

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: City of Wichita Falls

PLANT NAME

OR NUMBER:

Cypress 2010 (TCEQ 15134)

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

PWS ID No.: 2430001

Operator's Signature: _____

Report for

the Month of: June 2012

Certificate No. & Grade:

WO0023530, AW

Date: July 10, 2012

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings: <u>24</u>	Number of 4-hour periods when plant was off-line: <u>156</u>	
Number of readings above 0.10 NTU: <u>6</u>	Number of 4-hour periods when plant was on-line but turbidity data was not collected: <u>0</u>	
Number of readings above 0.3 NTU: <u>0</u>	Number of days when plant was on-line but individual filter turbidity data was not collected: <u>0</u>	
Number of readings above 0.5 NTU: <u>0</u>	Number of days with readings above 1.0 NTU: <u>0</u> (2)	
Number of readings above 1.0 NTU: <u>0</u>	Number of days with readings above 5.0 NTU: <u>0</u> (3)	
Maximum allowable turbidity level: <u>0.3</u>		
Percentage of readings above this limit: <u>0.0</u> % (1)		

Statistical
Summary

Maximum turbidity reading: 0.12 NTU

Minimum turbidity reading: 0.08 NTU

CFE 95th percentile value: 0.11 NTU

Average turbidity value: 0.10 NTU

Standard deviation: 0.011 NTU

IFE 95th percentile: 0.309 NTU

Number of days with a low CT for no more than 4.0 consecutive hours: <u>0</u>	Average log inactivation for Giardia: <u>2.52</u>	
Number of days with a low CT for more than 4.0 consecutive hours: <u>0</u> (4)	Average log inactivation for viruses: <u>7.39</u>	
	Number of days when profiling data was not collected: <u>0</u>	
	Number of days when CT data was not collected: <u>0</u>	

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: <u>0.5</u> mg/L, measured as Total Chlorine	
Total number of readings this month: <u>115</u> (at least 100 required) (8)	
Average disinfectant residual value: <u>3.40</u>	Percentage of readings with a low residual this month: <u>0.0</u> % (6A)
Number of readings with a low residual: <u>0</u>	
Number of readings with no detectable residual: <u>0</u>	Percentage of readings with a low residual last month: <u>0.0</u> % (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

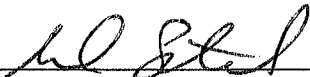
PUBLIC WATER SYSTEM NAME: City of Wichita Falls PLANT NAME OR NUMBER: Cypress 2010 (TCEQ 15134)

PWS ID No.: 2430001 Connections: 34,633

Month: June Year: 2012 Population: _____

					PERFORMANCE DATA															
Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY (Optional Data)						FINISHED WATER QUALITY									
			NTU	Alk.	Basin No.						Turbidity						Lowest Residual	Time		
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6				
1	0.000	15.202	X	X	X						X	X	X	X	X	X	2.9			
2	0.000	16.962	X	X	X						X	X	X	X	X	X	2.7			
3	0.000	18.912	X	X	X						X	X	X	X	X	X	3.0			
4	0.000	19.009	X	X	X						X	X	X	X	X	X	3.0			
5	0.000	14.009	X	X	X						X	X	X	X	X	X	3.1			
6	0.000	12.308	X	X	X						X	X	X	X	X	X	3.0			
7	0.000	9.094	X	X	X						X	X	X	X	X	X	3.0			
8	0.000	9.928	X	X	X						X	X	X	X	X	X	3.0			
9	0.000	9.541	X	X	X						X	X	X	X	X	X	2.7			
10	0.000	12.898	X	X	X						X	X	X	X	X	X	2.7			
11	0.000	14.375	X	X	X						X	X	X	X	X	X	2.4			
12	0.000	10.049	X	X	X						X	X	X	X	X	X	3.0			
13	0.000	7.907	X	X	X						X	X	X	X	X	X	2.6			
14	0.000	9.822	X	X	X						X	X	X	X	X	X	2.7			
15	0.000	10.715	X	X	X						X	X	X	X	X	X	2.3			
16	0.000	9.759	X	X	X						X	X	X	X	X	X	3.0			
17	0.000	11.064	X	X	X						X	X	X	X	X	X	2.5			
18	0.000	12.519	X	X	X						X	X	X	X	X	X	3.1			
19	0.000	12.920	X	X	X						X	X	X	X	X	X	2.7			
20	0.000	15.081	X	X	X						X	X	X	X	X	X	2.5			
21	0.000	14.603	X	X	X						X	X	X	X	X	X	2.0			
22	0.000	9.571	X	X	X						X	X	X	X	X	X	2.4			
23	0.000	11.359	X	X	X						X	X	X	X	X	X	2.7			
24	0.000	13.715	X	X	X						X	X	X	X	X	X	2.7			
25	2.000	15.686	14	187							0.10	0.09	0.08	0.08	0.08	0.09	2.9			
26	4.917	17.516	15	189							0.08	0.09	0.10	0.10	0.09	0.09	3.2			
27	6.620	21.255	13	178							0.10	0.09	0.11	0.11	0.10	0.09	3.2			
28	2.917	19.175	22	163							0.12	0.11	0.11	0.10	0.10	0.11	3.1			
29	0.000	19.864	X	X	X						X	X	X	X	X	X	3.8			
30	0.000	16.159	X	X	X						X	X	X	X	X	X	2.6			
31																				
Total	16.454	410.977	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.																	
Avg	0.548	13.699																		
Max	6.620	21.255																		
Min	0.000	7.907																		

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:  Certificate No. and Grade: WO0023530, AW Date: July 10, 2012

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: City of Wichita Falls

PLANT NAME
OR NUMBER: Cypress 2010 (TCEQ 15134)

PWS ID No.: 2430001

Month: June Year: 2012

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	X	X	X	X	X	X	X	X	X	X										
2	X	X	X	X	X	X	X	X	X	X										
3	X	X	X	X	X	X	X	X	X	X										
4	X	X	X	X	X	X	X	X	X	X										
5	X	X	X	X	X	X	X	X	X	X										
6	X	X	X	X	X	X	X	X	X	X										
7	X	X	X	X	X	X	X	X	X	X										
8	X	X	X	X	X	X	X	X	X	X										
9	X	X	X	X	X	X	X	X	X	X										
10	X	X	X	X	X	X	X	X	X	X										
11	X	X	X	X	X	X	X	X	X	X										
12	X	X	X	X	X	X	X	X	X	X										
13	X	X	X	X	X	X	X	X	X	X										
14	X	X	X	X	X	X	X	X	X	X										
15	X	X	X	X	X	X	X	X	X	X										
16	X	X	X	X	X	X	X	X	X	X										
17	X	X	X	X	X	X	X	X	X	X										
18	X	X	X	X	X	X	X	X	X	X										
19	X	X	X	X	X	X	X	X	X	X										
20	X	X	X	X	X	X	X	X	X	X										
21	X	X	X	X	X	X	X	X	X	X										
22	X	X	X	X	X	X	X	X	X	X										
23	X	X	X	X	X	X	X	X	X	X										
24	X	X	X	X	X	X	X	X	X	X										
25	x	x	x	x	0.14	0.10	0.11	0.10	0.48	0.08										
26	x	x	x	x	0.13	x	0.16	x	0.16	x										
27	0.25	0.13	0.24	0.13	0.17	x	0.23	x	0.20	x										
28	0.13	x	0.13	x	0.05	x	0.17	0.16	0.11	0.11										
29	X	X	X	X	X	X	X	X	X	X										
30	X	X	X	X	X	X	X	X	X	X										
31																				

SUMMARY & COMPLIANCE ACTIONS	Criteria	Filter No.										Plant	
		1	2	3	4	5	6	7	8	9	10		
	Number of days with event(s) above 0.5 NTU at 4.0 hrs this month	0	0	0	0	0							
	Number of days with event(s) above 1.0 NTU this month	0	0	0	0	0							
	Number of days with event(s) above 1.0 NTU last month	0	0	0	0	0							
	Number of days with event(s) above 1.0 NTU two months ago	0	0	0	0	0							
	Total number of days with event(s) above 1.0 NTU in three months	0	0	0	0	0							
	Number of days with event(s) above 2.0 NTU this month											0	
	Number of days with event(s) above 2.0 NTU last month											0	
	Does the filter/plant have an approved Corrective Action Plan?	N	N	N	N	N							N
	Is the plant required to submit a Filter Profile Report?	N	N	N	N	N							
	Is the plant required to submit a Filter Assessment Report?	N	N	N	N	N							
	Is the plant required to submit a Request for Compliance CPE?											N	

SUBMITTED BY:



Certificate No.
and Grade: W00023530, AW

Date: July 10, 2012

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: City of Wichita Falls
PWS ID No.: 2430001

PLANT NAME
OR NUMBER: Cypress 2010 (TCEQ 15134)
Month: June Year: 2012

DISINFECTION PROCESS PARAMETERS									
APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS			
Parameters	Disinfection Zones					Log Inactivations			
	D1	D2	D3	D4	D5	Giardia lamblia Cysts		Viruses	
Flow Rate (MGD)	42.000	42.000	42.000	10.000	20.000	0.5		2.0	
T ₁₀ (minutes)	1.0	1.2	13.8	70.1	3.9				

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
2	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
3	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
4	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
5	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
6	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
7	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
8	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
10	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
11	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
12	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
13	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
14	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
15	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
16	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								

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

SUBMITTED BY:  Certificate No. WO0023530, AW Date: July 10, 2012

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: City of Wichita Falls
PWS ID No.: 2430001

PLANT NAME
OR NUMBER: Cypress 2010 (TCEQ 15134)
Month: June Year: 2012

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
Parameters	Disinfection Zones					Log Inactivations	
	D6A	D6B	D6C	D7	D8	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	36.400	6.760	8.840			0.5	2.0
T ₁₀ (minutes)	59.2	53.0	24.3				

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time="
1	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
2	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
3	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
4	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
5	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
6	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
7	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
8	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time="
9	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
10	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
11	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
12	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
13	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
14	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
15	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
16	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								

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

SUBMITTED BY:



Certificate No.
and Grade: WO0023530, AW

Date: July 10, 2012

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: City of Wichita Falls

PLANT NAME
OR NUMBER: Cypress 2010 (TCEQ 15134)

PWS ID No.: 2430001

Month: June Year: 2012

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
Parameters	Disinfection Zones					Log Inactivations	
	D1	D2	D3	D4	D5	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	42.000	42.000	42.000	10.000	20.000	0.5	2.0
T ₁₀ (minutes)	1.0	1.2	13.8	70.1	3.9		

PERFORMANCE DATA

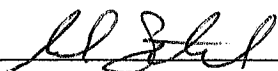
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
18	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
19	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
20	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
21	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
22	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
23	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
24	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
25	NA D1								
	NA D2								
	NA D3					3.22	9.90	4.95	
	CLA D4	2.9	4.000	29.6	9.4			(V)	
	CLA D5	1.5	4.000	33.2	8.6				
26	NA D1								
	NA D2								
	NA D3					3.06	9.00	4.50	
	CLA D4	4.1	6.000	28.9	8.9			(V)	
	CLA D5	4.8	6.000	28.9	8.7				
27	NA D1								
	NA D2								
	NA D3					2.57	7.16	3.58	
	CLA D4	3.2	6.000	27.3	8.8			(V)	
	CLA D5	2.9	6.000	27.1	8.8				
28	NA D1								
	NA D2								
	NA D3					1.22	3.51	1.76	
	CLA D4	1.3	7.000	26.9	8.7			(V)	
	CLA D5	1.0	7.000	27.0	8.8				
29	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
30	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
31	D1								
	D2								
	D3								
	D4								
	D5								
Max						3.22	9.90		
Min						1.22	3.51		
Avg						2.52	7.39		
SD						0.79	2.45		

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

SUBMITTED BY:



Certificate No.
and Grade: W00023530, AW

Date: July 10, 2012

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: City of Wichita Falls
PWS ID No.: 2430001

PLANT NAME
OR NUMBER: Cypress 2010 (TCEQ 15134)
Month: June Year: 2012

DISINFECTION PROCESS PARAMETERS									
APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS			
Parameters	Disinfection Zones					Log Inactivations			
	D6A	D6B	D6C	D7	D8	Giardia lamblia Cysts		Virus	
Flow Rate (MGD)	36.400	6.760	8.840			0.5		2.0	
T ₁₀ (minutes)	59.2	53.0	24.3						

