COPY

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.:

Report for the Month of: October 2014

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: November 10, 2014

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	149	Number of 4-hour periods when plant was off-line:	37
Number of readings above 0.10 NTU:	62	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:	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)

Statistical Summary

Maximum turbidity reading:	0.29 NTU	Average turbidity value:	0.11 NTU
Minimum turbidity reading:	0.05 NTU	Standard deviation:	0.032 NTU
CFE 95th percentile value:	0.15 NTU	IFE 95th percentile:	0.249 NTU

Number of days with a low CT for no more than 4.0 consecutive hours:	0	Average log inactivation for Giardia:	1.44
		Average log inactivation for viruses:	21.22
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 31 required) (8)		
Average disinfectant residual value:	0.77	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:	17.1 % (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.

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.: Connections: 1,900

Month: October Year: 2014 Population: 6,650

PERFORMANCE DATA

Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY (Mandatory 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	1.242	0.702	14	120	0.8	0.8					0.07	X	X	0.08	0.09	0.13	1.4	
2	1.643	1.215	12	120	1.0	0.9					0.13	0.12	0.12	0.08	0.10	0.09	2.2	
3	1.598	1.215	13	120	0.7	0.7					0.16	X	X	0.14	0.14	0.14	2.6	
4	1.612	0.624	13	120	0.8	0.7					0.10	X	X	0.11	0.10	0.11	1.7	
5	1.602	1.190	12	120	0.7	0.8					0.10	X	X	0.09	0.09	0.12	2.4	
6	1.800	1.350	13	120	0.8	0.8					0.10	X	X	0.10	0.11	X	1.9	
7	1.761	1.404	12	120	0.8	0.7					0.12	0.08	0.08	0.09	0.09	0.08	3.0	
8	1.624	1.399	10	120	0.7	0.7					0.07	X	X	0.10	0.09	0.06	3.1	
9	1.696	1.339	10	120	0.7	0.9					0.08	0.09	X	0.09	0.09	0.11	1.3	
10	1.630	1.353	8	120	0.9	0.8					0.12	0.11	0.11	0.07	0.08	0.08	1.7	
11	1.742	1.224	12	120	0.8	0.7					0.09	0.09	0.09	0.10	0.09	0.09	3.1	
12	1.670	1.429	13	120	0.6	0.5					0.14	0.13	0.13	0.13	0.10	0.13	1.9	
13	1.689	1.241	10	120	0.6	0.6					0.14	0.12	0.13	0.15	0.15	0.14	1.8	
14	1.242	1.203	13	120	0.7	1.3					0.14	X	0.17	0.07	0.08	0.10	1.7	
15	1.261	1.203	17	120	0.9	0.9					0.11	X	0.29	0.11	0.10	0.09	2.2	
16	1.611	1.323	11	120	0.9	0.7					0.14	0.13	X	0.12	0.13	0.10	2.3	
17	1.612	1.239	19	120	0.7	0.7					0.12	X	X	0.10	0.11	0.11	1.7	
18	1.313	1.239	12	120	0.7	0.7					0.10	X	0.09	0.10	0.10	0.12	2.3	
19	1.306	1.321	13	120	0.7	0.7					0.10	0.10	0.11	0.11	0.08	0.08	2.1	
20	1.709	1.368	10	120	0.6	0.7					0.10	X	X	0.09	0.10	0.10	1.9	
21	1.800	1.370	13	120	0.8	1.0					0.09	X	X	0.11	0.08	0.08	1.2	
22	1.764	1.349	18	120	1.0	0.8					X	X	X	0.06	0.13	0.09	1.8	
23	1.764	0.709	14	140	1.0	0.9					0.09	0.09	X	0.13	0.10	0.10	1.9	
24	1.252	0.648	12	140	0.7	0.7					0.09	0.08	0.08	0.09	0.08	0.06	2.7	
25	1.730	1.349	9	140	0.8	0.8					0.07	0.07	0.05	0.05	0.07	0.07	1.7	
26	1.712	1.347	11	140	0.9	0.7					0.08	0.10	X	X	0.10	0.09	1.9	
27	1.729	1.412	12	120	1.5	1.6					0.10	X	X	0.08	0.14	0.15	1.4	
28	1.457	1.297	20	120	1.4	0.9					0.13	0.12	0.16	0.11	0.10	0.11	2.6	
29	1.457	0.692	14	120	1.1	0.8					0.11	0.11	0.11	0.08	0.10	0.08	3.0	
30	1.883	0.715	14	120	0.8	0.8					X	X	X	0.08	0.14	0.15	2.1	
31	1.609	0.717	20	120	0.7	0.7					0.13	X	X	0.11	0.28	0.12	1.5	
Total	49.520	36.186																
Avg	1.597	1.167																
Max	1.883	1.429																
Min	1.242	0.624																

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: November 10, 2014

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.:**

Month: October **Year:** 2014

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	0.14		0.12		0.16		0.18													
2	0.09		0.13		0.14		0.17													
3	0.15		0.14		0.18		0.16													
4	0.10		0.10		0.11		0.12													
5	0.10		0.11		0.13		0.13													
6	0.12		0.12		0.10		0.12													
7	0.08		0.08		0.12		0.24													
8	0.11		0.11		0.14		0.17													
9	0.25		0.17		0.21		0.14													
10	0.22		0.15		0.13		0.14													
11	0.12		0.14		0.19		0.15													
12	0.18		0.16		0.19		0.17													
13	0.14		0.15		0.20		0.27													
14	0.10		0.09		0.16		0.21													
15	0.13		0.19		0.25		0.33													
16	0.09		0.08		0.13		0.15													
17	0.09		0.09		0.16		0.19													
18	0.09		0.08		0.19		0.20													
19	0.14		0.08		0.09		0.10													
20	0.21		0.13		0.10		0.11													
21	0.13		0.12		0.11		0.09													
22	0.15		0.09		0.08		0.08													
23	0.13		0.16		0.18		0.18													
24	0.08		0.08		0.13		0.11													
25	0.13		0.08		0.09		0.09													
26	0.14		0.14		0.14		0.09													
27	0.19		0.17		0.12		0.24													
28	0.15		0.17		0.14		0.25													
29	0.12		0.11		0.24		0.12													
30	0.16		0.15		0.12		0.15													
31	0.17		0.16		0.34		0.31													

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:** November 10, 2014

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.:**

Month: October **Year:** 2014

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
	Disinfection Zones					Log Inactivations	
Parameters	D1	D2	D3	D4	D5	Giardia lamblia Cysts	Viruses
Flow Rate (MGD)	1.250	0.625	1.250	2.500		0.5	2.0
T_{10} (minutes)	7.9	21.0	18.4	32.3			

PERFORMANCE DATA

Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	FCL *D1*	0.2	0.621	28.0	7.8				
	FCL *D2*	0.1	0.310	29.0	6.8				
	CLA *D3*	1.4	0.621	28.0	6.8	1.35	22.70	2.70	
	CLA *D4*	1.4	1.242	28.0	6.8			(G)	
	D5								
2	FCL *D1*	0.1	0.821	28.0	7.8				
	FCL *D2*	0.1	0.410	29.0	6.9				
	CLA *D3*	2.2	0.821	29.0	7.0	1.03	11.37	2.05	
	CLA *D4*	2.2	1.643	29.0	7.0			(G)	
	D5								
3	FCL *D1*	0.2	0.799	28.0	6.9				
	FCL *D2*	0.1	0.399	28.0	7.0				
	CLA *D3*	2.6	0.799	28.0	6.9	1.41	16.89	2.83	
	CLA *D4*	2.6	1.598	28.0	6.9			(G)	
	D5								
4	FCL *D1*	0.3	0.806	28.0	7.0				
	FCL *D2*	0.1	0.403	27.0	7.1				
	CLA *D3*	1.7	0.806	27.0	7.2	1.27	19.97	2.55	
	CLA *D4*	1.7	1.612	27.0	7.2			(G)	
	D5								
5	FCL *D1*	0.3	0.801	29.0	7.0				
	FCL *D2*	0.1	0.400	28.0	7.1				
	CLA *D3*	2.4	0.801	28.0	7.0	1.59	23.03	3.17	
	CLA *D4*	2.4	1.602	28.0	7.0			(G)	
	D5								
6	FCL *D1*	0.3	0.900	28.1	7.1				
	FCL *D2*	0.1	0.450	27.6	7.2				
	CLA *D3*	1.9	0.900	28.2	7.2	1.08	15.98	2.16	
	CLA *D4*	1.9	1.800	28.2	7.2			(G)	
	D5								
7	FCL *D1*	0.6	0.880	28.3	7.2				
	FCL *D2*	0.1	0.440	28.3	7.1				
	CLA *D3*	3.0	0.880	28.6	7.2	1.77	26.76	3.54	
	CLA *D4*	3.0	1.761	28.6	7.2			(G)	
	D5								
8	FCL *D1*	0.3	0.812	28.0	6.6				
	FCL *D2*	0.1	0.406	28.3	6.6				
	CLA *D3*	3.1	0.812	28.5	6.6	1.82	21.40	3.65	
	CLA *D4*	3.1	1.624	28.5	6.6			(G)	
	D5								

PERFORMANCE DATA

Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	FCL *D1*	0.3	0.848	28.6	6.7				
	FCL *D2*	0.1	0.424	28.8	6.8				
	CLA *D3*	1.3	0.848	29.4	6.8	1.19	19.25	2.38	
	CLA *D4*	1.3	1.696	29.4	6.8			(G)	
	D5								
10	FCL *D1*	0.3	0.815	27.7	6.9				
	FCL *D2*	0.1	0.407	28.0	7.1				
	CLA *D3*	1.7	0.815	28.9	7.0	1.11	15.85	2.22	
	CLA *D4*	1.7	1.630	28.9	7.0			(G)	
	D5								
11	FCL *D1*	0.6	0.871	28.0	7.0				
	FCL *D2*	0.1	0.435	28.1	7.2				
	CLA *D3*	3.1	0.871	28.2	7.3	1.71	23.38	3.43	
	CLA *D4*	3.1	1.742	28.2	7.3			(G)	
	D5								
12	FCL *D1*	0.6	0.835	27.9	7.4				
	FCL *D2*	0.1	0.417	27.3	7.3				
	CLA *D3*	1.9	0.835	27.9	7.4	1.31	23.00	2.62	
	CLA *D4*	1.9	1.670	27.9	7.4			(G)	
	D5								
13	FCL *D1*	0.3	0.844	26.6	7.3				
	FCL *D2*	0.1	0.422	26.8	7.2				
	CLA *D3*	1.8	0.844	27.0	7.4	1.07	15.82	2.14	
	CLA *D4*	1.8	1.689	27.0	7.4			(G)	
	D5								
14	FCL *D1*	0.3	0.621	26.0	7.4				
	FCL *D2*	0.1	0.310	26.0	7.3				
	CLA *D3*	1.7	0.621	25.0	7.3	1.24	17.17	2.49	
	CLA *D4*	1.7	1.242	25.0	7.3			(G)	
	D5								
15	FCL *D1*	0.5	0.630	25.0	7.0				
	FCL *D2*	0.1	0.315	25.0	7.2				
	CLA *D3*	2.2	0.630	25.0	7.3	1.99	30.44	3.99	
	CLA *D4*	2.2	1.261	25.0	7.3			(G)	
	D5								
16	FCL *D1*	0.4	0.805	24.0	7.2				
	FCL *D2*	0.1	0.402	25.0	7.1				
	CLA *D3*	2.3	0.805	25.0	7.2	1.37	18.74	2.75	
	CLA *D4*	2.3	1.611	25.0	7.2			(G)	
	D6								

