.72	27.25	3.45	
	CLA *D3*	3.3	0.823	20.1	7.1			(G)	
	D4								
6	FCL *D1A*	0.7	0.799	20.7	6.6				
	FCL *D1B*	0.5	0.799	20.2	6.6				
	FCL *D2*	0.2	0.399	19.6	6.9	1.29	18.65	2.57	
	CLA *D3*	2.4	0.799	19.6	6.8			(G)	
	D4								
7	FCL *D1A*	0.5	0.799	17.3	6.8				
	FCL *D1B*	0.4	0.799	17.0	6.8				
	FCL *D2*	0.4	0.399	16.5	6.9	1.55	23.67	3.10	
	CLA *D3*	3.4	0.799	16.5	6.9			(G)	
	D4								
8	FCL *D1A*	1.3	0.766	17.3	6.8				
	FCL *D1B*	1.3	0.766	17.3	6.8				
	FCL *D2*	1.2	0.383	17.2	7.0	3.37	72.66	6.75	
	CLA *D3*	3.5	0.766	17.3	6.9			(G)	
	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*	1.2	0.749	17.8	6.8				
	FCL *D1B*	1.1	0.749	18.2	6.8				
	FCL *D2*	1.1	0.374	17.6	6.9	3.43	68.09	6.86	
	CLA *D3*	4.0	0.749	17.8	6.9			(G)	
	D4								
10	FCL *D1A*	1.1	0.761	19.2	6.8				
	FCL *D1B*	1.0	0.761	19.3	6.8				
	FCL *D2*	1.1	0.380	18.1	6.9	3.53	70.62	7.05	
	CLA *D3*	3.6	0.761	19.4	6.8			(G)	
	D4								
11	FCL *D1A*	1.4	0.799	15.6	6.9				
	FCL *D1B*	1.4	0.799	15.4	6.9				
	FCL *D2*	1.4	0.399	16.8	7.1	3.14	72.73	6.28	
	CLA *D3*	3.3	0.799	15.6	6.9			(G)	
	D4								
12	FCL *D1A*	1.5	0.810	15.0	6.9				
	FCL *D1B*	1.7	0.810	14.9	7.0				
	FCL *D2*	0.9	0.405	15.5	7.1	2.38	50.37	4.76	
	CLA *D3*	3.2	0.810	15.7	7.1			(G)	
	D4								
13	FCL *D1A*	1.7	0.825	16.2	7.0				
	FCL *D1B*	1.6	0.825	16.0	6.9				
	FCL *D2*	1.3	0.412	16.5	7.1	3.02	69.62	6.04	
	CLA *D3*	3.0	0.825	16.7	6.9			(G)	
	D4								
14	FCL *D1A*	1.7	0.815	17.0	7.0				
	FCL *D1B*	1.5	0.815	17.0	6.9				
	FCL *D2*	1.3	0.407	17.0	7.1	3.15	73.39	6.30	
	CLA *D3*	2.9	0.815	17.0	7.1			(G)	
	D4								
15	FCL *D1A*	2.1	0.803	19.0	7.0				
	FCL *D1B*	2.0	0.803	19.0	7.0				
	FCL *D2*	1.2	0.401	19.0	7.1	3.97	90.12	7.93	
	CLA *D3*	4.1	0.803	19.0	6.9			(G)	
	D4								
16	FCL *D1A*	1.1	0.772	17.0	7.0				
	FCL *D1B*	1.3	0.772	17.0	6.9				
	FCL *D2*	1.3	0.386	17.0	7.1	3.33	71.84	6.67	
	CLA *D3*	4.2	0.772	17.0	7.0			(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: WS0012772, B Date: March 10, 2018