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
18	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
19	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
20	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
21	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
22	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
23	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
24	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
25	CLA D6A	3.1	7.784	26.2	8.6				
	CLA D6B	3.1	3.878	26.2	8.6				
	CLA D6C	3.1	2.338	26.2	8.6				
	D7								
	D8								
26	CLA D6A	3.7	11.120	26.0	8.8				
	CLA D6B	3.7	5.540	26.0	8.8				
	CLA D6C	3.7	3.340	26.0	8.8				
	D7								
	D8								
27	CLA D6A	3.8	11.120	27.2	8.8				
	CLA D6B	3.8	5.540	27.2	8.8				
	CLA D6C	3.8	3.340	27.2	8.8				
	D7								
	D8								
28	CLA D6A	3.3	13.900	28.4	8.8				
	CLA D6B	3.3	6.925	28.4	8.8				
	CLA D6C	3.3	4.175	28.4	8.8				
	D7								
	D8								
29	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
30	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
31	D6A								
	D6B								
	D6C								
	D7								
	D8								
						Max			
						Min			
						Avg			
						SD			

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

SUBMITTED BY:  Certificate No. W00023530, AW Date: July 10, 2012

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

PWS/2430001
2010
NAH

PUBLIC WATER
SYSTEM NAME: City of Wichita Falls

PLANT NAME
OR NUMBER: Cypress 2010 (TCEQ 15134)

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

PWS ID No.: 2430001
Report for
the Month of: July 2012

Operator's Signature: _____

Certificate No. & Grade: WO023530, AW

Date: August 10, 2012

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	<u>120</u>	Number of 4-hour periods when plant was off-line:	<u>66</u>
Number of readings above 0.10 NTU:	<u>50</u>	Number of 4-hour periods when plant was on-line but turbidity data was not collected:	<u>0</u>
Number of readings above 0.3 NTU:	<u>0</u>	Number of days when plant was on-line but individual filter turbidity data was not collected:	<u>0</u>
Number of readings above 0.5 NTU:	<u>0</u>	Number of days with readings above 1.0 NTU:	<u>0</u> (2)
Number of readings above 1.0 NTU:	<u>0</u>	Number of days with readings above 5.0 NTU:	<u>0</u> (3)
Maximum allowable turbidity level:	<u>0.3</u>		
Percentage of readings above this limit:	<u>0.0</u> % (1)		
Statistical Summary	Maximum turbidity reading: <u>0.14</u> NTU Minimum turbidity reading: <u>0.07</u> NTU CFE 95 th percentile value: <u>0.13</u> NTU	Average turbidity value: <u>0.10</u> NTU Standard deviation: <u>0.018</u> NTU IFE 95 th percentile: <u>0.202</u> NTU	
Number of days with a low CT for no more than 4.0 consecutive hours:	<u>0</u>	Average log inactivation for Giardia:	<u>2.62</u>
Number of days with a low CT for more than 4.0 consecutive hours:	<u>0</u> (4)	Average log inactivation for viruses:	<u>7.66</u>
		Number of days when profiling data was not collected:	<u>0</u>
		Number of days when CT data was not collected:	<u>0</u>
Minimum disinfectant residual required leaving the plant:	<u>0.5</u> mg/L, measured as Total Chlorine		
Number of days with a low residual for no more than 4.0 consecutive hours:	<u>0</u>		
Number of days with a low residual for more than 4.0 consecutive hours:	<u>0</u> (5)	Number of days when disinfectant residual leaving the plant was not properly monitored:	<u>0</u>

DISTRIBUTION SYSTEM

Minimum disinfectant residual required in distribution system:	<u>0.5</u> mg/L, measured as Total Chlorine
Total number of readings this month:	<u>117</u> (at least 100 required) (8)
Average disinfectant residual value:	<u>3.20</u>
Number of readings with a low residual:	<u>0</u>
Number of readings with no detectable residual:	<u>0</u>
Percentage of readings with a low residual this month:	<u>0.0</u> % (6A)
Percentage of readings with a low residual last month:	<u>0.0</u> % (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:

City of Wichita Falls

PLANT NAME
OR NUMBER:

Cypress 2010 (TCEQ 15134)

PWS ID No.:

2430001

Connections:

34,801

Month:

July

Year: 2012

Population:

PERFORMANCE DATA																			
Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY (Optional Data)						FINISHED WATER QUALITY						Lowest Residual	Time in	
			NTU	Alk.	Basin No.						Turbidity								
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6			
1	0.000	13.513	X	X	X							X	X	X	X	X	X	2.4	
2	0.000	17.791	X	X	X							X	X	X	X	X	X	2.7	
3	0.000	19.055	X	X	X							X	X	X	X	X	X	3.1	
4	0.000	19.110	X	X	X							X	X	X	X	X	X	2.5	
5	0.000	18.804	X	X	X							X	X	X	X	X	X	2.7	
6	0.000	21.949	X	X	X							X	X	X	X	X	X	2.7	
7	0.000	15.026	X	X	X							X	X	X	X	X	X	2.7	
8	0.000	12.999	X	X	X							X	X	X	X	X	X	2.8	
9	0.000	13.643	X	X	X							X	X	X	X	X	X	3.5	
10	0.000	16.069	X	X	X							X	X	X	X	X	X	2.7	
11	2.167	21.128	9	149								0.07	0.07	0.09	0.08	0.08	0.09	2.4	
12	3.333	19.887	20	161								0.09	0.08	0.08	0.08	0.07	0.07	2.8	
13	6.000	23.677	18	163								0.07	0.10	0.09	0.12	0.11	0.10	2.7	
14	5.879	19.786	16	153								0.11	0.10	0.09	0.10	0.09	0.10	2.9	
15	1.150	14.245	16	138								0.11	0.10	0.10	0.11	0.11	0.09	3.4	
16	0.000	16.245	X	X	X							X	X	X	X	X	X	4.0	
17	1.750	19.351	12	155								0.09	0.08	0.08	0.08	0.09	0.08	2.5	
18	5.979	20.856	9	157								0.09	0.10	0.11	0.10	0.10	0.10	1.7	
19	6.450	21.453	7	154								0.10	0.11	0.10	0.09	0.09	0.09	1.6	
20	6.879	23.021	10	156								0.08	0.09	0.10	0.10	0.10	0.11	1.3	
21	6.867	17.411	16	145								0.10	0.11	0.11	0.11	0.10	0.10	2.0	
22	4.471	15.888	17	143								0.10	0.10	0.09	0.08	0.08	0.08	3.0	
23	3.979	17.774	8	158								0.08	0.08	0.08	0.08	0.08	0.08	3.1	
24	6.100	19.991	12	149								0.07	0.07	0.08	0.09	0.08	0.09	3.1	
25	8.046	22.490	11	146								0.10	0.12	0.11	0.11	0.10	0.11	3.0	
26	8.008	21.530	9	149								0.14	0.12	0.14	0.10	0.10	0.11	3.4	
27	8.038	21.256	20	148								0.12	0.12	0.13	0.12	0.11	0.12	2.9	
28	7.983	15.588	14	133								0.13	0.13	0.13	0.13	0.13	0.12	3.1	
29	7.900	16.417	12	129								0.13	0.12	0.12	0.12	0.11	0.11	3.3	
30	7.908	18.933	15	148								0.11	0.11	0.14	0.11	0.11	0.11	3.0	
31	8.296	23.890	13	148								0.11	0.12	0.13	0.13	0.14	0.13	3.1	
Total	117.183	578.776																	
Avg	3.780	18.670																	
Max	8.296	23.890																	
Min	0.000	12.999																	
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.																			

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:



Certificate No.
and Grade:

WO0023530, AW

Date: August 10, 2012

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: City of Wichita Falls

PWS ID No.: 2430001

PLANT NAME

OR NUMBER: Cypress 2010 (TCEQ 15134)

Month:

July

Year:

2012

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	X	X	X	X	X	X	X	X	X	X										
2	X	X	X	X	X	X	X	X	X	X										
3	X	X	X	X	X	X	X	X	X	X										
4	X	X	X	X	X	X	X	X	X	X										
5	X	X	X	X	X	X	X	X	X	X										
6	X	X	X	X	X	X	X	X	X	X										
7	X	X	X	X	X	X	X	X	X	X										
8	X	X	X	X	X	X	X	X	X	X										
9	X	X	X	X	X	X	X	X	X	X										
10	X	X	X	X	X	X	X	X	X	X										
11	0.05	0.04	0.04	0.03	0.09	0.06	0.09	0.07	0.09	0.06										
12	0.07	x	0.15	x	0.07	x	0.13	x	0.07	x										
13	0.06	x	0.08	x	0.06	x	0.14	0.12	0.06	x										
14	0.22	x	0.06	x	0.07	x	0.20	0.08	0.08	x										
15	0.16	0.14	0.05	x	0.06	x	0.09	x	0.06	x										
16	X	X	X	X	X	X	X	X	X	X										
17	0.28	0.12	0.22	0.07	0.20	0.09	0.26	0.12	0.18	0.11										
18	0.20	x	0.15	x	0.12	x	0.17	x	0.11	x										
19	0.20	x	0.11	x	0.17	0.12	0.19	x	0.18	x										
20	0.22	x	0.25	x	0.20	x	0.18	x	0.24	x										
21	0.13	0.05	0.15	x	0.13	x	0.11	0.07	0.14	x										
22	0.08	0.07	0.09	x	0.22	0.08	0.07	x	0.07	0.07										
23	0.12	x	0.10	x	0.12	x	0.14	0.14	0.12	x										
24	0.19	0.15	0.18	0.13	0.18	0.13	0.20	0.14	0.20	0.14										
25	0.24	0.20	0.20	0.19	0.23	0.06	0.17	0.16	0.22	0.09										
26	0.23	0.12	0.23	0.11	0.20	0.13	0.29	0.13	0.22	0.10										
27	0.21	0.20	0.17	0.17	0.18	0.16	0.18	0.07	0.21	0.20										
28	0.15	0.12	0.16	0.13	0.16	0.13	0.18	0.16	0.17	0.13										
29	0.17	0.15	0.18	0.14	0.18	0.12	0.20	0.10	0.19	0.16										
30	0.21	0.16	0.22	0.15	0.22	0.14	0.23	0.12	0.24	0.17										
31	0.33	x	0.36	0.13	0.33	0.04	0.33	0.14	0.46	0.03										

SUMMARY & COMPLIANCE ACTIONS

Criteria	Filter No.										Plant
	1	2	3	4	5	6	7	8	9	10	
Number of days with event(s) above 0.5 NTU at 4.0 hrs this month	0	0	0	0	0						
Number of days with event(s) above 1.0 NTU this month	0	0	0	0	0						
Number of days with event(s) above 1.0 NTU last month	0	0	0	0	0						
Number of days with event(s) above 1.0 NTU two months ago	0	0	0	0	0						
Total number of days with event(s) above 1.0 NTU in three months	0	0	0	0	0						
Number of days with event(s) above 2.0 NTU this month											0
Number of days with event(s) above 2.0 NTU last month											0
Does the filter/plant have an approved Corrective Action Plan?	N	N	N	N	N						N
Is the plant required to submit a Filter Profile Report?	N	N	N	N	N						
Is the plant required to submit a Filter Assessment Report?	N	N	N	N	N						
Is the plant required to submit a Request for Compliance CPE?											N

SUBMITTED BY:



Certificate No.

and Grade:

WO0023530, AW

Date:

August 10, 2012

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: City of Wichita Falls
PWS ID No.: 2430001

PLANT NAME
OR NUMBER: Cypress 2010 (TCEQ 15134)
Month: July Year: 2012

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS					PERFORMANCE STANDARDS		
Parameters	Disinfection Zones					Log Inactivations	
	D6A	D6B	D6C	D7	D8	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	36.400	6.760	8.840			0.5	2.0
T ₁₀ (minutes)	59.2	53.0	24.3				

