

From: Mark Southard
Sent: Fri, 14 Nov 2014 10:53:56 -0600
To: David Sloan
Cc: Shawn Garcia
Subject: Re: Cypress MORs
Attachments: FSO Locational Report 07_14.pdf, July 14 Cypress 2010 SWMOR.pdf, SWMOR Cypress DPR Microfiltration_RO July_2014.pdf, Aug 14 Cypress 2010 SWMOR.pdf, Aug 14 SWMOR Cypress DPR.pdf, FSO Locational Report 08_14.pdf, FSO Locational Report 09_14.pdf, Sep14 SWMOR Cyp DPR MF_RO.pdf, Sept 14 Cypress 2010 SWMOR.pdf

David,

See the attached SWMORs that we submit for the 2010 conventional plant, the Cypress DPR plant (including the MF/RO and 2010) and the addendum I submit with all the extra data the State required.

Let me know if you have any questions.

On Thu, Nov 13, 2014 at 9:14 AM, David Sloan <DWS@freese.com> wrote:

Good Morning, Mark, I wanted to check and see if I could get copies of the MORs you submit to TCEQ for the Cypress plant, including the DPR facility. I know you're compiling WQ information on the RR effluent and DPR permeate, but I thought this might give me a head start on some of the RO performance. Thanks.

DAVID W. SLOAN, P.E., BCEE

SENIOR PROCESS ENGINEER

BOARD CERTIFIED ENVIRONMENTAL ENGINEER



WATER / WASTEWATER TREATMENT & REUSE
4055 INTERNATIONAL PLAZA, SUITE 200 | FORT WORTH, TX, 76109

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EMAIL: dws@freese.com

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Mark Southard
City of Wichita Falls
Water Source/Purification Superintendent
940-691-1153
940-691-4121 Fax



Surface Water Monthly Operating Report

Addendum for the Direct Potable Reuse Plant

Public Water

System Name:

City of Wichita Falls

Plant Name or Number:

Cypress DPR (Microfiltration/RO)

PWS ID No.:

2430001

Month:

July

Year:

2014

Location:	TCEQ-1J	TCEQ-2J	TCEQ-2JB	TCEQ-20J						TCEQ-20J					
	Max Turbidity (NTU)	Min Mono-chloramine (ppm)	<i>E. coli</i> (CFU/100mL)	Max. Nitrate-N (ppm) < 10 ppm						Flow (MGD)					
Date				Train 1	Train 2	Train 3	Train 4	Train 5	Train 6	Train 1	Train 2	Train 3	Train 4	Train 5	Train 6
7/1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7/2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7/3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7/4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7/5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7/6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7/7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7/8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7/9	2.13	3.21	<4.00	X	8.1	8.7	X	X	X	X	1.51	1.49	X	X	X
7/10	2.01	3.48	<4.00	X	X	X	8.2	7.1	X	X	X	X	2	2.02	X
7/11	1.77	3.60	<4.00	8.8	X	X	X	X	8	1.95	X	X	X	X	1.95
7/12	3.41	3.58	<4.00	X	8.9	8.5	X	X	X	X	1.95	1.96	X	X	X
7/13	2.20	3.96	<4.00	X	X	X	2.8	6.4	X	X	X	X	1.86	1.83	X
7/14	2.07	3.14	<4.00	11.8	7.8	X	X	X	8.1	2.01	1.86	X	X	X	2
7/15	1.76	3.93	<4.00	X	9.9	7.8	X	X	X	X	1.87	1.85	X	X	X
7/16	1.90	3.07	<4.00	X	X	X	3	6	X	X	X	X	1.8	1.79	X
7/17	5.02	1.48	<4.00	9.3	7.2	X	X	X	9.5	1.92	1.96	X	X	X	1.89
7/18	3.00	3.82	<4.00	X	X	4.5	2.1	5	X	X	X	1.67	1.66	1.66	X
7/19	2.30	3.91	<4.00	10.6	5.4	X	X	X	6	1.67	1.67	X	X	X	1.68
7/20	1.97	4.10	<4.00	X	X	5.3	2.3	6.2	X	X	X	1.68	1.68	1.67	X
7/21	1.99	3.57	<4.00	X	5.6	X	2.1	X	6.4	X	1.67	X	1.67	X	1.67
7/22	1.64	4.07	<4.00	X	X	X	1.8	6.6	7.9	X	X	X	1.68	1.68	1.67
7/23	1.54	3.47	<4.00	X	8.2	X	X	X	7.7	X	1.76	X	X	X	1.75
7/24	1.52	3.82	<4.00	9.5	7.4	X	2.4	X	X	2	1.66	X	2.01	X	X
7/25	1.84	3.48	<4.00	X	X	X	2.5	7.4	7.8	X	X	X	1.6	1.59	1.61
7/26	1.70	3.87	<4.00	X	6.3	X	7.1	X	7.3	X	1.69	X	1.67	X	1.66
7/27	1.72	3.86	<4.00	X	8	X	2.5	9.7	X	X	1.68	X	1.66	1.66	X
7/28	2.03	3.23	<4.00	X	6.6	X	2.5	X	5.7	X	1.89	X	1.68	X	1.9
7/29	2.07	3.55	<4.00	X	7	4.5	X	6.5	6.1	X	1.61	1.6	X	1.62	1.59
7/30	2.19	3.74	<4.00	X	X	6.1	2.6	X	7.5	X	X	1.6	1.6	X	1.6
7/31	2.32	4.06	<4.00	X	7	X	4	7.6	X	X	1.59	X	1.59	1.61	X

* See included After Action Reports for Train 1 on the 14th and 19th

Submitted by: _____ **Certificate No.** _____ **and Grade:** WO0023530, AW **Date:** 10-Aug-14

Surface Water Monthly Operating Report

Addendum for the Direct Potable Reuse Plant

Public Water System

Name: City of Wichita Falls

Plant Name or Number:

Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001

Month: July **Year:** 2014

Location:	TCEQ-20J						TCEQ-22J												
	Salt Rejection (% Removal) Average of three eight-hour samples						Max Lagoon Return %	2-Hour Average Lagoon Return % Flows											
Date	Train 1	Train 2	Train 3	Train 4	Train 5	Train 6		12-2	2-4	4-6	6-8	8-10	10-12	12-2	2-4	4-6	6-8	8-10	10-12
7/1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7/2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7/3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7/4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7/5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7/6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7/7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7/8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7/9	X	80.6	64.3	X	X	X	52.20	48.00	47.36	47.43	48.92	47.02	47.54	42.20	46.12	48.06	49.04	47.65	48.40
7/10	X	X	X	96.3	85.8	X	51.48	47.98	47.19	46.45	47.29	46.57	47.11	40.50	42.78	48.58	46.70	45.42	46.72
7/11	70.6	X	X	X	X	81.4	50.23	44.47	45.59	45.16	45.17	44.79	44.62	45.08	46.99	45.48	46.04	46.15	45.73
7/12	X	85.2	87.3	X	X	X	50.74	45.78	44.67	47.32	46.59	47.18	45.90	46.88	46.81	46.07	45.68	42.06	46.74
7/13	X	X	X	96.5	86	X	50.67	46.91	47.13	46.11	47.24	46.73	47.35	47.54	46.01	46.12	45.56	45.13	45.38
7/14	70.6	85.5	X	X	X	82.6	47.63	X	X	X	X	X	X	X	X	X	X	X	X
7/15	X	85.4	87	X	X	X	47.59	X	X	X	X	X	X	X	X	X	X	X	X
7/16	X	X	X	96.3	85.4	X	48.87	X	X	X	X	X	X	X	X	X	X	X	X
7/17	74	87.6	X	X	X	84.7	53.03	46.82	45.25	46.73	44.80	45.14	46.32	46.90	48.46	46.90	48.03	47.16	46.88
7/18	X	X	88.1	96.4	86.9	X	51.76	45.41	46.09	46.13	46.46	46.94	46.49	46.25	46.13	47.51	47.69	46.78	47.06
7/19	77.1	87.4	X	X	X	85	51.89	46.99	47.51	28.60	45.15	48.92	48.98	42.38	46.98	47.57	46.98	45.97	47.21
7/20	X	X	88.1	96.8	87.6	X	49.14	X	X	X	X	X	X	X	X	X	X	X	X
7/21	X	87.9	X	96.8	X	83.1	49.17	X	X	X	X	X	X	X	X	X	X	X	X
7/22	X	X	X	96.7	86.8	83.4	49.55	X	X	X	X	X	X	X	X	X	X	X	X
7/23	X	85	X	X	X	83.4	50.63	46.43	45.20	44.90	45.47	45.23	45.57	46.71	46.99	46.76	46.18	46.78	45.63
7/24	75.3	85.1	X	96.7	X	X	49.20	X	X	X	X	X	X	X	X	X	X	X	X
7/25	X	X	X	96.3	86	82.5	48.04	X	X	X	X	X	X	X	X	X	X	X	X
7/26	X	86	X	96.7	X	83.9	51.17	45.64	45.64	45.63	45.78	46.14	47.18	46.88	45.89	46.98	46.13	45.92	45.43
7/27	X	83	X	96.5	86.1	X	48.78	X	X	X	X	X	X	X	X	X	X	X	X
7/28	X	84.2	X	95.8	X	82.1	50.58	44.77	44.61	44.92	44.37	44.78	45.51	45.89	45.78	45.55	46.29	46.88	46.61
7/29	X	85.2	88.9	X	86.8	82.8	51.33	46.83	46.29	47.50	46.13	47.42	46.76	47.27	46.37	47.08	48.02	46.59	46.37
7/30	X	X	89.2	96.6	X	84.1	50.80	48.09	47.70	46.72	46.65	47.42	46.77	47.30	46.59	44.73	43.74	43.91	0.00
7/31	X	86.9	X	96.8	88.1	X	48.83	X	X	X	X	X	X	X	X	X	X	X	X

Certificate No.

Submitted by: _____

and Grade: WO0023530, AW **Date:** 10-Aug-14

Surface Water Monthly Operating Report

Addendum for the Direct Potable Reuse Plant

Public Water

System Name: City of Wichita Falls

Plant Name or Number:

Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001

Month: July Year: 2014

Location:	TCEQ-41J												TCEQ-42J	TCEQ-20J						
	Ground Storage Tank Level (% Full)												Min Total Chlorine Residual (ppm)	Monthly Average Salt Rejection						
Date	0:00	2:00	4:00	6:00	8:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00		Train 1	Train 2	Train 3	Train 4	Train 5	Train 6	
7/1	X	X	X	X	X	X	X	X	X	X	X	X	X	73.5	85.4	84.7	96.5	86.6	83.3	
7/2	X	X	X	X	X	X	X	X	X	X	X	X	X							
7/3	X	X	X	X	X	X	X	X	X	X	X	X	X		TCEQ-42J					
7/4	X	X	X	X	X	X	X	X	X	X	X	X	X		Nitrate-N		Nitrite-N		E. coli	
7/5	X	X	X	X	X	X	X	X	X	X	X	X	X	Date	(ppm)	(ppm)	MPN			
7/6	X	X	X	X	X	X	X	X	X	X	X	X	X	7/9	0.54	0.09	0.0			
7/7	X	X	X	X	X	X	X	X	X	X	X	X	X	7/14	2.59	0.02	0.0			
7/8	X	X	X	X	X	X	X	X	X	X	X	X	X	7/21	1.69	0.02	0.0			
7/9	X	X	X	X	86%	85%	83%	81%	80%	79%	78%	77%	1.30	7/28	2.78	<0.01	0.0			
7/10	70%	70%	70%	70%	73%	74%	75%	76%	79%	80%	78%	75%	1.40							
7/11	70%	70%	71%	72%	72%	72%	74%	76%	78%	79%	79%	78%	1.90		TCEQ-2JB					
7/12	81%	80%	80%	86%	85%	84%	83%	81%	81%	79%	78%	77%	2.10		Cryptosporidium		Giardia	TCV		
7/13	77%	79%	81%	83%	83%	83%	83%	82%	80%	80%	79%	78%	2.30	Date	(oocysts/L)		(cysts/L)	MPN		
7/14	76%	77%	80%	86%	88%	86%	86%	85%	85%	85%	81%	70%	2.30	7/14	0.27	8.73	*			
7/15	78%	76%	76%	83%	81%	80%	80%	80%	81%	81%	80%	81%	2.80							
7/16	81%	82%	82%	83%	82%	82%	82%	82%	81%	78%	76%	74%	2.90		TCEQ-42J					
7/17	74%	75%	77%	77%	75%	76%	77%	78%	79%	81%	81%	80%	2.60		Cryptosporidium		Giardia	TCV		
7/18	81%	84%	87%	87%	87%	65%	64%	62%	60%	85%	84%	82%	2.50	Date	(oocysts/L)		(cysts/L)	MPN		
7/19	83%	86%	86%	86%	87%	89%	90%	89%	89%	88%	88%	86%	2.70	7/15	0.00	0.00	*			
7/20	83%	82%	82%	86%	90%	90%	90%	89%	87%	86%	83%	80%	2.90	* Sample TCEQ-2JB virus was collected on 7/14, results will be returned in August. Sample TCEQ-42J virus was collected on 7/15, results will be returned in August.						
7/21	76%	78%	81%	84%	85%	85%	82%	80%	78%	74%	72%	67%	2.60							
7/22	62%	66%	69%	71%	71%	72%	71%	72%	66%	64%	64%	63%	2.40							
7/23	63%	65%	70%	73%	76%	78%	77%	74%	71%	70%	71%	70%	2.40							
7/24	74%	75%	75%	77%	78%	78%	74%	66%	62%	63%	64%	67%	2.30							
7/25	71%	76%	74%	82%	85%	85%	84%	84%	84%	82%	82%	84%	2.60							
7/26	84%	84%	84%	87%	90%	92%	90%	84%	80%	79%	80%	80%	2.90							
7/27	80%	78%	77%	80%	84%	86%	85%	83%	79%	74%	72%	71%	2.90							
7/28	74%	78%	78%	80%	85%	84%	83%	83%	83%	84%	83%	80%	2.90							
7/29	77%	79%	82%	88%	87%	86%	82%	81%	80%	79%	78%	76%	3.20							
7/30	74%	73%	76%	80%	80%	79%	78%	76%	75%	72%	70%	66%	3.20							
7/31	65%	65%	65%	65%	65%	65%	64%	64%	64%	64%	65%	67%	2.80							

Submitted by: _____ Certificate No. and Grade: WO0023530, AW Date: 10-Aug-14

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

Plant ID No.: 15134

Operator's Signature: _____

Report for
the Month of: July 2014

Certificate No. & Grade: WO0023530, A Surface

Date: August 10, 2014

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	<u>136</u>	Number of 4-hour periods when plant was off-line:	<u>50</u>
Number of readings above 0.10 NTU:	<u>1</u>	Number of 4-hour periods when plant was on-line	
Number of readings above 0.3 NTU:	<u>0</u>	but turbidity data was not collected:	<u>0</u>
Number of readings above 0.5 NTU:	<u>0</u>	Number of days when plant was on-line	
Number of readings above 1.0 NTU:	<u>0</u>	but individual filter turbidity data was not collected:	<u>0</u>
Maximum allowable turbidity level:	<u>0.3</u>	Number of days with readings above 1.0 NTU:	<u>0</u> (2)
Percentage of readings above this limit:	<u>0.0</u> % (1)	Number of days with readings above 5.0 NTU:	<u>0</u> (3)

Statistical Summary

Maximum turbidity reading:	<u>0.13</u> NTU	Average turbidity value:	<u>0.06</u> NTU
Minimum turbidity reading:	<u>0.03</u> NTU	Standard deviation:	<u>0.017</u> NTU
CFE 95 th percentile value:	<u>0.09</u> NTU	IFE 95 th percentile:	<u>0.209</u> NTU

Number of days with a low CT		Average log inactivation for Giardia:	<u>7.09</u>
for no more than 4.0 consecutive hours:	<u>0</u>	Average log inactivation for viruses:	<u>28.41</u>
Number of days with a low CT		Number of days when profiling data was not collected:	<u>0</u>
for more than 4.0 consecutive hours:	<u>0</u> (4)	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		Number of days when disinfectant residual	
for no more than 4.0 consecutive hours:	<u>0</u>	leaving the plant was not properly monitored:	<u>0</u>
Number of days with a low residual			
for more than 4.0 consecutive hours:	<u>0</u> (5)		

DISTRIBUTION SYSTEM

Minimum disinfectant residual required in distribution system: 0.5 mg/L, measured as Total Chlorine

Total number of readings this month:	<u>146</u>	(at least 100 required) (8)	
Average disinfectant residual value:	<u>2.50</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:	☒ NONF	☐ 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 **Plant ID No.:** 15134

Connections: 33,930

Month: July **Year:** 2014

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.						Combined Filter Effluent Turbidity						Lowest		Time	
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6	Residual			
1	0.000	0.000	X	X	X						X	X	X	X	X	X	X			
2	0.000	0.000	X	X	X						X	X	X	X	X	X	X			
3	0.000	0.000	X	X	X						X	X	X	X	X	X	X			
4	0.000	0.000	X	X	X						X	X	X	X	X	X	X			
5	0.000	0.000	X	X	X						X	X	X	X	X	X	X			
6	0.000	0.000	X	X	X						X	X	X	X	X	X	X			
7	0.000	0.000	X	X	X						X	X	X	X	X	X	X			
8	0.000	0.000	X	X	X						X	X	X	X	X	X	X			
9	4.510	5.355	3	95	11.0						x	x	0.13	0.09	0.06	0.10	1.7			
10	5.330	7.083	3	87	6.1						0.06	0.06	0.05	0.07	0.04	0.05	3.0			
11	5.340	6.115	3	99	3.6						0.05	0.05	0.05	0.05	0.06	0.05	3.3			
12	5.440	8.470	2	87	4.7						0.04	0.04	0.06	0.07	0.06	0.06	3.5			
13	5.430	7.697	3	76	4.0						0.04	0.06	0.04	0.04	0.05	0.04	3.5			
14	5.500	7.569	3	76	4.2						0.05	0.04	0.04	0.04	0.05	0.05	3.3			
15	3.500	7.295	32	189	6.0						0.05	0.06	0.05	0.04	0.07	0.05	3.3			
16	3.600	9.410	34	190	6.1						0.04	0.04	0.04	0.04	0.03	0.04	3.2			
17	5.936	6.991	44	192	4.2						0.04	0.04	0.04	0.04	0.04	0.05	2.8			
18	4.800	9.759	48	186	4.5						0.04	0.04	0.04	0.04	0.04	0.04	3.0			
19	5.000	10.235	32	144	4.2						0.04	0.04	0.04	0.03	0.04	0.04	2.8			
20	4.967	10.000	27	141	4.4						0.04	0.04	0.03	0.03	0.05	0.06	2.7			
21	5.000	12.817	24	165	4.3						0.04	0.04	0.03	0.05	0.04	0.04	2.8			
22	4.800	9.761	26	184	3.4						0.05	0.05	0.05	0.05	0.07	0.07	2.6			
23	3.675	7.096	24	188	2.2						0.08	0.07	0.08	0.08	0.08	0.08	2.4			
24	4.630	9.679	24	148	2.6						0.08	0.07	0.08	0.07	0.09	0.09	2.3			
25	4.920	7.268	25	142	2.0						0.06	0.06	0.05	0.06	0.06	0.06	2.2			
26	5.000	10.699	21	138	2.5						0.06	0.06	0.06	0.06	0.05	0.05	2.6			
27	5.150	11.360	19	103	1.7						0.07	0.07	0.08	0.08	0.08	0.08	2.8			
28	4.625	8.900	28	172	1.2						0.05	0.05	0.08	0.08	0.06	0.06	2.9			
29	5.100	10.750	25	180	1.5						0.05	0.05	0.05	0.05	0.05	0.05	2.9			
30	5.000	11.501	55	173	1.8						0.05	0.05	0.05	0.06	0.04	0.05	3.2			
31	4.800	10.846	42	181	1.8						0.08	0.08	0.09	0.09	0.10	0.08	2.7			
Total	112.053	206.656	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	3.615	6.666																		
Max	5.936	12.817																		
Min	0.000	0.000																		

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, A Surface **Date:** August 10, 2014

SURFACE WATER MONTHLY OPERATING REPORT

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

PUBLIC WATER
SYSTEM NAME: City of Wichita Falls

PLANT NAME
OR NUMBER: Cypress 2010 (TCEQ 15134)

PWS ID No.: 2430001 Plant ID No.: 15134

Month: July Year: 2014

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										
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	0.06	0.05	0.07	0.05	0.27	0.08	x	x	x	x										
10	0.06	x	0.06	x	0.08	x	0.28	0.06	x	x										
11	0.05	x	0.05	x	0.08	x	0.06	x	x	x										
12	0.04	x	0.04	x	0.05	x	0.05	x	0.22	0.09										
13	0.07	0.06	0.13	0.06	0.05	x	0.05	x	0.07	x										
14	0.05	x	0.05	x	0.13	0.07	0.04	x	0.05	x										
15	0.07	x	0.05	x	0.07	x	x	x	0.04	x										
16	0.04	x	0.05	x	0.05	x	0.21	0.06	0.04	x										
17	0.12	0.05	0.04	x	0.05	x	0.06	x	0.17	0.07										
18	0.05	x	0.11	0.05	0.04	x	0.05	x	0.05	x										
19	0.04	x	0.05	x	x	x	0.04	x	0.04	x										
20	0.07	x	0.04	x	0.24	0.05	0.04	x	0.03	x										
21	0.10	x	0.05	x	0.06	x	0.27	0.05	0.09	0.05										
22	0.16	0.06	0.08	x	0.05	x	0.06	x	0.06	x										
23	0.06	x	x	x	0.05	x	0.05	x	0.04	x										
24	0.05	x	0.10	0.08	0.05	x	0.05	x	0.05	x										
25	0.05	x	0.09	x	0.14	0.07	0.13	x	0.05	x										
26	0.05	x	0.06	x	0.08	x	0.08	0.08	0.18	0.06										
27	x	x	0.06	x	0.05	x	0.06	x	0.05	x										
28	0.12	0.07	0.16	0.07	0.16	0.07	0.17	0.07	0.05	x										
29	0.05	x	0.05	x	0.06	x	0.06	x	0.04	x										
30	0.04	x	0.04	x	0.05	x	0.05	x	0.20	0.04										
31	0.04	x	0.04	x	0.05	x	0.05	x	0.05	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 events above 2.0 NTU this month																			0
	Number of events above 2.0 NTU last month																			0
	Does the filter/plant have an approved Corrective Action Plan?									N	N	N	N	N						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, A Surface Date: August 10, 2014

SURFACE WATER MONTHLY OPERATING REPORT

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

Disinfection Data Page

PUBLIC WATER

SYSTEM NAME: City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress 2010 (TCEQ 15134)

PWS ID No.: 2430001

Plant ID No.: 15134

Month: July

Year: 2014

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS					PERFORMANCE STANDARDS		
Parameters	Disinfection Zones					Log Inactivations	
	D1A	D1B	D1C	D2	D3	Giardia lamblia Cysts	Viruses
Flow Rate (MGD)	5.000	5.000	5.000	10.000	10.000	0.5	2.0
T ₁₀ (minutes)	8.3	18.7	134.7	67.1	223.3		

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time (min)
1	NA D1A								
	NA D1B								
	NA D1C					NA	NA	NA	
	NA D2								
	NA D3								
2	NA D1A								
	NA D1B								
	NA D1C					NA	NA	NA	
	NA D2								
	NA D3								
3	NA D1A								
	NA D1B								
	NA D1C					NA	NA	NA	
	NA D2								
	NA D3								
4	NA D1A								
	NA D1B								
	NA D1C					NA	NA	NA	
	NA D2								
	NA D3								
5	NA D1A								
	NA D1B								
	NA D1C					NA	NA	NA	
	NA D2								
	NA D3								
6	NA D1A								
	NA D1B								
	NA D1C					NA	NA	NA	
	NA D2								
	NA D3								
7	NA D1A								
	NA D1B								
	NA D1C					NA	NA	NA	
	NA D2								
	NA D3								
8	NA D1A								
	NA D1B								
	NA D1C					NA	NA	NA	
	NA D2								
	NA D3								

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time (min)
9	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	3.000	28.5	8.2	12.62	59.12	25.25	
	CLA D2	3.2	6.000	28.5	8.2			(G)	
	CLA D3	3.4	6.000	28.3	8.1				
10	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	4.000	26.6	8.4	8.07	34.81	16.14	
	CLA D2	3.0	8.000	27.3	9.3			(G)	
	CLA D3	2.3	8.000	24.4	8.5				
11	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	4.000	27.7	8.6	8.45	35.30	16.90	
	CLA D2	3.3	8.000	26.7	9.1			(G)	
	CLA D3	3.3	8.000	26.7	9.1				
12	NA D1A								
	CLO2 D1B	0.2	4.000	26.9	5.4				
	NA D1C					5.55	15.46	7.73	
	CLA D2	3.9	8.000	27.8	9.0			(V)	
	CLA D3	3.9	8.000	27.1	9.1				
13	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	4.200	27.3	8.5	9.34	40.22	18.69	
	CLA D2	3.5	8.000	27.4	9.3			(G)	
	CLA D3	3.4	8.000	27.7	9.2				
14	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	4.000	27.2	8.5	9.13	38.26	18.26	
	CLA D2	3.6	8.000	27.7	9.1			(G)	
	CLA D3	3.4	8.000	27.0	9.1				
15	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	4.000	26.2	8.4	9.89	40.65	19.79	
	CLA D2	3.4	8.000	25.5	9.1			(G)	
	CLA D3	3.3	8.000	26.8	9.1				
16	NA D1A								
	CLO2 D1B	0.2	4.500	26.7	8.5				
	NA D1C					5.66	18.35	9.18	
	CLA D2	3.0	8.000	25.4	9.1			(V)	
	CLA D3	3.0	8.000	25.5	9.1				

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, A Surface

Date: August 10, 2014

SURFACE WATER MONTHLY OPERATING REPORT

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

PUBLIC WATER SYSTEM NAME: <u>City of Wichita Falls</u>	PLANT NAME OR NUMBER: <u>Cypress 2010 (TCEQ 15134)</u>
PWS ID No.: <u>2430001</u>	Plant ID No.: <u>15134</u>
Month: <u>July</u>	Year: <u>2014</u>

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS					PERFORMANCE STANDARDS		
Parameters	Disinfection Zones					Log Inactivations	
	D1A	D1B	D1C	D2	D3	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	5.000	5.000	5.000	10.000	10.000	0.5	2.0
T ₁₀ (minutes)	8.3	18.7	134.7	67.1	223.3		

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	4.200	25.7	8.5	8.22	31.35	15.67	
	CLA D2	2.8	8.000	24.9	9.3			(V)	
	CLA D3	3.0	8.000	25.3	9.1				
18	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.400	24.4	8.4	7.41	28.33	14.17	
	CLA D2	3.3	10.000	24.1	8.8			(V)	
	CLA D3	3.2	10.000	24.2	9.0				
19	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.000	24.6	8.4	5.74	19.50	9.75	
	CLA D2	3.5	10.000	24.9	9.3			(V)	
	CLA D3	3.1	10.000	24.7	9.2				
20	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.000	24.4	8.4	6.48	22.36	11.18	
	CLA D2	3.4	10.000	26.5	9.2			(V)	
	CLA D3	3.5	10.000	25.1	9.2				
21	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.500	24.4	8.3	4.38	15.01	7.51	
	CLA D2	2.1	10.000	26.7	9.2			(V)	
	CLA D3	2.5	10.000	25.3	9.2				
22	NA D1A								
	CLO2 D1B	0.4	5.400	25.0	8.2				
	NA D1C					4.55	16.70	8.35	
	CLA D2	2.3	10.000	26.7	8.9			(V)	
	CLA D3	2.3	10.000	26.7	8.9				
23	NA D1A								
	CLO2 D1B	0.2	4.000	26.9	8.1				
	NA D1C					4.70	16.33	8.16	
	CLA D2	2.6	8.000	27.7	8.8			(V)	
	CLA D3	2.5	8.000	27.1	8.9				
24	NA D1A								
	NA D1B								
	CLO2 D1C	0.3	4.000	26.9	8.3	14.40	78.73	28.80	
	CLA D2	3.5	8.000	27.3	8.9			(G)	
	CLA D3	0.1	8.000	27.1	8.8				