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:** November 10, 2014

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.:** **Month:** October **Year:** 2014

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
	Disinfection Zones					Log Inactivations	
Parameters	D1	D2	D3	D4	D5	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	1.250	0.625	1.250	2.500		0.5	2.0
T_{10} (minutes)	7.9	21.0	18.4	32.3			

PERFORMANCE DATA

Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
17	FCL *D1*	0.7	0.806	24.0	7.2				
	FCL *D2*	0.1	0.403	24.0	7.2				
	CLA *D3*	1.7	0.806	25.0	7.2	1.42	25.05	2.84	
	CLA *D4*	1.7	1.612	25.0	7.2			(5)	
	D5								
18	FCL *D1*	0.4	0.656	24.0	7.1				
	FCL *D2*	0.1	0.328	25.0	7.2				
	CLA *D3*	2.3	0.656	25.0	7.1	1.48	17.67	2.97	
	CLA *D4*	2.3	1.313	25.0	7.1			(5)	
	D5								
19	FCL *D1*	0.4	0.653	24.0	6.2				
	FCL *D2*	0.1	0.326	25.0	6.1				
	CLA *D3*	2.1	0.653	25.0	6.1	1.87	21.33	3.74	
	CLA *D4*	2.1	1.306	25.0	6.1			(5)	
	D5								
20	FCL *D1*	0.4	0.854	24.0	7.0				
	FCL *D2*	0.1	0.427	25.0	7.1				
	CLA *D3*	1.9	0.854	25.1	7.2	1.21	17.46	2.41	
	CLA *D4*	1.9	1.709	25.1	7.2			(5)	
	D5								
21	FCL *D1*	0.4	0.900	25.0	7.0				
	FCL *D2*	0.1	0.450	24.6	7.3				
	CLA *D3*	1.2	0.900	25.0	7.2	1.03	18.73	2.08	
	CLA *D4*	1.2	1.800	25.0	7.2			(5)	
	D5								
22	FCL *D1*	0.6	0.882	25.0	7.0				
	FCL *D2*	0.2	0.441	25.0	7.3				
	CLA *D3*	1.8	0.882	26.0	7.3	1.47	26.08	2.94	
	CLA *D4*	1.8	1.764	26.0	7.3			(5)	
	D5								
23	FCL *D1*	0.7	0.882	25.0	7.1				
	FCL *D2*	0.1	0.441	24.9	7.2				
	CLA *D3*	1.9	0.882	25.1	7.3	1.44	24.86	2.87	
	CLA *D4*	1.9	1.764	25.1	7.3			(5)	
	D5								
24	FCL *D1*	0.9	0.626	25.0	7.1				
	FCL *D2*	0.1	0.313	25.1	7.1				
	CLA *D3*	2.7	0.626	26.0	7.2	2.52	40.93	5.05	
	CLA *D4*	2.7	1.252	26.0	7.2			(5)	
	D5								

PERFORMANCE DATA

Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
25	FCL *D1*	0.7	0.865	25.2	7.1				
	FCL *D2*	0.1	0.432	25.0	7.2				
	CLA *D3*	1.7	0.865	26.0	7.2	1.39	24.56	2.79	
	CLA *D4*	1.7	1.730	26.0	7.2			(5)	
	D5								
26	FCL *D1*	0.8	0.856	24.6	7.1				
	FCL *D2*	0.1	0.428	25.1	7.5				
	CLA *D3*	1.9	0.856	26.0	7.3	1.44	24.78	2.88	
	CLA *D4*	1.9	1.712	26.0	7.3			(5)	
	D5								
27	FCL *D1*	0.1	0.864	25.0	7.1				
	FCL *D2*	0.1	0.432	24.0	7.1				
	CLA *D3*	1.4	0.864	25.0	7.3	0.71	8.57	1.41	
	CLA *D4*	1.4	1.729	25.0	7.3			(5)	
	D5								
28	FCL *D1*	0.3	0.728	25.0	6.9				
	FCL *D2*	0.1	0.364	25.0	6.7				
	CLA *D3*	2.6	0.728	25.0	6.6	1.41	14.01	2.82	
	CLA *D4*	2.6	1.457	25.0	6.6			(5)	
	D5								
29	FCL *D1*	0.8	0.728	24.0	6.5				
	FCL *D2*	0.1	0.364	24.0	6.5				
	CLA *D3*	3.0	0.728	25.0	6.7	2.39	31.09	4.78	
	CLA *D4*	3.0	1.457	25.0	6.7			(5)	
	D5								
30	FCL *D1*	0.6	0.941	25.0	6.9				
	FCL *D2*	0.1	0.470	26.0	6.6				
	CLA *D3*	2.1	0.941	26.0	6.7	1.37	20.47	2.75	
	CLA *D4*	2.1	1.883	26.0	6.7			(5)	
	D5								
31	FCL *D1*	0.6	0.804	24.0	7.0				
	FCL *D2*	0.1	0.402	25.0	7.4				
	CLA *D3*	1.5	0.804	24.0	7.4	1.18	20.39	2.36	
	CLA *D4*	1.5	1.609	24.0	7.4			(5)	
	D5								

	Giardia Log	Virus Log
Max	2.52	40.93
Min	0.71	8.57
Avg	1.44	21.22
SD	0.38	6.13

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:** November 10, 2014

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.:

Month: October

Year: 2014

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	10/1	120	3.09	2.22	28.2	25	1.13			1.13
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
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22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Avg		120.00	3.09	2.22	28.16		1.13			1.13
Max		120.00	3.09	2.22	28.16		1.13			1.13
Min		120.00	3.09	2.22	28.16		1.13			1.13

TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

TOC Summary					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	
120	3.09	2.22	28.2	NA	1.13

I certify that I am familiar with the information contained in this report and that, to the best of my knowledge, the information is true, complete, and accurate.

Operator's Signature: Certificate No. and Grade: WS0009456, C Date: November 10, 2014

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 Water Utilities

Date: 10/1/14

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	JA Vargas	.09	3.2	.28	6.8	26	.07	.17	6.8	26	.07	.07	.07	.08
2AM		.08	3.2	.27	6.8	26	.07	.14	6.8	26	.07	.07	.08	.07
4AM		.11	2.7	.22	6.8	26	OFF							OFF
6AM	JA Vargas	.15	1.36	.10	6.8	26	OFF							OFF
8AM	Jesus.	.10	3.7	1.3	6.8	26	OFF							OFF
10AM	Jesus.	.10	3.1	1.1	6.8	26	.07	.14	6.8	26	.07	.08	.09	.07
12PM	Jesus.	.10	3.5	1.4	6.8	26	.06	.14	6.8	26	.08	.07	.08	.07
2PM	Jesus.	.09	3.6	1.9	6.8	28	.08	.13	6.8	27	.08	.08	.09	.08
4PM	Jesus.	.10	3.2	.94	6.8	28	.09	.14	6.8	27	.08	.08	.07	.07
6PM	Jesus.	.10	3.1	.92	6.8	28	.10	.10	6.8	27	.07	.08	.10	.09
8PM	JA V.	.13	3.0	.93	6.8	28	.13	.12	6.8	27	.10	.09	.12	.14
10PM	JA V.	.17	3.1	.96	6.8	28	.18	.13	6.8	27	.14	.12	.16	.18

Clarifiers

Clarifier # 1					Clarifier # 2				
TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH	TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH
12AM	.82	.29	26	7.7	12AM	.81	.23	26	7.4
6AM	OFF			OFF	6AM	OFF			OFF
12PM	.84	.35	28	7.8	12PM	.74	.39	28	7.8
6PM	.81	~~.38~~ .36	28	7.8	6 PM	.75	.29	28	7.8

Raw Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	13.98	120	27	7.9	863
6AM	OFF				OFF
12PM	11.2	120	27	7.8	—
6PM	11.9	120	27	7.8	—

Treated Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	.09	80	26	6.8	463
6AM	.15	80	26	6.8	488
12PM	.10	80	26	6.8	—
6PM	.10	80	28	6.8	—

Webb County Water Utilities

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Date: TF 10/2/14

Time	Operator	C.W. NTU's	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU's	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU's	FILTER 2 NTU's	FILTER 3 NTU's	FILTER 4 NTU's
12AM	[illegible]	.17	3.1	.17	7.0	27	.13	.15	6.9	27	.09	.13	.14	.17
2AM	[illegible]	.17	3.0	.18	7.0	27	.13	.21	6.9	27	.09	.12	.14	.16
4AM	[illegible]	.17	3.2	.12	7.0	26	.12	.15	6.9	27	.08	.10	.14	.15
6AM	[illegible]	.18	2.3	.12	7.0	26	.11	.07	6.9	27	.08	.08	.14	.14
8AM	[illegible]	.13	2.2	.13	7.0	26	.12	.09	6.9	27	.08	.02	.10	.11
10AM	[illegible]	.17	~~2.4~~ 3.3	.29	6.9	27	.08	.11	6.9	27	.07	.07	.08	.09
12PM	[illegible]	.15	2.6	.24	6.9	27	.08	.10	6.9	27	.07	.07	.08	.10
2PM	[illegible]	.14	3.2	.77	6.7	29	.09	.12	6.9	29	.08	.07	.09	.10
4PM	[illegible]	.13	3.5	.40	6.6	28	.10	.13	6.9	29	.07	.08	.10	.13
6PM	[illegible]	.13	3.5	.38	6.6	28	.10	.12	6.9	29	.07	.08	.10	.13
8PM	[illegible]	.15	3.5	.22	6.6	28	.09	.14	6.9	29	.07	.08	.09	.10
10PM	[illegible]	.12	3.5	.19	6.7	28	.09	.15	6.9	29	.07	.08	.09	.09

Clarifiers

Clarifier # 1					Clarifier # 2				
TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH	TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH
12AM	1.00	.27	27	7.8	12AM	.86	.23	27	7.8
6AM	.67	.17	27	6.9	6 AM	~~.57~~	.10	27	6.9
12PM	.65	.24	28	6.9	12PM	.58	.23	28	6.9
6PM	.68	.24	28	6.9	6 PM	.55	.30	28	6.9

Raw Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	11.98	120	27	7.9	1133
6AM	11.39	120	27	7.9	1141
12PM	11.9	120	28	7.9	
6PM	11.3	120	29	7.9	

Treated Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	.17	80	27	7.0	844
6AM	.18	80	26	7.0	433
12PM	.15	80	27	6.9	—
6PM	.13	80	28	6.9	

Webb County Water Utilities

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Date: 10/3/14

Time	Operator	C.W. NTU's	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU's	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU's	FILTER 2 NTU's	FILTER 3 NTU's	FILTER 4 NTU's
12AM	[illegible]	.13	3.4	.20	6.7	28°	.16	.17	6.7	28°	.15	.14	.17	.14
2AM	[illegible]	.13	3.1	.26	6.7	27°	.13	.16	6.6	28°	.12	.12	.16	.15
4AM	[illegible]	.13	2.9	.22	6.7	27°	OFF							OFF
6AM	[illegible]	.16	2.7	.16	6.7	27°	OFF							OFF
8AM	Jesse.	.14	2.6	.08	6.7	27	OFF							OFF
10AM	Jesse.	.14	2.9	1.5	6.7	27	.16	.15	6.6	28	.12	.14	.18	.16
12PM	Jesse.	.13	3.0	1.2	6.7	27	.14	.13	6.6	28	.11	.12	.15	.14
2PM	Jesse.	.15	2.7	.58	6.9	28	.13	.14	6.6	28	.13	.12	.16	.15
4PM	Jesse.	.14	2.8	.21	6.8	28	.14	.10	6.7	28	.11	.12	.13	.14
6PM	Jesse.	.17	2.8	.09	6.8	28	.13	.11	6.8	28	.11	.11	.17	.17
8PM	[illegible]	.24	3.0	.11	6.8	28	.14	.11	6.8	28	.11	.12	.13	.14
10PM	[illegible]	.22	2.9	.36	6.8	28	.13	.10	7.0	26	.10	.11	.11	.12