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:** 2018

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

DISINFECTION PROCESS DATA

Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
17	FCL *D1A*	1.2	0.758	18.9	7.0				
	FCL *D1B*	1.5	0.758	18.6	6.9				
	FCL *D2*	1.4	0.379	19.9	7.1	4.05	93.33	8.09	
	CLA *D3*	3.5	0.758	18.5	7.0			(G)	
	D4								
18	FCL *D1A*	1.4	0.717	19.0	6.9				
	FCL *D1B*	1.3	0.717	19.0	6.9				
	FCL *D2*	1.3	0.358	19.0	7.0	4.35	92.74	8.70	
	CLA *D3*	4.2	0.717	19.0	6.7			(G)	
	D4								
19	FCL *D1A*	1.1	0.756	20.0	6.9				
	FCL *D1B*	1.2	0.756	20.0	6.9				
	FCL *D2*	1.0	0.378	20.0	7.0	3.72	74.80	7.44	
	CLA *D3*	4.0	0.756	20.0	6.8			(G)	
	D4								
20	FCL *D1A*	0.9	0.779	20.8	6.8				
	FCL *D1B*	0.7	0.779	21.2	6.7				
	FCL *D2*	0.6	0.389	20.3	7.0	2.70	44.95	5.39	
	CLA *D3*	3.9	0.779	21.1	6.9			(G)	
	D4								
21	FCL *D1A*	1.1	0.799	22.0	6.9				
	FCL *D1B*	1.0	0.799	22.3	6.9				
	FCL *D2*	1.0	0.399	20.3	7.1	3.63	73.04	7.26	
	CLA *D3*	4.0	0.799	21.5	6.9			(G)	
	D4								
22	FCL *D1A*	1.0	0.825	18.8	7.0				
	FCL *D1B*	1.0	0.825	18.9	7.0				
	FCL *D2*	0.4	0.412	19.3	7.1	2.06	35.74	4.12	
	CLA *D3*	3.8	0.825	19.0	7.1			(G)	
	D4								
23	FCL *D1A*	1.3	0.815	18.4	7.1				
	FCL *D1B*	1.3	0.815	18.4	7.1				
	FCL *D2*	1.3	0.407	18.9	7.2	3.48	80.08	6.96	
	CLA *D3*	3.9	0.815	18.6	7.1			(G)	
	D4								
24	FCL *D1A*	1.0	0.786	21.5	7.1				
	FCL *D1B*	0.9	0.786	21.8	7.0				
	FCL *D2*	0.8	0.393	21.1	7.1	3.16	64.02	6.31	
	CLA *D3*	3.4	0.786	21.7	7.1			(G)	
	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*	1.6	0.770	21.4	7.0				
	FCL *D1B*	1.4	0.770	21.4	7.2				
	FCL *D2*	0.3	0.385	21.0	7.2	2.52	48.98	5.05	
	CLA *D3*	3.4	0.770	21.4	7.0			(G)	
	D4								
26	FCL *D1A*	0.8	0.766	20.2	7.1				
	FCL *D1B*	1.1	0.766	20.2	7.1				
	FCL *D2*	1.2	0.383	20.1	7.3	3.55	80.33	7.10	
	CLA *D3*	3.7	0.766	19.9	7.1			(G)	
	D4								
27	FCL *D1A*	1.3	0.755	21.2	7.0				
	FCL *D1B*	1.3	0.755	21.1	7.0				
	FCL *D2*	0.6	0.377	21.1	7.3	3.07	62.65	6.14	
	CLA *D3*	3.4	0.755	21.3	7.0			(G)	
	D4								
28	FCL *D1A*	0.8	0.756	21.0	7.1				
	FCL *D1B*	0.9	0.756	21.0	7.0				
	FCL *D2*	1.0	0.378	21.0	6.9	3.67	73.66	7.33	
	CLA *D3*	3.5	0.756	21.0	7.0			(G)	
	D4								
29	*D1A*								
	D1B								
	D2								
	D3								
	D4								
30	*D1A*								
	D1B								
	D2								
	D3								
	D4								
31	*D1A*								
	D1B								
	D2								
	D3								
	D4								
					Max	4.35	93.33	8.70	
					Min	1.29	18.65	2.57	
					Avg	2.98	61.49	5.96	
					SD	0.77	20.17	1.54	