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
25	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	6.700	26.2	8.4	5.39	17.85	8.93	
	CLA D2	3.5	10.000	26.6	8.9			(V)	
	CLA D3	3.5	10.000	25.9	8.8				
26	NA D1A								
	CLO2 D1B	0.2	5.500	27.5	8.3				
	NA D1C					4.76	17.07	8.54	
	CLA D2	3.3	10.000	27.9	9.1			(V)	
	CLA D3	3.2	10.000	27.7	8.9				
27	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.100	28.4	8.4	6.34	29.05	12.69	
	CLA D2	4.0	10.000	30.0	9.1			(G)	
	CLA D3	3.1	10.000	30.0	9.0				
28	NA D1A								
	CLO2 D1B	0.4	6.400	27.1	8.4				
	NA D1C					5.08	18.96	9.48	
	CLA D2	3.1	10.000	27.4	9.0			(V)	
	CLA D3	3.2	10.000	27.9	9.0				
29	NA D1A								
	CLO2 D1B	0.2	5.200	26.1	8.4				
	NA D1C					4.77	16.82	8.41	
	CLA D2	3.8	10.000	26.9	9.1			(V)	
	CLA D3	3.1	10.000	28.8	9.1				
30	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.100	26.0	8.4	6.28	21.14	10.57	
	CLA D2	3.9	10.000	25.5	9.1			(V)	
	CLA D3	3.9	10.000	26.0	9.1				
31	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.000	27.0	8.4	5.91	22.00	11.00	
	CLA D2	2.9	10.000	25.6	9.1			(V)	
	CLA D3	3.3	10.000	25.5	9.1				
						Max	14.40	78.73	
						Min	4.38	15.01	
						Avg	7.09	28.41	
						SD	2.57	15.27	

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: <u>WO0023530, A Surface</u>	Date: <u>August 10, 2014</u>
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MONTHLY TOTAL ORGANIC CARBON REMOVAL REPORT (TOCMOR)

FOR SURFACE WATER OR GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER SYSTEMS

PUBLIC WATER SYSTEM NAME:	City of Wichita Falls	PLANT NAME OR NUMBER:	Cypress 2010 (TCEQ 15134)
PWS ID No.:	2430001	Plant ID No.:	15134
Type of treatment:	X	Conventional	
		Unconventional explain:	

Note: Systems are required to run one TOC Sample Set every month. Additional space is provided for those systems that do additional sampling

Test No.	Test Date	Monthly TOC Sample Set			Actual % TOC Removed	Step 1 Required Removal %	Step 1 Removal Ratio	Optional data		INDIVIDUAL SAMPLE COMPLIANCE REMOVAL RATIO
		Raw Alkalinity	Raw TOC	Treated TOC				Step 2 Required % Removal	Step 2 Removal Ratio	
		Enter the Sample Set results			calculated	calculated from matrix	calculated			calculated
1	7/9	179	5.40	5.10	5.6	25	0.22			0.22
2	7/10	146	5.76	4.18	27.4	25	1.10			1.10
3	7/11	153	5.82	3.30	43.3	25	1.73			1.73
4										
5										
6	7/14	151	6.20	2.72	56.1	25	2.25			2.25
7	7/15	189	5.75	2.84	50.6	25	2.02			2.02
8	7/16	190	5.68	2.83	50.2	25	2.01			2.01
9	7/17	192	6.38	2.83	55.6	25	2.23			2.23
10	7/18	186	5.59	2.83	49.4	25	1.97			1.97
11										
12										
13	7/21	165	6.28	2.77	55.9	25	2.24			2.24
14	7/22	184	5.64	2.75	51.2	25	2.05			2.05
15	7/23	188	5.77	2.85	50.6	25	2.02			2.02
16	7/24	148	7.02	2.77	60.5	25	2.42			2.42
17										
18										
19										
20										
21	7/29	180	5.81	2.63	54.7	25	2.19			2.19
22	7/30	173	6.02	2.65	56.0	25	2.24			2.24
23	7/31	181	5.88	2.72	53.7	25	2.15			2.15
24										
25										
26										
27										
28										
29										
30										
31										
Avg		173.67	5.93	3.05	48.06		1.92			1.92
Max		192.00	7.02	5.10	60.54		2.42			2.42
Min		146.00	5.40	2.63	5.56		0.22			0.22

TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

TOC Summary					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	
174	5.93	3.05	48.1	NA	1.92

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

Operator's Signature: _____

Certificate No. and Grade: WO0023530, A Surface

Date: August 10, 2014

Submit the report by the 10th of the month following the reporting period to:
 TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
 WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
 P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

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 DPR (Microfiltration/RO)

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

Plant ID No.: 21567

Report for
the Month of: July 2014

Operator's Signature:

Certificate No. & Grade: WO0023530, A Surface

Date: August 10, 2014

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	136	Number of 4-hour periods when plant was off-line:	50
Number of readings above 0.10 NTU:	1	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:	0.13 NTU	Average turbidity value:	0.06 NTU
Minimum turbidity reading:	0.03 NTU	Standard deviation:	0.017 NTU
CFE 95 th percentile value:	0.09 NTU	IFE 95 th percentile:	0.209 NTU

Bin Class: 4	Crypto Credit Required: 5.5 (7A)	Crypto Credit Achieved: 7.3 (7B)	Bin 3&4 Credits: 2.8 (7C)
Watershed Protection:	0.0	Conventional Treatment:	3.0
Bank Filtration:	0.0	Enhanced Filter Performance:	1.0
Presedimentation with Coagulation:	0.0	Bag and Cartridge Filtration:	0.0
Two-Stage Lime Softening:	0.0	Membrane Filtration:	2.8
		Second Stage Filtration:	0.0
		UV:	0.0
		Ozone, Chlorine Dioxide:	0.0
		Perform. Demonstration:	0.5

Number of days with a low CT for no more than 4.0 consecutive hours:	0	Average log inactivation for Giardia:	9.25
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Average log inactivation for viruses:	20.70
		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:	115 (at least 100 required) (8)		
Average disinfectant residual value:	3.20	Percentage of readings with a low residual this month:	0.0 % (6A)
Number of readings with a low residual:	0		
Number of readings with no detectable residual:	0	Percentage of readings with a low residual last month:	0.0 % (6B)

ADDITIONAL REPORTS & WORKSHEETS

The Page 1 Addendum (Public Notices) is not required because there were no treatment technique or monitoring/reporting violations reported.

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

No additional IFE Reports are required this month.

P.2-Turbidity Data

P.3-Filter Data

P.4&5-Disinfection Data

P.6-TOCMOR

Alternate
Technol.

Enhanced IFE Worksheet

Membranes-PBT

Performance
Demonstration

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

This edition of the SWMOR-Alt was customized by the TCEQ on 05/18/14 for use during the City of Wichita Falls Temporary Direct Potable Reuse Project.

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: <u>City of Wichita Falls</u>	PLANT NAME OR NUMBER: <u>Cypress DPR (Microfiltration/RO)</u>
PWS ID No.: <u>2430001</u> Plant ID No.: <u>21567</u>	Connections: <u>34,115</u>
Month: <u>July</u> Year: <u>2014</u>	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.						Combined Filter Effluent Turbidity						Lowest	Time
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6	Residual	
1	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
2	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
3	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
4	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
5	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
6	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
7	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
8	0.000	0.000	X	X	X	X					X	X	X	X	X	X	X	
9	4.510	5.355	3	95	1.2	11.0					x	x	0.13	0.09	0.06	0.10	1.3	
10	5.330	7.083	3	87	2.1	6.1					0.06	0.06	0.05	0.07	0.04	0.05	1.4	
11	5.340	6.115	3	99	1.9	3.6					0.05	0.05	0.05	0.05	0.06	0.05	1.9	
12	5.440	8.470	2	87	1.4	4.7					0.04	0.04	0.06	0.07	0.06	0.06	2.1	
13	5.430	7.697	3	76	1.4	4.0					0.04	0.06	0.04	0.04	0.05	0.04	2.3	
14	5.500	7.569	3	76	1.6	4.2					0.05	0.04	0.04	0.04	0.05	0.05	2.3	
15	5.330	7.295	2	78	1.8	6.0					0.05	0.06	0.05	0.04	0.07	0.05	2.8	
16	5.400	7.000	2	70	1.6	6.1					0.04	0.04	0.04	0.04	0.03	0.04	2.9	
17	6.000	7.000	2	68	1.2	4.2					0.04	0.04	0.04	0.04	0.04	0.05	2.6	
18	6.390	9.759	48	186	2.8	4.5					0.04	0.04	0.04	0.04	0.04	0.04	3.0	
19	7.200	10.235	32	144	2.6	4.2					0.04	0.04	0.04	0.03	0.04	0.04	2.8	
20	7.290	10.000	27	141	1.5	4.4					0.04	0.04	0.03	0.03	0.05	0.06	2.7	
21	7.500	12.817	24	165	1.3	4.3					0.04	0.04	0.03	0.05	0.04	0.04	2.8	
22	7.500	9.761	26	184	1.2	3.4					0.05	0.05	0.05	0.05	0.07	0.07	2.6	
23	6.500	7.096	24	188	1.5	2.2					0.08	0.07	0.08	0.08	0.08	0.08	2.4	
24	5.800	9.679	24	148	1.2	2.6					0.08	0.07	0.08	0.07	0.09	0.09	2.3	
25	6.300	7.268	25	142	1.6	2.0					0.06	0.06	0.05	0.06	0.06	0.06	2.2	
26	7.100	10.699	21	138	1.4	2.5					0.06	0.06	0.06	0.06	0.05	0.05	2.6	
27	7.200	11.360	19	103	1.2	1.7					0.07	0.07	0.08	0.08	0.08	0.08	2.8	
28	7.200	8.900	28	172	1.3	1.2					0.05	0.05	0.08	0.08	0.06	0.06	2.9	
29	7.100	10.750	25	180	2.2	1.5					0.05	0.05	0.05	0.05	0.05	0.05	2.9	
30	7.100	11.501	55	173	2.0	1.8					0.05	0.05	0.05	0.06	0.04	0.05	3.2	
31	7.100	10.846	42	181	1.9	1.8					0.08	0.08	0.09	0.09	0.10	0.08	2.7	
Total	145.560	204.255	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	4.695	6.589																
Max	7.500	12.817																
Min	0.000	0.000																

SUBMITTED BY: _____	Certificate No. and Grade: <u>WO0023530, A Surface</u>	Date: <u>August 10, 2014</u>
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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.)
Filter Data Page

PUBLIC WATER
SYSTEM NAME: City of Wichita Falls

PLANT NAME
OR NUMBER: Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001 Plant ID No.: 21567

Month: July Year: 2014

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										
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	0.06	0.05	0.07	0.05	0.27	0.08	x	x	x	x										
10	0.06	x	0.06	x	0.08	x	0.28	0.06	x	x										
11	0.05	x	0.05	x	0.08	x	0.06	x	x	x										
12	0.04	x	0.04	x	0.05	x	0.05	x	0.22	0.09										
13	0.07	0.06	0.13	0.06	0.05	x	0.05	x	0.07	x										
14	0.05	x	0.05	x	0.13	0.07	0.04	x	0.05	x										
15	0.07	x	0.05	x	0.07	x	x	x	0.04	x										
16	0.04	x	0.05	x	0.05	x	0.21	0.06	0.04	x										
17	0.12	0.06	0.04	x	0.05	x	0.06	x	0.17	0.06										
18	0.05	x	0.11	0.05	0.04	x	0.05	x	0.05	x										
19	0.04	x	0.05	x	x	x	0.04	x	0.04	x										
20	0.07	x	0.04	x	0.24	0.05	0.04	x	0.03	x										
21	0.10	x	0.05	x	0.06	x	0.27	0.05	0.09	0.05										
22	0.16	0.06	0.08	x	0.05	x	0.06	x	0.06	x										
23	0.06	x	x	x	0.05	x	0.05	x	0.04	x										
24	0.05	x	0.10	0.08	0.05	x	0.05	x	0.05	x										
25	0.05	x	0.09	x	0.14	0.07	0.13	x	0.05	x										
26	0.05	x	0.06	x	0.08	x	0.08	0.08	0.18	0.06										
27	x	x	0.06	x	0.05	x	0.06	x	0.05	x										
28	0.12	0.07	0.16	0.07	0.16	0.07	0.17	0.07	0.05	x										
29	0.05	x	0.05	x	0.06	x	0.06	x	0.04	x										
30	0.04	x	0.04	x	0.05	x	0.05	x	0.20	0.04										
31	0.04	x	0.04	x	0.05	x	0.05	x	0.05	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 events above 2.0 NTU this month																		0	
	Number of events above 2.0 NTU last month																		0	
	Does the filter/plant have an approved Corrective Action Plan?									N	N	N	N	N						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, A Surface Date: August 10, 2014

SURFACE WATER MONTHLY OPERATING REPORT

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

PUBLIC WATER
SYSTEM NAME: City of Wichita Falls
PWS ID No.: 2430001 Plant ID No.: 21567

PLANT NAME
OR NUMBER: Cypress DPR (Microfiltration/RO)
Month: July Year: 2014

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)	7.500	7.500	3.308	10.000	10.000	2.0		5.0	
T ₁₀ (minutes)	357.0	223.2	5.6	67.1	223.3				

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	CLA D1	1.5	4.300	28.0	6.8				
	CLA D2	1.5	4.300	27.4	6.7				
	CLA D3	0.9	2.900	29.0	6.8	10.12	22.75	4.55	
	CLA D4	3.2	6.000	26.5	8.9			(V)	
	CLA D5	2.4	6.000	21.9	8.7				
10	CLA D1	1.8	3.000	26.9	6.8				
	CLA D2	1.6	3.000	26.8	6.7				
	CLA D3	1.3	2.900	26.3	6.9	16.72	36.40	7.28	
	CLA D4	3.4	6.000	25.9	9.1			(V)	
	CLA D5	3.7	6.000	26.1	9.1				
11	CLA D1	2.4	5.300	27.4	6.8				
	CLA D2	1.8	5.300	27.7	6.7				
	CLA D3	1.7	2.900	27.7	7.0	11.72	26.55	5.31	
	CLA D4	3.3	8.000	26.5	9.3			(V)	
	CLA D5	3.3	8.000	26.5	9.3				
12	CLA D1	2.5	5.200	25.7	6.9				
	CLA D2	1.4	5.200	25.5	6.8				
	CLA D3	1.2	2.900	25.4	7.0	12.05	25.46	5.09	
	CLA D4	3.5	8.000	27.7	9.0			(V)	
	CLA D5	3.7	8.000	26.4	8.9				
13	CLA D1	2.1	5.300	27.9	6.7				
	CLA D2	1.3	5.300	28.5	6.7				
	CLA D3	1.2	2.900	27.8	7.0	10.60	24.24	4.85	
	CLA D4	3.6	8.000	26.8	9.3			(V)	
	CLA D5	3.3	8.000	26.0	9.0				
14	CLA D1	2.2	5.500	27.7	6.7				
	CLA D2	0.7	5.500	28.5	6.6				
	CLA D3	0.8	2.900	27.4	7.3	10.18	24.13	4.83	
	CLA D4	3.6	8.000	27.7	9.1			(V)	
	CLA D5	3.6	8.000	27.7	9.1				
15	CLA D1	2.3	5.300	26.1	6.7				
	CLA D2	0.6	5.300	25.5	6.7				
	CLA D3	0.4	2.900	27.0	6.8	9.90	20.79	4.16	
	CLA D4	3.3	8.000	26.1	9.0			(V)	
	CLA D5	3.2	8.000	26.0	9.0				
16	CLA D1	1.8	5.400	25.7	6.7				
	CLA D2	0.7	5.400	25.2	6.7				
	CLA D3	0.6	2.900	25.1	6.9	9.27	18.83	3.77	
	CLA D4	3.6	8.000	25.4	9.1			(V)	
	CLA D5	3.4	8.000	25.5	9.0				

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, A Surface Date: August 10, 2014

SURFACE WATER MONTHLY OPERATING REPORT

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

PUBLIC WATER SYSTEM NAME: <u>City of Wichita Falls</u>	PLANT NAME OR NUMBER: <u>Cypress DPR (Microfiltration/RO)</u>
PWS ID No.: <u>2430001</u>	Plant ID No.: <u>21567</u>
Month: <u>July</u>	Year: <u>2014</u>

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)	7.50	7.50	3.31	10.00	10.00	2.0		5.0	
T ₁₀ (minutes)	357.00	223.20	5.60	67.10	223.30				

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
17	CLA D1	1.2	6.300	23.0	6.6				
	CLA D2	1.6	6.300	25.4	6.6				
	CLA D3	1.2	2.900	25.3	6.8	6.83	13.87	2.77	
	CLA D4	3.1	10.000	25.2	9.2			(V)	
	CLA D5	3.0	10.000	25.8	9.1				
18	CLA D1	3.0	6.500	22.5	6.8				
	CLA D2	1.5	6.500	23.9	6.5				
	CLA D3	1.4	2.900	23.0	6.9	8.20	16.42	3.28	
	CLA D4	3.2	10.000	25.7	6.1			(V)	
	CLA D5	2.3	10.000	24.9	9.2				
19	CLA D1	2.8	7.200	23.4	6.8				
	CLA D2	2.0	7.200	23.3	6.8				
	CLA D3	1.9	2.300	23.1	6.8	8.36	16.72	3.34	
	CLA D4	2.9	10.000	23.0	9.2			(V)	
	CLA D5	3.1	10.000	24.1	9.1				
20	CLA D1	3.2	7.200	24.4	6.8				
	CLA D2	1.9	7.200	24.3	6.6				
	CLA D3	1.6	2.300	24.0	6.9	9.31	18.52	3.70	
	CLA D4	3.4	10.000	23.7	9.3			(V)	
	CLA D5	3.2	10.000	23.2	9.2				
21	CLA D1	1.6	7.500	29.4	6.8				
	CLA D2	1.7	7.500	27.8	6.5				
	CLA D3	1.6	2.400	26.6	6.9	7.02	17.00	3.40	
	CLA D4	3.0	10.000	26.8	9.1			(V)	
	CLA D5	2.8	10.000	27.4	9.0				
22	CLA D1	2.4	7.500	29.5	6.8				
	CLA D2	2.0	7.500	28.6	6.6				
	CLA D3	2.4	2.400	29.4	6.9	7.69	19.24	3.84	
	CLA D4	2.2	10.000	27.1	8.9			(G)	
	CLA D5	2.2	10.000	27.1	8.9				
23	CLA D1	3.0	7.500	26.8	6.8				
	CLA D2	2.0	7.500	27.0	6.5				
	CLA D3	2.0	2.400	27.0	6.8	9.02	19.86	3.97	
	CLA D4	2.8	10.000	26.5	8.8			(V)	
	CLA D5	2.6	10.000	26.3	8.9				
24	CLA D1	2.4	5.500	27.1	6.7				
	CLA D2	2.1	5.500	27.2	6.5				
	CLA D3	2.1	2.500	26.9	7.0	10.89	24.50	4.90	
	CLA D4	3.4	8.000	27.6	8.9			(V)	
	CLA D5	2.4	8.000	26.4	8.8				

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
25	CLA D1	2.5	7.200	29.9	6.7				
	CLA D2	1.5	7.200	29.6	6.5				
	CLA D3	1.4	2.000	30.2	6.9	8.66	23.60	4.33	
	CLA D4	3.7	10.000	29.7	8.9			(G)	
	CLA D5	3.0	10.000	29.7	8.8				
26	CLA D1	1.7	7.100	29.9	6.7				
	CLA D2	1.7	7.100	29.1	6.5				
	CLA D3	1.6	2.200	27.9	6.8	7.81	19.81	3.90	
	CLA D4	3.3	10.000	27.9	9.1			(G)	
	CLA D5	3.2	10.000	27.7	9.1				
27	CLA D1	1.6	7.300	30.9	6.6				
	CLA D2	1.5	7.300	28.0	6.8				
	CLA D3	1.1	2.200	27.9	6.8	7.45	20.54	3.73	
	CLA D4	4.0	10.000	30.0	9.1			(G)	
	CLA D5	3.1	10.000	30.0	9.0				
28	CLA D1	1.5	7.100	24.5	6.6				
	CLA D2	1.0	7.100	26.9	6.8				
	CLA D3	1.3	2.200	26.6	7.2	6.71	14.94	2.99	
	CLA D4	3.1	10.000	27.4	9.0			(V)	
	CLA D5	3.2	10.000	27.9	9.0				
29	CLA D1	0.6	7.200	27.1	6.6				
	CLA D2	2.2	7.200	25.6	6.5				
	CLA D3	1.8	2.300	25.7	7.0	6.65	14.44	2.89	
	CLA D4	3.8	10.000	26.9	9.1			(V)	
	CLA D5	3.1	10.000	26.8	9.1				
30	CLA D1	0.8	7.100	28.4	6.6				
	CLA D2	3.9	7.100	26.3	6.5				
	CLA D3	2.5	2.500	26.2	7.0	8.74	19.24	3.85	
	CLA D4	3.1	10.000	26.2	9.2			(V)	
	CLA D5	3.5	10.000	26.6	9.1				
31	CLA D1	2.8	7.200	25.4	6.8				
	CLA D2	2.1	7.200	25.9	6.4				
	CLA D3	1.7	2.200	25.1	6.8	8.81	18.22	3.64	
	CLA D4	2.5	10.000	26.0	9.2			(V)	
	CLA D5	2.4	10.000	26.4	9.1				

Max	16.72	36.40
Min	6.65	13.87
Avg	9.25	20.70
SD	2.20	4.85

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: <u>WO0023530, A Surface</u>	Date: <u>August 10, 2014</u>
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MONTHLY TOTAL ORGANIC CARBON REMOVAL REPORT (TOCMOR)

FOR SURFACE WATER OR GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER SYSTEMS

PUBLIC WATER SYSTEM NAME: <u>City of Wichita Falls</u> PWS ID No.: <u>2430001</u> Type of treatment: Conventional X Unconventional explain: <u>Microfiltration and Reverse Osmosis Prior to Conventional Treatment</u>	PLANT NAME OR NUMBER: <u>Cypress DPR (Microfiltration/RO)</u> Month: <u>July</u> Year: <u>2014</u> Plant ID No.: <u>21567</u>
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Note: Systems are required to run one TOC Sample Set every month. Additional space is provided for those systems that do additional sampling

Test No.	Test Date	Monthly TOC Sample Set			Actual % TOC Removed	Step 1 Required Removal %	Step 1 Removal Ratio	Optional data		INDIVIDUAL SAMPLE COMPLIANCE REMOVAL RATIO
		Raw Alkalinity	Raw TOC	Treated TOC				Step 2 Required % Removal	Step 2 Removal Ratio	
		Enter the Sample Set results			calculated	calculated from matrix	calculated			calculated
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Avg										
Max										
Min										

TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

TOC Summary					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	

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

Operator's Signature: _____

Certificate No. and Grade: WO0023530, A Surface

Date: August 10, 2014

Submit the report by the 10th of the month following the reporting period to:

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

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.)
Enhanced Individual Filter Performance Data Page

PUBLIC WATER
SYSTEM NAME:

City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress DPR (Microfiltration/RO)

PWS ID No.:

2430001

Plant ID No.:

21567

Month:

July

Year:

2014

Optimized Individual Filter Effluent (IFE) Performance

PERFORMANCE DATA

Filter No.	Total No. of Readings	No. of Readings > or = 0.15 NTU	Percent of Readings > or = 0.15 NTU	No. of Confirmed Readings > 0.3 NTU		Filter No.	Total No. of Readings	No. of Readings > or = 0.15 NTU	Percent of Readings > or = 0.15 NTU	No. of Confirmed Readings > 0.3 NTU
1	1,835	1	0.05%	0		26				
2	1,823	2	0.11%	0		27				
3	1,800	3	0.17%	0		28				
4	1,758	5	0.28%	0		29				
5	1,729	8	0.46%	0		30				
6						31				
7						32				
8						33				
9						34				
10						35				
11						36				
12						37				
13						38				
14						39				
15						40				
16						41				
17						42				
18						43				
19						44				
20						45				
21						46				
22						47				
23						48				
24						49				
25						50				
Summary	Were more than 5% of the IFE readings from any of the filters above the 0.15 NTU performance criteria?			No	Giardia and Cryptosporidium Log Removal Credit Allowed this Month For Enhanced IFE Performance					1.0
	Did any of the filters have confirmed IFE readings above 0.3 NTU?			No						

SUBMITTED BY:

Certificate No.

and Grade: WO0023530, A Surface

Date: August 10, 2014

MEMBRANE MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER
Pressure Decay Rate Direct Integrity Tests

PUBLIC WATER SYSTEM NAME: City of Wichita Falls PLANT NAME OR NUMBER: Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001 Plant ID No.: 21567 Month: July Year: 2014

TEST PARAMETERS & ADDITIONAL DATA																		
DIT CONDITIONS & ADDITIONAL DATA	Unit No. 1										Unit No. 2							
	DIT Cond'ns	P _{test} psi	LRC -	UCL psi/min		Prev. Month Data	DIT _{last} date	Pass? Yes/No	C/A Success?		DIT Cond'ns	P _{test} psi	LRC -	UCL psi/min		Prev. Month	DIT _{last} date	Pass? Yes/No
		16.5	2.8	1.650			5/15/14	YES	NA			16.5	2.8	1.650			5/15/14	YES
	Optional Data	Filt.Fluid gfd	TMP psi								Optional Data	Filt.Fluid gfd	TMP psi					

PERFORMANCE DATA																		
Date	Unit No. 1										Unit No. 2							
	Operational Data						DIT Data				Operational Data						DIT Data	
	Daily Pump. MG	Norm. Filt.Fluid gfd	TMP psi	Norm. Spc.Fluid gfd/psi	Daily Max. mNTU	CIP done?	P _{initial} psi	ΔP _{test} /Δt psi/min	DIT pass?	C/A success?	Daily Pump. MG	Norm. Filt.Fluid gfd	TMP psi	Norm. Spc.Fluid gfd/psi	Daily Max. mNTU	CIP done?	P _{initial} psi	ΔP _{test} /Δt psi/min
1	0.000	X	X	X	X		X	X	X		0.000	X	X	X	X		X	X
2	0.000	X	X	X	X		X	X	X		0.000	X	X	X	X		X	X
3	0.000	X	X	X	X		X	X	X		0.000	X	X	X	X		X	X
4	0.000	X	X	X	X		X	X	X		0.000	X	X	X	X		X	X
5	0.000	X	X	X	X		X	X	X		0.000	X	X	X	X		X	X
6	0.000	X	X	X	X		X	X	X		0.000	X	X	X	X		X	X
7	0.000	X	X	X	X		X	X	X		0.000	X	X	X	X		X	X
8	0.000	X	X	X	X		X	X	X		0.000	X	X	X	X		X	X
9	0.637	13.7	3.0	4.54	62		18.1	0.690	YES	NA	0.614	14.4	2.1	6.73	32		18.2	0.640
10	0.782	15.1	3.6	4.19	44		18.1	0.710	YES	NA	0.993	15.2	2.5	6.08	75		18.2	0.610
11	0.923	16.6	3.9	4.26	34		18.1	0.740	YES	NA	0.906	16.5	2.7	6.11	55		18.3	0.620
12	0.970	16.5	4.2	3.93	51		18.1	0.730	YES	NA	1.054	16.6	2.9	5.72	37		18.2	0.640
13	1.038	16.7	4.3	3.88	38		18.2	0.690	YES	NA	0.904	16.3	2.9	5.62	29		18.2	0.610
14	0.939	17.2	4.2	4.10	46		18.2	0.740	YES	NA	0.825	16.7	2.8	5.96	44		18.3	0.620
15	0.992	16.6	4.5	3.69	49		18.1	0.710	YES	NA	0.977	16.6	3.4	4.88	62		18.2	0.630
16	0.898	16.2	4.6	3.52	44		18.1	0.720	YES	NA	0.984	16.6	3.6	4.61	69		18.2	0.620
17	1.052	15.6	4.2	3.76	50		17.9	0.730	YES	NA	0.939	15.4	2.8	5.49	23		18.1	0.610
18	1.280	14.7	4.3	3.45	38		17.9	0.700	YES	NA	1.351	15.2	3.0	5.09	47		18.1	0.610
19	1.185	15.1	3.9	3.88	33		18.2	0.620	YES	NA	1.287	15.1	2.8	5.40	41		18.4	0.530
20	1.304	15.2	3.8	4.00	50		18.2	0.650	YES	NA	1.401	15.5	2.7	5.71	24		18.3	0.550
21	1.328	15.5	3.6	4.33	39		18.2	0.670	YES	NA	1.173	15.4	2.5	6.15	38		18.4	0.550
22	1.404	15.4	3.7	4.16	31		18.2	0.680	YES	NA	1.423	15.4	2.5	6.06	23		18.3	0.570
23	1.063	16.1	3.6	4.51	42		18.2	0.690	YES	NA	1.071	15.8	2.6	6.15	27		18.2	0.540
24	1.171	15.5	3.6	4.34	46		18.2	0.710	YES	NA	0.983	15.2	2.4	6.32	24		18.5	0.560
25	1.203	13.9	2.8	4.95	43		18.2	0.680	YES	NA	1.268	14.5	2.3	6.30	52		18.4	0.560
26	1.334	14.2	3.0	4.76	41		18.3	0.700	YES	NA	1.295	14.1	2.2	6.55	17		18.4	0.570
27	1.259	14.1	2.8	4.96	50		18.3	0.680	YES	NA	1.290	14.2	2.2	6.43	24		18.5	0.560
28	1.231	14.4	3.1	4.62	41		18.4	0.690	YES	NA	1.242	14.7	2.3	6.28	32		18.5	0.570
29	1.258	14.2	3.3	4.29	32		18.2	0.650	YES	NA	1.285	14.5	2.5	5.89	50		18.4	0.540
30	1.313	14.9	3.3	4.49	34		18.3	0.640	YES	NA	1.346	14.3	2.4	5.92	43		18.4	0.540
31	1.223	14.2	3.3	4.35	82		18.2	0.630	YES	NA	1.174	14.1	2.4	5.79	27		18.4	0.520

SUMMARY	Unit No. 1										Unit No. 2							
	IIT										IIT							
	Number of days with DIT triggered by high turbidity or particle count										0							
	Number of days with a monitoring violation										#REF!							
	DIT										DIT							
Comments	Number of days with failure to pass a DIT										0							
	Number of days with a treatment technique violation										0							
	General Remarks										Additional Comments							

SUBMITTED BY: _____ Certificate No. and Grade: WO0023530, A Surface Date: August 10, 2014

MEMBRANE MONTHLY OPERATING REPORT
FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
Pressure Decay Rate Direct Integrity Tests (cont.)