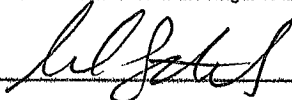
PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	CLA D6A	2.8	13.344	28.5	9.1				
	CLA D6B	2.8	6.648	28.5	9.1				
	CLA D6C	2.8	4.008	28.5	9.1				
	D7								
	D8								
18	CLA D6A	2.1	13.344	28.9	9.1				
	CLA D6B	2.1	6.648	28.9	9.1				
	CLA D6C	2.1	4.008	28.9	9.1				
	D7								
	D8								
19	CLA D6A	1.9	13.344	30.5	9.0				
	CLA D6B	1.9	6.648	30.5	9.0				
	CLA D6C	1.9	4.008	30.5	9.0				
	D7								
	D8								
20	CLA D6A	1.7	13.900	30.0	8.7				
	CLA D6B	1.7	6.925	30.0	8.7				
	CLA D6C	1.7	4.175	30.0	8.7				
	D7								
	D8								
21	CLA D6A	2.2	12.788	29.7	8.8				
	CLA D6B	2.2	6.371	29.7	8.8				
	CLA D6C	2.2	3.841	29.7	8.8				
	D7								
	D8								
22	CLA D6A	2.9	9.452	29.6	8.7				
	CLA D6B	2.9	4.709	29.6	8.7				
	CLA D6C	2.9	2.839	29.6	8.7				
	D7								
	D8								
23	CLA D6A	3.5	10.008	26.5	8.8				
	CLA D6B	3.5	4.986	26.5	8.8				
	CLA D6C	3.5	3.006	26.5	8.8				
	D7								
	D8								
24	CLA D6A	3.9	13.344	29.8	8.8				
	CLA D6B	3.9	6.648	29.8	8.8				
	CLA D6C	3.9	4.008	29.8	8.8				
	D7								
	D8								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
25	CLA D6A	3.6	14.456	29.4	8.9				
	CLA D6B	3.6	7.202	29.4	8.9				
	CLA D6C	3.6	4.342	29.4	8.9				
	D7								
	D8								
26	CLA D6A	3.6	14.456	29.4	9.0				
	CLA D6B	3.6	7.202	29.4	9.0				
	CLA D6C	3.6	4.342	29.4	9.0				
	D7								
	D8								
27	CLA D6A	3.6	14.122	29.5	8.9				
	CLA D6B	3.6	7.036	29.5	8.9				
	CLA D6C	3.6	4.242	29.5	8.9				
	D7								
	D8								
28	CLA D6A	3.5	11.120	27.9	9.1				
	CLA D6B	3.5	5.540	27.9	9.1				
	CLA D6C	3.5	3.340	27.9	9.1				
	D7								
	D8								
29	CLA D6A	3.7	8.896	27.6	8.8				
	CLA D6B	3.7	4.432	27.6	8.8				
	CLA D6C	3.7	2.672	27.6	8.8				
	D7								
	D8								
30	CLA D6A	3.3	11.120	31.2	8.6				
	CLA D6B	3.3	5.540	31.2	8.6				
	CLA D6C	3.3	3.340	31.2	8.6				
	D7								
	D8								
31	CLA D6A	3.5	14.122	28.4	9.0				
	CLA D6B	3.5	7.036	28.4	9.0				
	CLA D6C	3.5	4.242	28.4	9.0				
	D7								
	D8								

Max
Min
Avg
SD

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

SUBMITTED BY:



Certificate No.
and Grade: WO0023530, AW

Date: August 10, 2012

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: City of Wichita Falls
PWS ID No.: 2430001

PLANT NAME
OR NUMBER: Cypress 2010 (TCEQ 15134)
Month: July Year: 2012

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS					PERFORMANCE STANDARDS		
Parameters	Disinfection Zones					Log Inactivations	
	D1	D2	D3	D4	D5	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	42.000	42.000	42.000	10.000	20.000	0.5	2.0
T ₁₀ (minutes)	1.0	1.2	13.8	70.1	3.9		

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	NA D1								
	NA D2								
	NA D3					2.38	7.17	3.58	
	CLA D4	3.6	6.000	28.3	8.8			(V)	
	CLA D5	2.7	6.000	29.4	8.6				
18	NA D1								
	NA D2								
	NA D3					1.90	5.61	2.80	
	CLA D4	2.9	6.000	27.8	8.9			(V)	
	CLA D5	2.6	6.000	28.1	8.6				
19	NA D1								
	NA D2								
	NA D3					1.22	4.19	2.10	
	CLA D4	1.6	6.000	30.2	8.9			(V)	
	CLA D5	1.7	6.000	30.3	8.9				
20	NA D1								
	NA D2								
	NA D3					1.68	4.64	2.32	
	CLA D4	3.1	7.000	26.3	9.0			(V)	
	CLA D5	2.8	7.000	26.2	8.1				
21	NA D1								
	NA D2								
	NA D3					2.67	7.64	3.82	
	CLA D4	5.1	7.000	27.1	8.9			(V)	
	CLA D5	4.3	7.000	27.7	8.5				
22	NA D1								
	NA D2								
	NA D3					2.93	9.49	4.75	
	CLA D4	4.8	7.000	29.4	8.8			(V)	
	CLA D5	4.3	7.000	28.9	8.4				
23	NA D1								
	NA D2								
	NA D3					3.05	8.06	4.03	
	CLA D4	4.1	6.000	26.5	9.0			(V)	
	CLA D5	3.7	6.000	26.9	8.7				
24	NA D1								
	NA D2								
	NA D3					2.53	8.52	4.26	
	CLA D4	4.5	8.000	30.1	9.2			(V)	
	CLA D5	4.3	8.000	30.1	9.0				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
25	NA D1								
	NA D2								
	NA D3					2.15	6.22	3.11	
	CLA D4	4.0	8.000	26.9	9.2			(V)	
	CLA D5	2.0	8.000	28.8	8.6				
26	NA D1								
	NA D2								
	NA D3					2.64	8.02	4.01	
	CLA D4	5.4	8.000	28.2	9.1			(V)	
	CLA D5	3.3	12.000	28.4	8.5				
27	NA D1								
	NA D2								
	NA D3					2.53	7.35	3.68	
	CLA D4	5.0	8.000	27.2	9.1			(V)	
	CLA D5	3.6	11.400	27.0	8.5				
28	NA D1								
	NA D2								
	NA D3					2.84	8.06	4.03	
	CLA D4	5.4	8.000	27.4	9.1			(V)	
	CLA D5	3.8	12.000	27.3	8.5				
29	NA D1								
	NA D2								
	NA D3					3.37	9.56	4.78	
	CLA D4	6.1	8.000	27.5	8.9			(V)	
	CLA D5	4.1	12.000	27.6	8.2				
30	NA D1								
	NA D2								
	NA D3					2.75	8.45	4.23	
	CLA D4	5.3	8.000	27.4	9.1			(V)	
	CLA D5	3.9	12.000	27.7	8.3				
31	NA D1								
	NA D2								
	NA D3					2.45	7.57	3.79	
	CLA D4	6.1	10.000	28.9	9.3			(V)	
	CLA D5	3.4	13.400	29.3	8.9				
						Max	5.08	13.08	
						Min	1.22	4.19	
						Avg	2.62	7.66	
						SD	0.74	1.90	

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

SUBMITTED BY: 

Certificate No. and Grade: WO0023530, AW

Date: August 10, 2012

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: City of Wichita Falls

PWS ID No.: 2430001

PLANT NAME

OR NUMBER: Cypress 2010 (TCEQ 16134)

Month: July

Year: 2012

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS					PERFORMANCE STANDARDS		
Parameters	Disinfection Zones					Log Inactivations	
	D6A	D6B	D6C	D7	D8	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	36.400	6.760	8.840			0.5	2.0
T ₁₀ (minutes)	59.2	53.0	24.3				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
2	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
3	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
4	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
5	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
6	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
7	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
8	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
10	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
11	CLA D6A	3.3	10.008	28.4	8.4				
	CLA D6B	3.3	4.966	28.4	8.4				
	CLA D6C	3.3	3.006	28.4	8.4				
	D7								
	D8								
12	CLA D6A	2.3	11.120	27.3	8.8				
	CLA D6B	2.3	5.540	27.3	8.8				
	CLA D6C	2.3	3.340	27.3	8.8				
	D7								
	D8								
13	CLA D6A	2.9	12.232	28.5	8.3				
	CLA D6B	2.9	6.094	28.5	8.3				
	CLA D6C	2.9	3.674	28.5	8.3				
	D7								
	D8								
14	CLA D6A	3.2	11.120	28.7	8.4				
	CLA D6B	3.2	5.540	28.7	8.4				
	CLA D6C	3.2	3.340	28.7	8.4				
	D7								
	D8								
15	CLA D6A	4.1	8.896	28.8	9.1				
	CLA D6B	4.1	4.432	28.8	9.1				
	CLA D6C	4.1	2.672	28.8	9.1				
	D7								
	D8								
16	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								

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

SUBMITTED BY:



Certificate No.

and Grade: WO0023530, AW

Date: August 10, 2012

TCEQ - 0102C (11-10-09)

PAGE 4 - Addendum

SWMOR

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: City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress 2010 (TCEQ 15134)

PWS ID No.: 2430001

Month:

July

Year:

2012

DISINFECTION PROCESS PARAMETERS									
APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS			
Parameters	Disinfection Zones					Log Inactivations			
	D1	D2	D3	D4	D5	Giardia lamblia Cysts		Viruses	
Flow Rate (MGD)	42.000	42.000	42.000	10.000	20.000	0.5		2.0	
T ₁₀ (minutes)	1.0	1.2	13.8	70.1	3.9				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
2	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
3	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
4	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
5	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
6	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
7	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
8	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
10	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
11	NA D1								
	NA D2								
	NA D3					2.81	8.41	4.20	
	CLA D4	2.5	4.000	28.2	9.0			(M)	
	CLA D5	2.2	4.000	28.6	8.3				
12	NA D1								
	NA D2								
	NA D3					2.12	5.94	2.97	
	CLA D4	3.1	6.000	27.4	9.0			(M)	
	CLA D5	2.3	6.000	27.3	8.8				
13	NA D1								
	NA D2								
	NA D3					2.31	6.46	3.23	
	CLA D4	3.3	6.000	26.8	8.8			(M)	
	CLA D5	2.7	6.000	26.7	8.7				
14	NA D1								
	NA D2								
	NA D3					2.99	8.67	4.33	
	CLA D4	4.3	6.000	27.5	8.8			(M)	
	CLA D5	4.2	6.000	27.5	8.8				
15	NA D1								
	NA D2								
	NA D3					5.06	13.08	6.54	
	CLA D4	5.3	4.000	24.4	8.8			(M)	
	CLA D5	4.4	4.000	24.3	8.6				
16	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								

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

SUBMITTED BY:



Certificate No.

and Grade: WO0023530, AW

Date: August 10, 2012

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

PWS/2430001/MR
Not listed
22

PUBLIC WATER SYSTEM NAME: City of Wichita Falls PLANT NAME OR NUMBER: Cypress 2010 (TCEQ 15134)
PWS ID No.: 2430001 Operator's Signature: [Signature]
Report for the Month of: August 2012 Certificate No. & Grade: WO0023530, AW Date: September 10, 2012

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.

TREATMENT PLANT PERFORMANCE			
Total number of turbidity readings:	186	Number of 4-hour periods when plant was off-line:	0
Number of readings above 0.10 NTU:	105	Number of 4-hour periods when plant was on-line but turbidity data was not collected:	0
Number of readings above 0.3 NTU:	0	Number of days when plant was on-line but individual filter turbidity data was not collected:	0
Number of readings above 0.5 NTU:	0	Number of days with readings above 1.0 NTU:	0 (2)
Number of readings above 1.0 NTU:	0	Number of days with readings above 5.0 NTU:	0 (3)
Maximum allowable turbidity level:	0.3		
Percentage of readings above this limit:	0.0 % (1)		
Statistical Summary	Maximum turbidity reading: 0.18 NTU Minimum turbidity reading: 0.08 NTU CFE 95 th percentile value: 0.14 NTU	Average turbidity value: 0.11 NTU Standard deviation: 0.018 NTU IFE 95 th percentile: 0.260 NTU	
Number of days with a low CT for no more than 4.0 consecutive hours:	0	Average log inactivation for Giardia:	3.17
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Average log inactivation for viruses:	8.76
		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:	112 (at least 100 required) (8)
Average disinfectant residual value:	3.10
Percentage of readings with a low residual this month:	0.0 % (6A)
Number of readings with a low residual:	0
Percentage of readings with a low residual last month:	0.0 % (6B)
Number of readings with no detectable residual:	0

ADDITIONAL REPORTS & WORKSHEETS	
The Page 1 Addendum (Public Notices) is 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

2012 SEP 14 PM 3 03

WATER SUPPLY DIV.
TCEQ
RECEIVED

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:

City of Wichita Falls

PLANT NAME
OR NUMBER:

Cypress 2010 (TCEQ 15134)

PWS ID No.:

2430001

Connections:

34,718

Month:

August

Year: 2012

Population:

PERFORMANCE DATA																		
Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY (Optional Data)						FINISHED WATER QUALITY							
			NTU	Alk.	Basin No.						Turbidity						Lowest Residual	Time in
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6		
1	9.971	26.039	9	150							0.15	0.12	0.15	0.12	0.11	0.12	3.0	
2	10.008	25.327	12	156							0.12	0.12	0.13	0.11	0.11	0.11	3.9	
3	9.938	21.899	11	154							0.12	0.12	0.11	0.11	0.14	0.14	3.4	
4	10.058	17.191	14	139							0.14	0.14	0.14	0.13	0.14	0.10	3.4	
5	7.700	17.219	14	146							0.12	0.10	0.11	0.11	0.11	0.11	3.3	
6	7.188	17.815	9	150							0.12	0.11	0.11	0.11	0.09	0.10	2.9	
7	9.971	17.430	19	149							0.10	0.10	0.10	0.09	0.10	0.10	3.2	
8	10.142	20.178	11	150							0.11	0.12	0.13	0.12	0.11	0.11	3.4	
9	10.000	20.966	10	150							0.12	0.13	0.13	0.12	0.11	0.11	3.5	
10	10.004	21.671	10	160							0.10	0.11	0.12	0.13	0.10	0.10	3.2	
11	10.033	16.987	16	147							0.10	0.10	0.09	0.09	0.09	0.08	3.4	
12	10.221	16.343	18	148							0.09	0.10	0.08	0.09	0.08	0.09	3.4	
13	10.250	18.079	14	160							0.10	0.10	0.10	0.11	0.10	0.10	3.3	
14	10.083	15.212	17	154							0.11	0.10	0.12	0.11	0.09	0.10	3.4	
15	9.067	14.759	15	161							0.11	0.10	0.10	0.12	0.11	0.10	3.2	
16	6.042	17.653	16	160							0.09	0.10	0.11	0.11	0.10	0.10	2.6	
17	5.917	11.969	18	153							0.12	0.10	0.11	0.10	0.09	0.09	2.5	
18	5.896	10.702	19	146							0.09	0.09	0.10	0.11	0.10	0.10	2.4	
19	5.983	7.499	21	157							0.10	0.10	0.10	0.09	0.09	0.09	2.8	
20	5.988	11.313	31	155							0.10	0.10	0.10	0.10	0.18	0.10	2.7	
21	6.079	8.719	27	158							0.10	0.10	0.10	0.09	0.10	0.10	2.7	
22	7.550	13.884	32	154							0.09	0.10	0.11	0.12	0.11	0.11	3.1	
23	9.863	17.920	29	156							0.11	0.15	0.13	0.15	0.12	0.13	3.1	
24	8.888	16.713	24	159							0.13	0.16	0.14	0.13	0.15	0.13	3.3	
25	5.917	10.485	28	161							0.14	0.13	0.14	0.14	0.14	0.13	3.2	
26	6.063	7.701	23	141							0.13	0.13	0.14	0.13	0.13	0.14	3.2	
27	6.175	8.439	33	162							0.13	0.13	0.13	0.11	0.12	0.11	3.5	
28	7.917	12.427	28	156							0.12	0.11	0.10	0.10	0.12	0.11	3.5	
29	9.971	14.474	27	167							0.13	0.14	0.14	0.10	0.10	0.10	2.7	
30	9.871	16.468	29	155							0.10	0.09	0.10	0.09	0.18	0.12	3.3	
31	6.896	16.177	28	160							0.10	0.10	0.11	0.10	0.10	0.11	3.1	
Total	259.650	489.658	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.															
Avg	8.376	15.795																
Max	10.250	26.039																
Min	5.896	7.499																

NOTE: ONLY use the "Time in" column to show the length of time that the disinfectant residual entering the distribution system fell below the acceptable level.

SUBMITTED BY:



Certificate No.
and Grade:

WO0023530, AW

Date: September 10, 2012

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: City of Wichita Falls

PWS ID No.: 2430001

PLANT NAME
OR NUMBER: Cypress 2010 (TCEQ 15134)

Month: August Year: 2012

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		
1	0.18	0.14	0.17	0.13	0.22	0.10	0.18	0.15	0.17	0.14										
2	0.18	0.16	0.17	0.15	0.23	0.20	0.16	0.14	0.17	0.15										
3	0.26	0.17	0.23	0.15	0.25	0.09	0.21	0.13	0.23	0.14										
4	0.09	0.09	0.13	0.11	0.12	0.11	0.15	0.13	0.09	0.09										
5	0.11	0.08	0.12	0.06	0.14	0.10	0.15	0.08	0.11	0.08										
6	0.11	0.05	0.05	0.04	0.13	0.10	0.07	0.06	0.13	0.10										
7	0.11	0.10	0.12	0.10	0.13	0.11	0.14	0.10	0.12	0.10										
8	0.16	0.14	0.11	0.10	0.17	0.15	0.13	0.12	0.12	0.11										
9	0.13	0.12	0.10	0.08	0.14	0.12	0.11	0.10	0.10	0.09										
10	0.07	0.06	0.09	0.07	0.09	0.08	0.07	0.06	0.11	0.07										
11	0.13	x	0.15	0.06	0.26	0.05	0.07	0.05	0.18	0.04										
12	0.08	0.06	0.16	0.05	0.09	0.09	0.09	0.05	0.10	0.10										
13	0.19	0.08	0.13	0.06	0.21	0.10	0.13	0.06	0.29	0.10										
14	0.28	0.05	0.22	0.04	0.26	0.07	0.35	0.06	0.28	0.05										
15	0.15	0.07	0.11	0.04	0.14	0.05	0.15	0.05	0.09	0.05										
16	0.12	0.11	0.09	x	0.11	0.10	0.13	0.10	0.13	0.12										
17	0.12	0.07	0.09	0.04	0.10	0.06	0.10	0.06	0.13	0.04										
18	0.07	0.04	0.08	0.05	0.11	0.06	0.11	0.05	0.08	0.04										
19	0.13	0.07	0.10	0.05	0.12	0.06	0.12	0.06	0.14	0.06										
20	0.10	0.07	0.11	0.08	0.16	x	0.12	x	0.11	0.07										
21	0.07	0.04	0.17	0.05	0.20	0.18	0.18	0.17	0.07	0.03										
22	0.22	0.10	0.28	0.14	0.26	0.11	0.26	0.10	0.25	0.13										
23	0.16	0.15	0.16	0.16	0.16	0.15	0.19	0.12	0.17	0.16										
24	0.17	0.11	0.17	x	0.23	0.15	0.22	0.14	0.19	x										
25	0.14	0.14	0.16	0.12	0.15	0.12	0.15	0.10	0.18	0.12										
26	0.17	0.12	0.16	0.04	x	x	x	x	0.14	0.05										
27	0.10	0.03	0.11	0.03	x	x	x	x	0.11	0.03										
28	0.11	0.09	0.11	0.09	0.19	0.10	0.12	0.09	0.10	0.08										
29	0.10	0.09	0.09	0.08	0.10	0.08	0.10	0.09	0.13	0.11										
30	0.35	0.05	0.18	0.04	0.20	0.04	0.21	0.05	0.19	0.04										
31	0.09	0.09	0.12	0.11	0.20	0.15	0.10	0.09	0.10	0.10										

SUMMARY & COMPLIANCE ACTIONS	Criteria	Filter No.										Plant
		1	2	3	4	5	6	7	8	9	10	
	Number of days with event(s) above 0.5 NTU at 4.0 hrs this month	0	0	0	0	0						
	Number of days with event(s) above 1.0 NTU this month	0	0	0	0	0						
	Number of days with event(s) above 1.0 NTU last month	0	0	0	0	0						
	Number of days with event(s) above 1.0 NTU two months ago	0	0	0	0	0						
	Total number of days with event(s) above 1.0 NTU in three months	0	0	0	0	0						
	Number of days with event(s) above 2.0 NTU this month											0
	Number of days with event(s) above 2.0 NTU last month											0
	Does the filter/plant have an approved Corrective Action Plan?	N	N	N	N	N						N
	Is the plant required to submit a Filter Profile Report?	N	N	N	N	N						
	Is the plant required to submit a Filter Assessment Report?	N	N	N	N	N						
	Is the plant required to submit a Request for Compliance CPE?											N

SUBMITTED BY:

Certificate No. and Grade: WO0023530, AW Date: September 10, 2012

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:

City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress 2010 (TCEQ 15134)

PWS ID No.:

2430001

Month:

August

Year:

2012

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
Parameters	Disinfection Zones					Log Inactivations	
	D6A	D6B	D6C	D7	D8	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	36.400	6.760	8.840			0.5	2.0
T ₁₀ (minutes)	59.2	53.0	24.3				

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time ₁₀
17	CLA D6A	3.3	7.784	28.8	8.7				
	CLA D6B	3.3	3.787	28.8	8.7				
	CLA D6C	3.3	2.338	28.8	8.7				
	D7								
	D8								
18	CLA D6A	2.8	7.228	28.3	8.7				
	CLA D6B	2.8	3.601	28.3	8.7				
	CLA D6C	2.8	2.171	28.3	8.7				
	D7								
	D8								
19	CLA D6A	3.2	6.505	24.8	8.7				
	CLA D6B	3.2	3.421	24.8	8.7				
	CLA D6C	3.2	1.954	24.8	8.7				
	D7								
	D8								
20	CLA D6A	3.6	4.281	26.6	8.9				
	CLA D6B	3.6	2.133	26.6	8.9				
	CLA D6C	3.6	1.286	26.6	8.9				
	D7								
	D8								
21	CLA D6A	3.2	4.448	27.9	8.8				
	CLA D6B	3.2	2.216	27.9	8.8				
	CLA D6C	3.2	1.336	27.9	8.8				
	D7								
	D8								
22	CLA D6A	3.5	11.676	27.9	8.8				
	CLA D6B	3.5	5.817	27.9	8.8				
	CLA D6C	3.5	3.507	27.9	8.8				
	D7								
	D8								
23	CLA D6A	3.6	12.232	27.9	9.0				
	CLA D6B	3.6	6.094	27.9	9.0				
	CLA D6C	3.6	3.674	27.9	9.0				
	D7								
	D8								
24	CLA D6A	3.4	12.232	27.8	8.9				
	CLA D6B	3.4	6.094	27.8	8.9				
	CLA D6C	3.4	3.674	27.8	8.9				
	D7								
	D8								

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time ₁₀
25	CLA D6A	4.3	4.448	27.5	8.9				
	CLA D6B	4.3	2.216	27.5	8.9				
	CLA D6C	4.3	1.336	27.5	8.9				
	D7								
	D8								
26	CLA D6A	3.4	4.281	26.5	8.7				
	CLA D6B	3.4	2.133	26.5	8.7				
	CLA D6C	3.4	1.286	26.5	8.7				
	D7								
	D8								
27	CLA D6A	3.7	4.281	26.2	8.7				
	CLA D6B	3.7	2.133	26.2	8.7				
	CLA D6C	3.7	1.286	26.2	8.7				
	D7								
	D8								
28	CLA D6A	3.6	7.784	27.9	8.7				
	CLA D6B	3.6	3.878	27.9	8.7				
	CLA D6C	3.6	2.338	27.9	8.7				
	D7								
	D8								
29	CLA D6A	3.8	9.452	28.0	8.9				
	CLA D6B	3.8	4.709	28.0	8.9				
	CLA D6C	3.8	2.639	28.0	8.9				
	D7								
	D8								
30	CLA D6A	4.2	10.008	27.7	8.7				
	CLA D6B	4.2	4.986	27.7	8.7				
	CLA D6C	4.2	3.006	27.7	8.7				
	D7								
	D8								
31	CLA D6A	3.2	10.008	27.5	8.7				
	CLA D6B	3.2	4.986	27.5	8.7				
	CLA D6C	3.2	3.006	27.5	8.7				
	D7								
	D8								

Max

Min

Avg

SD

NOTE: = ONLY use the "Time₁₀" column to show the length of time that the total inactivation ratio was less than 1.00.

SUBMITTED BY:

Certificate No.

and Grade: WO0023630, AW

Date: September 10, 2012

TCEQ - 0102G (11-10-09)

PAGE 5 - Addendum

SWMOR

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:

City of Wichita Falls

PLANT NAME
OR NUMBER:

Cypress 2010 (TCEQ 15134)

PWS ID No.:

2430001

Month:

August

Year:

2012

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
Parameters	Disinfection Zones					Log Inactivations	
	D1	D2	D3	D4	D5	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	42.000	42.000	42.000	10.000	20.000	0.5	2.0
T ₁₀ (minutes)	1.0	1.2	13.8	70.1	3.9		

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time (min)
17	NA D1								
	NA D2								
	NA D3					3.31	9.71	4.86	
	CLA D4	4.4	6.000	27.6	9.0			(V)	
	CLA D5	3.5	10.000	26.4	8.6				
18	NA D1								
	NA D2								
	NA D3					3.84	10.22	5.11	
	CLA D4	5.8	6.000	25.9	9.2			(V)	
	CLA D5	2.7	9.000	25.9	8.8				
19	NA D1								
	NA D2								
	NA D3					4.68	11.32	5.66	
	CLA D4	6.9	6.000	25.3	9.1			(V)	
	CLA D5	5.8	7.700	25.1	8.9				
20	NA D1								
	NA D2								
	NA D3					4.60	11.76	5.88	
	CLA D4	4.6	6.000	25.4	9.1			(V)	
	CLA D5	3.4	7.700	25.4	8.6				
21	NA D1								
	NA D2								
	NA D3					4.37	11.54	5.77	
	CLA D4	5.1	6.000	24.4	9.0			(V)	
	CLA D5	3.7	8.000	24.8	8.7				
22	NA D1								
	NA D2								
	NA D3					2.38	6.30	3.15	
	CLA D4	5.3	10.000	25.7	9.2			(V)	
	CLA D5	3.6	13.000	26.0	8.7				
23	NA D1								
	NA D2								
	NA D3					2.44	6.42	3.21	
	CLA D4	5.6	10.000	25.7	9.1			(V)	
	CLA D5	3.3	14.000	25.3	8.8				
24	NA D1								
	NA D2								
	NA D3					2.34	6.07	3.03	
	CLA D4	5.4	10.000	25.4	9.0			(V)	
	CLA D5	3.4	14.000	25.5	9.1				