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:** WS0012772, B **Date:** March 10, 2018

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: 2018

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	2/7	120	4.78	2.70	43.5	35	1.24			1.24
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										
Avg		120.00	4.78	2.70	43.51		1.24			1.24
Max		120.00	4.78	2.70	43.51		1.24			1.24
Min		120.00	4.78	2.70	43.51		1.24			1.24

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	4.78	2.70	43.5	NA	1.24

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: WS0012772, B

Date: March 10, 2018

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

UV MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER

UV Calculated Dose Approach Reactors

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:** 2018

VALIDATED OPERATIONAL CONDITIONS

VALIDATED PARAMETERS						PERFORMANCE REQUIREMENTS	
Parameters	Reactor Number					Crypto Log Inactivation	Required UV Dose (mJ/cm^2)
	UVCD1	UVCD2	UVCD3	UVCD4	UVCD5		
Max Validated Flow Rate (MGD)	5.080	5.080	5.080			1.0	2.50
Min Validated UVT (%)	69.20	69.20	69.20				

PERFORMANCE DATA

Date	Reactor	Total Product. (MG)	Max. Flow Rate (MGD)	Min UV Trans. (%)	Minimum Meas'd UV Dose (mJ/cm^2)	Sensor CF	Adjusted Minimum UV Dose (mJ/cm^2)	Total Off-Spec Product. (MG)	Consec. Off-Spec Hours (hr)
		OPERATIONAL DATA							
1	1	X	X	X	X	X	X	X	0.50
	2	0.520	1.121	100.00	0.00	1.00	0.00	0.005	
	3	0.352	0.725	100.00	0.00	1.00	0.00	0.003	
	4								
	5								
2	1	X	X	X	X	X	X	X	0.000
	2	0.398	0.858	86.80	40.62	1.00	40.62	0.000	
	3	0.267	0.585	86.80	61.73	1.00	61.73	0.000	
	4								
	5								
3	1	X	X	X	X	X	X	X	0.000
	2	0.451	0.985	88.10	2.78	1.00	2.78	0.000	
	3	0.298	0.654	88.10	54.44	1.00	54.44	0.000	
	4								
	5								
4	1	X	X	X	X	X	X	X	0.000
	2	0.463	0.933	88.90	37.36	1.00	37.36	0.000	
	3	0.312	0.608	88.90	59.37	1.00	59.37	0.000	
	4								
	5								
5	1	X	X	X	X	X	X	X	0.000
	2	0.431	1.073	96.70	30.62	1.00	30.62	0.000	
	3	0.281	0.703	96.70	49.01	1.00	49.01	0.000	
	4								
	5								
6	1	X	X	X	X	X	X	X	0.000
	2	0.378	1.107	87.70	28.68	1.00	28.68	0.000	
	3	0.251	0.729	87.70	49.64	1.00	49.64	0.000	
	4								
	5								
7	1	X	X	X	X	X	X	X	0.75
	2	0.491	0.886	100.00	0.00	1.00	0.00	0.005	
	3	0.341	0.590	100.00	0.00	1.00	0.00	0.001	
	4								
	5								
8	1	X	X	X	X	X	X	X	0.000
	2	0.379	0.882	88.00	37.57	1.00	37.57	0.000	
	3	0.275	0.603	88.00	59.07	1.00	59.07	0.000	
	4								
	5								