PUBLIC WATER SYSTEM NAME:	City of Wichita Falls	PLANT NAME OR NUMBER:	Cypress DPR (Microfiltration/RO)	PUBLIC SYSTEM NAME:				
PWS ID No.:	2430001	Plant ID No.:	21567	Month:	July	Year:	2014	PWS ID

TEST PARAMETERS & ADDITIONAL DATA																				DIT CONDITIONS & ADDITIONAL DATA	
DIT CONDITIONS & ADDITIONAL DATA	Unit No. 3										Unit No. 4										
	DIT Cond'ns	P _{test} psi	LRC -	UCL psi/min		Prev. Month	DIT _{last} date	Pass? Yes/No	C/A Success?		DIT Cond'ns	P _{test} psi	LRC -	UCL psi/min		Prev. Month	DIT _{last} date	Pass? Yes/No	C/A Success?		
		16.5	2.8	1.650			5/15/14	YES	NA			16.5	2.8	1.650			5/15/14	YES	NA		
	Optional Data	Filt.Fluc gfd	TMP psi								Optional Data	Filt.Fluc gfd	TMP psi								

PERFORMANCE DATA																					
Date	Unit No. 3										Unit No. 4										Date
	Operational Data						DIT Data				Operational Data						DIT Data				
	Daily Pump. MG	Norm. Flt.Fluc gfd	TMP psi	Norm. Spc.Fluc gfd/psi	Daily Max. mNTU	CIP done? -	P _{initial} psi	ΔP _{test} /Δt psi/min	DIT pass? -	C/A success? -	Daily Pump. MG	Norm. Flt.Fluc gfd	TMP psi	Norm. Spc.Fluc gfd/psi	Daily Max. mNTU	CIP done? -	P _{initial} psi	ΔP _{test} /Δt psi/min	DIT pass? -	C/A success? -	
1	0.000	X	X	X	X		X	X	X		0.000	X	X	X	X		X	X	X		1
2	0.000	X	X	X	X		X	X	X		0.000	X	X	X	X		X	X	X		2
3	0.000	X	X	X	X		X	X	X		0.000	X	X	X	X		X	X	X		3
4	0.000	X	X	X	X		X	X	X		0.000	X	X	X	X		X	X	X		4
5	0.000	X	X	X	X		X	X	X		0.000	X	X	X	X		X	X	X		5
6	0.000	X	X	X	X		X	X	X		0.000	X	X	X	X		X	X	X		6
7	0.000	X	X	X	X		X	X	X		0.000	X	X	X	X		X	X	X		7
8	0.000	X	X	X	X		X	X	X		0.000	X	X	X	X		X	X	X		8
9	0.633	13.9	3.2	4.35	87		18.0	0.700	YES	NA	0.705	15.2	1.1	13.82	33		19.0	0.390	YES	NA	9
10	0.858	15.2	3.6	4.22	59		17.9	0.720	YES	NA	0.895	15.8	1.2	13.17	41		19.0	0.400	YES	NA	10
11	1.007	16.6	4.4	3.77	34		17.9	0.720	YES	NA	0.996	16.6	1.3	12.77	37		19.0	0.400	YES	NA	11
12	0.877	16.6	4.3	3.86	44		17.9	0.720	YES	NA	0.971	16.9	1.4	12.07	37		18.9	0.400	YES	NA	12
13	1.008	16.6	4.2	3.95	60		17.8	0.730	YES	NA	0.897	16.7	1.3	12.85	42		18.9	0.400	YES	NA	13
14	1.084	16.9	4.6	3.67	26		17.9	0.730	YES	NA	0.940	16.9	1.4	12.07	36		19.0	0.400	YES	NA	14
15	0.933	16.6	4.0	4.15	39		17.9	0.720	YES	NA	0.985	16.6	1.3	12.77	36		18.9	0.400	YES	NA	15
16	1.011	16.6	5.1	3.25	49		17.7	0.740	YES	NA	0.889	16.7	1.4	11.93	65		18.9	0.390	YES	NA	16
17	0.941	15.5	4.5	3.41	81		17.8	0.710	YES	NA	1.052	15.8	1.4	11.31	36		18.8	0.390	YES	NA	17
18	1.255	15.0	4.2	3.55	54		17.8	0.700	YES	NA	1.252	16.1	1.5	10.52	33		18.8	0.380	YES	NA	18
19	1.300	15.1	4.2	3.64	31		18.1	0.610	YES	NA	1.220	15.2	1.3	12.15	35		18.8	0.390	YES	NA	19
20	1.268	15.2	3.8	4.05	53		18.0	0.650	YES	NA	1.303	16.0	1.3	12.43	31		18.8	0.380	YES	NA	20
21	1.335	15.5	3.8	4.08	39		18.0	0.670	YES	NA	1.261	15.5	1.1	13.88	59		18.9	0.390	YES	NA	21
22	1.328	15.5	3.6	4.27	46		18.0	0.680	YES	NA	1.356	15.4	1.1	13.75	32		18.9	0.390	YES	NA	22
23	1.221	15.9	3.9	4.10	32		18.0	0.680	YES	NA	1.142	16.1	1.2	13.97	35		19.0	0.390	YES	NA	23
24	1.140	15.5	3.6	4.37	65		18.0	0.670	YES	NA	1.088	15.5	1.1	14.25	31		19.0	0.390	YES	NA	24
25	1.244	13.9	3.1	4.51	35		18.0	0.680	YES	NA	1.324	15.4	1.1	14.30	30		18.9	0.400	YES	NA	25
26	1.184	14.1	3.1	4.50	47		18.0	0.670	YES	NA	1.332	14.2	0.9	15.57	34		18.9	0.400	YES	NA	26
27	1.307	14.1	3.1	4.49	47		18.1	0.690	YES	NA	1.308	14.7	1.0	15.12	33		19.0	0.400	YES	NA	27
28	1.098	14.4	3.3	4.44	35		18.1	0.680	YES	NA	1.224	15.3	1.1	14.01	35		19.0	0.410	YES	NA	28
29	1.353	14.2	3.4	4.17	62		18.0	0.650	YES	NA	1.272	15.5	1.2	12.89	41		18.9	0.400	YES	NA	29
30	1.210	14.2	3.4	4.15	31		18.0	0.640	YES	NA	1.410	14.8	1.1	13.33	39		18.8	0.400	YES	NA	30
31	1.356	14.2	3.5	4.07	39		18.1	0.630	YES	NA	1.247	14.2	1.1	13.54	38		18.8	0.390	YES	NA	31

SUMMARY			Unit No. 3	Unit No. 4	SUMMARY
	IIT	Number of days with DIT triggered by high turbidity or particle count	0	0	
		Number of days with a monitoring violation	0	0	
	DIT	Number of days with failure to pass a DIT	0	0	
		Number of days with a treatment technique violation	0	0	
	Comments	General Remarks	Additional Comments	Additional Comments	

SUBMITTED BY:		Certificate No. and Grade:	WO0023530, A Surface	Date:	August 10, 2014	SUBMITT
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MEMBRANE MONTHLY OPERATING REPORT
 FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
 OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
Pressure Decay Rate Direct Integrity Tests (cont.)

WATER M NAME: City of Wichita Falls PLANT NAME OR NUMBER: Cypress DPR (Microfiltration/RO)
 No.: 2430001 Plant ID No.: 21567 Month: July Year: 2014

TEST PARAMETERS & ADDITIONAL DATA																			
Unit No. 5									Unit No. 6										
DIT Cond'ns	P _{test} psi	LRC -	UCL psi/min		Prev. Month	DIT _{last} date	Pass? Yes/No	C/A Success?		DIT Cond'ns	P _{test} psi	LRC -	UCL psi/min		Prev. Month	DIT _{last} date	Pass? Yes/No	C/A Success?	
	16.5	2.8	1.650			5/15/14	YES	NA											
Optional Data	Filt.Flux gfd	TMP psi								Optional Data	Filt.Flux gfd	TMP psi							

PERFORMANCE DATA																			
Unit No. 5										Unit No. 6									
Operational Data						DIT Data				Operational Data						DIT Data			
Daily Pump. MG	Norm. Filt.Flux gfd	TMP psi	Norm. Spc.Flux gfd/psi	Daily Max. mNTU	CIP done? -	P _{initial} psi	ΔP _{test} /Δt psi/min	DIT pass? -	C/A success? -	Daily Pump. MG	Norm. Filt.Flux gfd	TMP psi	Norm. Spc.Flux gfd/psi	Daily Max. mNTU	CIP done? -	P _{initial} psi	ΔP _{test} /Δt psi/min	DIT pass? -	C/A success? -
0.000	X	X	X	X		X	X	X											
0.000	X	X	X	X		X	X	X											
0.000	X	X	X	X		X	X	X											
0.000	X	X	X	X		X	X	X											
0.000	X	X	X	X		X	X	X											
0.000	X	X	X	X		X	X	X											
0.000	X	X	X	X		X	X	X											
0.000	X	X	X	X		X	X	X											
0.729	14.7	1.9	7.74	64		18.9	0.450	YES	NA										
0.972	15.5	1.9	8.16	23		18.8	0.460	YES	NA										
1.012	16.6	2.3	7.22	24		18.8	0.450	YES	NA										
0.889	16.6	2.4	6.92	31		18.8	0.450	YES	NA										
0.988	16.6	2.2	7.55	38		18.8	0.450	YES	NA										
1.004	17.2	2.5	6.88	33		18.9	0.440	YES	NA										
0.910	16.6	2.3	7.22	29		18.9	0.430	YES	NA										
0.968	16.5	2.5	6.60	31		18.8	0.450	YES	NA										
1.179	15.6	2.4	6.42	23		18.7	0.430	YES	NA										
1.267	15.3	2.3	6.57	21		18.8	0.410	YES	NA										
1.351	15.2	2.2	6.98	62		18.9	0.380	YES	NA										
1.303	15.5	2.0	7.62	28		18.9	0.390	YES	NA										
1.406	15.5	2.0	7.79	26		18.9	0.400	YES	NA										
1.307	15.5	1.9	8.05	25		19.0	0.410	YES	NA										
1.123	15.9	2.0	8.01	26		19.0	0.410	YES	NA										
1.041	15.6	2.0	7.97	24		19.0	0.410	YES	NA										
1.367	14.7	1.7	8.80	24		18.9	0.410	YES	NA										
1.255	14.2	1.7	8.58	28		19.0	0.410	YES	NA										
1.321	14.2	1.6	8.88	26		19.0	0.410	YES	NA										
1.187	14.8	1.8	8.29	21		19.1	0.410	YES	NA										
1.309	14.7	1.8	8.01	26		19.0	0.390	YES	NA										
1.180	14.3	1.8	7.88	26		19.0	0.380	YES	NA										
1.716	14.2	1.8	7.95	27		19.0	0.370	YES	NA										

		Unit No. 5	Unit No. 6
IIT	Number of days with DIT triggered by high turbidity or particle count	0	
	Number of dates with monitoring violation	0	
DIT	Number of dates with failure to pass DIT	0	
	Number of dates with treatment technique violation	0	
Comments	General Remarks	Additional Comments	Additional Comments

ED BY: _____ Certificate No. and Grade: W00023530, A Surface Date: August 10, 2014

SURFACE WATER MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
LT2ESWTR Summary Page

PUBLIC WATER

SYSTEM NAME: City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001

Plant ID No.: 21567

Month: July

Year: 2014

Note: Indicate the treatment processes in each train. (see comment)	TREATMENT TECHNOLOGIES																
	PRETREATMENT CREDITS				FILTRATION TECHNOLOGY CREDITS						ENHANCED PERFORMANCE CREDITS		DISINFECTION TECHNOLOGY CREDITS			OTHER TREATMENT CREDITS	
	Riverbank Filtration	Presed. with Coagul.	Two-stage Lime Softening	Conventional Sedimentation or Clarification	Conventional Granular Media Filters	Bag or Cartridge Filtration	Two-Stage Filtration	Membrane Filtration (PBT)	Membrane Filtration (QBT)	Membrane Filtration (MBT)	Enhanced CFE Perform.	Optimized IFE Perform.	Crypto Chemical Disinfect.	UV Disinfect. (ISA)	UV Disinfect. (CDA)	Watershed Protection	Perform. Demon.
	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE	TRUE			TRUE	TRUE	FALSE	FALSE		FALSE	TRUE
Overall				TRUE	TRUE			TRUE			TRUE	TRUE					TRUE
Train 1																	
Train 2																	
Train 3																	
Train 4																	
Train 5																	
1																	X
2																	X
3																	X
4																	X
5																	X
6																	X
7																	X
8																	X
9								2.80									0.50
10								2.80									0.50
11								2.80									0.50
12								2.80									0.50
13								2.80									0.50
14								2.80									0.50
15								2.80									0.50
16				0.50	2.50			2.80			0.00	1.00					0.50
17								2.80									0.50
18								2.80									0.50
19								2.80									0.50
20								2.80									0.50
21								2.80									0.50
22								2.80									0.50
23								2.80									0.50
24								2.80									0.50
25								2.80									0.50
26								2.80									0.50
27								2.80									0.50
28								2.80									0.50
29								2.80									0.50
30								2.80									0.50
31								2.80									0.50
MIN				0.5	2.5			2.80			0.0	1.0					0.5

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.)

LT2ESWTR Summary Page (cont)

PUBLIC WATER

SYSTEM NAME: City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001

Plant ID No.: 21567

Month: July

Year: 2014

GIARDIA AND CRYPTOSPORIDIUM TREATMENT CREDITS												GIARDIA INACTIVATION CREDITS						VIRAL INACTIVATION CREDITS						
	Total Daily Credit By Train						Total Daily Bin 3 & 4 Credit by Train						Total Daily Inactivation Credit By Train						Total Daily Inactivation Credit by Train					
Overall						Minimum						Minimum						Minimum						Minimum
Train 1	TRUE						TRUE	FALSE					TRUE	FALSE					TRUE	FALSE				
Train 2		FALSE						FALSE						FALSE						FALSE				
Train 3			FALSE						FALSE						FALSE						FALSE			
Train 4				FALSE						FALSE						FALSE						FALSE		
Train 5					FALSE						FALSE						FALSE						FALSE	
1	NA					NA	NA					NA	NA					NA	NA					NA
2	NA					NA	NA					NA	NA					NA	NA					NA
3	NA					NA	NA					NA	NA					NA	NA					NA
4	NA					NA	NA					NA	NA					NA	NA					NA
5	NA					NA	NA					NA	NA					NA	NA					NA
6	NA					NA	NA					NA	NA					NA	NA					NA
7	NA					NA	NA					NA	NA					NA	NA					NA
8	NA					NA	NA					NA	NA					NA	NA					NA
9	7.30					7.30	2.80					2.80	10.12					10.12	22.75					22.75
10	7.30					7.30	2.80					2.80	16.72					16.72	36.40					36.40
11	7.30					7.30	2.80					2.80	11.72					11.72	26.55					26.55
12	7.30					7.30	2.80					2.80	12.05					12.05	25.46					25.46
13	7.30					7.30	2.80					2.80	10.60					10.60	24.24					24.24
14	7.30					7.30	2.80					2.80	10.18					10.18	24.13					24.13
15	7.30					7.30	2.80					2.80	9.90					9.90	20.79					20.79
16	7.30					7.30	2.80					2.80	9.27					9.27	18.83					18.83
17	7.30					7.30	2.80					2.80	6.83					6.83	13.87					13.87
18	7.30					7.30	2.80					2.80	8.20					8.20	16.42					16.42
19	7.30					7.30	2.80					2.80	8.36					8.36	16.72					16.72
20	7.30					7.30	2.80					2.80	9.31					9.31	18.52					18.52
21	7.30					7.30	2.80					2.80	7.02					7.02	17.00					17.00
22	7.30					7.30	2.80					2.80	7.69					7.69	19.24					19.24
23	7.30					7.30	2.80					2.80	9.02					9.02	19.86					19.86
24	7.30					7.30	2.80					2.80	10.89					10.89	24.50					24.50
25	7.30					7.30	2.80					2.80	8.66					8.66	23.60					23.60
26	7.30					7.30	2.80					2.80	7.81					7.81	19.81					19.81
27	7.30					7.30	2.80					2.80	7.45					7.45	20.54					20.54
28	7.30					7.30	2.80					2.80	6.71					6.71	14.94					14.94
29	7.30					7.30	2.80					2.80	6.65					6.65	14.44					14.44
30	7.30					7.30	2.80					2.80	8.74					8.74	19.24					19.24
31	7.30					7.30	2.80					2.80	8.81					8.81	18.22					18.22
MIN	7.30					7.30	2.80					2.80	6.65					6.65	13.87					13.87
AVG	7.30					7.30	2.80					2.80	9.25					9.25	20.70					20.70
MAX	7.30					7.30	2.80					2.80	6.65					6.65	13.87					13.87

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

Plant ID No.: 15134

Operator's Signature: _____

Report for

the Month of: August 2014

Certificate No. & Grade: WO0023530, A Surface

Date: September 10, 2014

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	<u>186</u>	Number of 4-hour periods when plant was off-line:	<u>0</u>
Number of readings above 0.10 NTU:	<u>3</u>	Number of 4-hour periods when plant was on-line	
Number of readings above 0.3 NTU:	<u>0</u>	but turbidity data was not collected:	<u>0</u>
Number of readings above 0.5 NTU:	<u>0</u>	Number of days when plant was on-line	
Number of readings above 1.0 NTU:	<u>0</u>	but individual filter turbidity data was not collected:	<u>0</u>
Maximum allowable turbidity level:	<u>0.3</u>	Number of days with readings above 1.0 NTU:	<u>0</u> (2)
Percentage of readings above this limit:	<u>0.0</u> % (1)	Number of days with readings above 5.0 NTU:	<u>0</u> (3)

Statistical Summary

Maximum turbidity reading:	<u>0.12</u> NTU	Average turbidity value:	<u>0.07</u> NTU
Minimum turbidity reading:	<u>0.05</u> NTU	Standard deviation:	<u>0.014</u> NTU
CFE 95 th percentile value:	<u>0.10</u> NTU	IFE 95 th percentile:	<u>0.265</u> NTU

Number of days with a low CT		Average log inactivation for Giardia:	<u>6.55</u>
for no more than 4.0 consecutive hours:	<u>0</u>	Average log inactivation for viruses:	<u>26.14</u>
Number of days with a low CT		Number of days when profiling data was not collected:	<u>0</u>
for more than 4.0 consecutive hours:	<u>0</u> (4)	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: 0.5 mg/L, measured as Total Chlorine

Total number of readings this month:	<u>172</u>	(at least 100 required) (8)	
Average disinfectant residual value:	<u>2.70</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: <u>City of Wichita Falls</u>	PLANT NAME OR NUMBER: <u>Cypress 2010 (TCEQ 15134)</u>
PWS ID No.: <u>2430001</u> Plant ID No.: <u>15134</u>	Connections: <u>33,934</u>
Month: <u>August</u> Year: <u>2014</u>	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.						Combined Filter Effluent Turbidity						Lowest	Time	
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6	Residual		
1	5.150	7.713	25	94	1.8							0.05	0.05	0.05	0.10	0.06	0.05	2.5	
2	5.088	10.376	27	98	2.3							0.06	0.07	0.06	0.06	0.06	0.06	2.4	
3	5.349	10.990	31	99	2.2							0.06	0.06	0.06	0.06	0.06	0.05	2.4	
4	5.031	9.770	35	97	1.1							0.06	0.06	0.06	0.06	0.06	0.06	2.8	
5	5.004	9.620	31	98	1.8							0.07	0.07	0.07	0.07	0.10	0.08	2.7	
6	5.208	11.270	30	101	1.9							0.07	0.08	0.07	0.07	0.07	0.07	1.3	
7	5.358	12.211	25	99	1.6							0.08	0.08	0.06	0.06	0.06	0.06	2.2	
8	5.139	8.784	23	99	1.9							0.07	0.08	0.08	0.07	0.09	0.08	2.3	
9	5.069	8.272	29	99	1.6							0.07	0.07	0.06	0.07	0.08	0.09	3.2	
10	5.037	10.987	25	102	1.6							0.08	0.08	0.06	0.06	0.06	0.09	3.3	
11	5.078	10.033	26	97	1.7							0.06	0.06	0.06	0.06	0.06	0.06	3.3	
12	5.142	8.895	24	96	2.4							0.10	0.10	0.07	0.07	0.07	0.08	3.4	
13	5.107	9.539	24	98	1.9							0.07	0.07	0.07	0.07	0.07	0.07	3.2	
14	5.472	10.595	28	98	1.9							0.07	0.07	0.07	0.08	0.07	0.09	2.5	
15	5.097	11.505	27	96	1.9							0.10	0.09	0.08	0.08	0.08	0.08	2.5	
16	5.142	9.780	24	93	2.6							0.09	0.10	0.10	0.10	0.08	0.08	2.9	
17	5.221	9.860	23	91	2.6							0.07	0.07	0.07	0.08	0.07	0.09	3.0	
18	5.194	10.690	29	94	2.0							0.05	0.06	0.05	0.05	0.07	0.07	3.2	
19	5.372	10.217	31	94	2.1							0.08	0.06	0.06	0.06	0.07	0.06	3.1	
20	5.101	9.107	29	91	2.0							0.06	0.06	0.05	0.05	0.06	0.07	3.1	
21	5.146	9.483	26	97	2.0							0.06	0.06	0.05	0.05	0.06	0.07	3.0	
22	5.027	9.571	27	95	2.5							0.07	0.06	0.06	0.05	0.06	0.08	3.0	
23	5.270	8.170	36	101	2.8							0.07	0.07	0.08	0.07	0.07	0.08	3.1	
24	5.268	10.180	31	99	1.6							0.08	0.08	0.08	0.08	0.09	0.09	3.0	
25	5.268	10.440	29	101	2.6							0.09	0.08	0.08	0.08	0.08	0.09	3.1	
26	5.137	8.977	39	95	1.8							0.10	0.09	0.08	0.08	0.08	0.09	3.2	
27	5.088	9.702	42	95	1.2							0.09	0.09	0.09	0.07	0.08	0.10	3.2	
28	5.140	11.970	38	99	1.4							0.10	0.11	0.09	0.06	0.07	0.08	3.2	
29	5.358	9.648	31	100	1.2							0.10	0.09	0.08	0.07	0.09	0.09	3.2	
30	5.236	9.480	37	98	1.1							0.09	0.09	0.08	0.08	0.08	0.09	3.2	
31	5.136	10.235	38	96	1.8							0.12	0.12	0.08	0.08	0.08	0.09	3.3	
Total	160.433	308.070	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	5.175	9.938																	
Max	5.472	12.211																	
Min	5.004	7.713																	

SUBMITTED BY: _____	Certificate No. and Grade: <u>WO0023530, A Surface</u>	Date: <u>September 10, 2014</u>
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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.)
Filter Data Page

PUBLIC WATER
SYSTEM NAME: City of Wichita Falls

PLANT NAME
OR NUMBER: Cypress 2010 (TCEQ 15134)

PWS ID No.: 2430001 Plant ID No.: 15134

Month: August Year: 2014

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	0.19	0.06	0.18	0.05	0.19	0.06	0.19	0.06	0.05	x										
2	0.06	x	0.06	x	0.07	x	0.07	x	0.04	x										
3	0.06	x	0.06	x	0.07	x	0.07	x	0.22	0.04										
4	0.06	x	0.06	x	0.06	x	0.07	x	0.10	x										
5	0.26	0.07	0.26	0.07	0.12	0.07	0.29	0.10	0.07	x										
6	0.07	x	0.06	x	0.07	x	0.09	x	0.06	x										
7	0.08	x	0.07	x	0.07	x	0.08	x	0.12	0.08										
8	0.26	0.08	0.26	0.08	0.09	x	0.09	x	0.09	x										
9	0.08	x	0.08	x	0.22	0.10	0.09	0.09	0.07	x										
10	0.07	x	0.07	x	0.09	x	0.10	x	0.06	x										
11	0.28	0.12	0.27	0.08	0.08	x	0.08	x	0.11	0.11										
12	0.11	x	0.08	x	0.26	0.10	0.30	0.11	0.16	x										
13	0.07	x	0.15	0.09	0.08	x	0.08	x	0.07	x										
14	0.27	0.08	0.12	x	0.29	0.12	0.12	0.11	0.16	0.10										
15	0.08	x	0.11	x	0.10	x	0.10	x	0.11	x										
16	0.13	0.13	0.23	0.11	0.41	0.10	0.14	0.13	0.09	x										
17	0.06	x	0.07	x	0.07	x	0.07	x	0.12	0.08										
18	0.21	0.06	0.17	0.06	0.27	x	0.25	0.09	0.05	x										
19	0.06	x	0.05	x	0.11	x	0.08	x	0.20	0.08										
20	0.08	0.07	0.14	0.07	0.06	x	0.06	x	0.08	x										
21	0.07	x	0.06	x	0.12	0.10	0.14	0.07	0.05	x										
22	0.06	x	0.05	x	0.08	x	0.08	x	0.15	0.11										
23	0.13	0.09	0.15	0.07	0.08	x	0.08	x	0.10	x										
24	0.08	x	0.07	x	0.27	0.13	0.23	0.11	0.07	x										
25	0.14	0.13	0.11	x	0.11	0.10	0.10	x	0.17	0.08										
26	0.12	x	0.09	x	0.09	x	0.12	0.10	0.10	x										
27	0.14	0.09	0.13	0.08	0.16	0.11	0.11	x	0.17	0.09										
28	0.13	0.12	0.16	0.04	0.17	0.08	0.16	0.13	0.12	0.11										
29	0.12	x	0.08	x	0.10	x	0.22	0.13	0.11	x										
30	0.16	0.12	0.20	0.06	0.16	0.11	0.12	x	0.17	0.11										
31	0.12	x	0.08	x	0.10	x	0.09	x	0.11	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 events above 2.0 NTU this month																			0
	Number of events above 2.0 NTU last month																			0
	Does the filter/plant have an approved Corrective Action Plan?									N	N	N	N	N						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, A Surface Date: September 10, 2014