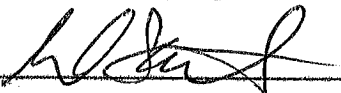
PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time (min)
25	NA D1								
	NA D2								
	NA D3					5.29	14.31	7.16	
	CLA D4	5.2	6.000	26.1	9.0			(V)	
	CLA D5	5.2	8.000	26.3	8.9				
26	NA D1								
	NA D2								
	NA D3					4.44	11.39	5.70	
	CLA D4	4.5	6.000	25.6	9.0			(V)	
	CLA D5	3.8	7.700	26.3	8.7				
27	NA D1								
	NA D2								
	NA D3					5.37	13.69	6.85	
	CLA D4	6.0	6.000	25.8	9.0			(V)	
	CLA D5	5.0	7.700	26.0	8.8				
28	NA D1								
	NA D2								
	NA D3					3.10	8.39	4.20	
	CLA D4	6.2	10.000	26.0	9.1			(V)	
	CLA D5	4.4	14.000	27.4	8.9				
29	NA D1								
	NA D2								
	NA D3					3.19	8.41	4.20	
	CLA D4	6.4	9.000	25.6	9.1			(V)	
	CLA D5	4.6	13.000	24.8	8.7				
30	NA D1								
	NA D2								
	NA D3					2.89	7.56	3.78	
	CLA D4	5.9	10.000	25.4	9.1			(V)	
	CLA D5	4.0	14.000	25.0	8.7				
31	NA D1								
	NA D2								
	NA D3					2.25	6.25	3.13	
	CLA D4	4.7	10.000	27.1	9.1			(V)	
	CLA D5	2.6	14.000	27.2	8.8				

Max	5.37	14.31
Min	1.39	4.17
Avg	3.17	8.76
SD	0.93	2.22

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

SUBMITTED BY:



Certificate No.

and Grade:

WO0023530, AW

Date:

September 10, 2012

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: City of Wichita Falls

PLANT NAME
OR NUMBER: Cypress 2010 (TCEQ 15134)

PWS ID No.: 2430001

Month: August Year: 2012

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
Parameters	Disinfection Zones					Log Inactivations	
	D6A	D6B	D6C	D7	D8	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	36.400	6.760	8.840			0.5	2.0
T ₁₀ (minutes)	59.2	53.0	24.3				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	CLA D6A	3.2	16.346	29.9	9.1				
	CLA D6B	3.2	8.144	29.9	9.1				
	CLA D6C	3.2	4.910	29.9	9.1				
	D7								
	D8								
2	CLA D6A	3.9	13.344	30.2	8.9				
	CLA D6B	3.9	6.648	30.2	8.9				
	CLA D6C	3.9	4.008	30.2	8.9				
	D7								
	D8								
3	CLA D6A	4.2	13.344	30.6	9.0				
	CLA D6B	4.2	6.648	30.6	9.0				
	CLA D6C	4.2	4.008	30.6	9.0				
	D7								
	D8								
4	CLA D6A	3.9	9.674	27.4	8.9				
	CLA D6B	3.9	4.820	27.4	8.9				
	CLA D6C	3.9	2.906	27.4	8.9				
	D7								
	D8								
5	CLA D6A	3.7	9.674	28.3	8.7				
	CLA D6B	3.7	4.820	28.3	8.7				
	CLA D6C	3.7	2.906	28.3	8.7				
	D7								
	D8								
6	CLA D6A	3.3	10.008	28.4	8.7				
	CLA D6B	3.3	4.986	28.4	8.7				
	CLA D6C	3.3	3.006	28.4	8.7				
	D7								
	D8								
7	CLA D6A	3.6	8.396	28.8	8.8				
	CLA D6B	3.6	4.183	28.8	8.8				
	CLA D6C	3.6	2.522	28.8	8.8				
	D7								
	D8								
8	CLA D6A	3.9	10.564	29.1	8.5				
	CLA D6B	3.9	5.263	29.1	8.5				
	CLA D6C	3.9	3.173	29.1	8.5				
	D7								
	D8								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	CLA D6A	3.8	12.232	30.4	8.6				
	CLA D6B	3.8	6.094	30.4	8.6				
	CLA D6C	3.8	3.674	30.4	8.6				
	D7								
	D8								
10	CLA D6A	3.6	12.232	30.0	8.6				
	CLA D6B	3.6	6.094	30.0	8.6				
	CLA D6C	3.6	3.674	30.0	8.6				
	D7								
	D8								
11	CLA D6A	3.5	11.898	29.7	8.8				
	CLA D6B	3.5	5.928	29.7	8.8				
	CLA D6C	3.5	3.574	29.7	8.8				
	D7								
	D8								
12	CLA D6A	4.1	9.452	27.1	8.6				
	CLA D6B	4.1	4.709	27.1	8.6				
	CLA D6C	4.1	2.839	27.1	8.6				
	D7								
	D8								
13	CLA D6A	3.5	8.729	27.9	8.9				
	CLA D6B	3.5	4.349	27.9	8.9				
	CLA D6C	3.5	2.622	27.9	8.9				
	D7								
	D8								
14	CLA D6A	3.5	7.450	26.1	8.8				
	CLA D6B	3.5	3.712	26.1	8.8				
	CLA D6C	3.5	2.238	26.1	8.8				
	D7								
	D8								
15	CLA D6A	4.0	10.008	28.7	8.6				
	CLA D6B	4.0	4.986	28.7	8.6				
	CLA D6C	4.0	3.006	28.7	8.6				
	D7								
	D8								
16	CLA D6A	2.9	7.228	28.7	8.7				
	CLA D6B	2.9	3.601	28.7	8.7				
	CLA D6C	2.9	2.171	28.7	8.7				
	D7								
	D8								

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

SUBMITTED BY:



Certificate No.
and Grade: WO0023530, AW

Date: September 10, 2012

TCEQ - 0102C (11-10-09)

PAGE 4 - Addendum

SWMOR

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:

City of Wichita Falls

PLANT NAME
OR NUMBER:

Cypress 2010 (TCEQ 15134)

PWS ID No.:

2430001

Month:

August

Year:

2012

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
Parameters	Disinfection Zones					Log Inactivations	
	D1	D2	D3	D4	D5	Giardia lamblia Cysts	Viruses
Flow Rate (MGD)	42.000	42.000	42.000	10.000	20.000	0.5	2.0
T ₁₀ (minutes)	1.0	1.2	13.8	70.1	3.9		

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D1								
	NA D2								
	NA D3					1.39	4.17	2.09	
	CLA D4	2.7	10.000	27.3	9.2			(V)	
	CLA D5	4.3	13.400	26.9	9.3				
2	NA D1								
	NA D2								
	NA D3					2.48	7.65	3.83	
	CLA D4	5.7	10.000	27.8	9.2			(V)	
	CLA D5	4.4	14.000	30.1	8.5				
3	NA D1								
	NA D2								
	NA D3					2.54	7.69	3.85	
	CLA D4	5.7	10.000	27.2	9.2			(V)	
	CLA D5	4.2	14.000	27.0	8.5				
4	NA D1								
	NA D2								
	NA D3					2.82	8.23	4.12	
	CLA D4	5.8	10.000	28.3	9.1			(V)	
	CLA D5	4.1	13.400	28.4	8.6				
5	NA D1								
	NA D2								
	NA D3					2.74	8.26	4.13	
	CLA D4	5.7	10.000	28.5	9.1			(V)	
	CLA D5	4.3	13.400	28.5	8.5				
6	NA D1								
	NA D2								
	NA D3					2.73	8.26	4.13	
	CLA D4	6.2	10.000	28.5	9.3			(V)	
	CLA D5	4.5	14.000	28.7	8.8				
7	NA D1								
	NA D2								
	NA D3					3.27	10.65	5.33	
	CLA D4	7.2	10.000	29.9	9.1			(V)	
	CLA D5	4.6	15.100	29.8	8.7				
8	NA D1								
	NA D2								
	NA D3					2.93	9.10	4.55	
	CLA D4	6.5	10.000	28.7	9.2			(V)	
	CLA D5	4.5	13.000	28.7	8.1				

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	NA D1								
	NA D2								
	NA D3					2.46	7.61	3.80	
	CLA D4	5.5	10.000	27.8	9.1			(V)	
	CLA D5	3.7	14.000	27.2	8.7				
10	NA D1								
	NA D2								
	NA D3					2.63	7.90	3.95	
	CLA D4	6.2	10.000	27.6	9.1			(V)	
	CLA D5	4.5	14.000	26.9	8.6				
11	NA D1								
	NA D2								
	NA D3					2.61	7.37	3.89	
	CLA D4	6.2	10.000	26.3	9.0			(V)	
	CLA D5	3.5	13.400	26.7	8.5				
12	NA D1								
	NA D2								
	NA D3					3.10	8.49	4.24	
	CLA D4	6.4	10.000	27.0	9.1			(V)	
	CLA D5	5.1	13.000	27.0	8.5				
13	NA D1								
	NA D2								
	NA D3					2.52	7.09	3.54	
	CLA D4	4.7	10.000	27.0	9.1			(V)	
	CLA D5	3.9	11.700	27.2	8.9				
14	NA D1								
	NA D2								
	NA D3					3.09	7.81	3.91	
	CLA D4	6.1	10.000	25.7	9.0			(V)	
	CLA D5	4.1	13.400	25.9	8.9				
15	NA D1								
	NA D2								
	NA D3					2.76	7.80	3.90	
	CLA D4	5.6	10.000	26.5	9.0			(V)	
	CLA D5	4.6	14.000	27.5	8.6				
16	NA D1								
	NA D2								
	NA D3					3.76	10.05	5.03	
	CLA D4	5.5	6.000	25.7	9.1			(V)	
	CLA D5	3.5	9.000	25.6	8.4				

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

SUBMITTED BY:



Certificate No.
and Grade:

WC0023530, AW

Date:

September 10, 2012

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

Not listed?

PUBLIC WATER

SYSTEM NAME: City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress 2010 (TCEQ 15134)

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

PWS ID No.: 2430001

Operator's Signature: _____

Report for the Month of: September 2012

Certificate No. & Grade: WO0023530, AW

Date: October 10, 2012

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	162	Number of 4-hour periods when plant was off-line:	18
Number of readings above 0.10 NTU:	78	Number of 4-hour periods when plant was on-line but turbidity data was not collected:	0
Number of readings above 0.3 NTU:	0	Number of days when plant was on-line but individual filter turbidity data was not collected:	0
Number of readings above 0.5 NTU:	0	Number of days with readings above 1.0 NTU:	0 (2)
Number of readings above 1.0 NTU:	0	Number of days with readings above 5.0 NTU:	0 (3)
Maximum allowable turbidity level:	0.3		
Percentage of readings above this limit:	0.0 % (1)		

Statistical Summary	Maximum turbidity reading:	0.14 NTU	Average turbidity value:	0.11 NTU
	Minimum turbidity reading:	0.07 NTU	Standard deviation:	0.015 NTU
	CFE 95 th percentile value:	0.13 NTU	IFE 95 th percentile:	0.210 NTU

Number of days with a low CT for no more than 4.0 consecutive hours:	0	Average log inactivation for Giardia:	3.05
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Average log inactivation for viruses:	7.86
		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:	116	(at least 100 required) (8)	
Average disinfectant residual value:	3.03	Percentage of readings with a low residual this month:	0.0 % (6A)
Number of readings with a low residual:	0	Percentage of readings with a low residual last month:	0.0 % (6B)
Number of readings with no detectable residual:	0		

ADDITIONAL REPORTS & WORKSHEETS

The Page 1 Addendum (Public Notices) is 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: City of Wichita Falls PLANT NAME OR NUMBER: Cypress 2010 (TCEQ 15134)