Clarifiers

Clarifier # 1					Clarifier # 2				
TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH	TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH
12AM	.69	.30	27°	6.9	12AM	.59	.19	27°	6.8
6AM	OFF			OFF	6AM	OFF			OFF
12PM	.72	.31	27	6.9	12PM	.56	.23	27	6.9
6PM	.73	.38	28	6.9	6PM	.73	.31	28	6.9

Raw Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	10.73	120	28°	7.9	1116.98
6AM	OFF				OFF
12PM	12.3	120	28	8.0	
6PM	12.9	120	28	8.0	

Treated Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	.13	80	28°	6.7	844
6AM	.16	88	27°	6.7	429
12PM	.13	80	27	6.7	
6PM	.15	80	28	6.9	

Webb County Water Utilities

Date: 10/4/14

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	JAV/RS	.16	2.9	.33	6.8	27	.10	.12	7.0	26	.10	.10	.11	.10
2AM	JAV/RS	.16	2.9	.26	6.8	27	OFF							OFF
4AM	JAV/RS	.18	1.7	.18	7.1	27	OFF							OFF
6AM	JAV/RS	.22	1.79	.08	7.2	26	OFF							OFF
8AM	Jesse.	.19	1.7	.09	7.2	22								
10AM	Jesse.	.17	1.9	1.0	7.0	27	.10	.13	7.1	24	.09	.10	.09	.09
12PM	Jesse.	.15	3.7	1.7	7.2	25	.11	.15	7.0	24	.07	.08	.08	.09
2PM	Jesse.	.11	3.0	1.4	7.2	24	.10	.14	7.0	24	.07	.07	.08	.09
4PM	Jesse.	.20	3.7	1.4	6.4	27	.10	.14	7.1	27	.08	.08	.08	.10
6PM	Jesse.	.21	3.8	1.4	6.9	27	.10	.12	7.1	27	.09	.10	.10	.11
8PM	JAV.	.12	3.8	.34	6.9	27	.11	.13	7.1	27	.09	.10	.11	.12
10PM	JAV.	.10	3.8	.09	6.9	27	.10	.14	7.0	27	.08	.09	.10	.10

Clarifiers

Clarifier #1					Clarifier #2				
TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH	TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH
12AM	.76	.42	27	6.9	12AM	.72	.29	27	6.9
6AM	OFF			OFF	6AM	OFF			OFF
12PM	.75	.43	28	6.9	12PM	.74	.31	27	6.8
6PM	~~2.1~~ .71	.37	28	7.0	6PM	.78	.31	28	7.0

Raw Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	12.01	120	27	7.9	1120
6AM	OFF				OFF
12PM	12.8	120	28	8.0	—
6PM	12.1	120	28	8.0	

Treated Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	.16	80	27	6.8	434
6AM	.22	80	26	7.2	422
12PM	.15	80	25	~~6~~ 7.2	—
6PM	.21	80	27	6.9	—

Webb County Water Utilities

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Date: 10/5/14

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	JA/VV	.09	3.8	.30	6.9	27	.10	.14	7.0	27	.10	.09	.10	.10
2AM		.10	3.8	.23	7.0	26	.11	.16	7.0	26	.10	.10	.11	.12
4AM	JA/VV	.12	3.8	.19	7.0	26	OFF							OFF
6AM	JA/VV	.16	2.79	.09	7.0	26	OFF							OFF
8AM	Jesus.	.15	3.6	.15	7.0	24	OFF							OFF
10AM	Jesus	.15	3.4	.73	7.0	24	.10	.15	7.0	24	.10	.08	.12	.11
12PM	Jesus.	.14	3.4	1.7	7.0	28	.09	.14	7.1	27	.09	.09	.10	.13
2PM	Jesus.	.15	2.9	.74	7.0	28	.09	.15	7.1	27	.09	.09	.13	.12
4PM	Jesus.	.14	2.5	.69	7.0	28	.09	.14	7.1	28	.09	.10	.12	.11
6PM	Jesus.	.14	2.4	.71	7.0	28	.10	.13	7.1	28	.10	.09	.11	.12
8PM	JA.	.17	2.9	.68	7.0	28	.12	.15	7.1	28	.12	.11	.10	.11
10PM	JA.	.16	3.3	1.10	7.0	26	.09	.17	7.0	27	.09	.10	.09	.10

Clarifiers

Clarifier #1					Clarifier #2				
TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH	TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH
12AM	.69	.34	27	6.9	12AM	.67	.27	27	6.9
6AM	OFF				6AM				OFF
12PM	.74	.33	29	7.0	12PM	.75	.31	29	6.9
6PM	.71	.34	29	7.0	6PM	.73	.29	29	7.0

Raw Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	10.02	128	87	7.5	1113.86
6AM	OFF				OFF
12PM	11.8	120	27	7.9	—
6PM	11.2	120	28	7.9	—

Treated Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	.09	80	27	6.9	827
6AM	.16	80	26	7.0	435
12PM	.14	80	28	7.0	—
6PM	.14	80	28	7.0	—

Webb County Water Utilities

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Date: 10/6/14

Time	Operator	C.W. NTU's	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU's	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU's	FILTER 2 NTU's	FILTER 3 NTU's	FILTER 4 NTU's
12AM	[illegible]	.15	3.1	.93	7.0	26°	.10	.16	7.0	27°	.09	.10	.09	.10
2AM		.13	1.9	.89	7.0	26°	OFF	—	—	—	—	—	—	OFF
4AM		.13	2.5	.75	7.0	26°	OFF	—	—	—	—	—	—	OFF
6AM	[illegible]	.13	3.2	.36	7.0	26	OFF	—	—	—	—	—	—	OFF
8AM	Rogelio Reyes	0.13	2.7	0.26	7.08	26.9c								
10AM	Rogelio Reyes	0.13	2.8	0.39	6.96	27.4c	0.12	0.21	7.03	26.8c	0.12	0.11	0.10	0.12
12PM	Rogelio Reyes	0.13	3.0	0.81	7.18	28.1c	0.10	0.20	7.05	27.6c	Backwashing with Air		0.09	0.10
2PM	Rogelio Reyes	0.15	2.9	0.84	7.13	28.2c	0.10	0.18	7.12	27.5c	0.09	0.10	0.09	0.10
4PM	Rogelio Reyes	0.12	2.9	0.92	7.06	27.8c	0.11	0.10	7.22	27.0c	0.12	0.12	0.10	0.10
6PM	Rogelio Reyes	0.11	3.0	0.90	7.07	27.7c	0.11	0.12	7.20	26.8c	0.12	0.12	0.10	0.10
8PM	R.F.C	0.16	2.6	1.8	7.0	27	Plant	OFF	—	—	—	—	—	—
10PM	R.F.C	0.15	3.7	2.2	7.0	27	Plant	OFF	—	—	—	—	—	—

Clarifiers

Clarifier # 1					Clarifier # 2				
TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH	TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH
12AM	.74	.29	27°	7.3	12AM	.76	.25	27	7.1
6AM	OFF	—	—	OFF	6AM	OFF	—	—	OFF
12PM	0.78	0.36	28.1c	7.10	12PM	0.72	0.37	28.0c	7.09
6PM	0.74	0.43	27.9c	7.12	6PM	0.69	0.44	28.1c	7.14

Raw Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	13.14	120	27°	7.9	1114.76
6AM	OFF	—	—	—	OFF
12PM	12.7	120	27.8c	8.04	1250
6PM	13.0	120	27.7c	8.01	1250

Treated Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	.15	80	26°	7.0	843
6AM	.13	80	26°	7.0	383
12PM	0.13	80	28.1c	7.18	938
6PM	0.11	80	27.7c	7.07	525

Webb County Water Utilities

Date: 10-9-15

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	R.Ruiz	0.18	4.7	3.0	7.0	26	0.12	1.6	7.0	26	0.08	0.09	0.11	0.29
2AM	R.Ruiz	0.17	4.6	3.4	7.1	26	0.08	0.23	7.1	26	0.07	0.08	0.10	0.12
4AM	R.Ruiz	0.17	3.5	2.8	7.0	25	0.08	0.20	7.0	26	0.08	0.08	0.10	0.13
6AM	R.Ruiz	0.15	3.7	2.6	7.1	26	0.08	0.17	7.0	26	0.08	0.08	0.09	0.12
8AM	RogelioReyes	0.14	3.0	1.80	7.19	26.7C	0.08	0.11	7.09	26.4C	0.07	0.08	0.09	0.11
10AM	RogelioReyes	0.12	3.1	1.14	7.17	26.9C	0.08	0.09	7.10	26.5C	0.07	0.07	0.12	0.10
12PM	RogelioReyes	0.13	3.0	1.33	6.65	28.1C	0.09	0.13	6.73	27.1C	0.06	0.06	0.08	0.08
2PM	RogelioReyes	0.12	3.2	1.39	6.70	28.4C	0.09	0.11	6.71	27.9C	0.06	0.06	0.07	0.07
4PM	RogelioReyes	0.14	3.5	0.67	6.46	28.5C	0.09	0.17	6.53	28.2C	0.06	0.06	0.08	0.07
6PM	RogelioReyes	0.14	3.9	0.59	6.50	28.6C	0.08	0.12	6.62	28.3C	0.06	0.06	0.07	0.07
8PM	R.Ruiz	0.10	4.4	0.40	6.4	26	0.08	0.23	6.5	27	0.08	0.06	0.13	0.11
10PM	R.Ruiz	0.09	4.4	0.38	6.4	26	0.09	0.21	6.5	27	0.07	0.06	0.11	0.09

Clarifiers

Clarifier #1					Clarifier #2				
TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH	TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH
12AM	0.70	0.60	26	7.0	12AM	0.54	0.71	26	7.1
6AM	0.68	0.63	26	7.1	6AM	0.69 0.77	0.59	26	7.2
12PM	0.60	0.84	27.9C	6.64	12PM	0.49	0.82	27.8C	6.66
6PM	0.75	0.58	28.3C	6.58	6PM	0.72	0.62	28.2C	6.59

Raw Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	11	120	25	7.9	1223
6AM	12	100			1198
12PM	11.4	120	28.5C	7.94	925
6PM	8.52	100	28.8C	7.59	930

Treated Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	0.18	90	26	7.0	0
6AM	0.15	80	26	7.1	498
12PM	0.13	80	28.1C	6.65	559
6PM	0.14	80	28.6C	6.50	975