SURFACE WATER MONTHLY OPERATING REPORT

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

Disinfection Data Page

PUBLIC WATER

SYSTEM NAME: City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress 2010 (TCEQ 15134)

PWS ID No.: 2430001

Plant ID No.: 15134

Month: August

Year: 2014

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
Parameters	Disinfection Zones					Log Inactivations	
	D1A	D1B	D1C	D2	D3	Giardia lamblia Cysts	Viruses
Flow Rate (MGD)	5.000	5.000	5.000	10.000	10.000	0.5	2.0
T ₁₀ (minutes)	8.3	18.7	134.7	67.1	223.3		

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
1	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.200	25.0	8.5	7.04	25.43	12.72	
	CLA D2	3.6	10.000	24.5	9.2			(V)	
	CLA D3	3.5	10.000	24.3	9.2				
2	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.300	25.9	8.4	8.49	34.52	16.99	
	CLA D2	3.8	10.000	26.3	9.1			(G)	
	CLA D3	3.3	10.000	25.9	9.1				
3	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.900	25.2	8.4	5.61	18.64	9.32	
	CLA D2	3.1	10.000	25.1	9.1			(V)	
	CLA D3	3.3	10.000	25.2	9.1				
4	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	6.100	26.1	8.5	5.52	19.46	9.73	
	CLA D2	3.5	10.000	27.3	9.1			(V)	
	CLA D3	3.5	10.000	27.3	9.1				
5	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.200	26.6	8.2	7.29	32.53	14.59	
	CLA D2	2.6	10.000	26.1	9.2			(G)	
	CLA D3	2.6	10.000	27.6	9.2				
6	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.200	25.9	8.2	5.66	20.99	10.50	
	CLA D2	3.3	10.000	26.8	9.2			(V)	
	CLA D3	3.0	10.000	26.8	9.2				
7	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.200	27.8	8.5	6.16	26.58	12.33	
	CLA D2	2.8	10.000	27.2	9.1			(G)	
	CLA D3	2.9	10.000	27.0	9.0				
8	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.300	26.7	8.5	5.48	22.05	10.96	
	CLA D2	3.1	10.000	30.6	8.5			(G)	
	CLA D3	2.9	10.000	27.5	9.2				

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
9	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	4.900	26.3	8.4	6.58	25.31	12.66	
	CLA D2	3.5	10.000	26.9	9.2			(V)	
	CLA D3	3.4	10.000	26.9	9.2				
10	NA D1A								
	CLO2 D1B	0.2	5.000	27.2	8.4				
	NA D1C					5.13	19.38	9.69	
	CLA D2	4.1	10.000	29.4	9.3			(V)	
	CLA D3	3.5	10.000	29.7	9.1				
11	NA D1A								
	CLO2 D1B	0.1	5.200	27.3	8.5				
	NA D1C					5.01	17.09	8.55	
	CLA D2	4.1	10.000	28.7	9.3			(V)	
	CLA D3	3.8	10.000	28.7	9.3				
12	NA D1A								
	CLO2 D1B	0.1	5.300	27.5	8.5				
	NA D1C					4.86	15.18	7.59	
	CLA D2	3.9	10.000	27.3	9.2			(V)	
	CLA D3	3.7	10.000	26.9	9.3				
13	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.400	27.8	8.4	6.42	26.41	12.84	
	CLA D2	3.5	10.000	27.8	9.3			(G)	
	CLA D3	3.5	10.000	27.9	9.2				
14	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.400	27.6	8.3	6.31	26.70	12.62	
	CLA D2	3.1	10.000	27.5	9.1			(G)	
	CLA D3	3.1	10.000	27.5	9.1				
15	NA D1A								
	CLO2 D1B	0.2	5.500	26.6	8.3				
	NA D1C					4.51	15.07	7.54	
	CLA D2	3.4	10.000	27.0	9.1			(V)	
	CLA D3	3.1	10.000	27.3	9.1				
16	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.900	26.8	8.4	5.46	20.95	10.47	
	CLA D2	3.5	10.000	27.2	9.1			(V)	
	CLA D3	3.0	10.000	27.7	9.1				

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, A Surface

Date: September 10, 2014

SURFACE WATER MONTHLY OPERATING REPORT

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

PUBLIC WATER SYSTEM NAME: <u>City of Wichita Falls</u>	PLANT NAME OR NUMBER: <u>Cypress 2010 (TCEQ 15134)</u>
PWS ID No.: <u>2430001</u>	Plant ID No.: <u>15134</u>
Month: <u>August</u>	Year: <u>2014</u>

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS					PERFORMANCE STANDARDS		
Parameters	Disinfection Zones					Log Inactivations	
	D1A	D1B	D1C	D2	D3	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	5.000	5.000	5.000	10.000	10.000	0.5	2.0
T ₁₀ (minutes)	8.3	18.7	134.7	67.1	223.3		

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.200	28.4	8.4	7.37	34.34	14.74	
	CLA D2	4.3	10.000	28.3	9.1			(G)	
	CLA D3	3.0	10.000	28.6	9.1				
18	NA D1A								
	NA D1B								
	CLO2 D1C	0.2	5.300	27.3	8.3	11.42	54.88	22.85	
	CLA D2	3.5	10.000	27.5	9.2			(G)	
	CLA D3	3.5	10.000	27.2	9.1				
19	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.500	26.1	8.3	5.60	20.70	10.35	
	CLA D2	3.8	10.000	27.7	9.3			(V)	
	CLA D3	3.3	10.000	28.2	9.2				
20	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.700	26.0	8.5	7.02	27.53	13.76	
	CLA D2	3.5	10.000	26.4	9.2			(V)	
	CLA D3	3.2	10.000	26.5	9.2				
21	NA D1A								
	CLO2 D1B	0.2	5.300	28.2	8.5				
	NA D1C					4.88	18.44	9.22	
	CLA D2	3.3	10.000	28.4	9.2			(V)	
	CLA D3	3.4	10.000	29.0	9.1				
22	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.000	26.8	8.3	7.43	32.03	14.87	
	CLA D2	4.0	10.000	28.3	9.2			(G)	
	CLA D3	3.0	10.000	27.7	9.1				
23	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.400	26.8	8.4	6.71	26.90	13.41	
	CLA D2	3.6	10.000	27.4	9.2			(G)	
	CLA D3	3.4	10.000	27.5	9.1				
24	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.300	27.3	8.3	6.25	22.98	11.49	
	CLA D2	3.7	10.000	26.9	9.0			(V)	
	CLA D3	4.0	10.000	27.5	9.1				

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
25	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.400	27.6	8.3	7.11	29.35	14.22	
	CLA D2	3.8	10.000	27.8	9.2			(G)	
	CLA D3	3.8	10.000	28.0	9.0				
26	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.500	27.3	8.4	7.14	30.57	14.27	
	CLA D2	4.1	10.000	29.9	9.1			(G)	
	CLA D3	3.8	10.000	29.6	9.1				
27	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.000	26.3	8.3	7.51	30.17	15.01	
	CLA D2	3.7	10.000	27.5	9.1			(G)	
	CLA D3	3.6	10.000	27.4	9.1				
28	NA D1A								
	NA D1B								
	CLO2 D1B	0.3	5.400	27.1	8.4				
	NA D1C					5.54	20.10	10.05	
	CLA D2	3.6	10.000	27.9	9.1			(V)	
29	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.600	26.9	8.7	7.65	30.32	15.16	
	CLA D2	4.0	10.000	25.7	9.0			(V)	
	CLA D3	3.7	10.000	26.4	9.0				
30	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.600	26.1	8.3	7.73	28.87	14.43	
	CLA D2	4.1	10.000	24.7	9.1			(V)	
	CLA D3	3.8	10.000	25.5	9.0				
31	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.300	26.7	8.2	8.24	36.77	16.48	
	CLA D2	4.2	10.000	30.0	9.0			(G)	
	CLA D3	3.7	10.000	30.2	8.9				
						Max	11.42	54.88	
						Min	4.51	15.07	
						Avg	6.55	26.14	
						SD	1.37	7.84	

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: <u>WO0023530, A Surface</u>	Date: <u>September 10, 2014</u>
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MONTHLY TOTAL ORGANIC CARBON REMOVAL REPORT (TOCMOR)

FOR SURFACE WATER OR GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER SYSTEMS

PUBLIC WATER SYSTEM NAME:	City of Wichita Falls	PLANT NAME OR NUMBER:	Cypress 2010 (TCEQ 15134)
PWS ID No.:	2430001	Plant ID No.:	15134
Type of treatment:	X	Conventional	
		Unconventional explain:	

Note: Systems are required to run one TOC Sample Set every month. Additional space is provided for those systems that do additional sampling

Test No.	Test Date	Monthly TOC Sample Set			Actual % TOC Removed	Step 1 Required Removal %	Step 1 Removal Ratio	Optional data		INDIVIDUAL SAMPLE COMPLIANCE REMOVAL RATIO
		Raw Alkalinity	Raw TOC	Treated TOC				Step 2 Required % Removal	Step 2 Removal Ratio	
		Enter the Sample Set results			calculated	calculated from matrix	calculated			calculated
1	8/1	163	6.23	2.66	57.3	25	2.29			2.29
2	8/4	99	6.44	2.82	56.2	35	1.61			1.61
3	8/5	102	6.20	2.93	52.7	35	1.51			1.51
4	8/6	146	5.35	2.85	46.7	25	1.87			1.87
5	8/7	163	5.28	2.81	46.8	25	1.87			1.87
6	8/8	121	5.32	2.88	45.9	25	1.83			1.83
7	8/11	157	5.21	2.90	44.3	25	1.77			1.77
8	8/12	121	6.81	2.93	57.0	25	2.28			2.28
9	8/13	119	6.26	2.89	53.8	35	1.54			1.54
10	8/14	167	5.62	2.73	51.4	25	2.06			2.06
11	8/15	165	6.06	2.99	50.7	25	2.03			2.03
12	8/18	168	5.76	2.67	53.6	25	2.15			2.15
13	8/19	167	5.90	2.78	52.9	25	2.12			2.12
14	8/20	166	5.65	2.69	52.4	25	2.10			2.10
15	8/21	167	5.43	2.68	50.6	25	2.03			2.03
16	8/22	163	5.19	2.70	48.0	25	1.92			1.92
17	8/25	175	5.21	2.78	46.6	25	1.87			1.87
18	8/26	174	5.35	2.79	47.9	25	1.91			1.91
19	8/27	175	5.11	2.74	46.4	25	1.86			1.86
20	8/28	174	5.65	2.78	50.8	25	2.03			2.03
21	8/29	172	5.53	2.78	49.7	25	1.99			1.99
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Avg		153.52	5.69	2.80	50.56		1.93			1.93
Max		175.00	6.81	2.99	57.30		2.29			2.29
Min		99.00	5.11	2.66	44.34		1.51			1.51

TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

TOC Summary					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	
154	5.69	2.80	50.6	NA	1.93

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

Operator's Signature: _____

Certificate No. and Grade: WO0023530, A Surface

Date: September 10, 2014

Submit the report by the 10th of the month following the reporting period to:
 TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
 WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
 P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

TOC ALTERNATIVE COMPLIANCE CRITERIA REPORT

FOR SURFACE WATER OR GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER SYSTEMS

PUBLIC WATER SYSTEM NAME: City of Wichita Falls
PWS ID No.: 2430001 Plant ID No.: 15134

PLANT NAME OR NUMBER: Cypress 2010 (TCEQ 15134)
Month: August Year: 2014

This Alternative Compliance Criteria (ACC) Report is being submitted to request the following ACC: (check one)
(Before you can begin entering data, you must put an "X" in the box that shows the number of the Alternative Compliance Criteria you are applying for.)

#1 ☐ #2 ☐ #3 ☐ #4 ☐ #5 ☐ #6 ☐ #7 ☐ #8 ☐

ACC #1	Source Water TOC less than 2.0? (either based on most recent month's data OR calculated quarterly as a running annual average)													
	Current Month TOC													
	5.69													
	Month/Year													
	Average Raw Water TOC													
			Q1		Q2		Q3		Q4					
			07/2013	08/2013	09/2013	10/2013	11/2013	12/2013	01/2014	02/2014	03/2014	04/2014	05/2014	06/2014

ACC #2	Treated Water TOC less than 2.0? (either based on most recent month's data OR calculated quarterly as a running annual average)													
	Current Month TOC													
	2.80													
	Month/Year													
	Average Treated Water TOC													
			Q1		Q2		Q3		Q4					
			07/2013	08/2013	09/2013	10/2013	11/2013	12/2013	01/2014	02/2014	03/2014	04/2014	05/2014	06/2014

ACC #3	Source Water TOC less than 4.0? (calculated quarterly as a running annual average) AND Source water alkalinity over 60 mg/L (as CaCO3)? (calculated quarterly as a running annual average)											
	Current Month TOC											
	2.80											
	Month/Year											
	Average Raw Water TOC											
	Quarterly Average											
	RAA											
	Average Raw Water Alkalinity											
	Quarterly Average											
	RAA											
AND TTHM and HAA5 no greater than 0.040 mg/L and 0.030 mg/L, respectively? (calculated as a running annual average of quarterly averages)												
TTHM RAA for the 4 quarters that end June 2014: mg/L HAA5 RAA for the 4 quarter that end June 2014: mg/L												

ACC #4	TTHM and HAA5 no greater than 0.040 mg/L and 0.030 mg/L, respectively? (calculated as a running annual average of quarterly averages)											
	TTHM RAA for the 4 quarters that end June 2014: mg/L HAA5 RAA for the 4 quarters that end June 2014: mg/L											
	AND only chlorine is used in the whole plant and distribution system. Chlorine only?:											
	I certify that for the last 12 months, only free chlorine was used as a disinfectant for primary disinfection and for maintenance of a residual in the distribution system.											
	Certified Operators Signature/ Certificate Number / Date _____											

ACC #5	Source water SUVA less than or equal to 2.0 L/mg-m? (either based on most recent month's data OR calculated quarterly as a running annual average) (Source water SUVA is the ultraviolet light absorption at 254 nanometers in the raw water divided by its dissolved organic carbon concentration, before any treatment of any kind. Measure monthly.)													
	Current Month SUVA													
	2.80													
	Month/Year													
	Monthly Raw Water SUVA													
			Q1		Q2		Q3		Q4					
			07/2013	08/2013	09/2013	10/2013	11/2013	12/2013	01/2014	02/2014	03/2014	04/2014	05/2014	06/2014

ACC #6	Treated water SUVA less than or equal to 2.0 L/mg-m? (either based on most recent month's data OR calculated quarterly as a running annual average) (Treated water SUVA is the ultraviolet light absorption at 254 nanometers divided by the dissolved organic carbon concentration in the finished water before any disinfection of any kind, or measured using a finished water SUVA jar test. Measure monthly.)													
	Current Month SUVA													
	2.80													
	Month/Year													
	Monthly Treated Water SUVA													
			Q1		Q2		Q3		Q4					
			07/2013	08/2013	09/2013	10/2013	11/2013	12/2013	01/2014	02/2014	03/2014	04/2014	05/2014	06/2014

ACC #7	Treated water alkalinity less than 60 mg/L (as CaCO3)? (softening practiced) (either based on most recent month's data OR calculated quarterly as a running annual average)													
	Current Month ALK													
	2.80													
	Month/Year													
	Monthly Treated Alkalinity													
			Q1		Q2		Q3		Q4					
			07/2013	08/2013	09/2013	10/2013	11/2013	12/2013	01/2014	02/2014	03/2014	04/2014	05/2014	06/2014

ACC #8	Magnesium hardness removal greater than or equal to 10 mg/L (as CaCO3)? (softening practiced) (either based on most recent month's data OR calculated quarterly as a running annual average)													
	Current Month Mg Hardness													
	Raw													
	Treated													
	Removal													
			Q1		Q2		Q3		Q4					
			07/2013	08/2013	09/2013	10/2013	11/2013	12/2013	01/2014	02/2014	03/2014	04/2014	05/2014	06/2014

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

Operator's Signature: _____ Certificate No. and Grade: W00023530, A Surface Date: September 10, 2014

STEP 2 JAR TEST REPORT

FOR SURFACE WATER OR GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER SYSTEMS

PUBLIC WATER

SYSTEM NAME: City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress 2010 (TCEQ 15134)

PWS ID No.: 2430001

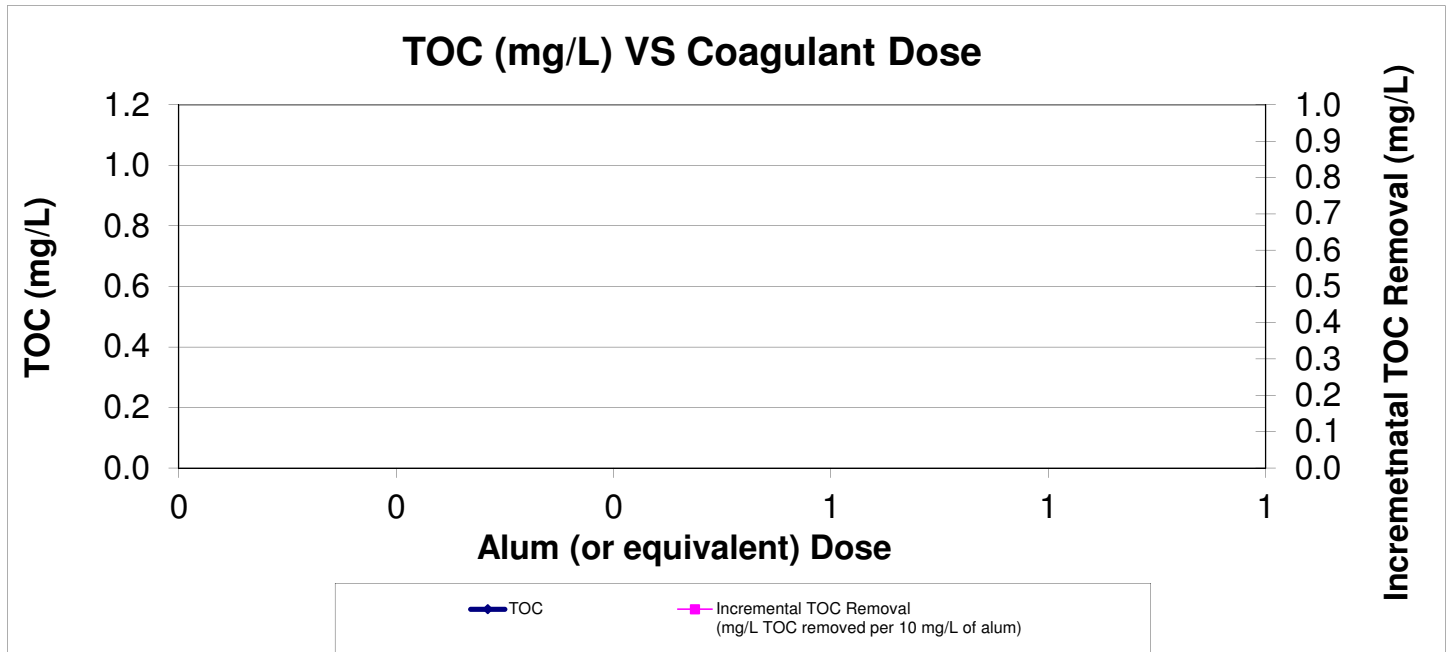
Plant ID No.: 15134

DATE OF JAR TEST: _____

PLANT CONDITIONS							
RAW WATER SOURCE(s)	COAGULANT		COAGULANT AID		FLOC AID		pH ADJUSTMENT
	Type	Dose (mg/L)	Type	Dose (mg/L)	Type	Dose (mg/L)	Type

STEP 2 JAR TEST PARAMETERS									
COAGULANT		BASE		JAR SIZE	JAR TEST CONDITIONS				
Type	Stock Solution Concentration (g/L)	Type	Stock Solution Concentration (g/L)	Volume (liters)	Rapid Mix		Flocculation		Settling
					Speed (rpm)	Duration (minutes)	Speed (rpm)	Duration (minutes)	Duration (minutes)

JAR TEST RESULTS									
Jar No.	COAGULANT		BASE		Alkalinity (mg/L as CaCO ₃)	pH	TOC (mg/L)	Incremental TOC Removal (mg/L TOC removed per 10 mg/L of alum)	Cumulative TOC Removal (%)
	Dose (Alum eq.) (mg/L)	Volume (mL)	Dose (mg/L)	Volume (mL)					
RAW									
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
Has the TCEQ approved this source as "Not Amenable" to Treatment even though Target pH was not reached? If "yes", provide the date of the TCEQ letter or e-mail.					TOC, % Removal at Apparent PODR:				



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

Operator's

Signature: _____

Certificate No.

and Grade: WO0023530, A Surface

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 DPR (Microfiltration/RO)

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

Plant ID No.: 21567

Operator's Signature: _____

Report for
the Month of: August 2014

Certificate No. & Grade: WO0023530, A Surface

Date: September 10, 2014

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:	3	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: <u>0.12</u> NTU	Average turbidity value: <u>0.07</u> NTU	
	Minimum turbidity reading: <u>0.05</u> NTU	Standard deviation: <u>0.014</u> NTU	
	CFE 95 th percentile value: <u>0.10</u> NTU	IFE 95 th percentile: <u>0.265</u> NTU	

Bin Class: <u>4</u>	Crypto Credit Required: <u>5.5</u> (7A)	Crypto Credit Achieved: <u>7.3</u> (7B)	Bin 3&4 Credits: <u>2.8</u> (7C)
Watershed Protection: <u>0.0</u>	Conventional Treatment: <u>3.0</u>	Second Stage Filtration: <u>0.0</u>	
Bank Filtration: <u>0.0</u>	Enhanced Filter Performance: <u>1.0</u>	UV: <u>0.0</u>	
Presedimentation with Coagulation: <u>0.0</u>	Bag and Cartridge Filtration: <u>0.0</u>	Ozone, Chlorine Dioxide: <u>0.0</u>	
Two-Stage Lime Softening: <u>0.0</u>	Membrane Filtration: <u>2.8</u>	Perform. Demonstration: <u>0.5</u>	

Number of days with a low CT for no more than 4.0 consecutive hours: <u>0</u>	Average log inactivation for Giardia: <u>8.67</u>	
	Average log inactivation for viruses: <u>20.13</u>	
Number of days with a low CT for more than 4.0 consecutive hours: <u>0</u> (4)	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>172</u> (at least 100 required) (8)	
Average disinfectant residual value: <u>2.70</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.

P.2-Turbidity Data	P.3-Filter Data	P.4&5-Disinfection Data	P.6-TOCMOR
Alternate Technol.	Enhanced IFE Worksheet		
	Membranes-PBT		
			Performance Demonstration

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

This edition of the SWMOR-Alt was customized by the TCEQ on 05/18/14 for use during the City of Wichita Falls Temporary Direct Potable Reuse Project.