PWS ID No.: 2430001 Connections: 34,718

Month: September Year: 2012 Population: _____

PERFORMANCE DATA																		
Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY (Optional Data)						FINISHED WATER QUALITY							
			NTU	Alk.	Basin No.						Turbidity						Lowest	Time
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6	Residual	
1	9.554	13.750	32	162							0.11	0.11	0.11	0.11	0.12	0.11	3.3	
2	10.158	12.778	27	145							0.12	0.12	0.11	0.12	0.10	0.09	3.3	
3	9.858	14.536	34	153							0.09	0.08	0.08	0.07	0.09	0.08	2.7	
4	9.900	17.206	19	159							0.09	0.09	0.11	0.10	0.10	0.09	3.2	
5	9.917	21.601	18	163							0.09	0.08	0.09	0.08	0.08	0.10	3.5	
6	10.175	19.299	15	159							0.10	0.08	0.08	0.08	0.10	0.08	3.3	
7	10.217	15.010	24	162							0.08	0.08	0.08	0.09	0.08	0.08	3.7	
8	9.946	10.300	27	169							0.09	0.08	0.09	0.09	0.10	0.11	3.9	
9	9.013	10.765	27	168							0.14	0.13	0.12	0.11	0.11	0.10	3.4	
10	8.347	11.791	26	165							0.10	0.11	0.12	0.11	0.11	0.12	3.2	
11	8.104	13.986	25	163							0.13	0.14	0.14	0.11	0.11	0.11	3.4	
12	9.992	15.201	24	163							0.11	0.10	0.10	0.09	0.10	0.10	3.4	
13	9.825	15.384	21	159							0.09	0.09	0.09	0.10	0.09	0.10	3.1	
14	8.238	9.402	24	165							0.10	0.12	0.14	0.12	0.13	0.13	3.6	
15	6.288	8.390	32	156							0.13	0.13	0.13	0.13	0.12	0.11	3.1	
16	5.775	9.045	29	162							0.12	0.12	0.11	0.11	0.12	0.12	3.1	
17	5.888	8.640	33	162							0.12	0.12	0.13	0.11	0.11	0.09	3.2	
18	7.596	10.959	29	166							0.10	0.10	0.10	0.10	0.13	0.12	3.1	
19	8.879	13.475	30	161							0.10	0.11	0.13	0.11	0.11	0.11	3.2	
20	9.554	16.045	30	167							0.10	0.11	0.11	0.13	0.12	0.11	3.1	
21	9.963	13.456	36	163							0.10	0.11	0.10	0.11	0.09	0.10	3.2	
22	6.621	8.927	25	136							0.10	0.10	0.09	0.09	0.10	0.09	3.6	
23	5.996	9.269	29	170							0.10	0.10	0.09	0.10	0.10	0.10	3.6	
24	5.590	8.120	35	164							0.11	0.10	0.10	0.10	0.11	0.10	3.5	
25	9.158	12.758	22	163							0.11	0.10	0.10	0.10	0.10	0.10	3.4	
26	10.013	13.089	22	156							0.11	0.12	0.14	0.12	0.13	0.10	3.0	
27	6.813	12.266	24	162							0.11	0.10	0.11	0.13	0.13	0.11	3.1	
28	0.000	9.064	X	X	X						X	X	X	X	X	X	3.6	
29	0.000	8.357	X	X	X						X	X	X	X	X	X	3.3	
30	0.000	7.394	X	X	X						X	X	X	X	X	X	3.2	
31																		
Total	231.378	370.263																
Avg	7.713	12.342																
Max	10.217	21.601																
Min	0.000	7.394																
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.																		

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:  Certificate No. and Grade: WO0023530, AW Date: October 10, 2012

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: City of Wichita Falls

PLANT NAME
OR NUMBER: Cypress 2010 (TCEQ 15134)

PWS ID No.: 2430001

Month: September Year: 2012

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		
1	0.09	x	0.14	x	0.14	x	0.16	x	0.12	x										
2	0.06	0.04	0.04	x	0.04	x	0.05	x	0.04	0.03										
3	0.08	x	0.10	0.06	0.11	x	0.08	x	0.09	x										
4	0.14	x	0.11	x	0.12	x	0.15	0.07	0.10	x										
5	0.06	x	0.07	0.06	0.05	x	0.06	x	0.09	x										
6	0.06	x	0.06	x	0.07	x	0.09	x	0.07	0.07										
7	0.10	0.10	0.12	x	0.07	x	0.08	x	0.07	x										
8	0.13	x	0.19	0.06	0.61	0.08	0.46	x	0.39	x										
9	0.08	x	0.08	x	0.09	x	0.12	0.12	0.15	0.11										
10	0.08	x	0.22	0.09	0.21	x	0.25	x	0.25	x										
11	x	x	0.08	x	0.10	0.09	0.09	x	0.09	x										
12	0.07	0.04	0.10	0.07	0.07	x	0.11	0.09	0.06	x										
13	0.13	x	0.12	x	0.11	x	0.14	x	0.20	x										
14	0.14	0.11	0.13	x	0.16	x	0.15	x	0.18	x										
15	0.12	x	x	x	0.10	x	x	x	0.11	x										
16	0.10	x	x	x	0.10	x	x	x	0.10	x										
17	0.05	x	x	x	0.07	x	x	x	0.05	x										
18	0.06	x	0.12	0.10	0.14	0.08	0.17	0.08	0.14	0.13										
19	0.21	0.06	0.10	x	0.10	x	0.11	x	0.14	x										
20	0.10	x	0.09	x	0.10	x	0.09	x	0.10	x										
21	0.10	x	0.18	0.09	0.10	x	0.10	x	0.10	x										
22	0.08	x	0.11	x	0.12	0.08	0.05	x	0.05	x										
23	0.08	x	0.09	x	0.10	x	x	x	x	x										
24	0.06	x	0.07	x	0.08	x	0.13	0.10	x	x										
25	0.19	0.06	0.13	0.13	0.18	x	0.13	x	0.17	0.06										
26	0.12	x	0.12	x	0.15	0.14	0.12	x	0.13	x										
27	0.11	x	0.11	x	0.12	x	0.10	x	0.12	x										
28	X	X	X	X	X	X	X	X	X	X										
29	X	X	X	X	X	X	X	X	X	X										
30	X	X	X	X	X	X	X	X	X	X										
31																				

SUMMARY & COMPLIANCE ACTIONS	Criteria	Filter No.										Plant
		1	2	3	4	5	6	7	8	9	10	
		Number of days with event(s) above 0.5 NTU at 4.0 hrs this month	0	0	0	0	0					
Number of days with event(s) above 1.0 NTU this month	0	0	0	0	0							
Number of days with event(s) above 1.0 NTU last month	0	0	0	0	0							
Number of days with event(s) above 1.0 NTU two months ago	0	0	0	0	0							
Total number of days with event(s) above 1.0 NTU in three months	0	0	0	0	0							
Number of days with event(s) above 2.0 NTU this month											0	
Number of days with event(s) 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	N							
Is the plant required to submit a Filter Assessment Report?	N	N	N	N	N							
Is the plant required to submit a Request for Compliance CPE?											N	

SUBMITTED BY:



Certificate No.
and Grade:

WO0023530, AW

Date: October 10, 2012

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: City of Wichita Falls
PWS ID No.: 2430001

PLANT NAME
OR NUMBER: Cypress 2010 (TCEQ 15134)
Month: September Year: 2012

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS					PERFORMANCE STANDARDS		
Parameters	Disinfection Zones					Log Inactivations	
	D1	D2	D3	D4	D5	Giardia lamblia Cysts	Viruses
Flow Rate (MGD)	42.000	42.000	42.000	10.000	20.000	0.5	2.0
T ₁₀ (minutes)	1.0	1.2	13.8	70.1	3.9		

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D1								
	NA D2								
	NA D3					2.73	7.26	3.63	
	CLA D4	5.7	10.000	26.5	9.1			(V)	
	CLA D5	4.0	13.400	27.1	8.8				
2	NA D1								
	NA D2								
	NA D3					3.32	9.53	4.76	
	CLA D4	6.6	10.000	27.6	9.2			(V)	
	CLA D5	4.8	13.000	27.4	9.1				
3	NA D1								
	NA D2								
	NA D3					2.41	6.67	3.33	
	CLA D4	3.6	10.000	27.6	9.2			(V)	
	CLA D5	2.9	13.400	27.8	8.9				
4	NA D1								
	NA D2								
	NA D3					1.62	4.35	2.18	
	CLA D4	5.3	10.000	10.0	9.1			(V)	
	CLA D5	4.8	14.000	13.4	9.0				
5	NA D1								
	NA D2								
	NA D3					2.75	8.41	4.20	
	CLA D4	6.4	10.000	28.2	9.4			(V)	
	CLA D5	4.5	14.000	28.1	9.1				
6	NA D1								
	NA D2								
	NA D3					2.46	6.49	3.25	
	CLA D4	6.1	10.000	25.0	9.1			(V)	
	CLA D5	4.1	14.000	25.0	8.9				
7	NA D1								
	NA D2								
	NA D3					3.03	9.08	4.54	
	CLA D4	6.2	10.000	27.5	9.2			(V)	
	CLA D5	5.1	12.000	27.2	8.7				
8	NA D1								
	NA D2								
	NA D3					3.60	9.17	4.58	
	CLA D4	5.9	10.000	25.6	9.1			(V)	
	CLA D5	5.0	12.000	26.0	8.8				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	NA D1								
	NA D2								
	NA D3					3.14	8.21	4.11	
	CLA D4	4.9	10.000	26.5	9.1			(V)	
	CLA D5	4.2	12.000	26.0	8.9				
10	NA D1								
	NA D2								
	NA D3					3.24	8.00	4.00	
	CLA D4	4.2	8.000	24.7	9.0			(V)	
	CLA D5	4.0	10.000	25.1	8.8				
11	NA D1								
	NA D2								
	NA D3					3.61	10.25	5.12	
	CLA D4	5.6	8.000	27.1	9.1			(V)	
	CLA D5	4.5	10.000	27.0	8.8				
12	NA D1								
	NA D2								
	NA D3					2.93	7.52	3.76	
	CLA D4	5.4	10.000	26.3	9.1			(V)	
	CLA D5	5.1	10.000	26.2	8.9				
13	NA D1								
	NA D2								
	NA D3					2.44	6.25	3.13	
	CLA D4	4.7	10.000	25.2	9.2			(V)	
	CLA D5	4.7	10.000	25.6	9.2				
14	NA D1								
	NA D2								
	NA D3					2.16	5.46	2.73	
	CLA D4	5.0	10.000	21.6	9.1			(V)	
	CLA D5	3.4	12.000	22.2	9.0				
15	NA D1								
	NA D2								
	NA D3					4.35	10.75	5.37	
	CLA D4	5.2	6.000	22.1	9.0			(V)	
	CLA D5	4.1	8.000	22.8	8.9				
16	NA D1								
	NA D2								
	NA D3					5.45	14.28	7.14	
	CLA D4	4.6	6.000	25.9	9.1			(V)	
	CLA D5	4.6	6.000	26.3	8.9				

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

SUBMITTED BY:



Certificate No.
and Grade: WO0023530, AW

Date: October 10, 2012

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: City of Wichita Falls
PWS ID No.: 2430001

PLANT NAME
OR NUMBER: Cypress 2010 (TCEQ 15134)
Month: September Year: 2012

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
Parameters	Disinfection Zones					Log Inactivations	
	D6A	D6B	D6C	D7	D8	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	36.400	6.760	8.840			0.5	2.0
T ₁₀ (minutes)	59.2	53.0	24.3				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time (min)
1	CLA D6A	3.7	9.674	26.7	8.7				
	CLA D6B	3.7	4.820	26.7	8.7				
	CLA D6C	3.7	2.906	26.7	8.7				
	D7								
	D8								
2	CLA D6A	3.6	7.228	27.8	8.6				
	CLA D6B	3.6	3.601	27.8	8.6				
	CLA D6C	3.6	2.171	27.8	8.6				
	D7								
	D8								
3	CLA D6A	3.6	7.450	26.8	9.0				
	CLA D6B	3.6	3.712	26.8	9.0				
	CLA D6C	3.6	2.238	26.8	9.0				
	D7								
	D8								
4	CLA D6A	3.4	10.008	29.1	8.8				
	CLA D6B	3.4	4.986	29.1	8.8				
	CLA D6C	3.4	3.006	29.1	8.8				
	D7								
	D8								
5	CLA D6A	3.9	12.232	29.4	8.9				
	CLA D6B	3.9	6.094	29.4	8.9				
	CLA D6C	3.9	3.674	29.4	8.9				
	D7								
	D8								
6	CLA D6A	3.6	14.456	29.6	9.0				
	CLA D6B	3.6	7.202	29.6	9.0				
	CLA D6C	3.6	4.342	29.6	9.0				
	D7								
	D8								
7	CLA D6A	3.8	8.896	29.5	8.9				
	CLA D6B	3.8	4.432	29.5	8.9				
	CLA D6C	3.8	2.672	29.5	8.9				
	D7								
	D8								
8	CLA D6A	4.4	6.672	26.3	8.8				
	CLA D6B	4.4	3.324	26.3	8.8				
	CLA D6C	4.4	2.004	26.3	8.8				
	D7								
	D8								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time (min)
9	CLA D6A	4.0	6.672	26.3	9.0				
	CLA D6B	4.0	3.324	26.3	9.0				
	CLA D6C	4.0	2.004	26.3	9.0				
	D7								
	D8								
10	CLA D6A	3.4	5.560	25.9	8.9				
	CLA D6B	3.4	2.770	25.9	8.9				
	CLA D6C	3.4	1.670	25.9	8.9				
	D7								
	D8								
11	CLA D6A	4.3	7.784	28.1	8.9				
	CLA D6B	4.3	3.878	28.1	8.9				
	CLA D6C	4.3	2.338	28.1	8.9				
	D7								
	D8								
12	CLA D6A	4.1	8.896	25.8	9.0				
	CLA D6B	4.1	4.432	25.8	9.0				
	CLA D6C	4.1	2.672	25.8	9.0				
	D7								
	D8								
13	CLA D6A	3.2	8.896	27.1	9.1				
	CLA D6B	3.2	4.432	27.1	9.1				
	CLA D6C	3.2	2.672	27.1	9.1				
	D7								
	D8								
14	CLA D6A	3.7	10.008	26.3	9.1				
	CLA D6B	3.7	4.986	26.3	9.1				
	CLA D6C	3.7	3.006	26.3	9.1				
	D7								
	D8								
15	CLA D6A	3.7	4.448	25.6	8.9				
	CLA D6B	3.7	2.216	25.6	8.9				
	CLA D6C	3.7	1.336	25.6	8.9				
	D7								
	D8								
16	CLA D6A	3.7	3.336	26.7	8.9				
	CLA D6B	3.7	1.662	26.7	8.9				
	CLA D6C	3.7	1.002	26.7	8.9				
	D7								
	D8								