Webb County Water Utilities

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Date: 10 · 8 · 14

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	R.S.el	0.09	3.4	0.27	6.6	26	0.07	0.16	6.5	26	0.06	0.06	0.11	0.09
2AM	R.S.el	0.09	3.1	0.23	6.6	26	0.10	0.20	6.6	26	0.07	0.06	0.11	0.17
4AM	R.S.el	0.08	2.9	0.20	6.4	26	Plant	OFF	—	—	—	—	—	—
6AM	R.S.el	0.11	3.9	0.21	6.4	25	Plant	OFF	—	—	—	—	—	—
8AM	Rogelio Reyes	0.10	3.7	0.35	6.54	26.4C	—	—	—	—	—	—	—	—
10AM	Rogelio Reyes	0.10	3.9	0.22	6.51	27.2C	0.08	0.10	6.58	26.8C	0.08	0.08	0.12	0.15
12PM	Rogelio Reyes	0.15	4.0	0.37	6.58	28.2C	0.10	0.11	6.60	27.9C	0.11	0.11	0.10	0.13
2PM	Rogelio Reyes	0.14	3.9	0.34	6.50	28.3C	0.10	0.17	6.56	28.0C	0.10	0.11	0.10	0.11
4PM	Rogelio Reyes	0.12	3.9	0.39	6.53	28.5C	0.09	0.13	6.60	28.3C	0.07	0.08	0.07	0.09
6PM	Rogelio Reyes	0.12	4.1	0.36	6.52	28.2C	0.08	0.12	6.58	28.0C	0.06	0.07	0.07	0.09
8PM	R.S.el	0.10	4.0	0.27	6.4	27	0.06	0.21	6.4	27	0.06	0.06	0.10	0.11
10PM	R.S.el	0.08	3.9	0.26	6.5	27	0.08	0.19	6.5	27	0.08	0.06	0.14	0.09

Clarifiers

Clarifier #1					Clarifier #2				
TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH	TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH
12AM	0.57	0.39	26	6.5	12AM	0.55	0.35	26	6.6
6AM	Plant/OFF	—	—	—	6AM	Plant OFF	—	—	—
12PM	0.67	0.32	27.8C	6.61	12PM	0.60	0.35	27.7C	6.59
6PM	0.68	0.36	28.0C	6.59	6 PM	0.65	0.40	28.0C	6.62

Raw Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	10	120	26	7.4	1128
6AM	Plant	OFF	—	—	—
12PM	10.1	120	28.0C	8.05	950
6PM	8.89	120	28.2C	7.98	957

Treated Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	0.09	80	26	6.6	0
6AM	0.11	80	25	6.4	499
12PM	0.15	80	28.2C	6.58	972
6PM	0.12	80	28.2C	6.52	509

Webb County Water Utilities

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Date: 10-9-14

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	R.F.#1	0.08	3.7	0.36	6.6	26	0.08	0.19	6.6	26	0.06	0.06	0.16	0.10
2AM	R.F.#1	0.09	1.3	0.21	6.4	26	0.10	0.18	6.5	26	0.07	0.06	0.19	0.14
4AM	R.F.#1	0.09	3.2	0.54	6.8	26	0.09	0.15	6.8	25	0.07	0.06	0.21	0.11
6AM	R.F.#1	0.10	3.1	0.34	6.6	26	Plant	OFF	—	—	—	—	—	—
8AM	RogelioReyes	0.15	3.1	0.32	6.57	26.9C								
10AM	RogelioReyes	0.11	3.8	0.63	6.84	27.7C								
12PM	RogelioReyes	0.11	3.7	0.42	6.56	28.6C	0.09	0.13	6.69	27.8C	0.10	0.08	0.06	0.08
2PM	RogelioReyes	0.13	3.9	0.23	6.81	29.1C	0.10	0.16	6.67	27.9C	0.08	0.10	0.08	0.09
4PM	RogelioReyes	0.12	3.9	0.27	6.74	29.4C	0.09	0.11	6.72	28.4C	0.08	0.07	0.09	0.09
6PM	RogelioReyes	0.11	4.0	0.25	6.77	29.0C	0.09	0.18	6.63	28.8C	0.07	0.06	0.09	0.08
8PM	R.F.#1	0.12	3.7	0.40	6.6	27	0.11	0.17	6.5	27	0.19	0.13	0.11	0.08
10PM	R.F.#1	0.10	4.2	0.22	6.7	27	0.14	0.11	6.7	27	0.25	0.17	0.10	0.07

Clarifiers

Clarifier #1					Clarifier #2				
TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH	TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH
12AM	0.63	0.32	26	6.5	12AM	0.68	0.28	26	6.6
6AM	Plant OFF	—	—	—	6AM	—	—	—	—
12PM	0.616	0.36	26.9C	6.608	12PM	0.73	0.34	27.1C	6.69
6PM	0.604	0.41	28.4C	6.63	6PM	0.90	0.38	28.6C	6.63

Raw Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	8	120	26	7.7	1179
6AM	Plant OFF	—	—	—	—
12PM	10.78	120	27.9C	8.116	958
6PM	10.3	120	28.9C	8.04	820

Treated Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	0.08	80	26	6.6	456
6AM	0.10	80	26	6.6	0
12PM	0.11	80	28.6C	6.56	930
6PM	0.11	80	29.0C	6.77	530

Webb County Water Utilities

Date: 10/10/14

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	R.F.el	0.11	3.9	0.23	6.9	26	0.12	0.17	6.8	22	0.20	0.15	0.08	0.07
2AM	R.F.el	0.10	3.4	0.25	6.6	26	0.14	0.22	6.6	27	0.22	0.15	0.09	Back wash
4AM	R.F.el	0.12	1.7	0.17	7.0	26	0.11	0.15	7.0	27	0.16	0.14	0.06	0.14
6AM	R.F.l	0.11	4.0	0.21	6.7	27	0.10	0.25	6.7	26	0.17	0.12	0.06	0.11
8AM	RogelioReyes	0.12	3.9	0.30	6.86	27.1c	0.11	0.12	6.91	26.8c	0.18	0.13	0.07	0.12
10AM	RogelioReyes	0.14	3.8	0.88	6.79	27.8c	0.07	0.06	7.11	26.5c	0.07	0.07	0.05	0.08
12PM	RogelioReyes	0.17	4.1	0.24	6.81	27.9c	0.07	0.09	6.92	27.2c	0.06	0.06	0.05	0.07
2PM	RogelioReyes	0.13	4.0	0.28	6.90	29.2c	0.07	0.05	6.84	28.0c	0.06	0.07	0.05	0.08
4PM	RogelioReyes	0.12	3.7	0.73	6.72	28.9c	0.08	0.08	6.80	27.7c	0.06	0.07	0.11	0.10
6PM	RogelioReyes	0.14	3.2	1.41	6.89	27.5°	0.08	0.07	6.92	27.3°	0.07	0.07	0.08	0.11
8PM		0.14	3.2	1.47	6.86	27.0°	0.08	0.09	6.89	27.1	0.08	0.07	0.05	0.10
10PM		0.12	3.3	2.10	6.91	27.0°	0.09	0.10	6.94	27.0°	0.07	0.07	0.13	0.10

Clarifiers

Clarifier # 1					Clarifier # 2				
TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH	TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH
12AM	0.60	0.33	27	6.7	12AM	0.81	0.70	27	6.7
6AM	0.81	0.42	26	6.7	6AM	0.64	0.67	26	6.7
12PM	0.87	0.39	27.5c	6.84	12PM	0.58	0.43	27.6c	6.83
6PM	0.79	0.44	27.7°	6.89	6PM	0.57	0.46	27.4°	6.91

Raw Water Pump Station

Time	NTU'S	Alk.	Temp. (F)	pH	GPM
12AM	7	120	27	6.7	1132
6AM	8	120	26	8.1	1132
12PM	6.71	120	27.8c	8.17	850
6PM	8.42	120	26.8°	7.41	879

Treated Water Pump Station

Time	NTU'S	Alk.	Temp. (F)	pH	GPM
12AM	0.11	80	26	6.9	532
6AM	0.10	80	27	6.7	354
12PM	0.17	80	27.9c	6.81	930
6PM	0.14	80	27.5°	6.89	940

Webb County Water Utilities

Date: 10/11/2014

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	T. Sifuentes	0.10	3.4	2.20	6.98	27.1	0.09	0.10	6.99	26.9°	0.07	0.07	0.19	0.10
2AM	T. Sifuentes	0.10	3.4	2.20	7.10	27.0	0.09	0.08	7.13	26.8°	0.07	0.07	0.19	0.11
4AM	T. Sifuentes	0.11	4.2	2.20	7.27	26.4	0.09	0.13	7.20	26.5°	0.06	0.07	0.17	0.10
6AM	T. Sifuentes	0.11	4.5	3.3	7.03	26.7	0.09	0.16	7.08	26.4°	0.06	0.07	0.16	0.09
8AM	Rogelio Reyes	0.11	4.2	3.0	7.00	26.8°	0.09	0.12	7.03	26.6°	0.06	0.07	0.12	0.08
10AM	Rogelio Reyes	0.11	4.0	2.17	7.14	27.2°	0.09	0.08	7.06	26.9°	0.09	0.09	0.14	0.10
12PM	Rogelio Reyes	0.10	4.1	2.20	7.16	27.5°	0.10	0.10	7.01	27.2°	0.09	0.08	0.09	0.10
2PM	Rogelio Reyes	0.11	3.9	1.20	7.01	28.1°	0.10	0.06	6.97	28.1°	0.08	0.08	0.09	0.09
4PM	Rogelio Reyes	0.11	3.9	0.68	6.86	28.0°	0.09	0.10	6.84	28.0°	0.08	0.07	0.07	0.09
6PM	Rogelio Reyes	0.11	3.7	0.19	6.72	28.2°	0.09	0.09	6.79	27.9°	0.08	0.08	0.08	0.10
8PM	T. Sifuentes	0.12	3.2	1.26	7.12	27.9°	0.09	0.12	7.08	27.4°	0.08	0.08	0.09	0.10
10PM	T. Sifuentes	0.14	3.1	1.35	6.85	27.1°	0.11	0.14	7.15	26.9°	0.12	0.14	0.15	0.15

Clarifiers

Clarifier #1					Clarifier #2				
TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH	TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH
12AM	0.52	0.84	27.3°	6.91	12AM	6.61	0.55	27.2°	6.99
6AM	0.54	0.91	26.7°	6.95	6AM	0.63	0.66	26.4°	7.01
12PM	0.75	0.74	27.5°	6.98	12PM	0.69	0.69	27.6°	6.99
6PM	0.63	0.77	27.9°	6.88	6PM	0.58	0.76	28.0°	6.87

Raw Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	11.7	120	27.3	7.28	921
6AM	9.91	120	26.2	7.57	852
12PM	8.93	120	27.3°	8.36	1210
6PM	8.91	120	28.1°	7.93	1180

Treated Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	0.10	80	27.1	6.98	477
6AM	0.11	80	26.7	7.03	450
12PM	0.10	80	27.5°	7.16	850
6PM	0.11	80	28.2°	6.72	550

Webb County Water Utilities

Date: 10/12/2014

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	TSH.	0.15	3.0	1.64	6.84	26.6°	0.14	0.18	6.98	26.4°	0.18	0.16	0.19	0.16
2AM	TSH.	0.16	3.1	1.55	6.89	26.4°	0.14	0.15	7.04	26.4°	0.15	0.13	0.18	0.16
4AM	TSH.	0.14	2.9	0.76	7.38	26.4	0.13	0.10	6.99	26.7°	0.13	0.11	0.15	0.15
6AM	TSH.	0.14	2.9	0.69	6.88	26.5°	0.13	0.06	6.82	27.0°	0.12	0.11	0.16	0.15
8AM	RogelioReyes	0.14	2.7	0.43	6.93	26.4c	0.13	0.09	6.88	26.8c	0.11	0.10	0.14	0.14
10AM	RogelioReyes	0.15	2.6	0.22	6.91	27.1c	0.12	0.05	6.86	26.7c	0.10	0.10	0.11	0.13
12PM	RogelioReyes	0.16	2.3	0.25	6.80	27.2c	0.13	0.13	7.14	26.3c	0.14	0.16	0.17	0.12
2PM	RogelioReyes	0.15	2.12	0.34	6.83	27.3c	0.14	0.19	7.22	26.3c	0.09	0.14	0.18	0.17
4PM	RogelioReyes	0.15	2.18	0.33	6.81	27.8c	0.10	0.14	7.20	27.3c	0.08	0.12	0.17	0.15
6PM	RogelioReyes	0.15	1.85	0.56	7.00	27.9c	0.13	0.07	7.25	27.3c	0.09	0.12	0.19	0.17
8PM	TSH.	0.16	2.7	0.80	7.14	27.2°	0.13	0.12	7.18	27.1°	0.09	0.11	0.18	0.17
10PM	TSH.	0.13	2.2	1.93	7.12	26.4°	0.12	0.18	7.20	26.5°	0.09	0.11	0.18	0.17