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: <u>City of Wichita Falls</u>	PLANT NAME OR NUMBER: <u>Cypress DPR (Microfiltration/RO)</u>
PWS ID No.: <u>2430001</u> Plant ID No.: <u>21567</u>	Connections: <u>33,934</u>
Month: <u>August</u> Year: <u>2014</u>	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.						Combined Filter Effluent Turbidity						Lowest Residual	Time
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6		
1	7.100	7.713	2	43	1.0	1.8					0.05	0.05	0.05	0.10	0.06	0.05	2.5	
2	7.200	10.376	2	71	1.9	2.3					0.06	0.07	0.06	0.06	0.06	0.06	2.4	
3	7.200	10.990	2	47	1.4	2.2					0.06	0.06	0.06	0.06	0.06	0.05	2.4	
4	7.100	9.770	3	53	1.1	1.1					0.06	0.06	0.06	0.06	0.06	0.06	2.8	
5	7.100	9.620	2	53	1.5	1.8					0.07	0.07	0.07	0.07	0.10	0.08	2.7	
6	7.100	11.270	2	63	1.5	1.9					0.07	0.08	0.07	0.07	0.07	0.07	1.3	
7	7.100	12.211	2	95	1.7	1.6					0.08	0.08	0.06	0.06	0.06	0.06	2.2	
8	7.100	8.784	2	62	1.6	1.9					0.07	0.08	0.08	0.07	0.09	0.08	2.3	
9	7.100	8.272	2	71	1.3	1.6					0.07	0.07	0.06	0.07	0.08	0.09	3.2	
10	7.200	10.987	2	68	1.0	1.6					0.08	0.08	0.06	0.06	0.06	0.09	3.3	
11	7.000	10.033	2	46	0.9	1.7					0.06	0.06	0.06	0.06	0.06	0.06	3.3	
12	7.200	8.895	2	76	1.5	2.4					0.10	0.10	0.07	0.07	0.07	0.08	3.4	
13	7.100	9.539	2	54	1.5	1.9					0.07	0.07	0.07	0.07	0.07	0.07	3.2	
14	7.200	10.595	2	64	1.0	1.9					0.07	0.07	0.07	0.08	0.07	0.09	2.5	
15	7.100	11.505	2	57	1.0	1.9					0.10	0.09	0.08	0.08	0.08	0.08	2.5	
16	7.100	9.780	3	56	1.0	2.6					0.09	0.10	0.10	0.10	0.08	0.08	2.9	
17	7.100	9.860	3	46	1.0	2.6					0.07	0.07	0.07	0.08	0.07	0.09	3.0	
18	7.100	10.690	2	47	1.5	2.0					0.05	0.06	0.05	0.05	0.07	0.07	3.2	
19	7.200	10.217	2	47	1.5	2.1					0.08	0.06	0.06	0.06	0.07	0.06	3.1	
20	7.100	9.107	2	65	1.6	2.0					0.06	0.06	0.05	0.05	0.06	0.07	3.1	
21	7.200	9.483	2	64	1.6	2.0					0.06	0.06	0.05	0.05	0.06	0.07	3.0	
22	7.200	9.571	2	65	1.3	2.5					0.07	0.06	0.06	0.05	0.06	0.08	3.0	
23	7.200	8.170	2	51	1.5	2.8					0.07	0.07	0.08	0.07	0.07	0.08	3.1	
24	7.200	10.180	2	53	1.0	1.6					0.08	0.08	0.08	0.08	0.09	0.09	3.0	
25	7.200	10.440	3	47	1.5	2.6					0.09	0.08	0.08	0.08	0.08	0.09	3.1	
26	7.100	8.977	4	51	2.0	1.8					0.10	0.09	0.08	0.08	0.08	0.09	3.2	
27	7.200	9.702	4	44	2.0	1.2					0.09	0.09	0.09	0.07	0.08	0.10	3.2	
28	7.100	11.970	4	47	1.2	1.4					0.10	0.11	0.09	0.06	0.07	0.08	3.2	
29	7.100	9.648	3	45	1.0	1.2					0.10	0.09	0.08	0.07	0.09	0.09	3.2	
30	7.100	9.480	2	51	0.9	1.1					0.09	0.09	0.08	0.08	0.08	0.09	3.2	
31	4.900	10.235	2	43	1.0	1.8					0.12	0.12	0.08	0.08	0.08	0.09	3.3	
Total	219.000	308.070																
Avg	7.065	9.938																
Max	7.200	12.211																
Min	4.900	7.713																

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: <u>WO0023530, A Surface</u>	Date: <u>September 10, 2014</u>
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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.)
Filter Data Page

PUBLIC WATER
SYSTEM NAME: City of Wichita Falls

PLANT NAME
OR NUMBER: Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001 Plant ID No.: 21567

Month: August Year: 2014

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	0.19	0.06	0.18	0.05	0.19	0.06	0.19	0.06	0.05	x										
2	0.06	x	0.06	x	0.07	x	0.07	x	0.04	x										
3	0.06	x	0.06	x	0.07	x	0.07	x	0.22	0.04										
4	0.06	x	0.06	x	0.06	x	0.07	x	0.10	x										
5	0.26	0.07	0.26	0.07	0.12	0.07	0.29	0.10	0.07	x										
6	0.07	x	0.06	x	0.07	x	0.09	x	0.06	x										
7	0.08	x	0.07	x	0.07	x	0.08	x	0.12	0.08										
8	0.26	0.08	0.26	0.08	0.09	x	0.09	x	0.09	x										
9	0.08	x	0.08	x	0.22	0.10	0.09	0.09	0.07	x										
10	0.07	x	0.07	x	0.09	x	0.10	x	0.06	x										
11	0.28	0.12	0.27	0.08	0.08	x	0.08	x	0.11	0.11										
12	0.11	x	0.08	x	0.26	0.10	0.30	0.11	0.16	x										
13	0.07	x	0.15	0.09	0.08	x	0.08	x	0.07	x										
14	0.27	0.08	0.12	x	0.29	0.12	0.12	0.11	0.16	0.10										
15	0.08	x	0.11	x	0.10	x	0.10	x	0.11	x										
16	0.13	0.13	0.23	0.11	0.41	0.10	0.14	0.13	0.09	x										
17	0.06	x	0.07	x	0.07	x	0.07	x	0.12	0.08										
18	0.21	0.06	0.17	0.06	0.27	x	0.25	0.09	0.05	x										
19	0.06	x	0.05	x	0.11	x	0.08	x	0.20	0.08										
20	0.08	0.07	0.14	0.07	0.06	x	0.06	x	0.08	x										
21	0.07	x	0.06	x	0.12	0.10	0.14	0.07	0.05	x										
22	0.06	x	0.05	x	0.08	x	0.08	x	0.15	0.11										
23	0.13	0.09	0.15	0.07	0.08	x	0.08	x	0.10	x										
24	0.08	x	0.07	x	0.27	0.13	0.23	0.11	0.07	x										
25	0.14	0.13	0.11	x	0.11	0.10	0.10	x	0.17	0.08										
26	0.12	x	0.09	x	0.09	x	0.12	0.10	0.10	x										
27	0.14	0.09	0.13	0.08	0.16	0.11	0.11	x	0.17	0.09										
28	0.13	0.12	0.16	0.04	0.17	0.08	0.16	0.13	0.12	0.11										
29	0.12	x	0.08	x	0.10	x	0.22	0.13	0.11	x										
30	0.16	0.12	0.20	0.06	0.16	0.11	0.12	x	0.17	0.11										
31	0.12	x	0.08	x	0.10	x	0.09	x	0.11	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 events above 2.0 NTU this month																		0	
	Number of events above 2.0 NTU last month																		0	
	Does the filter/plant have an approved Corrective Action Plan?									N	N	N	N	N						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, A Surface Date: September 10, 2014

SURFACE WATER MONTHLY OPERATING REPORT

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

PUBLIC WATER
SYSTEM NAME: City of Wichita Falls
PWS ID No.: 2430001 Plant ID No.: 21567

PLANT NAME
OR NUMBER: Cypress DPR (Microfiltration/RO)
Month: August Year: 2014

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)	7.500	7.500	3.308	10.000	10.000	2.0		5.0	
T ₁₀ (minutes)	357.0	223.2	5.6	67.1	223.3				

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	CLA D1	2.5	7.200	28.4	6.7				
	CLA D2	2.3	7.200	26.8	6.5				
	CLA D3	2.2	2.200	26.5	6.8	9.55	21.84	4.37	
	CLA D4	3.2	10.000	26.4	9.1			(V)	
	CLA D5	3.3	10.000	26.3	9.1				
2	CLA D1	3.3	7.300	25.8	6.6				
	CLA D2	2.2	7.300	27.1	6.5				
	CLA D3	2.3	2.200	26.4	6.9	10.73	22.28	4.46	
	CLA D4	3.3	10.000	26.0	9.1			(V)	
	CLA D5	3.5	10.000	25.0	9.1				
3	CLA D1	2.9	7.200	25.3	6.7				
	CLA D2	2.0	7.200	26.0	6.5				
	CLA D3	1.6	2.200	25.5	6.8	10.07	20.24	4.05	
	CLA D4	4.1	10.000	25.1	9.1			(V)	
	CLA D5	3.3	10.000	25.2	9.1				
4	CLA D1	1.2	7.200	29.0	6.5				
	CLA D2	1.8	7.200	28.1	6.5				
	CLA D3	1.2	2.200	27.9	6.8	7.42	17.73	3.55	
	CLA D4	3.5	10.000	27.2	9.1			(V)	
	CLA D5	3.5	10.000	27.3	9.1				
5	CLA D1	2.6	7.100	27.4	6.7				
	CLA D2	1.5	7.100	27.2	6.5				
	CLA D3	1.2	2.200	27.0	6.6	9.12	20.73	4.15	
	CLA D4	3.3	10.000	27.3	9.2			(V)	
	CLA D5	3.4	10.000	26.8	9.2				
6	CLA D1	2.4	7.200	26.4	6.5				
	CLA D2	1.5	7.200	26.3	6.4				
	CLA D3	1.5	2.200	25.6	6.7	8.41	18.28	3.66	
	CLA D4	3.3	10.000	26.5	9.2			(V)	
	CLA D5	3.0	10.000	26.8	9.2				
7	CLA D1	2.2	7.200	26.6	6.6				
	CLA D2	1.5	7.200	26.7	6.5				
	CLA D3	1.5	2.200	26.7	6.8	7.90	17.52	3.50	
	CLA D4	2.8	10.000	27.2	9.1			(V)	
	CLA D5	2.9	10.000	27.0	9.0				
8	CLA D1	2.6	7.200	27.0	6.6				
	CLA D2	1.7	7.200	26.7	6.5				
	CLA D3	1.5	2.200	26.0	6.8	9.40	21.15	4.23	
	CLA D4	3.6	10.000	27.3	9.3			(V)	
	CLA D5	3.5	10.000	27.1	9.3				

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	CLA D1	2.6	7.200	27.0	6.6				
	CLA D2	1.7	7.200	26.7	6.5				
	CLA D3	1.5	2.200	26.0	6.8	9.40	21.15	4.23	
	CLA D4	3.6	10.000	27.3	9.3			(V)	
	CLA D5	3.5	10.000	27.1	9.3				
10	CLA D1	0.1	7.200	30.9	6.6				
	CLA D2	2.2	7.200	28.7	6.7				
	CLA D3	1.7	2.200	27.8	6.7	6.40	15.54	3.11	
	CLA D4	3.8	10.000	28.2	9.3			(V)	
	CLA D5	3.7	10.000	27.6	9.2				
11	CLA D1	2.2	7.200	30.0	6.5				
	CLA D2	1.9	7.200	28.3	6.5				
	CLA D3	2.0	2.200	28.0	6.5	9.22	23.51	4.61	
	CLA D4	3.7	10.000	27.7	9.3			(G)	
	CLA D5	3.7	10.000	28.2	9.2				
12	CLA D1	2.9	7.100	29.4	6.6				
	CLA D2	1.3	7.100	30.0	6.3				
	CLA D3	0.1	2.200	29.0	6.7	9.76	25.24	4.88	
	CLA D4	3.9	10.000	28.5	9.2			(G)	
	CLA D5	3.7	10.000	28.3	9.3				
13	CLA D1	2.8	7.100	26.3	6.6				
	CLA D2	1.7	7.100	26.8	6.4				
	CLA D3	1.5	2.200	26.0	6.7	9.77	22.05	4.41	
	CLA D4	3.6	10.000	27.9	9.3			(V)	
	CLA D5	3.5	10.000	27.9	9.2				
14	CLA D1	2.0	7.100	29.2	6.8				
	CLA D2	1.0	7.100	28.7	6.3				
	CLA D3	1.5	2.100	27.1	6.8	7.46	18.41	3.68	
	CLA D4	3.1	10.000	27.5	9.1			(V)	
	CLA D5	3.1	10.000	27.5	9.1				
15	CLA D1	0.5	7.100	31.6	6.8				
	CLA D2	2.0	7.100	28.3	6.7				
	CLA D3	0.9	2.100	29.3	6.7	6.18	16.02	3.09	
	CLA D4	3.2	10.000	29.1	9.1			(G)	
	CLA D5	3.1	10.000	28.8	9.1				
16	CLA D1	2.4	7.100	26.8	6.6				
	CLA D2	2.0	7.100	26.6	6.5				
	CLA D3	1.3	2.200	26.4	6.7	8.84	19.03	3.81	
	CLA D4	3.6	10.000	25.8	9.2			(V)	
	CLA D5	2.8	10.000	25.8	9.1				

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, A Surface Date: September 10, 2014

SURFACE WATER MONTHLY OPERATING REPORT

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

PUBLIC WATER SYSTEM NAME: <u>City of Wichita Falls</u>	PLANT NAME OR NUMBER: <u>Cypress DPR (Microfiltration/RO)</u>
PWS ID No.: <u>2430001</u>	Plant ID No.: <u>21567</u>
Month: <u>August</u>	Year: <u>2014</u>

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)	7.50	7.50	3.31	10.00	10.00	2.0	5.0
T ₁₀ (minutes)	357.00	223.20	5.60	67.10	223.30		

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
17	CLA D1	1.2	7.200	30.0	6.5				
	CLA D2	1.3	7.200	28.7	6.3				
	CLA D3	2.1	2.200	28.1	6.7	6.76	17.39	3.38	
	CLA D4	4.3	10.000	28.3	9.1			(G)	
	CLA D5	3.0	10.000	28.6	9.1				
18	CLA D1	2.0	7.100	29.9	6.7				
	CLA D2	2.1	7.100	27.9	6.3				
	CLA D3	2.1	2.100	26.9	6.7	8.96	22.06	4.41	
	CLA D4	3.5	10.000	27.5	9.2			(V)	
	CLA D5	3.5	10.000	27.2	9.1				
19	CLA D1	2.5	7.100	27.6	6.7				
	CLA D2	2.8	7.100	26.5	6.5				
	CLA D3	2.7	2.200	26.4	6.6	10.26	23.89	4.78	
	CLA D4	3.8	10.000	27.7	9.2			(V)	
	CLA D5	3.3	10.000	28.2	9.2				
20	CLA D1	2.4	7.200	26.2	6.6				
	CLA D2	1.5	7.200	26.3	6.4				
	CLA D3	1.4	2.200	26.4	6.8	8.64	18.54	3.71	
	CLA D4	3.5	10.000	26.4	9.2			(V)	
	CLA D5	3.2	10.000	26.5	9.2				
21	CLA D1	2.7	7.200	26.7	6.7				
	CLA D2	1.5	7.200	27.1	6.6				
	CLA D3	1.5	2.200	27.2	6.9	9.11	20.34	4.07	
	CLA D4	3.3	10.000	27.1	9.2			(V)	
	CLA D5	3.3	10.000	27.0	9.2				
22	CLA D1	2.4	7.200	27.0	6.7				
	CLA D2	1.5	7.200	27.4	6.5				
	CLA D3	1.4	2.200	27.8	6.8	8.72	19.99	4.00	
	CLA D4	3.5	10.000	28.0	9.2			(V)	
	CLA D5	3.3	10.000	27.3	9.1				
23	CLA D1	1.6	7.200	30.8	6.5				
	CLA D2	0.8	7.200	29.7	6.5				
	CLA D3	0.9	2.200	30.0	6.7	6.78	17.61	3.39	
	CLA D4	3.7	10.000	27.3	9.2			(G)	
	CLA D5	3.1	10.000	27.9	9.1				
24	CLA D1	2.5	7.100	26.8	6.6				
	CLA D2	1.6	7.100	26.9	6.4				
	CLA D3	1.4	2.200	26.4	6.7	9.55	21.14	4.23	
	CLA D4	3.8	10.000	26.1	9.2			(V)	
	CLA D5	3.8	10.000	26.9	9.1				

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
25	CLA D1	1.1	7.200	29.7	6.5				
	CLA D2	0.9	7.200	27.7	9.4				
	CLA D3	2.0	2.200	29.1	6.8	6.49	17.25	3.25	
	CLA D4	3.9	10.000	29.7	9.0			(G)	
	CLA D5	3.4	10.000	29.6	9.1				
26	CLA D1	2.3	7.100	27.7	6.5				
	CLA D2	1.9	7.100	28.0	6.2				
	CLA D3	1.8	2.200	28.1	6.6	9.69	22.98	4.60	
	CLA D4	4.0	10.000	27.9	9.1			(V)	
	CLA D5	3.9	10.000	27.7	9.1				
27	CLA D1	1.9	7.200	31.1	6.6				
	CLA D2	1.3	7.200	31.2	6.3				
	CLA D3	1.0	2.200	31.0	6.6	8.17	22.78	4.08	
	CLA D4	3.9	10.000	29.6	9.2			(G)	
	CLA D5	3.6	10.000	28.9	9.1				
28	CLA D1	2.6	7.200	27.0	6.5				
	CLA D2	1.1	7.200	27.3	6.3				
	CLA D3	1.1	2.200	26.9	6.6	9.12	20.91	4.18	
	CLA D4	4.0	10.000	27.6	9.2			(V)	
	CLA D5	3.7	10.000	27.5	9.1				
29	CLA D1	0.0	7.200	25.7	6.4				
	CLA D2	3.2	7.200	27.1	6.2				
	CLA D3	0.1	2.200	26.7	6.5	7.21	15.76	3.15	
	CLA D4	4.0	10.000	25.7	9.0			(V)	
	CLA D5	3.7	10.000	26.4	9.0				
30	CLA D1	3.0	7.300	26.3	6.5				
	CLA D2	1.7	7.300	27.0	6.2				
	CLA D3	1.3	2.200	26.7	6.6	10.26	21.58	4.32	
	CLA D4	4.1	10.000	24.7	9.1			(V)	
	CLA D5	3.8	10.000	25.5	9.0				
31	CLA D1	2.7	7.200	26.8	6.6				
	CLA D2	1.1	7.200	27.0	6.3				
	CLA D3	1.6	2.200	26.5	6.6	9.36	21.07	4.21	
	CLA D4	4.3	10.000	26.7	9.0			(V)	
	CLA D5	3.7	10.000	27.4	9.0				
						Max	10.73	25.24	
						Min	6.18	15.54	
						Avg	8.67	20.13	
						SD	1.25	2.48	

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: <u>WO0023530, A Surface</u>	Date: <u>September 10, 2014</u>
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MONTHLY TOTAL ORGANIC CARBON REMOVAL REPORT (TOCMOR)

FOR SURFACE WATER OR GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER SYSTEMS

PUBLIC WATER SYSTEM NAME:	City of Wichita Falls	PLANT NAME OR NUMBER:	Cypress DPR (Microfiltration/RO)
PWS ID No.:	2430001	Plant ID No.:	21567
Type of treatment:	☒ Conventional ☐ Unconventional	explain:	Microfiltration and Reverse Osmosis Prior to Conventional Treatment
		Month:	August
		Year:	2014

Note: Systems are required to run one TOC Sample Set every month. Additional space is provided for those systems that do additional sampling

Test No.	Test Date	Monthly TOC Sample Set			Actual % TOC Removed	Step 1 Required Removal %	Step 1 Removal Ratio	Optional data		INDIVIDUAL SAMPLE COMPLIANCE REMOVAL RATIO
		Raw Alkalinity	Raw TOC	Treated TOC				Step 2 Required % Removal	Step 2 Removal Ratio	
		Enter the Sample Set results			calculated	calculated from matrix	calculated			calculated
1	8/5	56	9.42	2.93	68.9	50	1.38			1.38
2	8/12	45	9.29	2.93	68.5	50	1.37			1.37
3	8/19	52	9.04	2.78	69.2	50	1.38			1.38
4	8/26	48	9.51	2.79	70.7	50	1.41			1.41
5										
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31										
Avg		50.25	9.32	2.86	69.32		1.39			1.39
Max		56.00	9.51	2.93	70.66		1.41			1.41
Min		45.00	9.04	2.78	68.46		1.37			1.37

TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

TOC Summary					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	
50	9.32	2.86	69.3	NA	1.39

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

Operator's Signature: _____

Certificate No. and Grade: WO0023530, A Surface

Date: September 10, 2014

Submit the report by the 10th of the month following the reporting period to:

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

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.)
Enhanced Individual Filter Performance Data Page

PUBLIC WATER
SYSTEM NAME:

City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress DPR (Microfiltration/RO)

PWS ID No.:

2430001

Plant ID No.:

21567

Month:

August

Year:

2014

Optimized Individual Filter Effluent (IFE) Performance

PERFORMANCE DATA

Filter No.	Total No. of Readings	No. of Readings > or = 0.15 NTU	Percent of Readings > or = 0.15 NTU	No. of Confirmed Readings > 0.3 NTU		Filter No.	Total No. of Readings	No. of Readings > or = 0.15 NTU	Percent of Readings > or = 0.15 NTU	No. of Confirmed Readings > 0.3 NTU
1	2,941	11	0.37%	0		26				
2	2,931	10	0.34%	0		27				
3	2,945	14	0.48%	0		28				
4	2,942	14	0.48%	0		29				
5	2,942	10	0.34%	0		30				
6						31				
7						32				
8						33				
9						34				
10						35				
11						36				
12						37				
13						38				
14						39				
15						40				
16						41				
17						42				
18						43				
19						44				
20						45				
21						46				
22						47				
23						48				
24						49				
25						50				
Summary	Were more than 5% of the IFE readings from any of the filters above the 0.15 NTU performance criteria?			No	Giardia and Cryptosporidium Log Removal Credit Allowed this Month For Enhanced IFE Performance					1.0
	Did any of the filters have confirmed IFE readings above 0.3 NTU?			No						

SUBMITTED BY:

Certificate No.

and Grade: WO0023530, A Surface

Date: September 10, 2014

MEMBRANE MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER
Pressure Decay Rate Direct Integrity Tests

PUBLIC WATER SYSTEM NAME: City of Wichita Falls PLANT NAME OR NUMBER: Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001 Plant ID No.: 21567 Month: August Year: 2014

TEST PARAMETERS & ADDITIONAL DATA																		
DIT CONDITIONS & ADDITIONAL DATA	Unit No. 1										Unit No. 2							
	DIT Cond'ns	P _{test} psi	LRC -	UCL psi/min		Prev. Month Data	DIT _{last} date	Pass? Yes/No	C/A Success?		DIT Cond'ns	P _{test} psi	LRC -	UCL psi/min		Prev. Month	DIT _{last} date	Pass? Yes/No
		16.5	2.8	1.560			7/31/14	YES	NA			16.5	2.8	1.560			7/31/14	YES
	Optional Data	Filt.Flux gfd	TMP psi								Optional Data	Filt.Flux gfd	TMP psi					

							PERFORMANCE DATA													
Date	Unit No. 1										Unit No. 2									
	Operational Data						DIT Data				Operational Data						DIT Data			
	Daily Pump. MG	Norm. Filt.Flux gfd	TMP psi	Norm. Spc.Flux gfd/psi	Daily Max. mNTU	CIP done? -	P _{Initial} psi	ΔP _{test} /Δt psi/min	DIT pass? -	C/A success? -	Daily Pump. MG	Norm. Filt.Flux gfd	TMP psi	Norm. Spc.Flux gfd/psi	Daily Max. mNTU	CIP done? -	P _{Initial} psi	ΔP _{test} /Δt psi/min	DIT pass? -	C/A success? -
1	1.286	14.2	3.4	4.24	33		18.3	0.620	YES	NA	1.318	14.2	2.5	5.81	38		18.5	0.510	YES	NA
2	1.340	14.2	3.2	4.50	40		18.3	0.620	YES	NA	0.899	14.2	2.4	5.88	24		18.5	0.510	YES	NA
3	1.539	14.2	3.3	4.28	38		18.3	0.630	YES	NA	0.189	15.1	2.4	6.25	23		18.5	0.510	YES	NA
4	1.559	14.2	3.2	4.52	35		18.2	0.650	YES	NA	0.305	14.5	2.3	6.41	29		18.4	0.520	YES	NA
5	1.716	14.2	3.2	4.43	42		18.3	0.640	YES	NA	0.802	14.1	2.3	6.26	24		18.6	0.510	YES	NA
6	1.360	14.2	3.3	4.37	36		18.4	0.630	YES	NA	1.290	14.3	2.3	6.12	38		18.6	0.540	YES	NA
7	1.270	14.2	3.2	4.44	35		18.5	0.640	YES	NA	1.330	14.2	2.3	6.17	20		18.6	0.520	YES	NA
8	1.379	14.2	3.2	4.44	33		18.5	0.650	YES	NA	1.125	14.3	2.3	6.22	25		18.6	0.520	YES	NA
9	1.232	14.2	3.1	4.58	42		18.4	0.620	YES	NA	1.331	14.3	2.3	6.22	23		18.6	0.520	YES	NA
10	1.317	14.2	3.2	4.40	35		18.4	0.630	YES	NA	1.251	14.6	2.4	6.16	45		18.6	0.500	YES	NA
11	1.220	14.2	3.1	4.58	36		18.4	0.620	YES	NA	1.310	14.1	2.3	6.18	18		18.5	0.510	YES	NA
12	1.340	14.2	3.3	4.30	30		18.4	0.630	YES	NA	1.192	14.2	2.2	6.43	31		18.6	0.500	YES	NA
13	1.267	14.2	3.3	4.30	40		18.4	0.610	YES	NA	1.360	14.2	2.3	6.17	27		18.5	0.500	YES	NA
14	1.420	14.3	3.4	4.21	37		17.4	0.550	YES	NA	1.415	14.3	2.4	6.07	35		18.8	0.450	YES	NA
15	1.302	14.2	3.1	4.54	38		18.4	0.630	YES	NA	1.302	14.2	3.1	4.53	32		18.6	0.490	YES	NA
16	1.204	14.2	3.2	4.43	99		18.5	0.600	YES	NA	1.223	14.1	2.3	6.11	28		18.7	0.490	YES	NA
17	1.288	14.2	3.2	4.38	32		18.4	0.610	YES	NA	1.307	14.2	2.4	5.97	23		18.6	0.480	YES	NA
18	1.220	14.5	3.4	4.28	28		18.5	0.610	YES	NA	1.228	14.5	2.3	6.30	27		18.6	0.480	YES	NA
19	1.322	14.5	3.3	4.44	36		18.4	0.620	YES	NA	1.300	14.6	2.4	5.99	24		18.6	0.490	YES	NA
20	1.287	14.3	3.3	4.28	36		18.5	0.610	YES	NA	1.277	14.4	2.3	6.16	26		18.7	0.480	YES	NA
21	1.305	14.2	3.2	4.46	29		18.5	0.610	YES	NA	1.306	14.2	2.4	6.03	24		18.7	0.480	YES	NA
22	1.292	14.2	3.2	4.46	42		18.5	0.600	YES	NA	1.230	14.2	2.2	6.37	35		18.7	0.470	YES	NA
23	1.323	14.2	3.2	4.40	33		18.5	0.600	YES	NA	1.294	14.1	2.3	6.06	22		18.7	0.470	YES	NA
24	1.286	14.2	3.1	4.59	32		18.5	0.610	YES	NA	1.295	14.2	2.3	6.24	27		18.6	0.500	YES	NA
25	0.730	14.9	2.3	6.61	53	yes	16.5	1.020	YES	NA	1.595	14.8	2.5	5.85	27		18.7	0.470	YES	NA
26	1.495	14.6	2.6	5.68	30		17.5	0.870	YES	NA	1.498	14.6	2.4	6.00	72		18.7	0.480	YES	NA
27	1.253	14.2	2.4	5.84	29		18.0	0.790	YES	NA	1.263	14.2	2.3	6.15	32		18.8	0.480	YES	NA
28	1.334	14.2	2.7	5.36	27		18.4	0.690	YES	NA	1.259	14.1	2.3	6.09	22		18.7	0.480	YES	NA
29	1.268	14.3	2.7	5.38	40		17.9	0.730	YES	NA	1.268	14.2	2.4	5.96	71		18.6	0.460	YES	NA
30	1.471	14.7	3.2	4.59	29		18.0	0.720	YES	NA	1.475	14.3	2.6	5.50	26		18.6	0.480	YES	NA
31	1.341	14.4	2.7	5.42	28		18.0	0.740	YES	NA	1.259	14.4	2.3	6.20	18		18.7	0.460	YES	NA

SUMMARY	Unit No. 1										Unit No. 2								
	Operational Data										Operational Data								
	DIT Data										DIT Data								
	Number of days with DIT triggered by high turbidity or particle count										0								
	Number of days with a monitoring violation										0								

SUBMITTED BY: _____ Certificate No. and Grade: WO0023530, A Surface Date: September 10, 2014

MEMBRANE MONTHLY OPERATING REPORT
FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
Pressure Decay Rate Direct Integrity Tests (cont.)