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

SUBMITTED BY:



Certificate No.
and Grade: WO0023530, AW

Date: October 10, 2012

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: City of Wichita Falls
PWS ID No.: 2430001

PLANT NAME OR NUMBER: Cypress 2010 (TCEQ 15134)
Month: September Year: 2012

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS					PERFORMANCE STANDARDS		
Parameters	Disinfection Zones					Log Inactivations	
	D1	D2	D3	D4	D5	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	42.000	42.000	42.000	10.000	20.000	0.5	2.0
T ₁₀ (minutes)	1.0	1.2	13.8	70.1	3.9		

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time (min)
17	NA D1								
	NA D2								
	NA D3					4.09	9.96	4.98	
	CLA D4	3.5	6.000	22.6	9.0			(V)	
	CLA D5	3.2	6.000	22.7	8.9				
18	NA D1								
	NA D2								
	NA D3					3.21	7.84	3.92	
	CLA D4	5.5	8.000	22.3	8.9			(V)	
	CLA D5	4.0	10.000	22.4	8.8				
19	NA D1								
	NA D2								
	NA D3					2.77	6.68	3.34	
	CLA D4	4.7	10.000	23.9	9.3			(V)	
	CLA D5	3.8	12.000	23.8	8.9				
20	NA D1								
	NA D2								
	NA D3					2.61	6.33	3.16	
	CLA D4	5.7	10.000	22.4	8.8			(V)	
	CLA D5	3.5	14.000	22.1	8.6				
21	NA D1								
	NA D2								
	NA D3					2.07	5.06	2.53	
	CLA D4	5.7	10.000	22.6	9.0			(V)	
	CLA D5	4.1	14.000	22.5	8.8				
22	NA D1								
	NA D2								
	NA D3					2.13	5.15	2.57	
	CLA D4	2.0	10.000	24.2	9.0			(V)	
	CLA D5	1.4	12.000	24.2	8.8				
23	NA D1								
	NA D2								
	NA D3					5.22	12.62	6.31	
	CLA D4	6.1	6.000	24.2	9.0			(V)	
	CLA D5	4.7	8.000	24.2	8.8				
24	NA D1								
	NA D2								
	NA D3					4.44	10.85	5.43	
	CLA D4	5.5	6.000	23.1	8.9			(V)	
	CLA D5	4.4	8.000	23.2	9.0				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time (min)
25	NA D1								
	NA D2								
	NA D3					2.31	5.64	2.82	
	CLA D4	4.4	10.000	25.4	9.3			(V)	
	CLA D5	4.1	12.000	24.8	9.2				
26	NA D1								
	NA D2								
	NA D3					2.13	5.14	2.57	
	CLA D4	4.3	10.000	23.5	8.9			(V)	
	CLA D5	3.6	12.000	23.6	8.8				
27	NA D1								
	NA D2								
	NA D3					2.17	5.26	2.63	
	CLA D4	4.5	10.000	23.1	9.0			(V)	
	CLA D5	3.4	12.000	23.1	8.8				
28	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
29	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
30	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
31	D1								
	D2								
	D3								
	D4								
	D5								

Max	5.45	14.28
Min	1.62	4.35
Avg	3.05	7.86
SD	0.95	2.44

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

SUBMITTED BY:



Certificate No. and Grade: WO0023530, AW

Date: October 10, 2012

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:

City of Wichita Falls

PLANT NAME
OR NUMBER:

Cypress 2010 (TCEQ 15134)

PWS ID No.:

2430001

Month:

September

Year:

2012

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
Parameters	Disinfection Zones					Log Inactivations	
	D6A	D6B	D6C	D7	D8	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	36.400	6.760	8.840			0.5	2.0
T ₁₀ (minutes)	59.2	53.0	24.3				

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	CLA D6A	3.5	3.336	23.7	8.9				
	CLA D6B	3.5	1.662	23.7	8.9				
	CLA D6C	3.5	1.002	23.7	8.9				
	D7								
	D8								
18	CLA D6A	3.5	5.560	23.8	8.9				
	CLA D6B	3.5	2.770	23.8	8.9				
	CLA D6C	3.5	1.670	23.8	8.9				
	D7								
	D8								
19	CLA D6A	3.8	6.672	24.3	8.8				
	CLA D6B	3.8	3.324	24.3	8.8				
	CLA D6C	3.8	2.004	24.3	8.8				
	D7								
	D8								
20	CLA D6A	3.7	7.784	24.5	8.9				
	CLA D6B	3.7	3.878	24.5	8.9				
	CLA D6C	3.7	2.338	24.5	8.9				
	D7								
	D8								
21	CLA D6A	3.4	12.232	23.9	8.8				
	CLA D6B	3.4	6.094	23.9	8.8				
	CLA D6C	3.4	3.674	23.9	8.8				
	D7								
	D8								
22	CLA D6A	4.1	6.672	24.0	8.8				
	CLA D6B	4.1	3.324	24.0	8.8				
	CLA D6C	4.1	2.004	24.0	8.8				
	D7								
	D8								
23	CLA D6A	4.2	4.448	24.1	8.9				
	CLA D6B	4.2	2.216	24.1	8.9				
	CLA D6C	4.2	1.336	24.1	8.9				
	D7								
	D8								
24	CLA D6A	3.9	4.448	23.4	8.8				
	CLA D6B	3.9	2.216	23.4	8.8				
	CLA D6C	3.9	1.336	23.4	8.8				
	D7								
	D8								

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
25	CLA D6A	3.6	8.896	23.5	8.9				
	CLA D6B	3.6	4.432	23.5	8.9				
	CLA D6C	3.6	2.672	23.5	8.9				
	D7								
	D8								
26	CLA D6A	3.3	8.896	24.6	9.0				
	CLA D6B	3.3	4.432	24.6	9.0				
	CLA D6C	3.3	2.672	24.6	9.0				
	D7								
	D8								
27	CLA D6A	3.4	8.896	24.7	8.9				
	CLA D6B	3.4	4.432	24.7	8.9				
	CLA D6C	3.4	2.672	24.7	8.9				
	D7								
	D8								
28	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
29	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
30	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
31	D6A								
	D6B								
	D6C								
	D7								
	D8								

Max
Min
Avg
SD

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

SUBMITTED BY:



Certificate No.
and Grade:

WO0023530, AW

Date: October 10, 2012

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: City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress 2010 (TCEQ 15134)

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

PWS ID No.: 2430001

Operator's Signature: [Signature]

Report for
the Month of: October 2012

Certificate No. & Grade: WO0023530, AW

Date: November 2, 2012

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	96	Number of 4-hour periods when plant was off-line:	90
Number of readings above 0.10 NTU:	42	Number of 4-hour periods when plant was on-line but turbidity data was not collected:	0
Number of readings above 0.3 NTU:	0	Number of days when plant was on-line but individual filter turbidity data was not collected:	0
Number of readings above 0.5 NTU:	0	Number of days with readings above 1.0 NTU:	0 (2)
Number of readings above 1.0 NTU:	0	Number of days with readings above 5.0 NTU:	0 (3)
Maximum allowable turbidity level:	0.3		
Percentage of readings above this limit:	0.0 % (1)		
Statistical Summary	Maximum turbidity reading: 0.15 NTU Minimum turbidity reading: 0.08 NTU CFE 95 th percentile value: 0.14 NTU	Average turbidity value: 0.11 NTU Standard deviation: 0.016 NTU IFE 95 th percentile: 0.250 NTU	
Number of days with a low CT for no more than 4.0 consecutive hours:	0	Average log inactivation for Giardia:	2.87
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Average log inactivation for viruses:	6.98
		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:	112	(at least 100 required) (8)	
Average disinfectant residual value:	2.92	Percentage of readings with a low residual this month:	0.0 % (6A)
Number of readings with a low residual:	0	Percentage of readings with a low residual last month:	0.0 % (6B)
Number of readings with no detectable residual:	0		

ADDITIONAL REPORTS & WORKSHEETS

The Page 1 Addendum (Public Notices) is 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: City of Wichita Falls PLANT NAME OR NUMBER: Cypress 2010 (TCEQ 15134)

PWS ID No.: 2430001 Connections: 34,623

Month: October Year: 2012 Population: _____

PERFORMANCE DATA																		
Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY						FINISHED WATER QUALITY							
					(Optional Data)													
			NTU	Alk.	Basin No.						Turbidity						Lowest	Time
1	2	3			4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6	Residual				
1	0.000	10.316	X	X	X						X	X	X	X	X	X	2.9	
2	0.000	8.351	X	X	X						X	X	X	X	X	X	3.0	
3	0.000	10.607	X	X	X						X	X	X	X	X	X	3.7	
4	0.000	13.428	X	X	X						X	X	X	X	X	X	3.5	
5	0.000	9.871	X	X	X						X	X	X	X	X	X	3.2	
6	0.000	9.006	X	X	X						X	X	X	X	X	X	3.4	
7	0.000	6.709	X	X	X						X	X	X	X	X	X	3.4	
8	0.000	10.110	X	X	X						X	X	X	X	X	X	4.0	
9	0.000	12.033	X	X	X						X	X	X	X	X	X	3.6	
10	0.000	13.256	X	X	X						X	X	X	X	X	X	3.9	
11	0.000	12.735	X	X	X						X	X	X	X	X	X	3.7	
12	0.000	11.194	X	X	X						X	X	X	X	X	X	3.0	
13	0.000	9.130	X	X	X						X	X	X	X	X	X	3.0	
14	0.000	8.330	X	X	X						X	X	X	X	X	X	3.0	
15	0.000	9.203	X	X	X						X	X	X	X	X	X	3.0	
16	1.633	9.657	23	165							0.09	0.10	0.09	0.10	0.10	0.09	2.6	
17	4.304	12.196	26	167							0.09	0.10	0.08	0.09	0.09	0.08	2.5	
18	7.846	13.649	28	163							0.09	0.11	0.11	0.14	0.15	0.14	3.1	
19	8.150	11.378	24	165							0.14	0.14	0.15	0.13	0.13	0.13	3.2	
20	7.963	8.710	21	160							0.12	0.11	0.12	0.11	0.12	0.12	3.4	
21	6.292	8.190	16	135							0.13	0.11	0.12	0.11	0.11	0.10	3.1	
22	6.075	7.730	36	166							0.10	0.10	0.09	0.09	0.10	0.10	3.5	
23	5.958	7.720	18	166							0.09	0.09	0.10	0.10	0.10	0.09	3.5	
24	6.133	9.617	30	166							0.10	0.10	0.11	0.09	0.09	0.10	2.9	
25	9.992	10.408	20	160							0.10	0.10	0.11	0.10	0.10	0.10	2.8	
26	9.871	9.011	33	165							0.11	0.12	0.14	0.11	0.12	0.13	3.2	
27	6.608	7.657	26	159							0.11	0.11	0.11	0.12	0.12	0.11	3.6	
28	5.800	6.930	25	167							0.11	0.12	0.10	0.10	0.10	0.09	3.2	
29	5.908	8.559	36	164							0.10	0.10	0.09	0.09	0.09	0.09	3.3	
30	7.725	9.448	47	165							0.10	0.09	0.10	0.09	0.11	0.11	3.4	
31	7.925	9.155	24	164							0.11	0.11	0.10	0.10	0.09	0.09	3.1	
Total	108.183	304.294																
Avg	3.490	9.816																
Max	9.992	13.649																
Min	0.000	6.709																
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.																		