PERFORMANCE DATA

Date	Reactor	Total Product. (MG)	Max. Flow Rate (MGD)	Min UV Trans. (%)	Minimum Meas'd UV Dose (mJ/cm^2)	Sensor CF	Adjusted Minimum UV Dose (mJ/cm^2)	Total Off-Spec Product. (MG)	Consec. Off-Spec Hours (hr)
		OPERATIONAL DATA							
9	1	X	X	X	X	X	X	X	0.000
	2	0.460	0.911	100.00	18.58	1.00	18.58	0.000	
	3	0.315	0.590	100.00	58.94	1.00	58.94	0.000	
	4								
	5								
10	1	X	X	X	X	X	X	X	0.000
	2	0.394	0.890	88.00	24.42	1.00	24.42	0.000	
	3	0.288	0.630	88.00	56.50	1.00	56.50	0.000	
	4								
	5								
11	1	X	X	X	X	X	X	X	0.000
	2	0.316	1.078	93.90	22.49	1.00	22.49	0.000	
	3	0.223	0.688	93.90	52.73	1.00	52.73	0.000	
	4								
	5								
12	1	X	X	X	X	X	X	X	0.000
	2	0.430	0.940	87.40	35.47	1.00	35.47	0.000	
	3	0.302	0.619	87.40	56.86	1.00	56.86	0.000	
	4								
	5								
13	1	X	X	X	X	X	X	X	0.25
	2	0.359	1.225	93.40	0.00	1.00	0.00	0.011	
	3	0.248	0.796	93.40	0.00	1.00	0.00	0.007	
	4								
	5								
14	1	X	X	X	X	X	X	X	0.000
	2	0.280	0.864	91.50	28.99	1.00	28.99	0.000	
	3	0.213	0.592	91.50	62.02	1.00	62.02	0.000	
	4								
	5								
15	1	X	X	X	X	X	X	X	0.50
	2	0.461	0.936	100.00	0.00	1.00	0.00	0.011	
	3	0.337	0.618	100.00	0.00	1.00	0.00	0.003	
	4								
	5								
16	1	X	X	X	X	X	X	X	0.000
	2	0.411	0.889	89.00	38.77	1.00	38.77	0.000	
	3	0.292	0.613	89.00	60.37	1.00	60.37	0.000	
	4								
	5								

SUBMITTED BY: Tomas Sanchez Jr.

Certificate No. and Grade: WS0012772, B **Date:** March 10, 2018

UV MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)

UV Calculated Dose Approach Reactors (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: 2018

TRUE

VALIDATED OPERATIONAL CONDITIONS

VALIDATED PARAMETERS						PERFORMANCE REQUIREMENTS	
Parameters	Reactor Number					Crypto Log Inactivation	Required UV Dose (mJ/cm^2)
	UVCD1	UVCD2	UVCD3	UVCD4	UVCD5		
Max Validated Flow Rate (MGD)	5.080	5.080	5.080			1.0	2.50
Min Validated UVT (%)	69.20	69.20	69.20				

PERFORMANCE DATA

Date	Reactor	Total Product. (MG)	Max. Flow Rate (MGD)	Min UV Trans. (%)	Minimum Meas'd UV Dose (mJ/cm^2)	Sensor CF	Adjusted Minimum UV Dose (mJ/cm^2)	Total Off-Spec Product. (MG)	Consec. Off-Spec Hours (hr)
17	1	X	X	X	X	X	X	X	0.000
	2	0.420	1.048	92.80	18.80	1.00	18.80	0.000	
	3	0.297	0.702	92.80	53.01	1.00	53.01	0.000	
	4								
	5								
18	1	X	X	X	X	X	X	X	0.25
	2	0.414	0.823	89.70	0.00	1.00	0.00	0.001	
	3	0.286	0.557	89.70	62.77	1.00	62.77	0.000	
	4								
	5								
19	1	X	X	X	X	X	X	X	0.50
	2	0.455	0.844	97.80	0.00	1.00	0.00	0.007	
	3	0.308	0.560	97.80	0.00	1.00	0.00	0.004	
	4								
	5								
20	1	X	X	X	X	X	X	X	0.50
	2	0.452	1.238	100.00	0.00	1.00	0.00	0.012	
	3	0.302	0.856	100.00	0.00	1.00	0.00	0.006	
	4								
	5								
21	1	X	X	X	X	X	X	X	3.25
	2	0.562	0.929	92.00	0.00	1.00	0.00	0.103	
	3	0.367	0.606	92.00	0.00	1.00	0.00	0.065	
	4								
	5								
22	1	X	X	X	X	X	X	X	0.000
	2	0.386	0.956	89.20	35.49	1.00	35.49	0.000	
	3	0.261	0.626	89.20	57.50	1.00	57.50	0.000	
	4								
	5								
23	1	X	X	X	X	X	X	X	0.50
	2	0.412	0.951	100.00	0.00	1.00	0.00	0.005	
	3	0.267	0.624	100.00	0.00	1.00	0.00	0.002	
	4								
	5								
24	1	X	X	X	X	X	X	X	0.000
	2	0.471	0.914	94.10	23.84	1.00	23.84	0.000	
	3	0.306	0.587	94.10	60.70	1.00	60.70	0.000	
	4								
	5								