Clarifiers

Clarifier #1					Clarifier #2				
TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH	TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH
12AM	0.56	0.64	26.6	7.37	12AM	0.44	0.70	26.7°	7.40
6AM	0.50	0.65	26.5	7.30	6AM	0.43	0.66	26.5°	7.29
12PM	0.59	0.63	26.1c	7.13	12PM	0.51	0.62	26.2c	7.13
6PM	0.61	0.59	27.9c	7.06	6PM	0.52	0.58	27.7c	7.06

Raw Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	12.8	120	26.1	7.11	1156
6AM	9.10	120	25.1	7.83	1150
12PM	9.74	120	26.2c	7.90	1160
6PM	8.32	120	28.1c	7.98	1160

Treated Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	0.15	80	26.6°	6.84	450
6AM	0.14	80	26.5°	6.88	440
12PM	0.16	80	27.2c	6.80	993
6PM	0.15	80	27.9c	7.00	450

Webb County Water Utilities

Date: 10/13/2014

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	TSL.	0.14	3.3	1.41	7.43	26.9°	0.14	0.16	7.08	26.8°	0.07	0.10	0.19	0.17
2AM	JGV	0.16	1.8	0.61	7.13	26.6	0.13	0.14	7.12	26.4°	0.09	0.10	0.20	0.15
4AM	JGV	0.18	2.2	0.56	6.81	26.5	0.12	0.11	6.83	26.3	0.10	0.11	0.20	0.16
6AM	JGV	0.16	2.2	1.71	6.82	26.2	.12	.08	6.82	26.2	0.09	0.09	0.17	0.16
8AM	[illegible]	.15	2.2	1.36	6.8	26	.13	.10	6.8	26	.10	.09	.18	.16
10AM		.14	2.3	.46	6.8	26	.19	.12	6.8	26	.14	.15	.16	.18
12PM		.18	2.7	.80	6.4	26	.15	.08	6.7	26	.09	.09	.15	.21
2PM		.16	2.8	1.00	7.0	27	.15	.09	6.8	26	.09	.09	.15	.16
4PM		.14	2.8	.96	7.0	27	.15	.10	6.8	26	.09	.09	.14	.17
6PM	[illegible]	.12	2.7	1.40	7.1	27	.13	.14	7.2	26	.09	.09	.17	.27
8PM	[illegible]	.15	1.8	1.3	7.2	26	.14	.14	7.2	26	.09	.08	.15	.23
10PM	[illegible]	.16	3.1	1.2	7.1	25	.16	.13	7.1	26	.08	.08	.15	.21

Clarifiers

Clarifier # 1					Clarifier # 2				
TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH	TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH
12AM	0.51	0.81	26.4°	7.05	12AM	0.59	0.57	26.6°	7.13
6AM	0.59	0.67	26.3	7.22	6AM	0.57	0.72	26.5	7.05
12PM	.61	.61	26	7.3	12PM	.58	.69	26	7.3
6PM	.63	.31	25	7.2	6PM	.52 .45	.45	25	7.2

Raw Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	8.34	120	25.9°	8.29	1164
6AM	6.69	120	25.7	6.68	1168
12PM	8.21	120	26	7.8	1172
6PM	9.58	120	27	7.6	1173

Treated Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	0.14	80	29.9	7.43	446
6AM	0.16	80	26.2	6.82	473
12PM	.19	80	29	6.4	862
6PM	.12	80	27	7.1	485

Webb County Water Utilities

Date: 10-14-14

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	Jesse.	.15	2.8	1.3	7.1	25	.14	.14	7.1	26	.08	.08	.14	.14
2AM	Jesse.	.15	2.2	1.4	7.1	25	off							off
4AM	Jesse.	.17	2.6	1.5	7.1	25	off							off
6AM	Jesse.	.18	3.0	1.5	7.1	25	off							off
8AM	J.H.	.14	4.7	.16	7.1	25	.17	.17	7.1	26	.10	.09	.16	.19
10AM		.12	5.6	.18	7.3	25	.07	.16	7.2	25	.06	.06	.08	.10
12PM		.12	5.0	.17	7.3	25	.07	.16	7.3	25	.06	.06	.08	.09
2PM		.12	4.6	.17	7.2	25	.08	.17	7.2	25	.06	.06	.08	.10
4PM		.13	4.2	.23	7.2	25	.08	.19	7.2	25	.07	.06	.09	.09
6PM	J.H.Vela	.12	4.0	.37	7.2	25	.09	.09	6.7	24	.07	.07	.12	.12
8PM	Jesse.	.10	1.7	1.5	7.2	25	.10	.10	6.9	24	.07	.07	.12	.14
10PM	Jesse.	.10	1.9	1.4	7.2	24	.11	.15	7.1	24	.06	.07	.12	.21

Clarifiers

Clarifier # 1					Clarifier # 2				
TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH	TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH
12AM	.58	.37	24	7.2	12AM	.56	.43	26	7.4
6AM	off			off	6AM	off			off
12PM	.55	.25	25	7.3	12PM	.56	.31	25	7.3
6PM	.73	.58	25	6.8	6PM	1.27	.92	25	6.9

Raw Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	8.3	120	24	7.7	
6AM	off				off
12PM	11.53	120	25	7.8	860
6PM	12.98	120	25	7.9	863

Treated Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	.15	80	25	7.1	
6AM	.18	80	25	7.8	483
12PM	.12	80	25	7.3	483
6PM	.12	80	25	7.2	836

Webb County Water Utilities

Date: 10-15-14

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	Jesse.	.11	2.6	1.4	7.2	24	.11	.17	7.1	24	.06	.06	.12	.27
2AM	Jesse.	.11	2.7	1.0	7.2	24	OFF							OFF
4AM	Jesse.	.12	2.8	.63	7.2	24	OFF							OFF
6AM	Jesse.	.12	2.9	.53	7.3	24	OFF							OFF
8AM	Jesse.	.08	3.1	.49	7.3	24	.26	.19	7.2	24	.13 backwashed	.19 backwashed	.25 backwashed	.53 backwashed
10AM		.11	3.0	.04	7.2	25	.11	.15	7.2	25	.07	.08	.11	.16
12PM		.11	3.1	.09	7.2	25	.11	.18	7.2	25	.07	.07	.12	.14
2PM		.10	2.6	.16	7.0	25	.09	.17	7.2	25	.07	.07	.12	.14
4PM		.11	2.8	.17	7.0	25	.10	.18	7.1	25	.07	.07	.12	.15
6PM	Jesse.	.10	2.7	.14	7.2	25	.09	.13	7.1	24	.06	.07	.11	.13
8PM	Jesse.	.10	2.9	.23	7.2	25	.09	.14	7.1	24	.07	.07	.11	.12
10PM	Jesse.	.11	2.9	.80	7.1	24	.10	.14	7.1	24	.06	.07	.11	.13

Clarifiers

Clarifier #1					Clarifier #2				
TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH	TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH
12AM	.69	.53	25	6.8	12AM	.87	.67	25	6.8
6AM	OFF			OFF	6AM	OFF			OFF
12PM	~~10.93~~ .65	.52	25	7.0	12PM	.76	.68	25	6.9
6PM	.88	.90	25	7.0	6PM	.50	.88	25	7.0

Raw Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	9.09	120	25	7.8	
6AM	OFF				OFF
12PM	16.94	120	25	7.2	864
6PM	13.48	120	25	7.9	876

Treated Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	.11	80	24	7.2	
6AM	.12	80	24	7.3	
12PM	.11	80	25	7.2	836
6PM	.10	80	25	7.2	883

Webb County Water Utilities

Date: 10-16-14

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	Jesse.	.10	2.6	.71	7.2	24	.14	.15	7.1	24	.07	.07	.10	.14
2AM	Jesse.	.10	2.4	.62	7.2	24	.11	.13	7.1	24	.07	.06	.11	.12
4AM	Jesse.	.11	2.4	.74	7.1	24	.13	.12	7.1	24	.09	.08	.10	.12
6AM	Jesse.	.10	2.4	.83	7.1	23	.10	.14	7.1	24	.06	.07	.10	.13
8AM	Jesse V.	.11	2.3	.93	7.1	23	OFF							OFF
10AM		.13	2.4	.92	7.1	24	OFF							OFF
12PM		.11	2.5	.62	7.1	25	.12	.17	7.1	24	.06	.07	.11	.13
2PM		.12	2.8	.63	7.1	25	OFF							OFF
4PM		.12	3.0	.73	7.1	25	.13	.21	7.1	25	.06	.06	.13	.15
6PM	Jesse V.	.11	3.0	.26	7.1	25	.09	.19	7.0	25	.06	.06	.11	.13
8PM	Jesse V.	.13	2.9	.38	7.2	25	.10	.18	7.1	24	.07	.06	.10	.13
10PM	Jesse V.	.11	2.3	.67	7.2	24	.10	.14	7.1	24	.06	.04	.12	.13

Clarifiers

Clarifier #1					Clarifier #2				
TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH	TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH
12AM	.93	.70	24	7.1	12AM	.60	~~.60~~ .37	24	7.1
6AM	.84	.63	24	7.1	6AM	.62	.40	~~7.1~~ 24	7.1
12PM	.89	.71	24	7.1	12PM	.69	.51	~~28~~ 24	7.2
6PM	.64	.73	24	7.1	6PM	.63	.69	24	~~7.1~~

Raw Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	11.4	120	24	7.9	—
6AM	9.6	120	24	7.9	—
12PM	10.23	120	24	7.9	861
6PM	11.08	120	25	7.9	1119

Treated Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	.10	80	24	7.2	—
6AM	.10	80	23	7.1	—
12PM	.11	80	25	7.1	483
6PM	.11	80	25	7.1	919

Webb County Water Utilities

Date: 10-17-14

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	Jesse	.12	2.4	.37	7.2	24	.12	.15	7.1	24	.06	.07	.13	.14
2AM	Jesse	.12	1.7	.17	7.2	24	off							off
4AM	Jesse	.14	2.2	.39	7.2	24	off							off
6AM	Jesse	.16	2.5	.75	7.2	24	off							off
8AM	GAV.	.10	2.5	.71	7.2	24	OFF							OFF
10AM		.14	2.5	.75	7.2	24	.14	.17	7.1	24	.08	.07	.13	.15
12PM		.13	2.4	.69	7.2	24	.10	.13	7.1	24	.07	.07	.13	.14
2PM		.14	2.4	.71	7.2	24	.11	.15	7.1	24	.07	.07	.13	.16
4PM		.14	2.4	1.9	7.2	25	.11	.21	7.1	24	.07	.07	.14	.15
6PM	GAV.	.15	2.5	.65	7.1	25	.12	.26	7.1	24	.09	.09	.16	.18
8PM	Jesse	.18	2.6	.90	7.1	24	.11	.19	7.1	24	.08	.09	.14	.19
10PM	Jesse	.17	2.8	1.2	7.2	24	.10	.20	7.2	24	.08	.08	.13	.19