PUBLIC WATER SYSTEM NAME:	City of Wichita Falls	PLANT NAME OR NUMBER:	Cypress DPR (Microfiltration/RO)	PUBLIC SYSTEM NAME:	
PWS ID No.:	2430001	Plant ID No.:	21567	Month:	August
				Year:	2014

TEST PARAMETERS & ADDITIONAL DATA																		
DIT CONDITIONS & ADDITIONAL DATA	Unit No. 3									Unit No. 4								
	DIT Cond'n's	P _{test} psi	LRC - psi/min	UCL psi/min		Prev. Month	DIT _{last} date	Pass? Yes/No	C/A Success?		DIT Cond'n's	P _{test} psi	LRC - psi/min	UCL psi/min		Prev. Month	DIT _{last} date	Pass? Yes/No
		16.5	2.8	1.560			7/31/14	YES	NA			16.5	2.8	1.560			7/31/14	YES
	Optional Data	Flt.Fluc gfd	TMP psi								Optional Data	Flt.Fluc gfd	TMP psi					

PERFORMANCE DATA																		
Date	Unit No. 3									Unit No. 4								
	Operational Data						DIT Data			Operational Data						DIT Data		
	Daily Pump. MG	Norm. Flt.Fluc gfd	TMP psi	Norm. Spc.Fluc gfd/psi	Daily Max. mNTU	CIP done? -	P _{initial} psi	ΔP _{test} /Δt psi/min	DIT pass? -	C/A success? -	Daily Pump. MG	Norm. Flt.Fluc gfd	TMP psi	Norm. Spc.Fluc gfd/psi	Daily Max. mNTU	CIP done? -	P _{initial} psi	ΔP _{test} /Δt psi/min
1	1.229	14.2	3.4	4.14	47		18.1	0.610	YES	NA	1.385	15.0	1.2	12.75	35		18.8	0.390
2	1.424	14.2	3.4	4.15	45		18.1	0.600	YES	NA	1.341	14.5	1.0	14.06	37		18.8	0.390
3	1.521	14.2	3.3	4.29	53		18.1	0.620	YES	NA	1.638	15.4	1.2	12.75	42		18.8	0.390
4	1.479	14.2	3.4	4.15	43		18.1	0.630	YES	NA	1.516	15.6	1.1	14.61	41		18.9	0.400
5	1.467	14.2	3.3	4.33	27		18.1	0.640	YES	NA	1.403	14.3	0.9	15.38	33		18.9	0.390
6	1.260	14.3	3.4	4.26	48		18.3	0.640	YES	NA	1.280	14.7	1.0	14.98	33		19.1	0.400
7	1.353	14.2	3.3	4.34	31		18.2	0.630	YES	NA	1.243	14.6	1.0	14.75	31		19.0	0.400
8	1.235	14.2	3.2	4.44	25		18.3	0.620	YES	NA	1.433	14.9	1.0	14.50	37		19.0	0.400
9	1.584	14.2	3.3	4.30	33		18.2	0.610	YES	NA	1.259	14.7	1.0	14.27	31		18.9	0.400
10	1.585	14.2	3.2	4.51	32		18.2	0.620	YES	NA	1.489	15.6	1.2	13.47	42		18.9	0.400
11	1.315	14.2	3.3	4.36	43		18.1	0.610	YES	NA	1.232	14.2	1.0	14.80	42		18.8	0.390
12	1.650	14.2	3.1	4.52	31		18.2	0.620	YES	NA	1.406	14.5	1.0	14.50	27		18.9	0.400
13	1.368	14.2	3.4	4.21	49		18.2	0.590	YES	NA	1.254	14.3	1.0	14.48	33		18.8	0.400
14	1.426	14.3	3.3	4.29	36		17.2	0.530	YES	NA	1.607	14.9	1.1	13.50	39		18.2	0.370
15	0.133	14.2	3.4	4.14	35		18.3	0.590	YES	NA	1.233	14.3	1.0	14.90	31		18.9	0.400
16	1.234	14.2	3.3	4.36	29		18.4	0.590	YES	NA	1.298	14.3	1.0	14.28	26		19.0	0.390
17	1.298	14.2	3.5	4.10	32		18.3	0.580	YES	NA	1.227	14.5	1.0	14.77	29		18.9	0.390
18	1.377	14.7	3.3	4.41	30		18.2	0.620	YES	NA	1.396	14.6	1.0	14.28	49		19.0	0.390
19	1.238	14.7	3.6	4.11	28		18.3	0.580	YES	NA	1.322	14.8	1.0	14.80	28		19.0	0.390
20	1.384	14.4	3.3	4.37	43		18.3	0.590	YES	NA	1.261	14.7	1.1	14.00	55		19.0	0.390
21	1.223	14.2	3.3	4.25	58		18.4	0.580	YES	NA	1.335	14.3	0.9	15.54	45		19.0	0.400
22	1.364	14.2	3.2	4.48	29		18.3	0.590	YES	NA	1.328	14.7	1.0	14.59	47		19.0	0.390
23	1.224	14.2	3.2	4.42	38		18.4	0.580	YES	NA	1.319	14.2	0.9	15.63	31		19.0	0.400
24	1.380	14.2	3.3	4.26	46		18.3	0.580	YES	NA	1.263	14.3	0.9	16.44	27		19.0	0.390
25	0.415	14.2	3.4	4.17	47	yes	18.4	0.580	YES	NA	1.853	15.4	1.2	13.31	47		19.0	0.400
26	0.345	14.2	2.5	5.71	31		16.5	1.030	YES	NA	1.415	15.2	1.1	14.32	68		19.1	0.390
27	1.346	14.2	2.9	4.97	36		17.6	0.800	YES	NA	1.346	14.6	1.0	14.46	79		19.1	0.390
28	1.262	14.2	3.0	4.72	54		17.9	0.710	YES	NA	1.276	14.3	0.9	15.41	26		19.0	0.400
29	1.376	14.3	3.2	4.50	29		17.9	0.710	YES	NA	1.340	14.6	1.1	13.77	24		18.9	0.390
30	1.497	14.3	3.5	4.09	50		18.0	0.660	YES	NA	1.650	15.7	1.1	14.27	36		18.9	0.390
31	1.370	14.4	3.2	4.46	44		18.1	0.650	YES	NA	1.290	14.7	1.0	14.57	25		19.0	0.400

SUMMARY			Unit No. 3	Unit No. 4	SUMMARY
	IIT	Number of days with DIT triggered by high turbidity or particle count	0	0	
		Number of days with a monitoring violation	0	0	
	DIT	Number of days with failure to pass a DIT	0	0	
		Number of days with a treatment technique violation	0	0	
	Comments	General Remarks	Additional Comments	Additional Comments	

SUBMITTED BY:		Certificate No. and Grade:	WO0023530, A Surface	Date:	September 10, 2014	SUBMITT
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MEMBRANE MONTHLY OPERATING REPORT
 FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
 OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
Pressure Decay Rate Direct Integrity Tests (cont.)

WATER PLANT NAME
 M NAME: City of Wichita Falls OR NUMBER: Cypress DPR (Microfiltration/RO)
 No.: 2430001 Plant ID No.: 21567 Month: August Year: 2014

TEST PARAMETERS & ADDITIONAL DATA																
Unit No. 5										Unit No. 6						
DIT	P _{test}	LRC	UCL		Prev.	DIT _{last}	Pass?	C/A		DIT	P _{test}	LRC	UCL		Prev.	DIT _{last}
Cond'n's	psi	-	psi/min		Month	date	Yes/No	Success?		Cond'n's	psi	-	psi/min		Month	date
	16.5	2.8	1.560			7/31/14	YES	NA								
Optional	Filt.Flux	TMP								Optional	Filt.Flux	TMP				
Data	gfd	psi								Data	gfd	psi				

PERFORMANCE DATA																			
Unit No. 5										Unit No. 6									
Operational Data						DIT Data				Operational Data						DIT Data			
Daily Pump.	Norm. Filt.Flux	TMP	Norm. Spc.Flux	Daily Max.	CIP done?	P _{Initial}	ΔP _{test} /Δt	DIT pass?	C/A success?	Daily Pump.	Norm. Filt.Flux	TMP	Norm. Spc.Flux	Daily Max.	CIP done?	P _{Initial}	ΔP _{test} /Δt	DIT pass?	C/A success?
MG	gfd	psi	gfd/psi	mNTU	-	psi	psi/min	-	-	MG	gfd	psi	gfd/psi	mNTU	-	psi	psi/min	-	-
1.264	14.4	1.8	7.80	24		19.0	0.360	YES	NA										
1.404	14.2	1.8	8.08	24		19.0	0.360	YES	NA										
1.542	14.7	1.8	7.97	27		19.0	0.370	YES	NA										
1.617	14.7	1.9	7.78	22		19.0	0.380	YES	NA										
1.344	14.2	1.7	8.49	26		18.9	0.390	YES	NA										
1.245	14.3	1.8	7.96	22		19.1	0.370	YES	NA										
1.296	14.2	1.6	8.66	23		19.1	0.380	YES	NA										
1.304	14.4	1.8	8.14	20		19.1	0.360	YES	NA										
1.302	14.4	1.7	8.49	23		19.1	0.370	YES	NA										
1.177	14.7	1.8	7.98	67		19.0	0.360	YES	NA										
1.321	14.2	1.6	9.03	20		18.9	0.390	YES	NA										
1.286	14.3	1.7	8.41	27		19.0	0.370	YES	NA										
1.216	14.2	1.6	8.66	33		19.0	0.360	YES	NA										
0.546	14.2	1.1	12.57	39		17.2	0.890	YES	NA										
1.333	14.2	1.3	10.76	31		17.8	0.770	YES	NA										
1.184	14.2	1.4	10.29	21		18.2	0.660	YES	NA										
1.329	14.3	1.4	10.37	22		18.2	0.620	YES	NA										
1.247	14.7	1.5	10.15	23		18.4	0.580	YES	NA										
1.327	14.8	1.5	9.99	23		18.5	0.580	YES	NA										
1.281	14.6	1.5	9.73	22		18.7	0.520	YES	NA										
1.326	14.2	1.4	10.15	22		18.7	0.520	YES	NA										
1.259	14.4	1.4	10.18	17		18.8	0.490	YES	NA										
1.306	14.2	1.4	10.13	18		18.7	0.490	YES	NA										
1.260	14.2	1.4	10.53	19		18.9	0.460	YES	NA										
1.783	15.1	1.7	8.73	20		18.9	0.460	YES	NA										
1.408	14.8	1.5	9.83	26		18.8	0.480	YES	NA										
1.217	14.3	1.5	9.45	17		19.0	0.450	YES	NA										
1.372	14.2	1.4	10.16	17		18.9	0.460	YES	NA										
1.271	14.4	1.6	9.23	18		18.9	0.420	YES	NA										
1.615	15.4	1.7	9.04	16		18.9	0.420	YES	NA										
1.314	14.5	1.5	9.66	16		19.0	0.410	YES	NA										

										Unit No. 5				Unit No. 6			
IIT	Number of days with DIT triggered by high turbidity or particle count									0							
	Number of dates with monitoring violation									0							
DIT	Number of dates with failure to pass DIT									0							
	Number of dates with treatment technique violation									0							
Comments	General Remarks									Additional Comments				Additional Comments			

ED BY: Certificate No. and Grade: W00023530, A Surface Date: September 10, 2014

SURFACE WATER MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
LT2ESWTR Summary Page

PUBLIC WATER

SYSTEM NAME: City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001

Plant ID No.: 21567

Month: August

Year: 2014

Note: Indicate the treatment processes in each train. (see comment)	TREATMENT TECHNOLOGIES																
	PRETREATMENT CREDITS				FILTRATION TECHNOLOGY CREDITS						ENHANCED PERFORMANCE CREDITS		DISINFECTION TECHNOLOGY CREDITS			OTHER TREATMENT CREDITS	
	Riverbank Filtration	Presed. with Coagul.	Two-stage Lime Softening	Conventional Sedimentation or Clarification	Conventional Granular Media Filters	Bag or Cartridge Filtration	Two-Stage Filtration	Membrane Filtration (PBT)	Membrane Filtration (QBT)	Membrane Filtration (MBT)	Enhanced CFE Perform.	Optimized IFE Perform.	Crypto Chemical Disinfect.	UV Disinfect. (ISA)	UV Disinfect. (CDA)	Watershed Protection	Perform. Demon.
	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE	TRUE			TRUE	TRUE	FALSE	FALSE		FALSE	TRUE
Overall				TRUE	TRUE			TRUE			TRUE	TRUE					TRUE
Train 1				TRUE	TRUE			TRUE			TRUE	TRUE					TRUE
Train 2																	
Train 3																	
Train 4																	
Train 5																	
1								2.80									0.50
2								2.80									0.50
3								2.80									0.50
4								2.80									0.50
5								2.80									0.50
6								2.80									0.50
7								2.80									0.50
8								2.80									0.50
9								2.80									0.50
10								2.80									0.50
11								2.80									0.50
12								2.80									0.50
13								2.80									0.50
14								2.80									0.50
15								2.80									0.50
16				0.50	2.50			2.80			0.00	1.00					0.50
17								2.80									0.50
18								2.80									0.50
19								2.80									0.50
20								2.80									0.50
21								2.80									0.50
22								2.80									0.50
23								2.80									0.50
24								2.80									0.50
25								2.80									0.50
26								2.80									0.50
27								2.80									0.50
28								2.80									0.50
29								2.80									0.50
30								2.80									0.50
31								2.80									0.50
MIN				0.5	2.5			2.80			0.0	1.0					0.5

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.)

LT2ESWTR Summary Page (cont)

PUBLIC WATER

SYSTEM NAME: City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001

Plant ID No.: 21567

Month: August

Year: 2014

GIARDIA AND CRYPTOSPORIDIUM TREATMENT CREDITS												GIARDIA INACTIVATION CREDITS						VIRAL INACTIVATION CREDITS							
	Total Daily Credit By Train						Total Daily Bin 3 & 4 Credit by Train						Total Daily Inactivation Credit By Train						Total Daily Inactivation Credit by Train						
Overall						Minimum						Minimum						Minimum						Minimum	
Train 1	TRUE						TRUE						TRUE						TRUE						
Train 2		FALSE						FALSE						FALSE						FALSE					
Train 3			FALSE						FALSE						FALSE						FALSE				
Train 4				FALSE						FALSE						FALSE						FALSE			
Train 5					FALSE						FALSE						FALSE						FALSE		
1	7.30					7.30	2.80					2.80	9.55					9.55	21.84						21.84
2	7.30					7.30	2.80					2.80	10.73					10.73	22.28						22.28
3	7.30					7.30	2.80					2.80	10.07					10.07	20.24						20.24
4	7.30					7.30	2.80					2.80	7.42					7.42	17.73						17.73
5	7.30					7.30	2.80					2.80	9.12					9.12	20.73						20.73
6	7.30					7.30	2.80					2.80	8.41					8.41	18.28						18.28
7	7.30					7.30	2.80					2.80	7.90					7.90	17.52						17.52
8	7.30					7.30	2.80					2.80	9.40					9.40	21.15						21.15
9	7.30					7.30	2.80					2.80	9.40					9.40	21.15						21.15
10	7.30					7.30	2.80					2.80	6.40					6.40	15.54						15.54
11	7.30					7.30	2.80					2.80	9.22					9.22	23.51						23.51
12	7.30					7.30	2.80					2.80	9.76					9.76	25.24						25.24
13	7.30					7.30	2.80					2.80	9.77					9.77	22.05						22.05
14	7.30					7.30	2.80					2.80	7.46					7.46	18.41						18.41
15	7.30					7.30	2.80					2.80	6.18					6.18	16.02						16.02
16	7.30					7.30	2.80					2.80	8.84					8.84	19.03						19.03
17	7.30					7.30	2.80					2.80	6.76					6.76	17.39						17.39
18	7.30					7.30	2.80					2.80	8.96					8.96	22.06						22.06
19	7.30					7.30	2.80					2.80	10.26					10.26	23.89						23.89
20	7.30					7.30	2.80					2.80	8.64					8.64	18.54						18.54
21	7.30					7.30	2.80					2.80	9.11					9.11	20.34						20.34
22	7.30					7.30	2.80					2.80	8.72					8.72	19.99						19.99
23	7.30					7.30	2.80					2.80	6.78					6.78	17.61						17.61
24	7.30					7.30	2.80					2.80	9.55					9.55	21.14						21.14
25	7.30					7.30	2.80					2.80	6.49					6.49	17.25						17.25
26	7.30					7.30	2.80					2.80	9.69					9.69	22.98						22.98
27	7.30					7.30	2.80					2.80	8.17					8.17	22.78						22.78
28	7.30					7.30	2.80					2.80	9.12					9.12	20.91						20.91
29	7.30					7.30	2.80					2.80	7.21					7.21	15.76						15.76
30	7.30					7.30	2.80					2.80	10.26					10.26	21.58						21.58
31	7.30					7.30	2.80					2.80	9.36					9.36	21.07						21.07
MIN	7.30					7.30	2.80					2.80	6.18					6.18	15.54						15.54
AVG	7.30					7.30	2.80					2.80	8.67					8.67	20.13						20.13
MAX	7.30					7.30	2.80					2.80	6.18					6.18	15.54						15.54

Surface Water Monthly Operating Report

Addendum for the Direct Potable Reuse Plant

Public Water

System Name:

City of Wichita Falls

Plant Name or Number:

Cypress DPR (Microfiltration/RO)

PWS ID No.:

2430001

Month:

August

Year:

2014

Location:	TCEQ-1J	TCEQ-2J	TCEQ-2JB	TCEQ-20J						TCEQ-20J					
	Max Turbidity (NTU)	Min Monochloramine (ppm)	E. coli (CFU/100mL)	Nitrate-N (ppm)						Flow (MGD)					
Date				Train 1	Train 2	Train 3	Train 4	Train 5	Train 6	Train 1	Train 2	Train 3	Train 4	Train 5	Train 6
8/1	2.27	3.69	<4.00	X	X	5.1	X	3.9	5.2	X	X	1.57	X	1.57	1.58
8/2	2.44	3.64	<4.00	X	6.2	5.3	2.7	X	X	X	1.61	1.6	1.6	X	X
8/3	2.19	3.75	<4.00	X	X	X	2.2	5.8	8	X	X	X	1.61	1.61	1.61
8/4	1.90	3.84	<4.00	X	8.4	7.8	X	7.7	X	X	1.62	1.6	X	1.61	X
8/5	1.80	3.63	<4.00	X	5.9	X	1.7	X	7.5	X	1.6	X	1.61	X	1.6
8/6	1.82	3.58	<4.00	X	X	7.8	2.6	7.5	X	X	X	1.61	1.61	1.6	X
8/7	1.93	3.72	<4.00	X	6.1	X	X	5.6	7.2	X	1.6	X	X	1.61	1.61
8/8	1.72	3.61	<4.00	X	6.8	5.9	X	X	7.1	X	1.67	1.67	X	X	1.66
8/9	1.71	3.74	<4.00	X	5.7	4.9	X	4.8	X	X	1.63	1.64	X	1.62	X
8/10	1.84	3.80	<4.00	X	X	5.6	X	5.1	9.9	X	X	1.61	X	1.62	1.61
8/11	2.00	3.64	<4.00	X	6.9	X	X	7.6	8.3	X	1.61	X	X	1.6	1.59
8/12	2.12	3.55	<4.00	X	6.6	5	1.3	X	X	X	1.59	1.6	1.6	X	X
8/13	2.08	3.82	<4.00	X	X	5.1	X	5.9	6.7	X	X	1.61	X	1.6	1.6
8/14	2.12	4.29	<4.00	X	7.9	8.2	1.4	X	X	X	1.59	1.6	1.59	X	X
8/15	2.17	4.08	<4.00	X	7.1	X	1.7	7.1	CIP	X	1.6	X	1.61	1.61	CIP
8/16	3.71	1.05	<4.00	X	8.1	8.2	2	CIP	CIP	X	1.57	1.58	1.57	CIP	CIP
8/17	2.63	4.13	<4.00	X	X	7.4	2.4	CIP	9.2	X	X	1.57	1.56	CIP	1.55
8/18	2.19	3.47	<4.00	X	6.3	X	2.8	9	X	X	1.64	X	1.6	1.59	X
8/19	2.33	3.52	<4.00	X	X	4.8	X	8.7	8.5	X	X	1.58	X	1.57	1.58
8/20	2.08	3.97	<4.00	X	7.8	X	2	X	9.2	X	1.59	X	1.61	X	1.59
8/21	2.13	3.70	<4.00	X	6.8	5.2	X	9.4	X	X	1.6	1.6	X	1.6	X
8/22	2.27	4.31	<4.00	X	X	X	1.8	8	9.3	X	X	X	1.57	1.57	1.56
8/23	2.61	4.03	<4.00	X	6.8	5.6	X	X	9	X	1.56	1.58	X	X	1.56
8/24	2.30	4.10	<4.00	X	X	8.3	2.3	X	9.9	X	X	1.54	1.54	X	1.55
8/25	3.02	2.27	<4.00	X	X	4.7	X	7.9	8.9	X	X	1.55	X	1.57	1.56
8/26	3.49	0.40	<4.00	X	CIP	5.7	2.9	7.8	X	X	CIP	1.57	1.57	1.57	X
8/27	3.18	2.04	<4.00	X	CIP	7.3	2.4	8.3	5.7	X	CIP	1.56	1.57	1.52	1.55
8/28	4.20	4.34	<4.00	X	9.5	7	3.9	3.7	CIP	X	1.6	1.57	1.6	1.61	CIP
8/29	3.54	3.80	<4.00	X	8.4	CIP	1.8	8.4	8.2	X	1.64	CIP	1.63	1.63	1.58
8/30	2.76	3.84	<4.00	X	8.6	X	2.1	7.6	6.5	X	1.64	X	1.65	1.62	1.64
8/31	2.44	4.01	<4.00	X	9	7.7	X	X	9.2	X	1.63	1.64	X	X	1.64

*After Action Reports included for monochloramine on the 16th & 26th

Certificate No.

Submitted by:

and Grade:

WO0023530, AW

Date:

10-Sep-14

Surface Water Monthly Operating Report

Addendum for the Direct Potable Reuse Plant

Public Water System

Name: City of Wichita Falls

Plant Name or Number:

Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001

Month: August **Year:** 2014

Location:	TCEQ-20J						TCEQ-22J												
	Salt Rejection (% Removal)						Max 15-Min. Lagoon Return %	2-Hour Average Lagoon Return % Flows											
Date	Train 1	Train 2	Train 3	Train 4	Train 5	Train 6		12-2	2-4	4-6	6-8	8-10	10-12	12-2	2-4	4-6	6-8	8-10	10-12
8/1	X	X	89.4	X	86.4	84.4	48.50	x	x	x	x	x	x	x	x	x	x	x	x
8/2	X	86.5	89	96.6	X	X	49.12	x	x	x	x	x	x	x	x	x	x	x	x
8/3	X	X	X	92.5	85	82.2	50.50	45.61	44.99	45.70	46.23	46.07	46.11	47.49	47.85	48.21	48.21	46.81	44.78
8/4	X	83.7	87.8	X	84.5	X	49.69	x	x	x	x	x	x	x	x	x	x	x	x
8/5	X	86	X	96.5	X	84	49.96	x	x	x	x	x	x	x	x	x	x	x	x
8/6	X	X	89.1	95.9	87.1	X	50.18	48.44	48.26	48.68	48.57	48.03	48.83	48.63	47.27	47.03	47.20	46.90	47.14
8/7	X	86.7	X	X	87.6	83.6	50.15	46.89	46.57	46.65	38.40	45.89	47.71	47.60	48.08	47.63	47.36	47.00	47.24
8/8	X	85.1	89.6	X	X	84	48.61	x	x	x	x	x	x	x	x	x	x	x	x
8/9	X	86.7	88.4	X	83.6	X	49.31	x	x	x	x	x	x	x	x	x	x	x	x
8/10	X	X	88.7	X	86.4	83	49.63	x	x	x	x	x	x	x	x	x	x	x	x
8/11	X	84.5	X	X	85	82	49.22	x	x	x	x	x	x	x	x	x	x	x	x
8/12	X	85.3	88.8	97.1	X	X	48.58	x	x	x	x	x	x	x	x	x	x	x	x
8/13	X	X	89.3	X	86.6	83.9	48.93	x	x	x	x	x	x	x	x	x	x	x	x
8/14	X	85.6	89.1	97.2	X	X	53.15	46.39	46.32	46.75	46.09	45.55	46.14	37.93	46.95	46.13	45.18	44.97	45.02
8/15	X	86.6	X	97.4	87.2	CIP	49.03	x	x	x	x	x	x	x	x	x	x	x	x
8/16	X	85.3	89.2	97.8	CIP	CIP	48.58	x	x	x	x	x	x	x	x	x	x	x	x
8/17	X	X	88.4	97.2	CIP	77.3	47.79	x	x	x	x	x	x	x	x	x	x	x	x
8/18	X	84.7	X	97.1	77.9	X	48.06	x	x	x	x	x	x	x	x	x	x	x	x
8/19	X	X	88.4	X	78	77	46.28	x	x	x	x	x	x	x	x	x	x	x	x
8/20	X	85.2	X	97.4	X	77.4	48.99	x	x	x	x	x	x	x	x	x	x	x	x
8/21	X	85.8	89.4	X	79.4	X	48.54	x	x	x	x	x	x	x	x	x	x	x	x
8/22	X	X	X	97.3	79	76.5	49.73	x	x	x	x	x	x	x	x	x	x	x	x
8/23	X	83.7	86.3	X	X	75	47.30	x	x	x	x	x	x	x	x	x	x	x	x
8/24	X	X	87.4	96.7	X	74.5	47.33	x	x	x	x	x	x	x	x	x	x	x	x
8/25	X	X	84.9	X	76.4	74.2	47.32	x	x	x	x	x	x	x	x	x	x	x	x
8/26	X	CIP	87.3	96	80.6	X	48.63	x	x	x	x	x	x	x	x	x	x	x	x
8/27	X	CIP	87.8	96.9	82	81.1	49.13	x	x	x	x	x	x	x	x	x	x	x	x
8/28	X	75.3	88.2	97.1	80	CIP	48.60	x	x	x	x	x	x	x	x	x	x	x	x
8/29	X	79.6	CIP	97.1	80.8	78.6	46.42	x	x	x	x	x	x	x	x	x	x	x	x
8/30	X	76	X	97.2	81.5	76.9	47.64	x	x	x	x	x	x	x	x	x	x	x	x
8/31	X	76.1	85.2	X	X	75.9	48.64	x	x	x	x	x	x	x	x	x	x	x	x

Certificate No.

Submitted by: _____

and Grade: WO0023530, AW **Date:** 10-Sep-14

Surface Water Monthly Operating Report

Addendum for the Direct Potable Reuse Plant

Public Water System Name: City of Wichita Falls

Plant Name or Number: Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001

Month: August **Year:** 2014

Location:	TCEQ-41J	TCEQ-42J
	Min. 2-hr. Ground Storage Tank Level (% Full)	Min Total Chlorine Residual (ppm)
Date		
8/1	66%	2.50
8/2	66%	2.40
8/3	77%	2.40
8/4	72%	2.80
8/5	73%	2.70
8/6	73%	1.30
8/7	67%	2.20
8/8	67%	2.30
8/9	75%	3.20
8/10	79%	3.30
8/11	75%	3.30
8/12	74%	3.40
8/13	79%	3.20
8/14	79%	2.50
8/15	67%	2.50
8/16	65%	2.90
8/17	66%	3.00
8/18	60%	3.20
8/19	62%	3.10
8/20	60%	3.10
8/21	67%	3.00
8/22	70%	3.00
8/23	73%	3.10
8/24	77%	3.00
8/25	75%	3.10
8/26	75%	3.20
8/27	79%	3.20
8/28	70%	3.20
8/29	69%	3.20
8/30	71%	3.20
8/31	70%	3.30

TCEQ-20J					
Current Month Average Salt Rejection					
Train 1	Train 2	Train 3	Train 4	Train 5	Train 6
X	83.6	88.2	96.7	82.8	79.6

TCEQ-20J					
Previous Month Average Salt Rejection					
Train 1	Train 2	Train 3	Train 4	Train 5	Train 6
73.5	85.4	84.7	96.5	86.6	83.3

TCEQ-42J			
	Nitrate-N	Nitrite-N	<i>E. coli</i>
Date	(ppm)	(ppm)	MPN
8/4	1.53	0.03	0.0
8/11	2.13	0.02	0.0
8/18	1.67	0.02	0.0
8/25	2.46	0.02	0.0

TCEQ-2JB			
	<i>Cryptosporidium</i>	<i>Giardia</i>	TCV
Date	(oocysts/L)	(cysts/L)	MPN
8/27	1.06	12.70	*

Previous Month's Virus Data			
TCEQ-2JB			
	<i>Enterovirus</i>	<i>Norovirus</i>	TCV
Date	MPN/100mL		
7/14	<0.7257	<0.7257	<0.7257

TCEQ-42J			
	<i>Cryptosporidium</i>	<i>Giardia</i>	TCV
Date	(oocysts/L)	(cysts/L)	MPN
8/5	0.00	0.00	*
8/20	0.00	0.00	*

TCEQ-42J			
	<i>Enterovirus</i>	<i>Norovirus</i>	TCV
Date	MPN/100mL		
7/15	<0.1	<0.1	<0.1

* Sample TCEQ-2JB virus was collected on 8/4, results will be returned in September. Sample TCEQ-2JB Crypto/Giardia was also collected on 8/4 but the UPS shipping process delayed the samples out of hold time (See attached After Action Report). Samples were recollected on the 27th. Sample TCEQ-42J virus was collected on 8/5, results will be returned in September.