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:  Certificate No. and Grade: W00023530, AW Date: November 10, 2012

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: City of Wichita Falls

PWS ID No.: 2430001

PLANT NAME

OR NUMBER: Cypress 2010 (TCEQ 15134)

Month:

October

Year:

2012

PERFORMANCE DATA																					
Date	INDIVIDUAL FILTER TURBIDITY																				
	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	X	X	X	X	X	X	X	X	X	X	X										
2	X	X	X	X	X	X	X	X	X	X	X										
3	X	X	X	X	X	X	X	X	X	X	X										
4	X	X	X	X	X	X	X	X	X	X	X										
5	X	X	X	X	X	X	X	X	X	X	X										
6	X	X	X	X	X	X	X	X	X	X	X										
7	X	X	X	X	X	X	X	X	X	X	X										
8	X	X	X	X	X	X	X	X	X	X	X										
9	X	X	X	X	X	X	X	X	X	X	X										
10	X	X	X	X	X	X	X	X	X	X	X										
11	X	X	X	X	X	X	X	X	X	X	X										
12	X	X	X	X	X	X	X	X	X	X	X										
13	X	X	X	X	X	X	X	X	X	X	X										
14	X	X	X	X	X	X	X	X	X	X	X										
15	X	X	X	X	X	X	X	X	X	X	X										
16	0.05	0.05	x	x	x	x	x	x	x	0.05	0.05										
17	0.08	x	0.11	0.11	x	x	x	x	x	0.08	x										
18	0.23	x	0.30	x	0.29	0.20	0.29	0.27	0.25	x											
19	0.09	x	0.10	x	x	x	0.12	x	0.09	x											
20	0.13	0.11	0.10	x	0.11	0.09	0.12	x	0.09	x											
21	0.13	x	0.06	x	0.08	x	0.06	x	x	x											
22	0.06	x	x	x	0.06	x	0.04	x	0.18	0.15											
23	0.08	x	x	x	0.08	x	x	x	0.09	x											
24	0.07	x	0.20	0.13	0.07	x	0.12	0.08	0.08	x											
25	0.16	0.11	0.14	x	0.16	0.08	0.15	x	0.12	x											
26	0.14	x	0.12	x	0.14	x	0.13	x	0.17	0.16											
27	0.11	x	0.08	x	0.11	x	0.10	x	0.11	x											
28	0.06	x	x	x	0.07	x	x	x	0.07	x											
29	0.06	x	0.10	0.08	0.06	x	0.10	0.09	0.25	x											
30	0.18	0.17	0.11	x	0.16	0.15	0.12	x	0.06	x											
31	0.10	x	0.08	x	0.09	x	0.09	x	x	x											

SUMMARY & COMPLIANCE ACTIONS	Criteria	Filter No.										Plant
		1	2	3	4	5	6	7	8	9	10	
	Number of days with event(s) above 0.5 NTU at 4.0 hrs this month	0	0	0	0	0						
	Number of days with event(s) above 1.0 NTU this month	0	0	0	0	0						
	Number of days with event(s) above 1.0 NTU last month	0	0	0	0	0						
	Number of days with event(s) above 1.0 NTU two months ago	0	0	0	0	0						
	Total number of days with event(s) above 1.0 NTU in three months	0	0	0	0	0						
	Number of days with event(s) above 2.0 NTU this month											0
	Number of days with event(s) above 2.0 NTU last month											0
	Does the filter/plant have an approved Corrective Action Plan?	N	N	N	N	N						N
	Is the plant required to submit a Filter Profile Report?	N	N	N	N	N						
	Is the plant required to submit a Filter Assessment Report?	N	N	N	N	N						
	Is the plant required to submit a Request for Compliance CPE?											N

SUBMITTED BY:



Certificate No.

and Grade:

WO0023530, AW

Date:

November
October 10, 2012

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: City of Wichita Falls
PWS ID No.: 2430001

PLANT NAME
OR NUMBER: Cypress 2010 (TCEQ 15134)
Month: October Year: 2012

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS					PERFORMANCE STANDARDS		
Parameters	Disinfection Zones					Log Inactivations	
	D1	D2	D3	D4	D5	Giardia lamblia Cysts	Viruses
Flow Rate (MGD)	42.000	42.000	42.000	10.000	20.000	0.5	2.0
T ₁₀ (minutes)	1.0	1.2	13.8	70.1	3.9		

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
2	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
3	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
4	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
5	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
6	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
7	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
8	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
10	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
11	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
12	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
13	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
14	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
15	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	NA D4								
	NA D5								
16	NA D1								
	NA D2								
	NA D3					6.13	15.02	7.51	
	CLA D4	5.0	2.000	20.3	8.5				
	CLA D5	2.0	2.000	20.5	9.2				

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

SUBMITTED BY:



Certificate No.
and Grade: WO0023530, AW

Date:

November
October 10, 2012

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: City of Wichita Falls

PLANT NAME
OR NUMBER: Cypress 2010 (TCEQ 15134)

PWS ID No.: 2430001

Month: October Year: 2012

DISINFECTION PROCESS PARAMETERS									
APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS			
Parameters	Disinfection Zones					Log Inactivations			
	D6A	D6B	D6C	D7	D8	Giardia lamblia Cysts	Virus		
Flow Rate (MGD)	36.400	6.760	8.840			0.5	2.0		
T ₁₀ (minutes)	59.2	53.0	24.3						

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
2	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
3	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
4	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
5	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
6	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
7	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
8	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
10	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
11	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
12	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
13	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
14	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
15	NA D6A								
	NA D6B								
	NA D6C								
	D7								
	D8								
16	CLA D6A	3.0	5.560	20.7	8.7				
	CLA D6B	3.0	2.770	20.7	8.7				
	CLA D6C	3.0	1.670	20.7	8.7				
	D7								
	D8								

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

SUBMITTED BY:

[Signature]

Certificate No.
and Grade: WO0023530, AW

Date: November
October 10, 2012

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: City of Wichita Falls

PLANT NAME
OR NUMBER: Cypress 2010 (TCEQ 15134)

PWS ID No.: 2430001

Month: October Year: 2012

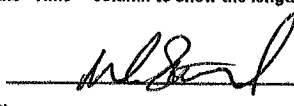
DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS					PERFORMANCE STANDARDS		
Parameters	Disinfection Zones					Log Inactivations	
	D1	D2	D3	D4	D5	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	42.000	42.000	42.000	10.000	20.000	0.5	2.0
T ₁₀ (minutes)	1.0	1.2	13.8	70.1	3.9		

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time (min)
17	NA D1								
	NA D2								
	NA D3					2.83	6.96	3.48	
	CLA D4	4.3	6.000	21.6	8.7			(V)	
	CLA D5	4.4	6.000	21.2	9.1				
18	NA D1								
	NA D2								
	NA D3					1.93	4.74	2.37	
	CLA D4	3.9	8.000	20.5	9.3			(V)	
	CLA D5	3.0	10.000	20.6	9.1				
19	NA D1								
	NA D2								
	NA D3					2.06	5.03	2.51	
	CLA D4	5.1	8.000	19.3	9.3			(V)	
	CLA D5	3.7	10.000	19.0	9.1				
20	NA D1								
	NA D2								
	NA D3					2.86	7.00	3.50	
	CLA D4	4.9	8.000	19.7	9.3			(V)	
	CLA D5	4.1	10.000	19.3	9.1				
21	NA D1								
	NA D2								
	NA D3					2.18	5.32	2.66	
	CLA D4	4.2	8.000	20.1	9.2			(V)	
	CLA D5	3.3	10.000	20.2	9.1				
22	NA D1								
	NA D2								
	NA D3					4.05	9.94	4.97	
	CLA D4	4.3	6.000	21.5	9.1			(V)	
	CLA D5	4.3	6.000	21.2	9.1				
23	NA D1								
	NA D2								
	NA D3					3.72	9.14	4.57	
	CLA D4	4.5	6.000	21.6	9.2			(V)	
	CLA D5	3.7	8.000	21.3	8.7				
24	NA D1								
	NA D2								
	NA D3					3.10	7.62	3.81	
	CLA D4	3.5	6.000	21.7	9.1			(V)	
	CLA D5	2.7	8.000	21.8	8.8				

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time (min)
25	NA D1								
	NA D2								
	NA D3					2.20	5.41	2.71	
	CLA D4	4.9	10.000	21.3	9.2			(V)	
	CLA D5	3.9	10.000	21.3	9.0				
26	NA D1								
	NA D2								
	NA D3					2.18	5.29	2.65	
	CLA D4	5.5	10.000	18.5	9.1			(V)	
	CLA D5	4.3	12.000	19.2	8.9				
27	NA D1								
	NA D2								
	NA D3					2.08	4.96	2.48	
	CLA D4	5.7	10.000	15.9	9.0			(V)	
	CLA D5	4.5	12.000	17.1	8.9				
28	NA D1								
	NA D2								
	NA D3					3.37	8.10	4.05	
	CLA D4	4.6	6.000	16.8	9.1			(V)	
	CLA D5	4.2	6.000	17.5	8.9				
29	NA D1								
	NA D2								
	NA D3					3.09	7.37	3.69	
	CLA D4	4.1	6.000	16.9	9.0			(V)	
	CLA D5	3.8	6.000	17.0	9.0				
30	NA D1								
	NA D2								
	NA D3					2.11	5.01	2.51	
	CLA D4	4.2	8.000	16.1	9.0			(V)	
	CLA D5	3.8	10.000	16.5	8.9				
31	NA D1								
	NA D2								
	NA D3					1.99	4.75	2.37	
	CLA D4	4.5	8.000	17.8	9.0			(V)	
	CLA D5	3.3	10.000	18.0	8.9				

Max	6.13	15.02
Min	1.93	4.74
Avg	2.87	6.98
SD	1.06	2.62

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

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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:

City of Wichita Falls

PLANT NAME
OR NUMBER:

Cypress 2010 (TCEQ 15134)

PWS ID No.:

2430001

Month:

October

Year:

2012

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
Parameters	Disinfection Zones					Log Inactivations	
	D6A	D6B	D6C	D7	D8	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	36.400	6.760	8.840			0.5	2.0
T ₁₀ (minutes)	59.2	53.0	24.3				

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	CLA D6A	4.4	7.784	20.9	8.7				
	CLA D6B	4.4	3.878	20.9	8.7				
	CLA D6C	4.4	2.338	20.9	8.7				
	D7								
	D8								
18	CLA D6A	3.5	7.784	20.8	8.9				
	CLA D6B	3.5	3.878	20.8	8.9				
	CLA D6C	3.5	2.338	20.8	8.9				
	D7								
	D8								
19	CLA D6A	3.2	7.784	20.7	9.0				
	CLA D6B	3.2	3.878	20.7	9.0				
	CLA D6C	3.2	2.338	20.7	9.0				
	D7								
	D8								
20	CLA D6A	4.1	5.560	22.1	8.5				
	CLA D6B	4.1	2.770	22.1	8.5				
	CLA D6C	4.1	1.670	22.1	8.5				
	D7								
	D8								
21	CLA D6A	3.1	5.560	20.4	8.9				
	CLA D6B	3.1	2.770	20.4	8.9				
	CLA D6C	3.1	1.670	20.4	8.9				
	D7								
	D8								
22	CLA D6A	4.0	3.336	20.5	9.0				
	CLA D6B	4.0	1.662	20.5	9.0				
	CLA D6C	4.0	1.002	20.5	9.0				
	D7								
	D8								
23	CLA D6A	4.4	4.448	21.0	8.9				
	CLA D6B	4.4	2.216	21.0	8.9				
	CLA D6C	4.4	1.336	21.0	8.9				
	D7								
	D8								
24	CLA D6A	3.8	4.448	21.2	8.8				
	CLA D6B	3.8	2.216	21.2	8.8				
	CLA D6C	3.8	1.336	21.2	8.8				
	D7								
	D8								

PERFORMANCE DATA

DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
25	CLA D6A	2.8	5.560	21.9	8.9				
	CLA D6B	2.8	2.770	21.9	8.9				
	CLA D6C	2.8	1.670	21.9	8.9				
	D7								
	D8								
26	CLA D6A	3.6	6.672	21.5	9.0				
	CLA D6B	3.6	3.324	21.5	9.0				
	CLA D6C	3.6	2.004	21.5	9.0				
	D7								
	D8								
27	CLA D6A	3.9	6.672	20.3	9.0				
	CLA D6B	3.9	3.324	20.3	9.0				
	CLA D6C	3.9	2.004	20.3	9.0				
	D7								
	D8								
28	CLA D6A	3.6	3.336	19.6	8.9				
	CLA D6B	3.6	1.662	19.6	8.9				
	CLA D6C	3.6	1.002	19.6	8.9				
	D7								
	D8								
29	CLA D6A	3.5	3.336	18.8	9.0				
	CLA D6B	3.5	1.662	18.8	9.0				
	CLA D6C	3.5	1.002	18.8	9.0				
	D7								
	D8								
30	CLA D6A	3.9	5.560	18.6	8.9				
	CLA D6B	3.9	2.770	18.6	8.9				
	CLA D6C	3.9	1.670	18.6	8.9				
	D7								
	D8								
31	CLA D6A	3.2	5.560	18.0	8.9				
	CLA D6B	3.2	2.770	18.0	8.9				
	CLA D6C	3.2	1.670	18.0	8.9				
	D7								
	D8								

Max
Min
Avg
SD

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

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