Clarifiers

Clarifier #1					Clarifier #2				
TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH	TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH
12AM	.66	.74	24	7.1	12AM	.65	.77	24	7.1
6AM	off			off	6AM	off			off
12PM	.71	.69	24	7.1	12PM	.69	.65	24	7.2
6PM	.64	.97	24	7.1	6PM	.57	.72		

Raw Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	9.4	120	24	7.9	—
6AM	~~off~~ 8.5	120	24	7.9	—
12PM	18.60	120	24	7.9	893
6PM	12.60	120	25	7.8	1120

Treated Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	.12	80	~~24~~ 24	7.2	—
6AM	.16	80	24	7.2	—
12PM	.14	80	24	7.2	864
6PM	.15	80	25	7.1	483

Webb County Water Utilities

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Date: 10-18-14

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	Jesse	.16	2.3	1.5	7.1	24	.10	.17	7.2	24	.08	.07	.11	.20
2AM	Jesse	.15	2.3	1.6	7.1	24	off							off
4AM	Jesse	.14	2.4	1.7	7.1	24	off							off
6AM	Jesse	.15	2.4	1.9	7.1	24	off							off
8AM	JAV	.13	2.3	1.5	7.1	24	.09	.16	7.2	24	.08	.08	.11	.15
10AM		.11	2.4	1.8	7.1	24	.09	.19	7.2	24	.08	.08	.11	.14
12PM		.12	2.4	1.6	7.1	24	.10	.17	7.2	24	.08	.08	.10	.13
2PM		.13	2.0	~~2.7~~ .50	6.2	25	.09	.15	~~6~~ 6.1	25	.08	.08	.09	.15
4PM	JAV	.10	3.1	.18	6.1	25	.10	.06	6.0	25	.06	.06	.14	.06
6PM	JAV	.10	3.0	.17	6.1	25	.10	~~.06~~ .06	6.0	25	.06	.06	.14	.06
8PM	Jesse	.09	3.1	.48	6.0	24	.12	.10	4.8	25	.08	.04	.09	.07
10PM	Jesse	.10	3.1	.39	6.1	24	.11	.11	6.1	24	.09	.07	.07	.06

Clarifiers

Clarifier # 1					Clarifier # 2				
TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH	TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH
12AM	.66	.91	24	7.1	12AM	.58	.69	24	7.1
6AM	off			off	6AM	off			off
12PM	~~10.76~~ .89	.72	24	6.9	12PM	.66	.69	24	7.0
6PM	.59	.60	24	5.9	6PM	.54	.36	24	~~6~~ 6.0

Raw Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	11.8	120	24	7.9	
6AM	7.8	120	24	7.9	
12PM	10.76	120	24	7.8	912
6PM	11.27	120	24	7.7	898

Treated Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	.15	80	24	7.1	
6AM	.15	80	24	7.1	
12PM	.12	80	24	7.1	861
6PM	.16	80	24	~~6~~ 6.1	849

Webb County Water Utilities

Date: 10-19-14

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	Jesse.	.10	~~3.2~~	.30	6.1	24	.10	.08	6.1	24	.09	.04	.06	.07
2AM	Jesse.	.11	3.3	.37	6.1	24	.11	.14	6.1	24	.10	.07	.06	.07
4AM	Jesse.	.10	3.1	.44	6.1	24	.10	.12	6.1	24	.10	.08	.06	.07
6AM	Jesse	.10	3.9	.53	6.1	24	.10	.15	6.1	24.	.09	.07	.06	.08
8AM	JAV.	.11	3.0	.53	6.1	24	.11	.16	6.1	24.	.08	.08	.07	.08
10AM	↓	.11	2.9	.23	6.1	24	.11	.15	6.1	24	.08	.08	.09	.18
12PM		.10	2.9	.17	6.1	24	.11	.17	6.1	24	.08	.08	.08	.10
2PM	↓	.08	2.8	.16	6.1	~~25~~	.06	.19	6.1	25	.08	.08	.08	~~.09~~
4PM	↓	.07	3.1	.11	6.1	25	.08	.15	6.0	25	.06	.07	.08	.08
6PM	JAV.	.08	3.3	.09	6.0	25	.08	.09	5.9	25	.06	.06	.08	.06
8PM	Jesse.	.09	2.8	.29	6.0	25	.08	.13	5.9	24	.10	.06	.07	.06
10PM	Jesse.	.09	2.1	.68	5.9	24	.09	.11	5.9	24	.14	.07	.08	.07

Clarifiers

Clarifier # 1					Clarifier # 2				
TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH	TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH
12AM	.56	.65	24	6.1	12AM	.55	.43	24	6.1
6AM	.61	.64	24	6.1	6AM	.61	.47	24	6.1
12PM	~~13.22~~ .16	.71	24	6.3	12PM	.63	.67	24	6.2
6PM	.65	.81	24	~~6~~ 5.8	6PM	.68	.71	24	5.9

Raw Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	9.3	120	24	7.8	—
6AM	9.41	120	24	7.8	—
12PM	13.22	120	24	7.7	902
6PM	13.27	120	25	7.8	907

Treated Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	.11	80	24	6.1	—
6AM	.10	80	24	6.1	—
12PM	.10	80	24	6.1	~~478~~ 483
6PM	.08	80	25	6.0	918

Webb County, Water Utilities

Date: 10-20-14

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	Jesse.	.10	2.1	1.3	5.9	24	.10	.10	5.9	24	.18	.06	.07	.08
2AM	Jesse.	.10	2.1	1.4	5.9	24	off	—	—	—	—	—	—	off
4AM	Jesse.	.09	2.0	1.4	5.9	24	off	—	—	—	—	—	—	off
6AM	Jesse	.09	1.9	1.5	5.9	24	off	—	—	—	—	—	—	off
8AM	R.F.-1	0.08	2.8	1.5	7.0	24	off	—	—	—	—	—	—	—
10AM	R.F.-1	0.07	2.9	1.8	6.7	24	0.09	0.56	6.7	24	Back washed	.07	0.08	0.11
12PM	R.F.-1	0.09	3.1	2.1	6.7	25	0.09	0.51	6.8	24	0.21	Back washed	0.07	0.08
2PM	R.F.-1	0.10	2.9	1.9	7.0	25	0.10	0.27	7.0	25	0.15	0.13	0.10	0.10
4PM	R.F.-1	0.09	2.3	0.71	7.1	25	0.10	0.26	7.0	24	0.13	0.13	0.10	0.10
6PM	R.F.-1	0.09	2.6	0.47	7.1	24	0.10	0.27	7.0	24	0.12	0.12	0.10	0.08
8PM	Rogelio Reyes	0.13	2.3	0.49	7.23	25.1C	0.10	0.14	7.10	25.0C	0.11	0.12	0.09	0.09
10PM	Rogelio Reyes	0.11	2.4	0.33	7.16	25.0C	0.10	0.18	7.04	24.5C	0.10	0.09	0.08	0.08

Clarifiers

Clarifier #1					Clarifier #2				
TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH	TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH
12AM	~~16.3~~ .63	.81	24	5.9	12AM	.67	.72	24	5.9
6AM	off	—	—	off	6AM	off	—	—	off
12PM	041	0.73	24	6.8	12 PM	0.43	0.77	24	6.8
6PM	0.67	0.53	24	7.0	6 PM	0.58	0.43	24	7.0

Raw Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	10.4	170	25	7.8	—
6AM	7.4	120	25	7.8	—
12PM	9	120	22	8.2	1187
6PM	9	100	24	8.0	1142

Treated Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	.10	80	24	5.9	—
6AM	.09	80	24	5.9	—
12PM	0.09	80	25	6.2	550
6PM	0.09	80	25	7.1	520

Webb County Water Utilities

Date: 10/21/14

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	Rogelio Reyes	0.13	2.02	0.34	7.07	24.8c	0.09	0.14	7.08	24.5c	0.09	0.09	0.08	0.09
2AM	Rogelio Reyes	0.12	1.84	0.24	7.10	24.7c	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
4AM	Rogelio Reyes	0.13	1.20	0.10	7.09	24.7c	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
6AM	Rogelio Reyes	0.13	1.34	0.20	7.03	24.6c	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
8AM	R.f.-1	0.11	3.0	0.41	7.0	24	Plug	OFF	—	—	—	—	—	—
10AM	R.f.-1	0.11	2.5	0.57	7.0	24	—	—	—	—	—	—	—	—
12PM	R.f.-1	0.08	2.6	0.29	7.7	24	0.11	025	7.1	24	0.13	0.12	0.11	0.07
2PM	R.f.-1	0.11	2.6	0.41	7.1	24	0.07	0.25	7.0	23	0.10	0.10	0.08	0.08
4PM	R.f.-1	0.09	2.6	0.49	7.2	25	0.08	0.25	7.3	24	0.10	0.09	0.07	0.07
6PM	R.f.-1	0.09	2.6	0.32	7.0	24	0.08	0.24	6.9	24	0.10	0.09	0.08	0.08
8PM	Rogelio Reyes	0.09	1.85	1.38	7.13	24.8c	0.08	0.14	7.04	24.6c	0.09	0.08	0.08	0.08
10PM	Rogelio Reyes	0.09	1.94	0.109	7.10	24.6c	0.08	0.19	7.08	24.4c	0.08	0.08	0.08	0.07

Clarifiers

Clarifier # 1					Clarifier # 2				
TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH	TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH
12AM	0.59	0.83	24.9c	7.04	12AM	0.52	0.80	24.8c	7.04
6AM	OFF	OFF	OFF	OFF	6AM	OFF	OFF	OFF	OFF
12PM	0.43	0.66	25	7.0	12PM	0.33	0.75	25	7.0
6PM	~~1.0~~ 0.37	0.44	24	7.0	6PM	1.0	0.42	24	7.0

Plant OFF @ 10:50PM

Raw Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	9.12	120	24.8c	8.09	1250
6AM	OFF	OFF	OFF	OFF	OFF
12PM	8	120	23	8.2	1187
6PM	13	120	24	8.0	1217

Treated Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	0.13	80	24.8c	7.07	950
6AM	0.13	80	24.6c	7.03	430
12PM	0.08	80	24	7.0	952
6PM	0.09	80	24	7.0	499

Webb County Water Utilities

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Date: 10/22/14

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	Rogelio Reyes	0.09	1.90	0.38	7.16	24.6°C								
2AM	Rogelio Reyes	0.09	1.80	0.29	7.13	24.7°C								
4AM	Rogelio Reyes	0.09	2.08	1.43	7.14	24.6°C								
6AM	Rogelio Reyes	0.09	2.16	1.31	7.15	24.4°C								
8AM	R. Ruiz	0.07	2.9	0.29	7.0	22	Plant	OFF	—	—	—	—	—	—
10AM	R. Ruiz	0.07	2.7	0.98	6.8	24	—	—	—	—	—	—	—	—
12PM	R. Ruiz	0.09	2.8	0.30	7.0	26	0.06	0.23	7.0	24	0.09	0.09	0.08	0.08 0.08
2PM	R. Ruiz	0.13	2.6	0.33	7.3	25	0.06	0.18	7.3	24	0.07	0.07	0.06	0.07
4PM	R. Ruiz	0.08	2.7	0.23	7.3	25	0.13	0.24	7.3	25	Backed washed	0.08	0.06	0.07
6PM	R. Ruiz	0.08	2.8	0.26	7.1	25	0.09	0.26	7.1	24	0.15	0.07	0.08	0.08
8PM	Rogelio Reyes	0.09	2.00	0.12	7.27	25.3°C	0.09	0.20	7.08	25.0°C	0.13	0.08	0.08	0.08
10PM	Rogelio Reyes	0.08	2.06	0.14	7.19	24.9°C	0.09	0.24	7.10	24.8°C	0.12	Backwashing w/Air		0.08