Submitted by: _____

Certificate No. and Grade:

WO0023530, AW **Date:** 10-Sep-14

Surface Water Monthly Operating Report

Addendum for the Direct Potable Reuse Plant

Public Water

System Name:

City of Wichita Falls

Plant Name or Number:

Cypress DPR (Microfiltration/RO)

PWS ID No.:

2430001

Month:

September

Year:

2014

Location:	TCEQ-1J	TCEQ-2J	TCEQ-2JB	TCEQ-20J						TCEQ-20J					
	Max Turbidity (NTU)	Min Mono-chloramine (ppm)	E. coli (CFU/100mL)	Nitrate-N (ppm)						Flow (MGD)					
Date				Train 1	Train 2	Train 3	Train 4	Train 5	Train 6	Train 1	Train 2	Train 3	Train 4	Train 5	Train 6
9/1	3.92	3.64	<4.00	X	X	5.7	X	7.6	6.4	X	X	1.61	X	1.63	1.62
9/2	2.70	0.01	<4.00	X	8.6	7.6	X	8.8	X	X	1.61	1.61	X	1.61	X
9/3	2.66	3.45	<4.00	X	9.1	7.1	X	X	8.4	X	1.62	1.6	X	X	1.6
9/4	2.59	2.40	<4.00	X	X	X	1.9	8	9.1	X	X	X	1.6	1.62	1.61
9/5	2.66	4.30	<4.00	X	8.5	5.4	1.9	X	X	X	1.61	1.62	1.61	X	X
9/6	2.84	3.00	<4.00	X	8	X	X	6.4	7.3	X	1.64	X	X	1.59	1.57
9/7	2.53	4.08	<4.00	X	X	6.4	2	7.6	X	X	X	1.58	1.57	1.56	X
9/8	10.52	4.01	<4.00	X	7.9	X	1.6	X	8.4	X	1.57	X	1.63	X	1.63
9/9	29.94	3.22	<4.00	X	X	5.9	X	6.8	6.7	X	X	1.57	X	1.56	1.59
9/10	9.67	3.05	<4.00	X	9.1	5.9	1.8	X	X	X	1.56	1.57	1.56	X	X
9/11	2.65	3.62	<4.00	X	9.5	X	X	6.9	8	X	1.52	X	X	1.52	1.5
9/12	2.83	3.56	<4.00	X	9.6	5.6	X	X	7.9	X	1.51	1.5	X	X	1.5
9/13	2.77	3.97	<4.00	X	7.7	4.8	X	5.5	CIP	X	1.5	1.5	X	1.51	CIP
9/14	2.77	4.06	<4.00	X	6.9	5.3	2.2	X	CIP	X	1.5	1.5	1.5	X	CIP
9/15	2.76	4.35	<4.00	X	X	5.3	3.6	6.9	8.4	X	X	1.5	1.5	1.47	1.5
9/16	3.15	3.41	<4.00	X	8.2	X	2.4	CIP	7.4	X	1.53	X	1.54	CIP	1.54
9/17	2.84	3.05	<4.00	X	8.7	6	CIP	8.2	6.9	X	1.51	1.5	CIP	1.5	1.5
9/18	2.78	3.30	<4.00	X	8	X	3.6	9	8.5	X	1.47	X	1.57	1.47	1.47
9/19	2.95	3.36	<4.00	X	CIP	CIP	2.7	8	8.1	X	CIP	CIP	1.57	1.58	1.56
9/20	2.88	4.25	<4.00	X	CIP	CIP	2.5	9.5	9	X	CIP	CIP	1.5	1.5	1.51
9/21	4.44	3.84	<4.00	X	7.9	5.2	X	7.2	X	X	1.5	1.51	X	1.52	X
9/22	4.10	4.18	<4.00	X	9	7	2.7	X	X	X	1.51	1.51	1.51	X	X
9/23	3.98	4.02	<4.00	X	X	X	3.2	6.9	9.7	X	X	X	1.49	1.51	1.52
9/24	3.88	3.77	<4.00	X	9.3	7.4	X	9.1	X	X	1.6	1.6	X	1.6	X
9/25	6.80	3.76	<4.00	X	9.2	X	2.9	X	8.3	X	1.57	X	1.57	X	1.57
9/26	5.33	3.81	<4.00	X	X	6.7	3	8.7	X	X	X	1.59	1.57	1.61	X
9/27	3.81	3.73	<4.00	X	8.8	X	X	9.2	8.7	X	1.51	X	X	1.51	1.51
9/28	3.37	4.02	<4.00	X	9	6.3	2.2	X	X	X	1.51	1.51	1.5	X	X
9/29	2.97	3.31	4	X	9.1	X	X	8.6	7.9	X	1.5	X	X	1.51	1.53
9/30	2.92	4.06	<4.00	X	X	7.8	3.5	X	9.5	X	X	1.51	1.5	X	1.5
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

*

*

See attached After Action Reports

Certificate No.

Submitted by:

and Grade:

WO0023530, AW

Date:

10-Oct-14

Surface Water Monthly Operating Report

Addendum for the Direct Potable Reuse Plant

Public Water System

Name: City of Wichita Falls

Plant Name or Number:

Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001

Month: September **Year:** 2014

Location:	TCEQ-20J						TCEQ-22J												
	Salt Rejection (% Removal)						Max 15-Min. Lagoon Return %	2-Hour Average Lagoon Return % Flows											
Date	Train 1	Train 2	Train 3	Train 4	Train 5	Train 6		12-2	2-4	4-6	6-8	8-10	10-12	12-2	2-4	4-6	6-8	8-10	10-12
9/1	X	X	84.8	X	75.2	80.7	47.47	x	x	x	x	x	x	x	x	x	x	x	x
9/2	X	75	84.9	X	80.1	X	48.10	x	x	x	x	x	x	x	x	x	x	x	x
9/3	X	76.2	84.9	X	X	78.4	48.54	x	x	x	x	x	x	x	x	x	x	x	x
9/4	X	X	X	97.3	80.9	77.8	48.24	x	x	x	x	x	x	x	x	x	x	x	x
9/5	X	77.2	86.5	97.4	X	X	47.84	x	x	x	x	x	x	x	x	x	x	x	x
9/6	X	77.8	X	X	82.5	78.7	50.06	46.49	46.39	46.72	46.75	46.70	47.44	46.98	46.85	46.32	47.03	46.98	47.08
9/7	X	X	87	97.4	81.9	X	48.27	x	x	x	x	x	x	x	x	x	x	x	x
9/8	X	75.3	X	96.5	X	75.6	48.29	x	x	x	x	x	x	x	x	x	x	x	x
9/9	X	X	85.3	X	80	76.8	48.13	x	x	x	x	x	x	x	x	x	x	x	x
9/10	X	76.3	85.5	96.3	X	X	48.01	x	x	x	x	x	x	x	x	x	x	x	x
9/11	X	77.2	X	X	80.8	77.5	46.46	x	x	x	x	x	x	x	x	x	x	x	x
9/12	X	77	86.2	X	X	77.9	44.73	x	x	x	x	x	x	x	x	x	x	x	x
9/13	X	79.6	87.4	X	82	CIP	44.63	x	x	x	x	x	x	x	x	x	x	x	x
9/14	X	78.7	88.1	96.5	X	CIP	44.66	x	x	x	x	x	x	x	x	x	x	x	x
9/15	X	X	85.5	95.6	78.2	75.8	43.68	x	x	x	x	x	x	x	x	x	x	x	x
9/16	X	77.5	X	96	CIP	76.4	48.40	x	x	x	x	x	x	x	x	x	x	x	x
9/17	X	77.9	86.7	CIP	74.7	75.1	48.70	x	x	x	x	x	x	x	x	x	x	x	x
9/18	X	77.5	X	92.8	76	76.6	46.64	x	x	x	x	x	x	x	x	x	x	x	x
9/19	X	CIP	CIP	96.1	77.4	77	46.54	x	x	x	x	x	x	x	x	x	x	x	x
9/20	X	CIP	CIP	95.5	74.9	74.4	46.19	x	x	x	x	x	x	x	x	x	x	x	x
9/21	X	75.4	84.8	X	75	X	44.94	x	x	x	x	x	x	x	x	x	x	x	x
9/22	X	75.1	83.9	95.9	X	X	47.47	x	x	x	x	x	x	x	x	x	x	x	x
9/23	X	X	X	96.3	76.5	74.6	49.90	x	x	x	x	x	x	x	x	x	x	x	x
9/24	X	75.7	85.7	X	76.6	X	47.74	x	x	x	x	x	x	x	x	x	x	x	x
9/25	X	76.4	X	96.6	X	75.4	46.92	x	x	x	x	x	x	x	x	x	x	x	x
9/26	X	X	85.3	96.4	77.7	X	48.33	x	x	x	x	x	x	x	x	x	x	x	x
9/27	X	75.6	X	X	75.4	73.1	48.58	x	x	x	x	x	x	x	x	x	x	x	x
9/28	X	77.1	85.4	96.3	X	X	48.84	x	x	x	x	x	x	x	x	x	x	x	x
9/29	X	73.9	X	X	74.4	72.9	47.52	x	x	x	x	x	x	x	x	x	x	x	x
9/30	X	X	85.4	96.1	X	74.1	47.46	x	x	x	x	x	x	x	x	x	x	x	x
X	X	X	X	X	X	X	X	x	x	x	x	x	x	x	x	x	x	x	x

Certificate No.

Submitted by: _____

and Grade: WO0023530, AW **Date:** 10-Oct-14

Surface Water Monthly Operating Report

Addendum for the Direct Potable Reuse Plant

Public Water System Name: City of Wichita Falls

Plant Name or Number:
Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001

Month: September **Year:** 2014

Location:	TCEQ-41J	TCEQ-42J
Date	Min. Ground Storage Tank Level (% Full)	Min Total Chlorine Residual (ppm)
9/1	66%	3.40
9/2	55%	3.30
9/3	61%	3.30
9/4	73%	3.30
9/5	70%	3.10
9/6	74%	3.00
9/7	76%	3.40
9/8	76%	3.70
9/9	75%	3.30
9/10	75%	3.30
9/11	64%	3.30
9/12	64%	3.50
9/13	59%	3.70
9/14	59%	3.60
9/15	60%	3.30
9/16	66%	3.10
9/17	71%	3.10
9/18	74%	3.40
9/19	72%	3.60
9/20	70%	3.60
9/21	65%	2.70
9/22	63%	3.00
9/23	60%	2.50
9/24	57%	2.50
9/25	65%	2.70
9/26	74%	2.90
9/27	76%	2.90
9/28	70%	3.10
9/29	64%	3.20
9/30	73%	3.10
X	X	X

TCEQ-20J					
Current Month Average Salt Rejection					
Train 1	Train 2	Train 3	Train 4	Train 5	Train 6
X	76.6	85.7	96.2	77.9	76.3

TCEQ-20J					
Previous Month Average Salt Rejection					
Train 1	Train 2	Train 3	Train 4	Train 5	Train 6
X	83.6	88.2	96.7	82.8	80

TCEQ-42J			
	Nitrate-N	Nitrite-N	<i>E. coli</i>
Date	(ppm)	(ppm)	MPN
9/2	3.26	0.02	0.0
9/8	2.26	0.02	0.0
9/15	1.98	0.02	0.0
9/22	2.53	0.02	0.0
9/29	2.60	0.02	0.0
TCEQ-2JB			
	<i>Cryptosporidium</i>	<i>Giardia</i>	TCV
Date	(oocysts/L)	(cysts/L)	MPN
9/2	0.00	15.87	*

Previous Month's Virus Data			
TCEQ-2JB			
	<i>Enterovirus</i>	<i>Norovirus</i>	TCV
Date	MPN/100mL		

TCEQ-42J			
	<i>Cryptosporidium</i>	<i>Giardia</i>	TCV
Date	(oocysts/L)	(cysts/L)	MPN
9/3	0.00	0.00	*
9/16	0.00	0.00	*

TCEQ-42J			
	<i>Enterovirus</i>	<i>Norovirus</i>	TCV
Date	MPN/100mL		

* Virus sample results will be reported next month.

* Previous month's virus samples for TCEQ-2JB and 42J are still being tested.

Submitted by: _____

Certificate No. and Grade:

WO0023530, AW **Date:** 10-Oct-14

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 DPR (Microfiltration/RO)

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

Plant ID No.: 21567

Operator's Signature:

Report for
the Month of: September 2014

Certificate No. & Grade: WO0023530, A Surface

Date: October 10, 2014

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	180	Number of 4-hour periods when plant was off-line:	0
Number of readings above 0.10 NTU:	36	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:	0.16 NTU	Average turbidity value:	0.09 NTU
	Minimum turbidity reading:	0.04 NTU	Standard deviation:	0.023 NTU
	CFE 95 th percentile value:	0.13 NTU	IFE 95 th percentile:	0.280 NTU

Bin Class: 4	Crypto Credit Required: 5.5 (7A)	Crypto Credit Achieved: 7.3 (7B)	Bin 3&4 Credits: 2.8 (7C)
Watershed Protection:	0.0	Conventional Treatment:	3.0
Bank Filtration:	0.0	Enhanced Filter Performance:	1.0
Presedimentation with Coagulation:	0.0	Bag and Cartridge Filtration:	0.0
Two-Stage Lime Softening:	0.0	Membrane Filtration:	2.8
		Second Stage Filtration:	0.0
		UV:	0.0
		Ozone, Chlorine Dioxide:	0.0
		Perform. Demonstration:	0.5

Number of days with a low CT for no more than 4.0 consecutive hours:	0	Average log inactivation for Giardia:	8.30
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Average log inactivation for viruses:	17.81
		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:	164 (at least 100 required) (8)
Average disinfectant residual value:	3.04
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.

P.2-Turbidity Data	P.3-Filter Data	P.4&5-Disinfection Data	P.6-TOCMOR
Alternate Technol.	Enhanced IFE Worksheet		
Membranes-PBT			Performance Demonstration

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

This edition of the SWMOR-Alt was customized by the TCEQ on 05/18/14 for use during the City of Wichita Falls Temporary Direct Potable Reuse Project.

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: <u>City of Wichita Falls</u>	PLANT NAME OR NUMBER: <u>Cypress DPR (Microfiltration/RO)</u>
PWS ID No.: <u>2430001</u> Plant ID No.: <u>21567</u>	Connections: <u>33,112</u>
Month: <u>September</u> Year: <u>2014</u>	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.						Combined Filter Effluent Turbidity						Lowest Residual	Time
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6		
1	5.000	10.947	3	33	1.5	1.8					0.08	0.07	0.07	0.07	0.08	0.09	3.4	
2	5.000	10.780	3	37	1.2	1.2					0.09	0.08	0.07	0.08	0.08	0.09	3.3	
3	5.000	7.649	2	49	1.6	1.4					0.09	0.09	0.07	0.07	0.07	0.08	3.3	
4	5.000	10.082	2	53	1.4	1.0					0.07	0.08	0.07	0.07	0.07	0.08	3.3	
5	5.000	9.800	2	55	1.0	1.1					0.09	0.10	0.11	0.09	0.11	0.11	3.1	
6	5.000	9.320	2	52	1.1	1.2					0.12	0.07	0.08	0.08	0.07	0.08	3.0	
7	5.000	9.573	2	47	1.0	1.6					0.09	0.09	0.09	0.11	0.10	0.09	3.4	
8	5.000	9.923	2	49	1.0	1.3					0.09	0.08	0.08	0.08	0.09	0.11	3.7	
9	5.000	8.990	2	44	1.4	1.8					0.11	0.11	0.10	0.09	0.08	0.09	3.3	
10	5.000	10.897	2	46	1.7	1.8					0.08	0.08	0.11	0.14	0.12	0.13	3.3	
11	5.000	11.753	2	50	1.1	1.4					0.12	0.09	0.13	0.16	0.11	0.15	3.3	
12	5.000	10.364	2	30	1.3	1.9					0.06	0.13	0.05	0.09	0.12	0.12	3.5	
13	5.000	11.030	3	37	1.3	1.5					0.11	0.12	0.10	0.10	0.11	0.12	3.7	
14	5.000	9.001	2	39	1.2	1.9					0.14	0.10	0.15	0.15	0.14	0.14	3.6	
15	5.000	9.708	3	33	1.4	2.2					0.13	0.13	0.11	0.10	0.10	0.11	3.3	
16	5.000	8.626	3	44	1.5	3.3					0.11	0.10	0.09	0.08	0.07	0.08	3.1	
17	5.000	9.518	2	54	1.5	1.2					0.10	0.11	0.11	0.08	0.09	0.10	3.1	
18	5.000	10.947	2	61	1.6	1.2					0.09	0.09	0.09	0.10	0.09	0.10	3.4	
19	5.000	10.130	2	45	1.1	0.9					0.10	0.09	0.09	0.07	0.08	0.07	3.6	
20	5.000	11.333	2	72	1.5	1.2					0.08	0.08	0.08	0.07	0.07	0.07	3.6	
21	5.000	10.240	2	46	1.2	1.3					0.08	0.07	0.07	0.06	0.06	0.07	2.7	
22	5.000	9.400	2	45	1.2	1.8					0.07	0.08	0.08	0.06	0.06	0.06	3.0	
23	5.000	10.647	2	49	2.1	1.7					0.10	0.10	0.06	0.06	0.07	0.07	2.5	
24	5.000	9.988	3	47	1.4	2.2					0.07	0.07	0.06	0.06	0.06	0.06	2.5	
25	5.000	8.103	3	50	1.8	1.6					0.08	0.06	0.06	0.05	0.05	0.05	2.7	
26	5.000	11.331	3	37	1.1	1.9					0.06	0.05	0.06	0.06	0.06	0.07	2.9	
27	5.000	9.742	3	48	1.4	1.6					0.10	0.08	0.07	0.06	0.07	0.08	2.9	
28	5.000	11.472	3	40	1.7	2.3					0.09	0.09	0.07	0.06	0.06	0.06	3.1	
29	5.000	9.154	2	43	2.1	1.2					0.06	0.06	0.06	0.06	0.07	0.06	3.2	
30	5.000	10.046	3	43	1.2	1.3					0.06	0.09	0.07	0.04	0.06	0.08	3.1	
31																		
Total	150.000	300.494	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	5.000	10.016																
Max	5.000	11.753																
Min	5.000	7.649																

SUBMITTED BY: _____	Certificate No. and Grade: <u>W00023530, A Surface</u>	Date: <u>October 10, 2014</u>
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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.)
Filter Data Page

PUBLIC WATER
SYSTEM NAME: City of Wichita Falls

PLANT NAME
OR NUMBER: Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001 Plant ID No.: 21567

Month: September Year: 2014

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	
	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	0.08	X	0.12	0.10	0.08	X	0.28	0.10	0.08	X								
2	0.27	0.09	0.10	X	0.25	0.09	0.09	X	0.13	0.09								
3	0.08	X	0.07	X	0.09	X	0.08	X	0.09	X								
4	0.08	X	0.09	X	0.09	X	0.14	0.13	0.09	X								
5	0.28	0.10	0.14	0.13	0.16	0.12	0.14	X	0.14	0.10								
6	0.11	X	0.11	X	0.12	X	0.14	0.12	0.11	X								
7	0.23	0.12	0.17	0.12	0.25	0.11	0.13	X	0.28	0.11								
8	0.28	0.12	0.26	0.13	0.29	0.14	0.26	0.15	0.22	0.15								
9	0.11	X	0.12	X	0.12	X	0.13	X	0.12	X								
10	0.19	0.09	0.15	0.12	0.27	0.12	0.24	0.12	0.24	0.12								
11	0.26	0.13	0.28	0.14	0.26	0.18	0.28	0.10	0.23	0.11								
12	0.13	X	0.19	0.12	0.13	X	0.13	X	0.11	X								
13	0.27	0.15	0.13	X	0.18	0.14	0.28	0.17	0.28	0.15								
14	0.24	0.13	0.30	0.14	0.26	0.18	0.12	0.12	0.23	0.16								
15	0.12	X	0.12	X	0.15	X	0.29	X	0.16	X								
16	0.12	0.04	0.19	0.13	0.11	X	0.12	X	0.10	X								
17	0.09	x	0.10	x	0.23	0.14	0.18	0.11	0.15	0.11								
18	0.11	0.10	0.15	0.10	0.16	0.14	0.10	x	0.11	x								
19	0.09	x	0.10	x	0.11	x	0.14	0.11	0.11	x								
20	0.08	x	0.08	x	0.09	x	0.10	x	0.07	x								
21	0.08	x	0.08	x	0.09	x	0.10	x	0.08	x								
22	0.26	0.12	0.13	x	0.23	0.13	0.19	x	0.21	0.10								
23	0.19	x	0.25	x	0.30	0.07	0.20	0.10	0.28	x								
24	0.07	x	0.09	x	0.09	x	0.10	x	0.07	x								
25	0.06	x	0.07	x	0.08	x	0.08	x	0.06	x								
26	0.27	0.10	0.22	0.06	0.17	0.13	0.08	x	0.16	0.10								
27	0.09	x	0.10	x	0.14	x	0.28	0.11	0.10	x								
28	0.07	x	0.07	x	0.08	x	0.10	x	0.07	x								
29	0.06	x	0.07	x	0.07	x	0.08	x	0.06	x								
30	0.10	0.09	0.24	0.10	0.10	x	0.07	x	0.05	x								
31																		
SUMMARY & COMPLIANCE ACTIONS	Criteria								Filter No.									
									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 events above 2.0 NTU this month																	
	Number of events above 2.0 NTU last month																	
	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?																	

SUBMITTED BY: _____ Certificate No. _____ and Grade: WO0023530, A Surface Date: October 10, 2014

SURFACE WATER MONTHLY OPERATING REPORT

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

PUBLIC WATER SYSTEM NAME: City of Wichita Falls
PWS ID No.: 2430001 Plant ID No.: 21567

PLANT NAME OR NUMBER: Cypress DPR (Microfiltration/RO)
Month: September Year: 2014

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)	7.500	7.500	3.308	10.000	10.000	2.0		5.0	
T ₁₀ (minutes)	357.0	223.2	5.6	67.1	223.3				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	CLA D1	1.9	7.200	30.3	6.5				
	CLA D2	1.2	7.200	28.7	6.1				
	CLA D3	2.0	2.200	28.3	6.5	8.18	21.54	4.09	
	CLA D4	3.5	10.000	28.2	9.0			(G)	
	CLA D5	3.8	10.000	28.9	8.9				
2	CLA D1	2.2	7.400	27.9	6.5				
	CLA D2	1.1	7.400	27.6	6.2				
	CLA D3	0.1	2.200	27.2	6.5	8.45	19.58	3.92	
	CLA D4	4.2	10.000	26.7	9.3			(V)	
	CLA D5	3.7	10.000	27.2	8.9				
3	CLA D1	1.8	7.400	29.9	6.6				
	CLA D2	1.9	7.400	28.7	6.3				
	CLA D3	1.6	2.200	28.8	6.6	8.60	21.54	4.30	
	CLA D4	3.4	10.000	27.8	9.1			(G)	
	CLA D5	3.9	10.000	27.6	9.0				
4	CLA D1	2.6	7.200	26.8	9.0				
	CLA D2	1.1	7.200	27.3	6.3				
	CLA D3	1.0	2.200	27.3	6.6	9.16	19.85	3.97	
	CLA D4	3.8	10.000	26.3	9.0			(V)	
	CLA D5	3.8	10.000	25.9	9.0				
5	CLA D1	2.3	7.400	26.9	6.7				
	CLA D2	1.2	7.400	27.8	6.5				
	CLA D3	1.2	2.200	27.1	6.7	8.31	18.60	3.72	
	CLA D4	3.5	10.100	26.8	9.2			(V)	
	CLA D5	3.5	10.100	26.7	9.0				
6	CLA D1	1.0	7.300	24.7	6.7				
	CLA D2	1.7	7.300	26.4	6.8				
	CLA D3	1.7	2.200	26.8	6.8	7.17	15.17	3.03	
	CLA D4	4.3	10.000	24.9	9.1			(V)	
	CLA D5	3.5	10.000	26.8	9.0				
7	CLA D1	2.4	7.100	24.8	6.5				
	CLA D2	1.6	7.100	25.0	6.4				
	CLA D3	1.5	2.200	25.1	6.7	9.83	19.39	3.88	
	CLA D4	5.3	10.000	24.3	9.0			(V)	
	CLA D5	4.0	10.000	25.2	9.0				
8	CLA D1	2.9	7.100	26.1	6.2				
	CLA D2	1.6	7.100	26.4	6.3				
	CLA D3	1.8	2.200	26.1	6.6	10.32	21.75	4.35	
	CLA D4	4.1	10.000	25.7	9.0			(V)	
	CLA D5	3.9	10.000	26.0	8.9				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	CLA D1	1.9	7.300	28.8	6.6				
	CLA D2	1.2	7.300	28.0	6.4				
	CLA D3	1.1	2.200	27.9	6.7	7.92	20.60	3.96	
	CLA D4	3.5	10.000	28.1	9.0			(G)	
	CLA D5	3.6	10.000	30.0	8.9				
10	CLA D1	1.7	7.400	28.7	6.5				
	CLA D2	0.5	7.400	28.7	6.4				
	CLA D3	0.6	2.200	30.3	6.8	6.60	16.47	3.29	
	CLA D4	3.5	10.000	27.6	9.0			(V)	
	CLA D5	3.2	10.000	28.6	8.9				
11	CLA D1	2.6	7.200	25.8	6.6				
	CLA D2	1.4	7.200	26.0	6.4				
	CLA D3	1.5	2.200	26.4	6.7	9.48	19.27	3.85	
	CLA D4	4.6	10.000	25.4	9.0			(V)	
	CLA D5	3.6	10.000	25.1	9.0				
12	CLA D1	2.6	7.200	22.6	6.3				
	CLA D2	1.4	7.200	22.8	6.2				
	CLA D3	1.5	2.200	23.9	6.6	7.81	15.75	3.15	
	CLA D4	4.5	10.000	21.2	8.9			(V)	
	CLA D5	4.0	10.000	21.7	8.9				
13	CLA D1	2.2	7.200	22.5	6.4				
	CLA D2	1.7	7.200	23.6	6.1				
	CLA D3	1.2	2.200	23.2	6.3	7.80	15.71	3.14	
	CLA D4	4.3	10.000	19.9	9.0			(V)	
	CLA D5	4.2	10.000	22.5	8.7				
14	CLA D1	2.1	7.100	23.0	6.5				
	CLA D2	1.4	7.100	23.9	6.3				
	CLA D3	1.1	5.300	22.8	6.6	7.16	14.40	2.88	
	CLA D4	3.5	10.000	21.8	9.0			(V)	
	CLA D5	3.7	10.000	22.4	8.8				
15	CLA D1	2.7	7.400	26.0	6.4				
	CLA D2	1.1	7.400	25.6	6.1				
	CLA D3	1.1	2.200	25.4	6.6	8.47	17.27	3.45	
	CLA D4	3.8	10.000	24.4	9.0			(V)	
	CLA D5	3.2	10.000	24.5	8.9				
16	CLA D1	2.4	7.300	27.7	6.7				
	CLA D2	1.5	7.300	27.3	6.3				
	CLA D3	1.5	2.200	27.8	6.5	8.32	18.20	3.64	
	CLA D4	3.4	10.000	24.7	9.0			(V)	
	CLA D5	3.1	10.000	24.5	9.0				

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, A Surface Date: October 10, 2014

SURFACE WATER MONTHLY OPERATING REPORT

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

PUBLIC WATER SYSTEM NAME: <u>City of Wichita Falls</u>	PLANT NAME OR NUMBER: <u>Cypress DPR (Microfiltration/RO)</u>
PWS ID No.: <u>2430001</u>	Plant ID No.: <u>21567</u>
Month: <u>September</u>	Year: <u>2014</u>

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)	7.50	7.50	3.31	10.00	10.00	2.0		5.0	
T ₁₀ (minutes)	357.00	223.20	5.60	67.10	223.30				