PERFORMANCE DATA

Date	Reactor	Total Product. (MG)	Max. Flow Rate (MGD)	Min UV Trans. (%)	Minimum Meas'd UV Dose (mJ/cm^2)	Sensor CF	Adjusted Minimum UV Dose (mJ/cm^2)	Total Off-Spec Product. (MG)	Consec. Off-Spec Hours (hr)
25	1	X	X	X	X	X	X	X	0.25
	2	0.442	0.962	93.90	0.00	1.00	0.00	0.001	
	3	0.285	0.644	93.90	56.76	1.00	56.76	0.000	
	4								
	5								
26	1	X	X	X	X	X	X	X	0.000
	2	0.436	0.853	71.70	17.71	1.00	17.71	0.000	
	3	0.302	0.589	71.70	32.76	1.00	32.76	0.000	
	4								
	5								
27	1	X	X	X	X	X	X	X	0.25
	2	0.427	0.886	61.70	0.00	1.00	0.00*	0.002	
	3	0.288	0.579	61.70	0.00	1.00	0.00*	0.002	
	4								
	5								
28	1	X	X	X	X	X	X	X	0.25
	2	0.485	0.907	83.90	0.00	1.00	0.00	0.012	
	3	0.338	0.601	83.90	0.00	1.00	0.00	0.008	
	4								
	5								
29	1								
	2								
	3								
	4								
	5								
30	1								
	2								
	3								
	4								
	5								
31	1								
	2								
	3								
	4								
	5								

SUBMITTED BY: Tomas Sanchez Jr.

Certificate No. and Grade: WS0012772, B

Date: March 10, 2018

UV MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)

UV Calculated Dose Approach - Daily Minimum Inactivation Summary 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:** 2018

DAILY MINIMUM INACTIVATION

Reactor Range	SUMMARY DATA					Reactor Range	SUMMARY DATA				
	Date	Min Dose (mJ/cm²)	Inactivation Credit Achieved: Giardia Log	Virus Log	Crypto Log		Date	Min Dose (mJ/cm²)	Min Inactivation: Giardia Log	Virus Log	Crypto Log
1 to 3	1	0.00*	1.00	0.00	1.00	1 to 3	9	18.58	3.76	0.00	1.00
	2	40.62	4.00	0.54	1.00		10	24.42	4.00	0.06	1.00
	3	2.78	1.40	0.00	1.00		11	22.49	4.00	0.00	1.00
	4	37.36	4.00	0.45	1.00		12	35.47	4.00	0.40	1.00
	5	30.62	4.00	0.25	1.00		13	0.00*	1.00	0.00	1.00
	6	28.68	4.00	0.19	1.00		14	28.99	4.00	0.20	1.00
	7	0.00*	1.00	0.00	1.00		15	0.00*	1.00	0.00	1.00
	8	37.57	4.00	0.46	1.00		16	38.77	4.00	0.49	1.00