Plant OFF @ 10:50PM 10/21/14

Clarifiers

Clarifier #1					Clarifier #2				
TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH	TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH
12AM					12AM				
6AM					6AM				
12PM	0.49	0.66	25	7.0	12PM	0.55	0.58	25	6.9
6PM	1.0	1.3	24	7.0	6PM	0.76	1.1	24	7.0

Raw Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM					OFF
6AM					OFF
12PM	18	120	22	8.4	1225
6PM	17	120			1223

Treated Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	0.09	80	24.6°C	7.16	OFF
6AM	0.09	80	24.4°C	7.15	450
12PM	0.08	80	26	7.0	937
6PM	0.08	80	25	7.1	905

Webb County Water Utilities

Date: 10/23/14

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	RogelioReyes	0.09	1.92	0.59	7.17	24.8c	0.09	0.41	7.23	24.7c	0.13	0.12	0.11	0.08
2AM	RogelioReyes	0.10	1.96	0.54	7.21	24.6c	0.09	0.16	7.20	24.9c	0.11	0.11	0.13	0.07
4AM	RogelioReyes	0.10	0.52	0.25	7.26	24.6c	0.09	0.12	7.24	24.8c	0.08	0.10	0.12	0.07
6AM	RogelioReyes	0.10	0.38	0.16	7.11	24.7c	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
8AM	R.Ruel	0.09	2.3	0.53	7.0	23	OFF	—	—	—	—	—	—	—
10AM	R.Ruel	0.08	1.9	0.26	7.1	24	OFF	—	—	—	—	—	—	—
12PM	R.Ruel	0.10	2.2	0.48	7.1	25	0.13	0.24	7.1	24	0.12	0.16	0.18	0.18
2PM	R.Ruel	0.09	2.2	0.57	7.3	24	0.11	0.31	7.1	24	0.08	0.10	0.13	0.16
4PM	R.Ruel	0.09	2.5	0.44	7.2	24	0.10	0.24	7.1	24	0.07	0.08	0.10	0.13
6PM	R.Ruel	0.10	2.6	0.38	6.9	25	0.08	0.34	7.0	24	0.07	0.08	0.09	0.12
8PM	RogelioReyes	0.10	2.3	0.48	7.08	25.1c	0.10	0.21	7.04	24.9c	0.08	0.08	0.08	0.12
10PM	RogelioReyes	0.10	2.5	0.56	7.14	24.7c	0.10	0.16	7.08	24.8c	0.07	0.07	0.07	0.11

Plant OFF @ 5:20AM

Clarifiers

Clarifier #1					Clarifier #2				
TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH	TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH
12AM	0.96	0.94	24.8c	7.05	12AM	0.87	0.88	24.7c	7.05
6AM	OFF	OFF	OFF	OFF	6AM	OFF	OFF	OFF	OFF
12PM	0.61	0.73	25	7.1	12PM	0.52	0.69	25	7.0
6PM	0.441	1.5	24	7.0	6PM	0.69	1.1	24	7.1

Raw Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	11.3	120	24.5c	8.36	1150
6AM	OFF	OFF	OFF	OFF	0
12PM	14	140	24	8.3	1225
6PM	9	140	25	8.0	984

Treated Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	0.09	80	24.8c	7.17	470
6AM	0.10	80	24.7c	7.11	0
12PM	0.10	100	25	7.1	493
6PM	0.10	100	25	6.9	473

Webb County Water Utilities

Date: 10/24/14

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU's	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU's	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	Rogelio Reyes	0.11	2.7	0.36	7.02	24.6c	0.09	0.13	6.99	23.7c	0.07	0.07	0.07	0.10
2AM	Rogelio Reyes	0.11	2.8	0.22	6.96	24.4c	0.09	0.18	6.91	23.8c	0.08	0.07	0.07	0.11
4AM	Rogelio Reyes	0.11	3.1	0.15	6.90	24.3c	0.08	0.10	6.94	23.7c	0.07	0.07	0.07	0.11
6AM	Rogelio Reyes	0.10	3.5	0.21	7.19	24.2c	0.08	0.10	7.11	23.6c	0.07	0.07	0.06	0.09
8AM	Jesse V.	.07	3.1	.05	7.1	24	.08	.11	7.1	24	.07	.07	.07	.08
10AM	Jesse V	.07	3.6	.24	7.1	24	.09	.10	7.1	24	.07	.07	.06	.08
12PM	Jesse V.	.09	3.4	.24	7.1	25	.09	.11	7.1	24	.08	.08	.07	.08
2PM	Jesse V.	.07	3.0	.68	6.9	26	.08	.12	7.0	25	.08	.08	.09	.09
4PM	Jesse V.	.08	2.7	.45	6.9	25	.08	.10	7.1	25	.08	.08	.09	.10
6PM	Jesse V.	.09	3.0	.33	6.9	25	.07	.13	7.0	25	.08	.08	.13	.09
8PM	Rogelio Reyes	0.06	3.7	0.72	6.93	25.4c	0.06	0.17	6.93	25.1c	0.05	0.08	0.07	0.09
10PM	Rogelio Reyes	0.06	3.4	0.68	6.92	25.0c	0.06	0.14	6.95	24.9c	0.06	0.07	0.08	0.09

Clarifiers

Clarifier # 1					Clarifier # 2				
TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH	TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH
12AM	0.70	0.90	24.5c	6.91	12AM	0.53	0.89	24.4c	6.90
6AM	0.107	0.94	24.3c	7.01	6AM	0.58	0.94	24.2c	7.01
12PM	.64	.95	25	7.1	12PM	.59	.92	25	7.1
6PM	.69	.96	25	7.1	6PM	.66	.94	25	7.1

Raw Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	10.1	140	23.9c	~~23.9c~~ 8.10	870
6AM	9.79	140	23.3c	8.08	870
12PM	11.3	120	24	8.0	—
6PM	12.1	120	25	8.0	—

Treated Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	0.11	100	24.6c	7.02	450
6AM	0.10	100	24.2c	7.19	450
12PM	.09	80	24	7.1	—
6PM	.09	80	25	6.8	

Webb County Water Utilities

Date: 10/25/14

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	RogelioReyes	0.06	3.4	0.64	6.91	24.8C	0.07	0.10	6.93	24.8C	0.08	0.08	0.07	0.08
2AM	RogelioReyes	0.07	3.6	0.53	7.08	24.4C	0.06	0.13	7.06	24.2C	0.06	0.06	0.07	0.08
4AM	RogelioReyes	0.07	1.99	0.06	6.98	24.2C	0.07	0.16	6.91	24.4C	0.06	0.06	0.06	0.07
6AM	RogelioReyes	0.10	1.71	0.09	6.94	24.2C	0.07	0.15	7.22	24.6C	0.06	0.06	0.05	0.07
8AM	R.Ferel	0.06	3.8	1.3	6.9	22	0.05	0.28	6.9	24	0.06	0.06	0.05	0.06
10AM	R.Ferel	0.05	3.9	0.36	6.9	24	0.05	0.39	6.9	24	0.06	0.05	0.05	0.06
12PM	R.Ferel	0.06	4.0	0.31	6.9	26	0.05	0.28	6.9	25	0.05	0.05	0.06	0.05
2PM	R.Ferel	0.09	3.4	0.55	7.1	24	0.06	0.33	7.2	24	0.09	0.08	0.07	0.07
4PM	R.Ferel	0.08	2.7	0.29	7.1	26	0.07	0.23	7.1	25	Back washing	0.09	0.09	0.08
6PM	R.Ferel	0.06	3.2	0.36	7.0	26	0.07	0.27	7.0	24	0.13	0.06	0.07	0.08
8PM	RogelioReyes	0.12	3.1	0.31	7.15	25.4C	0.07	0.18	7.04	24.9C	0.11	0.07	0.07	0.09
10PM	RogelioReyes	0.09	3.0	0.41	7.09	24.9C	0.07	0.26	7.08	24.8C	0.10	0.08	0.07	0.08

Clarifiers

Clarifier #1					Clarifier #2				
TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH	TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH
12AM	0.82	1.04	25.2C	6.82	12AM	0.75	1.00	25.2C	6.83
6AM	0.61	0.94	24.7C	7.06	6AM	0.52	0.96	24.5C	7.04
12PM	0.49	1.2	25	6.8	12PM	0.51	1.1	25	6.8
6PM	0.44	0.70	24	7.0	6PM	0.78	0.81	24	7.0

Raw Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	8.64	120	24.5C	8.17	868
6AM	7.26	120	23.5C	8.00	875
12PM	6	140	24	8.2	873
6PM	7	120			1202

Treated Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	0.06	80	24.8C	6.91	498
6AM	0.10	80	24.2C	6.94	0
12PM	0.06	80	26	6.9	937
6PM	0.06	100	26	7.0	432

Webb County Water Utilities

Date: 10/24/14

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU's	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU's	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU's	FILTER 2 NTU's	FILTER 3 NTU's	FILTER 4 NTU's
12AM	KogelioKeyes	0.10	3.5	0.64	7.08	24.8c	0.08	0.46	7.11	24.5c	0.10	Backwashing w/Air		0.08
2AM	KogelioKeyes	0.09	2.7	0.12	7.26	24.5c	0.13	0.06	7.46	24.8c	0.11	0.14	0.14	0.08
4AM	KogelioKeyes	0.12	2.9	0.16	7.11	24.3c	0.10	0.08	7.21	24.6c	0.10	0.12	0.12	0.07
6AM	KogelioKeyes	0.10	2.4	0.16	7.07	24.2c	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
8AM	R.Ruel	0.10	2.6	0.29	7.2	23	OFF	—	—	—	—	—	—	—
10AM	R.Ruel	0.08	2.8	0.27	7.0	25	OFF	—	—	—	—	—	—	—
12PM	R.Ruel	0.10	2.4	0.29	7.2	26	OFF	—	—	—	—	—	—	—
2PM	R.Ruel	0.10	2.0	0.28	7.0	25	0.10	0.25	7.0	24	0.14	0.14	0.12	0.09
4PM	R.Ruel	0.09	2.6	0.29	7.2	26	0.10	0.34	7.2	25	0.12	0.12	0.12	0.07
6PM	R.Ruel	0.10	2.6	0.37	7.1	25	0.10	0.30	7.1	25	0.10	0.12	0.12	0.06
8PM	KogelioKeyes	0.11	2.01	0.29	7.22	25.2c	0.09	0.27	7.16	25.1c	0.09	0.11	0.11	0.06
10PM	KogelioKeyes	0.11	1.93	0.35	7.10	24.8c	0.09	0.29	7.09	24.8c	0.09	0.11	0.11	0.06

Plant OFF 4:30AM

Clarifiers

Clarifier #1					Clarifier #2				
TIME	NTU's	CL2 (Free)	TEMP.(F)	pH	TIME	NTU's	CL2 (Free)	TEMP.(F)	pH
12AM	0.54	0.84	24.6c	7.06	12AM	0.57	0.83	24.5c	7.06
6AM	OFF	OFF	OFF	OFF	6AM	OFF	OFF	OFF	OFF
12PM	OFF	—	—	—	12PM	OFF	—	—	—
6PM	0.89	1.2	24	7.0	6PM	0.65	1.0	24	7.0

Raw Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	6.09	140	24.5c	8.17	1150
6AM	OFF	OFF	OFF	OFF	0
12PM	OFF	—	—	—	—
6PM	11	140	25	8.0	1189

Treated Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	0.10	100	24.8c	7.08	8
6AM	0.10	100	24.2c	7.07	8
12PM	0.10	100	26	7.0	936
6PM	0.10	100	25	7.1	457