DAILY MINIMUM INACTIVATION

Reactor Range	SUMMARY DATA					Reactor Range	SUMMARY DATA				
	Date	Min Dose (mJ/cm²)	Min Inactivation: Giardia Log	Virus Log	Crypto Log		Date	Min Dose (mJ/cm²)	Min Inactivation: Giardia Log	Virus Log	Crypto Log
1 to 3	17	18.80	3.77	0.00	1.00	1 to 3	25	0.00	1.00	0.00	1.00
	18	0.00	1.00	0.00	1.00		26	17.71	3.69	0.00	1.00
	19	0.00*	1.00	0.00	1.00		27	0.00*	1.00	0.00	1.00
	20	0.00*	1.00	0.00	1.00		28	0.00*	1.00	0.00	1.00
	21	0.00*	1.00	0.00	1.00		29				1.00
	22	35.49	4.00	0.40	1.00		30				1.00
	23	0.00*	1.00	0.00	1.00		31				1.00
	24	23.84	4.00	0.04	1.00						

Total volume of water treated by all CDA reactors:	20.19	MG
Total volume of off-spec water produced by all CDA reactors:	0.28	MG
Percentage of off-spec water produced by all CDA reactors:	1.37	%
Crypto Log-Inactivation Credit for treatment by CDA reactors:	1.00	log

Treated water pumpage and total production by all UV reactors differ by more than 15% on these days: (February, 2018) 4, 5, 6, 7, 9, 10, 11, 12, 14, 15, 17, 19, 20, 21, 22, 26, 27,

SUBMITTED BY: Tomas Sanchez Jr.

Certificate No. and Grade: WS0012772, B **Date:** March 10, 2018

UV MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)

UV Sensor Calibration for Calculated Dose Reactors

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:** 2018

CALIBRATION DATA

UV Sensor Calibration Report for Calculated Dose Reactors

CDA Reactor Number	Calibration Date and Data	Duty Sensor	Duty Sensor Serial #	Ref Sensor Serial #	Duty Sensor Reading (mJ/cm²)	Ref Sensor Reading (mJ/cm²)	Cal Ratio	Duty Sensor Replaced?	Calculated Sensor CF
UVCD No. 1	Previous Month's Sensor CF	1	92	38	75.30	76.50	0.98		off-line
		2							
		3							
	1.00	4							
	Calibration Date	5							
		6							
	2/1/18	7							
	New Sensor CF	8							
		9							
	1.00	10							
UVCD No. 2	Previous Month's Sensor CF	1	44	38	75.00	76.30	0.98	NA	1.00
		2							
		3							
	1.00	4							
	Calibration Date	5							
		6							
	2/1/18	7							
	New Sensor CF	8							
		9							
	1.00	10							
UVCD No. 3	Previous Month's Sensor CF	1	39	38	79.00	76.10	1.04	NA	1.00
		2							
		3							
	1.00	4							
	Calibration Date	5							
		6							
	2/1/18	7							
	New Sensor CF	8							
		9							
	1.00	10							
UVCD No. 4	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 5	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							

CALIBRATION DATA

UV Sensor Calibration Report for Calculated Dose Reactors

CDA Reactor Number	Calibration Date	Duty Sensor	Duty Sensor Serial #	Ref Sensor Serial #	Duty Sensor Reading (mJ/cm²)	Ref Sensor Reading (mJ/cm²)	Cal Ratio	Duty Sensor Replaced?	Calculated Sensor CF
UVCD No. 6	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 7	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 8	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 9	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 10	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							

SUBMITTED BY: Tomas Sanchez Jr.

Certificate No. and Grade: WS0012772, B

Date: March 10, 2018

UV MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)

UV Sensor Calibration for Calculated Dose Reactors (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:** 2018

CALIBRATION DATA

UV Sensor Calibration Report for Calculated Dose Reactors

CDA Reactor Number	Calibration Date	Duty Sensor	Duty Sensor Serial #	Ref Sensor Serial #	Duty Sensor Reading (mJ/cm²)	Ref Sensor Reading (mJ/cm²)	Cal Ratio	Duty Sensor Replaced?	Calculated Sensor CF
UVCD No. 11	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 12	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 13	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 14	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 15	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							

CALIBRATION DATA

UV Sensor Calibration Report for Calculated Dose Reactors

CDA Reactor Number	Calibration Date	Duty Sensor	Duty Sensor Serial #	Ref Sensor Serial #	Duty Sensor Reading (mJ/cm²)	Ref Sensor Reading (mJ/cm²)	Cal Ratio	Duty Sensor Replaced?	Calculated Sensor CF
UVCD No. 16	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 17	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 18	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 19	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							
UVCD No. 20	Previous Month's Sensor CF	1							
		2							
		3							
		4							
	Calibration Date	5							
		6							
		7							
	New Sensor CF	8							
		9							
		10							

SUBMITTED BY: Tomas Sanchez Jr.

Certificate No. and Grade: WS0012772, B

Date: March 10, 2018

UV MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
UVT Analyzer Calibration

PUBLIC WATER SYSTEM NAME: Webb County Water Utility

PLANT NAME OR NUMBER: Rio Bravo

PWS ID No.: 2400022

Plant ID 20831

Month: February

Year: 2018

CALIBRATION DATA

Benchtop UVT Analyzer Serial Number: P0108955

UVT Analyzer Number	Week	Calibration Date	On-line UVT Analyzer Serial #	On-line Reading (% UVT)	Grab Sample Reading (% UVT)	Difference (% UVT)	Recalibration Performed? (if Diff > 2%)	Other Action Taken
UVT No. 1	1	2/1/18	78713	100.00	92.40	7.60	NO	None
	2	2/5/18	78713	100.00	91.70	8.30	NO	None
	3	2/12/18	78713	100.00	96.40	3.60	NO	None
	4	2/19/18	78713	99.50	92.60	6.90	NO	None
	5	2/26/18	78713	100.00	94.20	5.80	NO	None
UVT No. 2	1							
	2							
	3							
	4							
	5							
UVT No. 3	1							
	2							
	3							
	4							
	5							
UVT No. 4	1							
	2							
	3							
	4							
	5							
UVT No. 5	1							
	2							
	3							
	4							
	5							
UVT No. 6	1							
	2							
	3							
	4							
	5							
UVT No. 7	1							
	2							
	3							
	4							
	5							
UVT No. 8	1							
	2							
	3							
	4							
	5							
UVT No. 9	1							
	2							
	3							
	4							
	5							
UVT No. 10	1							
	2							
	3							
	4							
	5							

CALIBRATION DATA

Benchtop UVT Analyzer Serial Number: P0108955

UVT Analyzer Number	Week	Calibration Date	On-line UVT Analyzer Serial #	On-line Reading (% UVT)	Grab Sample Reading (% UVT)	Difference (% UVT)	Recalibration Performed? (if Diff > 2%)	Other Action Taken
UVT No. 11	1							
	2							
	3							
	4							
	5							
UVT No. 12	1							
	2							
	3							
	4							
	5							
UVT No. 13	1							
	2							
	3							
	4							
	5							
UVT No. 14	1							
	2							
	3							
	4							
	5							
UVT No. 15	1							
	2							
	3							
	4							
	5							
UVT No. 16	1							
	2							
	3							
	4							
	5							
UVT No. 17	1							
	2							
	3							
	4							
	5							
UVT No. 18	1							
	2							
	3							
	4							
	5							
UVT No. 19	1							
	2							
	3							
	4							
	5							
UVT No. 20	1							
	2							
	3							
	4							
	5							

SUBMITTED BY: Tomas Sanchez Jr.

Certificate No. and Grade: WS0012772, B

Date: March 10, 2018