Webb County Water Utilities

Date: 10/27/14

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	Rogelio Reyes	0.12	1.79	0.33	7.27	24.6C	0.10	0.08	7.06	23.8C	0.09	0.10	0.09	0.07
2AM	Rogelio Reyes	0.11	1.83	0.24	7.07	24.2C	0.10	0.11	6.99	23.9C	0.09	0.10	0.10	0.06
4AM	Rogelio Reyes	0.11	10.40	0.27	6.99	24.2C	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
6AM	Rogelio Reyes	0.10	1.82	1.19	6.95	24.2C	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
8AM	J.M.V.	.10	.96	.35	7.01	24	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
10AM		.10	2.0	.47	7.0	24	.07	.08	6.9	24	.08	.08	.08	.06
12PM		.10	2.1	.49	7.0	24	.08	.10	6.9	24	.08	.08	.08	.07
2PM		.10	2.4	1.31	7.0	25	.10	.09	6.9	24	.08	.08	.10	.09
4PM		.11	2.5	4.1	7.0	25	.10	.12	6.9	24	.09	.10	.10	.15
6PM	J.M.V.	.10	2.3	1.46	6.7	25	.14	.34	6.7	24	.17	.16	.11	.20
8PM	Jesse W.	.11	2.4	.58	6.7	25	.15	.35	6.7	24	.19	.17	.12	.24
10PM	Jesse	.13	2.8	.57	6.6	24	.14	.34	6.7	24	.17	.16	.11	.22

Clarifiers

Clarifier #1					Clarifier #2				
TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH	TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH
12AM	0.93	0.98	24.0C	7.10	12AM	0.58	0.98	23.9C	7.10
6AM	OFF	OFF	OFF	OFF	6AM	OFF	OFF	OFF	OFF
12PM	.86	.97	24	7.0	12PM	.67	.89	24	7.0
6PM	1.49	.12	25	6.7	6PM	1.57	.47	24	6.7

Raw Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	7.94	120	24.1C	8.03	1168
6AM	OFF	OFF	OFF	OFF	0
12PM	10.83	120	24	7.9	901
6PM	12.41	120	25	7.9	1201

Treated Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	0.12	100	24.6C	7.27	959
6AM	0.10	100	24.2C	6.95	520
12PM	.10	80	24	7.0	981
6PM	.10	80	25	6.7	456

Webb County Water Utilities

Date: 10-28-14

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	Jesse.	.15	3.9	.55	6.6	24	.13	.37	6.7	24	.15	.16	.04	.25
2AM	Jesse.	.16	3.5	.32	6.6	24	.13	.33	6.7	24	.15	.17	.09	.22
4AM	Jesse.	.13	3.0	1.2	6.6	24	.12	.28	6.7	24	.13	.14	.09	.19
6AM	Jesse.	.12	3.1	1.2	6.6	24	.11	.06	6.7	24	.15	.15	.09	.25
8AM	G.A.V.	.09	2.6	.11	6.1	24	.16	.09	6.5	24	.13	.16	.14	.19
10AM	|	.10	4.2	1.8	6.4	24	.10	.08	6.4	25	.10	.11	.12	.13
12PM	|	.10	3.9	1.86	6.4	24	.11	.10	6.4	25	.10	.11	.11	.11
2PM	V	.11	3.9	.13	6.5	25	.11	.12	6.4	25	.10	.10	.11	.12
4PM	A	.11	3.9	.18	6.6	25	.10	.12	6.0	25	.10	.09	.10	.11
6PM	G.A.V.	.11	3.9	.29	6.6	25	.10	.13	5.8	24	.09	.09	.10	.10
8PM	Jesse	.12	3.0	.29	6.5	24	.11	.13	5.9	24	.10	.09	.10	.11
10PM	Jesse.	.11	3.5	1.2	6.4	24	.13	.12	6.7	24	.11	.10	.10	.11

Clarifiers

Clarifier #1					Clarifier #2				
TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH	TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH
12AM	.98	.26	25	6.9	12AM	.94	.47	25	6.9
6AM	.97	.69	25	6.9	6AM	.66	.68	25	6.9
12PM	.99	.56	25	6.9	12PM	.81	.66	25	6.9
6PM	1.42	.98	25	6.1	6PM	.62	.89	25	6.1

Raw Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	10.0	120	7.9	25	—
6AM	9.2	120	7.9	25	—
12PM	18.01	120	7.8	25	1012
6PM	19.87	120	7.9	25	998

Treated Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	.15	80	24	6.5	—
6AM	.12	80	24	6.5	—
12PM	.10	80	24	6.4	991
6PM	.11	80	25	6.6	983

Webb County Water Utilities

Date: 10-29-14

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	Jesse	.11	3.7	1.4	6.7	24	.11	.11	6.4	24	.12	.10	.10	.17
2AM	Jesse	.10	3.2	.57	6.7	24	.10	.13	6.5	24	.11	.10	.09	.11
4AM	Jesse	.10	3.2	.24	6.7	24	.11	.14	6.5	24	.11	.08	.10	.16
6AM	Jesse	.10	3.2	.10	6.7	24	.12	.12	6.5	24	.11	.09	.09	.12
8AM	GA	.10	3.0	.14	6.6	24	.11	.16	6.5	24	.11	.10	.10	.11
10AM		.09	3.2	.16	6.7	25	.08	.14	6.5	24	.09	.09	.10	.18
12PM		.09	3.2	.15	6.7	25	.08	.15	6.5	24	.09	.09	.09	.10
2PM		.11	3.2	.15	6.6	25	.13	.17	6.5	24	.10	.11	.09	.12
4PM		.09	3.2	.13	6.5	25	.10	.29	6.0	24	.09	.09	.10	.07
6PM	GA	.07	3.1	.11	6.7	25	.06	.36	5.1	24	.07	.07	.06	.06
8PM	Jesse	.08	3.3	.23	6.7	25	.08	.31	5.9	24	.08	.07	.09	.07
10PM	Jesse	.09	3.2	1.7	6.6	24	.10	.34	6.0	24	.07	.07	.24	.09

Clarifiers

Clarifier #1					Clarifier #2				
TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH	TIME	NTU'S	CL2 (Free)	TEMP.(F)	pH
12AM	1.1	.96	24	6.3	12AM	.62	.94	24	6.3
6AM	.73	.81	24	6.4	6AM	.69	1.10	24	6.5
12PM	.78	.79	24	6.3	12PM	.73	.97	24	6.4
6PM	.87	1.51	24	6.2	6PM	.82	1.25	24	6.3

Raw Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	13.8	120	25	7.9	—
6AM	9.8	120	25	7.9	—
12PM	14.21	120	25	7.9	998
6PM	13.09	120	25	7.9	1072

Treated Water Pump Station

Time	NTU's	Alk.	Temp.(F)	pH	GPM
12AM	.11	80	24	6.7	—
6AM	.10	80	24	6.7	—
12PM	.08	80	25	6.7	481
6PM	.07	80	25		

Webb County Water Utilities

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Date: 10-30-14

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	Jesse V.	.09	3.1	.61	6.6	24	OFF							OFF
2AM	Jesse	.10	3.0	.49	6.6	24	OFF							OFF
4AM	Jesse	.11	3.1	.34	6.6	24	OFF							OFF
6AM	Jesse	.10	3.3	.31	6.6	24	OFF							OFF
8AM	Jesse AV.	.07	2.8	.31	6.6	24	OFF							OFF
10AM	—	.07	3.0	.35	6.6	24	.08	.16	6.2	24	.08	.08	.07	.09
12PM		.07	3.0	.33	6.6	26	.08	.17	6.5	25	.08	.08	.08	.09
2PM		.07	2.9	.30	6.6	25	.07	.16	6.5	26	.07	.08	.07	.08
4PM		.09	2.7	.13	6.6	25	.14	.11	6.5	25	.11	.12	.09	.08
6PM	Jesse V.	.10	2.5	.09	6.6	25	.17	.08	6.5	25	.12	.14	.10	.08
8PM	Jesse	.10	2.2	.20	6.7	24	.15	.11	6.5	24	.13	.14	.11	.11
10PM		.10	2.1	.25	6.7	24	.14	.10	6.6	24	.16	.15	.12	.15

Clarifiers

Clarifier # 1					Clarifier # 2				
TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH	TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH
12AM	OFF			OFF	12AM	OFF			OFF
6AM	OFF			OFF	6AM	OFF			OFF
12PM	.79	.89	25	6.9	12PM	.82	.79	25	6.6
6PM	.58	.78	25	6.5	6PM	.63	.64	25	6.5

Raw Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	14.3	120	25	7.9	—
6AM	9.9	120	25	7.9	—
12PM	13.31	120	25	7.9	893
6PM	11.43	120	25	7.8	1308

Treated Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	.09	80	24	6.6	—
6AM	.10	80	24	6.6	
12PM	.07	80	26	6.6	497
6PM	.10	80	25	6.6	489

Webb County Water Utilities

Date: 10-31-14

Daily Readings (2 Hr.) (6 Hr.) Grab Samples

Time	Operator	C.W. NTU'S	C.W. CL2 (Total)	C.W. CL2 (Free)	C.W. pH	C.W. Temp (F)	C.F.E. NTU'S	C.F.E. CL2 (Free)	C.F.E. pH	C.F.E. Temp. (F)	FILTER 1 NTU'S	FILTER 2 NTU'S	FILTER 3 NTU'S	FILTER 4 NTU'S
12AM	[illegible]	.11	2.2	.48	6.6	24	.13	.11	6.6	24	.14	.14	.11	.13
2AM	[illegible]	.11	2.1	34	6.6	24	off							off
4AM	[illegible]	.10	2.1	.39	6.6	24	off							off
6AM	[illegible]	.11	2.1	.53	6.7	24	off							off
8AM	[illegible]	.09	2.2	.49	6.6	24	OFF							OFF
10AM		.12	1.5	.15	6.6	24	.14	.08	6.6	24	.17	.16	.14	.11
12PM		.11	2.3	.05	6.6	24	.11	.17	6.6	24	.11	.15	.09	.10
2PM	[illegible] Mono Shot 1.95	.11	2.5	.07	6.6	24	.12	.15	6.6	24	.11	.16	.09	.10
4PM	[illegible]	.11	2.3	.16	6.5	24	.28	.15	6.5	25	.13	.13	.34	.31
6PM	R. Fuel	0.12	3.0	0.32	7.0	23	0.13	0.26	7.0	23	0.15	0.13	0.13	0.12
8PM	R. Fuel	0.10	2.8	0.31	7.4	23	0.12	0.35	7.4	24	0.16	0.16	0.14	0.13
10PM	R. Fuel	0.11	2.7	0.42	7.0	23	0.12	0.35	6.9	23	0.14	0.15	0.11	0.12

Clarifiers

Clarifier #1					Clarifier #2				
TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH	TIME	NTU'S	CL2 (Free)	TEMP. (F)	pH
12AM	.66	.74	24	6.6	12AM	.61	.69	24	6.6
6AM	off			off	6AM	off			off
12PM	.71	.69	24	6.6	12PM	.68	.58	24	6.6
6PM	0.59	0.77	23	7.0	6PM	0.65	0.65	23	7.0

Raw Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	13.4	120	25	8.0	
6AM	19.2	120	25	8.0	
12PM	12.97	120	24	7.9	1112
6PM	14	120	24	8.4	1118

Treated Water Pump Station

Time	NTU's	Alk.	Temp. (F)	pH	GPM
12AM	.11	80	24	6.5	
6AM	.11	80	24	6.7	
12PM	.11	80	24	6.7	496
6PM	0.12	80	23	7.0	498