PERFORMANCE DATA										
Date	DISINFECTION PROCESS DATA									
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=	
17	CLA D1	2.6	7.200	26.8	6.6					
	CLA D2	1.4	7.200	26.4	6.4					
	CLA D3	1.4	2.200	25.6	6.7	9.02	19.03	3.81		
	CLA D4	4.0	10.000	24.2	9.2			(V)		
	CLA D5	3.7	10.000	23.8	9.0					
18	CLA D1	2.7	7.200	26.3	6.6					
	CLA D2	1.5	7.200	26.6	6.4					
	CLA D3	1.5	2.200	26.2	6.7	9.51	19.77	3.95		
	CLA D4	4.5	10.000	24.8	9.2			(V)		
	CLA D5	3.7	10.000	24.1	9.1					
19	CLA D1	2.4	7.300	27.0	6.8					
	CLA D2	1.0	7.300	26.0	6.5					
	CLA D3	1.1	2.200	26.0	6.8	8.79	18.64	3.73		
	CLA D4	4.4	10.000	24.1	9.1			(V)		
	CLA D5	3.8	10.000	25.6	9.0					
20	CLA D1	0.1	7.200	28.4	6.7					
	CLA D2	2.6	7.200	27.3	6.4					
	CLA D3	1.3	2.200	27.5	6.8	6.98	15.65	3.13		
	CLA D4	4.1	10.000	25.6	9.1			(V)		
	CLA D5	3.9	10.000	27.1	9.1					
21	CLA D1	2.3	7.300	27.9	6.4					
	CLA D2	0.8	7.300	28.3	6.3					
	CLA D3	1.0	2.200	27.5	6.7	6.90	15.72	3.14		
	CLA D4	3.8	10.000	26.6	9.0			(V)		
	CLA D5	2.1	10.000	25.7	9.0					
22	CLA D1	2.2	7.300	26.2	6.5					
	CLA D2	1.5	7.300	27.4	6.3					
	CLA D3	1.2	2.200	26.5	6.7	8.33	17.66	3.53		
	CLA D4	3.7	10.000	25.5	9.2			(V)		
	CLA D5	3.2	10.000	25.7	9.0					
23	CLA D1	2.5	7.300	26.0	6.6					
	CLA D2	1.2	7.300	25.6	6.4					
	CLA D3	1.1	2.200	26.5	6.8	7.37	15.08	3.02		
	CLA D4	3.5	10.000	23.6	9.2			(V)		
	CLA D5	2.1	10.000	25.1	9.1					
24	CLA D1	2.4	7.300	25.5	6.5					
	CLA D2	1.6	7.300	24.6	6.4					
	CLA D3	1.3	2.200	24.9	6.7	8.84	17.72	3.54		
	CLA D4	4.1	10.000	24.9	9.2			(V)		
	CLA D5	3.3	10.000	25.4	9.1					

PERFORMANCE DATA										
Date	DISINFECTION PROCESS DATA									
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=	
25	CLA D1	2.4	7.500	25.5	6.6					
	CLA D2	1.4	7.500	26.0	6.4					
	CLA D3	0.9	2.200	25.8	6.7	8.11	16.38	3.28		
	CLA D4	3.6	10.000	24.5	9.1			(V)		
	CLA D5	3.2	10.000	24.1	9.1					
26	CLA D1	2.7	7.300	24.4	6.5					
	CLA D2	2.1	7.300	25.4	6.4					
	CLA D3	1.6	2.200	22.4	6.7	9.39	18.64	3.73		
	CLA D4	3.8	10.000	24.1	9.2			(V)		
	CLA D5	3.4	10.000	24.5	9.2					
27	CLA D1	2.0	7.100	24.3	6.4					
	CLA D2	1.6	7.100	24.8	6.2					
	CLA D3	1.6	2.200	24.6	6.5	8.08	16.10	3.22		
	CLA D4	4.4	10.000	23.2	9.1			(V)		
	CLA D5	3.8	10.000	22.9	9.1					
28	CLA D1	2.4	7.200	24.3	6.6					
	CLA D2	1.3	7.200	25.1	6.3					
	CLA D3	1.0	2.200	24.3	6.7	8.44	16.73	3.35		
	CLA D4	4.2	10.000	24.0	9.1			(V)		
	CLA D5	3.6	10.000	24.1	9.0					
29	CLA D1	1.5	7.200	27.2	6.4					
	CLA D2	1.5	7.200	26.0	6.2					
	CLA D3	0.7	2.200	25.9	6.5	7.61	15.90	3.18		
	CLA D4	3.7	10.000	24.5	9.1			(V)		
	CLA D5	3.8	10.000	24.2	9.0					
30	CLA D1	1.2	7.200	27.0	6.5					
	CLA D2	2.5	7.200	25.7	6.3					
	CLA D3	2.1	2.200	25.3	6.7	7.91	16.25	3.25		
	CLA D4	2.8	10.000	24.7	9.1			(V)		
	CLA D5	3.6	10.000	24.8	9.0					
31	D1									
	D2									
	D3									
	D4									
	D5									

Max	10.32	21.75
Min	6.60	14.40
Avg	8.30	17.81
SD	0.89	2.07

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: <u>WO0023530, A Surface</u>	Date: <u>October 10, 2014</u>
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MONTHLY TOTAL ORGANIC CARBON REMOVAL REPORT (TOCMOR)
FOR SURFACE WATER OR GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER SYSTEMS

PUBLIC WATER SYSTEM NAME: <u>City of Wichita Falls</u>	PLANT NAME OR NUMBER: <u>Cypress DPR (Microfiltration/RO)</u>
PWS ID No.: <u>2430001</u>	Plant ID No.: <u>21567</u>
Type of treatment: Conventional	Month: <u>September</u> Year: <u>2014</u>
X Unconventional	explain: <u>Microfiltration and Reverse Osmosis Prior to Conventional Treatment</u>

Note: Systems are required to run one TOC Sample Set every month. Additional space is provided for those systems that do additional sampling

Test No.	Test Date	Monthly TOC Sample Set			Actual % TOC Removed	Step 1 Required Removal %	Step 1 Removal Ratio	Optional data		INDIVIDUAL SAMPLE COMPLIANCE REMOVAL RATIO
		Raw Alkalinity	Raw TOC	Treated TOC				Step 2 Required % Removal	Step 2 Removal Ratio	
		Enter the Sample Set results			calculated	calculated from matrix	calculated		calculated	calculated
1	9/2	174	8.64	2.68	69.0	NA	NA	NA	NA	NA
2	9/9	174	10.99	2.55	76.8	NA	NA	NA	NA	NA
3	9/16	176	9.23	2.80	69.7	NA	NA	NA	NA	NA
4	9/23	179	9.45	2.97	68.6	NA	NA	NA	NA	NA
5										
6										
7										
8										
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31										
Avg		175.75	9.58	2.75	71.00		NA			NA
Max		179.00	10.99	2.97	76.80		NA			NA
Min		174.00	8.64	2.55	68.57		NA			NA

TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

TOC Summary					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	
176	9.58	2.75	71.0	NA	NA

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

Operator's Signature: _____

Certificate No. and Grade: WO0023530, A Surface

Date: October 10, 2014

Submit the report by the 10th of the month following the reporting period to:

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

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.)
Enhanced Individual Filter Performance Data Page

PUBLIC WATER
SYSTEM NAME:

City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress DPR (Microfiltration/RO)

PWS ID No.:

2430001

Plant ID No.:

21567

Month:

September

Year:

2014

Optimized Individual Filter Effluent (IFE) Performance

PERFORMANCE DATA

Filter No.	Total No. of Readings	No. of Readings > or = 0.15 NTU	Percent of Readings > or = 0.15 NTU	No. of Confirmed Readings > 0.3 NTU		Filter No.	Total No. of Readings	No. of Readings > or = 0.15 NTU	Percent of Readings > or = 0.15 NTU	No. of Confirmed Readings > 0.3 NTU
1	2,838	48	1.69%	0		26				
2	2,836	53	1.87%	0		27				
3	2,839	106	3.73%	0		28				
4	2,833	79	2.79%	0		29				
5	2,842	49	1.72%	0		30				
6						31				
7						32				
8						33				
9						34				
10						35				
11						36				
12						37				
13						38				
14						39				
15						40				
16						41				
17						42				
18						43				
19						44				
20						45				
21						46				
22						47				
23						48				
24						49				
25						50				
Summary	Were more than 5% of the IFE readings from any of the filters above the 0.15 NTU performance criteria?			No	Giardia and Cryptosporidium Log Removal Credit Allowed this Month For Enhanced IFE Performance					1.0
	Did any of the filters have confirmed IFE readings above 0.3 NTU?			No						

SUBMITTED BY:

Certificate No.

and Grade: WO0023530, A Surface

Date: October 10, 2014

MEMBRANE MONTHLY OPERATING REPORT

FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER
Pressure Decay Rate Direct Integrity Tests

PUBLIC WATER SYSTEM NAME: City of Wichita Falls PLANT NAME OR NUMBER: Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001 Plant ID No.: 21567 Month: September Year: 2014

TEST PARAMETERS & ADDITIONAL DATA																		
DIT CONDITIONS & ADDITIONAL DATA	Unit No. 1										Unit No. 2							
	DIT Cond'ns	P _{test} psi	LRC -	UCL psi/min		Prev. Month Data	DIT _{last} date	Pass? Yes/No	C/A Success?		DIT Cond'ns	P _{test} psi	LRC -	UCL psi/min		Prev. Month	DIT _{last} date	Pass? Yes/No
		16.5	2.8	1.650			8/31/14	YES	NA			16.5	2.8	1.650			8/31/14	YES
	Optional Data	Filt.Fluid gfd	TMP psi								Optional Data	Filt.Fluid gfd	TMP psi					

PERFORMANCE DATA																		
Date	Unit No. 1										Unit No. 2							
	Operational Data						DIT Data				Operational Data						DIT Data	
	Daily Pump. MG	Norm. Filt.Fluid gfd	TMP psi	Norm. Spc.Fluid gfd/psi	Daily Max. mNTU	CIP done?	P _{initial} psi	ΔP _{test} /Δt psi/min	DIT pass?	C/A success?	Daily Pump. MG	Norm. Filt.Fluid gfd	TMP psi	Norm. Spc.Fluid gfd/psi	Daily Max. mNTU	CIP done?	P _{initial} psi	ΔP _{test} /Δt psi/min
1	1.259	14.4	2.8	5.07	27		18.2	0.700	YES	NA	1.324	14.4	2.4	6.05	31		18.7	0.470
2	1.232	14.3	2.7	5.40	27		18.1	0.730	YES	NA	1.169	14.3	2.2	6.38	28		18.8	0.470
3	1.272	14.3	2.8	5.14	25		18.2	0.690	YES	NA	1.340	14.3	2.3	6.17	19		18.8	0.470
4	1.364	14.4	2.8	5.22	28		18.3	0.700	YES	NA	1.292	14.4	2.3	6.37	28		18.7	0.490
5	1.312	14.5	2.9	5.02	28		18.4	0.670	YES	NA	1.240	14.4	2.3	6.02	18		18.8	0.460
6	1.341	14.3	3.0	4.83	30		18.3	0.660	YES	NA	1.366	14.3	2.3	6.11	33		18.6	0.460
7	1.262	14.3	3.1	4.57	26		18.3	0.610	YES	NA	1.249	14.3	2.5	5.72	18		18.7	0.430
8	1.000	14.4	3.3	4.36	34		18.3	0.640	YES	NA	1.000	14.4	2.3	6.23	34		18.7	0.450
9	1.306	14.3	3.1	4.64	27		18.3	0.640	YES	NA	0.562	14.2	1.5	9.50	22		16.6	0.400
10	1.260	14.4	3.2	4.45	29		18.4	0.640	YES	NA	1.206	14.2	1.6	8.66	23		17.7	0.780
11	1.152	14.3	3.2	4.48	27		18.3	0.630	YES	NA	1.518	14.2	1.8	8.05	32		17.9	0.660
12	1.380	14.3	3.5	4.09	30		18.2	0.620	YES	NA	1.298	14.3	1.9	7.42	16		18.0	0.650
13	1.000	13.9	3.4	4.12	30		18.1	0.590	YES	NA	1.000	14.4	1.9	7.42	29		18.0	0.590
14	1.000	14.3	3.8	3.73	25		18.3	0.580	YES	NA	1.000	14.4	2.2	6.68	19		18.1	0.580
15	1.194	14.3	3.5	4.15	30		18.3	0.610	YES	NA	1.246	14.3	2.0	7.34	10		18.2	0.580
16	1.367	14.3	3.6	3.99	26		18.2	0.620	YES	NA	1.339	14.3	2.0	7.29	29		18.2	0.580
17	1.195	14.3	3.2	4.45	26		18.3	0.610	YES	NA	1.246	14.3	1.9	7.53	20		18.3	0.580
18	1.273	14.3	3.5	4.10	33		18.0	0.610	YES	NA	1.348	14.3	2.0	7.15	28		18.0	0.560
19	1.373	14.3	3.3	4.30	32		18.2	0.640	YES	NA	1.252	14.3	1.9	7.44	19		18.3	0.540
20	1.272	14.3	3.6	4.03	29		18.2	0.610	YES	NA	1.281	14.3	2.1	6.94	33		18.4	0.560
21	1.511	14.4	3.4	4.29	40		18.3	0.630	YES	NA	1.514	14.4	2.0	7.09	19		18.2	0.580
22	1.239	14.3	3.5	4.05	28		18.3	0.610	YES	NA	1.211	14.3	2.1	6.81	35		18.4	0.550
23	1.377	14.3	3.6	3.94	29		18.3	0.610	YES	NA	1.316	14.3	2.1	6.91	24		18.2	0.560
24	1.260	14.3	3.8	3.77	30		18.3	0.600	YES	NA	1.232	14.3	2.3	6.33	25		18.4	0.520
25	1.380	14.3	3.9	3.65	28		18.3	0.590	YES	NA	1.372	14.3	2.3	6.35	22		18.3	0.520
26	1.318	14.3	4.0	3.55	30		18.3	0.600	YES	NA	1.179	14.3	2.4	5.98	25		18.4	0.510
27	1.330	14.3	4.3	3.32	34		18.2	0.620	YES	NA	1.322	14.3	2.4	5.96	17		18.3	0.530
28	1.300	14.4	4.2	3.48	35		18.3	0.610	YES	NA	1.300	14.4	2.7	5.32	21		18.4	0.520
29	1.300	14.3	4.1	3.50	30		18.2	0.610	YES	NA	1.300	14.5	2.7	5.44	25		18.3	0.530
30	1.212	14.3	3.9	3.70	29		18.2	0.620	YES	NA	1.257	14.3	2.4	6.03	17		18.4	0.520
31																		

SUMMARY	Unit No. 1										Unit No. 2							
	IIT										IIT							
	Number of days with DIT triggered by high turbidity or particle count										0							
	Number of days with a monitoring violation										0							
	DIT										DIT							
Comments	Number of days with failure to pass a DIT										0							
	Number of days with a treatment technique violation										0							
	General Remarks										Additional Comments							

SUBMITTED BY: _____ Certificate No. and Grade: WO0023530, A Surface Date: October 10, 2014

MEMBRANE MONTHLY OPERATING REPORT
FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
Pressure Decay Rate Direct Integrity Tests (cont.)

PUBLIC WATER SYSTEM NAME: _____ PLANT NAME OR NUMBER: _____ PUBLIC SYSTEM NAME: _____
PWS ID No.: _____ Plant ID No.: _____ Month: _____ Year: _____ PWS ID: _____

		P _{test} psi	LRC -	UCL psi/min			DIT _{last} date	Pass? Yes/No	C/A Success?			P _{test} psi	LRC -	UCL psi/min			DIT _{last} date	Pass? Yes/No		C/A Success?	
	16.5	2.8	1.650			8/31/14	YES	NA			16.5	2.8	1.650			8/31/14	YES	NA			
		Filt.Flux gfd	TMP psi									Filt.Flux gfd	TMP psi								

Date																					Date		
	Daily Pump. MG	Norm. Filt.Flux gfd	TMP psi	Norm. Spc.Flux gfd/psi	Daily Max. mNTU	CIP done? -	P _{initial} psi	ΔP _{test} /Δt psi/min	DIT pass? -	C/A success? -	Daily Pump. MG	Norm. Filt.Flux gfd	TMP psi	Norm. Spc.Flux gfd/psi	Daily Max. mNTU	CIP done? -	P _{initial} psi	ΔP _{test} /Δt psi/min	DIT pass? -	C/A success? -			
1	1.259	14.4	3.1	4.63	31		18.2	0.650	YES	NA	1.373	14.8	1.0	15.14	29		19.0	0.400	YES	NA	1		
2	1.264	14.3	3.3	4.39	40		19.1	0.640	YES	NA	1.146	14.4	0.9	15.31	26		19.1	0.400	YES	NA	2		
3	1.264	14.3	3.1	4.62	42		18.3	0.630	YES	NA	1.352	14.3	0.9	16.30	26		19.0	0.400	YES	NA	3		
4	1.342	14.5	3.4	4.29	44		18.3	0.620	YES	NA	1.274	14.5	0.9	15.44	37		19.1	0.400	YES	NA	4		
5	1.260	14.4	3.2	4.53	34		18.3	0.620	YES	NA	1.364	14.6	0.9	15.53	26		18.9	0.400	YES	NA	5		
6	1.276	14.3	3.5	4.11	51		18.2	0.590	YES	NA	1.275	14.4	1.0	14.49	31		18.9	0.390	YES	NA	6		
7	1.357	14.3	3.4	4.19	30		18.2	0.580	YES	NA	1.346	14.5	1.0	13.89	27		18.8	0.390	YES	NA	7		
8	1.000	14.4	3.5	4.10	43		18.3	0.570	YES	NA	1.000	14.4	1.0	14.70	27		18.9	0.380	YES	NA	8		
9	1.443	14.3	3.4	4.15	28		17.1	0.520	YES	NA	1.505	14.9	1.1	13.82	77		19.0	0.400	YES	NA	9		
10	1.452	14.4	3.6	4.02	40		18.3	0.580	YES	NA	1.200	14.4	1.0	14.40	32		19.0	0.390	YES	NA	10		
11	1.271	14.3	3.7	3.92	46		18.2	0.570	YES	NA	1.224	14.3	1.1	13.39	31		18.8	0.390	YES	NA	11		
12	1.286	14.3	3.8	3.73	26		18.3	0.550	YES	NA	1.250	14.4	1.1	12.63	27		18.8	0.300	YES	NA	12		
13	1.000	14.6	4.0	3.65	41		18.2	0.540	YES	NA	1.000	14.4	1.3	11.09	27		18.0	0.380	YES	NA	13		
14	1.000	14.5	4.0	3.62	50		18.3	0.530	YES	NA	1.000	14.5	1.1	12.75	25		18.7	0.380	YES	NA	14		
15	1.381	14.3	4.0	3.60	29		18.2	0.550	YES	NA	1.399	14.5	1.2	12.27	32		18.8	0.380	YES	NA	15		
16	1.262	14.3	3.8	3.82	30		18.3	0.550	YES	NA	1.185	14.4	1.1	13.29	33		18.7	0.400	YES	NA	16		
17	1.354	14.4	3.9	3.68	32		18.3	0.570	YES	NA	1.386	14.4	1.1	12.74	29		18.9	0.390	YES	NA	17		
18	1.264	14.3	3.7	3.88	29		18.3	0.560	YES	NA	1.291	14.4	1.1	13.42	32		18.9	0.390	YES	NA	18		
19	1.328	14.3	4.0	3.63	42		18.3	0.540	YES	NA	1.268	14.4	1.1	12.74	28		18.8	0.380	YES	NA	19		
20	1.314	14.3	3.8	3.82	40		18.2	0.580	YES	NA	1.782	14.4	1.1	13.34	26		18.9	0.390	YES	NA	20		
21	1.504	14.4	4.4	3.27	53		18.3	0.550	YES	NA	1.508	14.4	1.0	14.40	53		18.9	0.390	YES	NA	21		
22	1.384	14.3	3.8	3.74	29		18.3	0.570	YES	NA	1.345	14.4	1.1	12.95	29		18.9	0.390	YES	NA	22		
23	1.280	14.3	4.2	3.45	50		18.3	0.550	YES	NA	1.274	14.4	1.2	12.19	50		18.8	0.380	YES	NA	23		
24	1.324	14.3	4.2	3.46	40		18.2	0.550	YES	NA	1.365	14.4	1.2	11.62	40		18.7	0.390	YES	NA	24		
25	1.286	14.3	4.4	3.29	40		18.2	0.530	YES	NA	1.236	14.3	1.3	11.47	26		18.7	0.380	YES	NA	25		
26	1.352	14.3	4.4	3.23	29		18.2	0.550	YES	NA	1.372	14.4	1.3	10.90	38		18.7	0.380	YES	NA	26		
27	1.235	14.3	4.6	3.11	44		18.2	0.550	YES	NA	1.264	14.4	1.3	10.75	28		18.8	0.380	YES	NA	27		
28	1.300	14.4	4.9	2.95	32		18.2	0.560	YES	NA	1.300	14.4	1.5	9.96	31		18.7	0.380	YES	NA	28		
29	1.300	14.3	3.7	3.90	43		18.2	0.550	YES	NA	1.300	13.9	1.5	9.57	38	YES	18.8	0.380	YES	NA	29		
30	1.370	14.3	4.5	3.20	28		18.2	0.570	YES	NA	1.368	14.4	0.8	18.97	28		18.2	0.620	YES	NA	30		
31																					31		

	General Remarks								

SUBMITTED BY: _____ Certificate No. and Grade: _____ Date: _____ SUBMITT

MEMBRANE MONTHLY OPERATING REPORT
 FOR PUBLIC WATER SYSTEMS THAT ARE USING SURFACE WATER SOURCES
 OR GROUND WATER SOURCES UNDER THE INFLUENCE OF SURFACE WATER (cont.)
Pressure Decay Rate Direct Integrity Tests (cont.)

WATER M NAME: City of Wichita Falls PLANT NAME OR NUMBER: Cypress DPR (Microfiltration/RO)
 No.: 2430001 Plant ID No.: 21567 Month: September Year: 2014

TEST PARAMETERS & ADDITIONAL DATA																			
Unit No. 5										Unit No. 6									
DIT Cond'ns	P _{test} psi	LRC -	UCL psi/min		Prev. Month	DIT _{last} date	Pass? Yes/No	C/A Success?		DIT Cond'ns	P _{test} psi	LRC -	UCL psi/min		Prev. Month	DIT _{last} date	Pass? Yes/No	C/A Success?	
	16.5	2.8	1.650			8/31/14	YES	NA											
Optional Data	Filt.Flux gfd	TMP psi								Optional Data	Filt.Flux gfd	TMP psi							

PERFORMANCE DATA																			
Unit No. 5										Unit No. 6									
Operational Data						DIT Data				Operational Data						DIT Data			
Daily Pump.	Norm. Filt.Flux	TMP	Norm. Spc.Flux	Daily Max.	CIP done?	P _{initial}	ΔP _{test} /Δt	DIT pass?	C/A success?	Daily Pump.	Norm. Filt.Flux	TMP	Norm. Spc.Flux	Daily Max.	CIP done?	P _{initial}	ΔP _{test} /Δt	DIT pass?	C/A success?
MG	gfd	psi	gfd/psi	mNTU	-	psi	psi/min	-	-	MG	gfd	psi	gfd/psi	mNTU	-	psi	psi/min	-	-
1.362	14.5	1.5	9.88	14		19.0	0.430	YES	NA										
1.130	14.3	1.4	9.93	18		19.1	0.420	YES	NA										
1.334	14.3	1.4	10.15	18		19.0	0.420	YES	NA										
1.278	14.5	1.5	9.83	17		19.1	0.420	YES	NA										
1.390	14.5	1.5	9.67	16		18.9	0.400	YES	NA										
1.279	14.3	1.5	9.41	14		19.0	0.390	YES	NA										
1.331	14.3	1.6	8.85	16		18.9	0.380	YES	NA										
1.000	14.5	1.6	8.81	14		19.0	0.380	YES	NA										
1.509	14.6	1.7	8.83	17		19.0	0.400	YES	NA										
1.152	14.4	1.5	9.45	17		19.0	0.410	YES	NA										
1.302	14.3	1.7	8.56	16		18.9	0.390	YES	NA										
1.298	14.3	1.7	8.48	18		18.9	0.390	YES	NA										
1.000	14.4	2.0	7.10	15		18.8	0.370	YES	NA										
1.000	14.4	2.0	7.24	17		18.9	0.370	YES	NA										
1.310	14.3	1.8	8.01	18		19.0	0.370	YES	NA										
1.348	14.3	1.7	8.57	16		18.9	0.380	YES	NA										
1.323	14.4	1.7	8.44	23		18.9	0.380	YES	NA										
1.352	14.3	1.7	8.52	14		19.0	0.380	YES	NA										
1.303	14.3	1.7	8.38	17		19.0	0.370	YES	NA										
1.333	14.3	1.7	8.24	14		19.0	0.380	YES	NA										
1.529	14.5	1.8	7.95	31		19.0	0.380	YES	NA										
1.373	14.4	1.8	8.02	19		18.9	0.380	YES	NA										
1.294	14.3	1.8	7.97	15		18.8	0.400	YES	NA										
1.344	14.3	2.0	7.35	14		18.9	0.370	YES	NA										
1.214	14.3	1.9	7.57	15		18.8	0.400	YES	NA										
1.290	14.3	2.1	6.95	15		18.9	0.360	YES	NA										
1.332	14.3	2.0	7.12	16		18.7	0.380	YES	NA										
1.300	14.4	2.1	6.74	15		18.9	0.370	YES	NA										
1.300	14.4	2.1	6.99	15		18.8	0.380	YES	NA										
1.275	14.3	2.0	7.05	15		19.0	0.370	YES	NA										

Unit No. 5									Unit No. 6							
IIT																
Number of days with DIT triggered by high turbidity or particle count									0							
Number of dates with monitoring violation									0							
DIT																
Number of dates with failure to pass DIT									0							
Number of dates with treatment technique violation									0							
Comments									Additional Comments							
General Remarks									Additional Comments							

ED BY: _____ Certificate No. and Grade: WO0023530, A Surface Date: October 10, 2014

SURFACE WATER MONTHLY OPERATING REPORT

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

LT2ESWTR Summary Page

PUBLIC WATER

SYSTEM NAME: City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001

Plant ID No.: 21567

Month: September

Year: 2014

Note: Indicate the treatment processes in each train. (see comment)	TREATMENT TECHNOLOGIES																
	PRETREATMENT CREDITS				FILTRATION TECHNOLOGY CREDITS						ENHANCED PERFORMANCE CREDITS		DISINFECTION TECHNOLOGY CREDITS			OTHER TREATMENT CREDITS	
	Riverbank Filtration	Presed. with Coagul.	Two-stage Lime Softening	Conventional Sedimentation or Clarification	Conventional Granular Media Filters	Bag or Cartridge Filtration	Two-Stage Filtration	Membrane Filtration (PBT)	Membrane Filtration (QBT)	Membrane Filtration (MBT)	Enhanced CFE Perform.	Optimized IFE Perform.	Crypto Chemical Disinfect.	UV Disinfect. (ISA)	UV Disinfect. (CDA)	Watershed Protection	Perform. Demon.
	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE	TRUE			TRUE	TRUE	FALSE	FALSE		FALSE	TRUE
Overall				TRUE	TRUE			TRUE			TRUE	TRUE					TRUE
Train 1				TRUE	TRUE			TRUE			TRUE	TRUE					TRUE
Train 2																	
Train 3																	
Train 4																	
Train 5																	
1								2.80									0.50
2								2.80									0.50
3								2.80									0.50
4								2.80									0.50
5								2.80									0.50
6								2.80									0.50
7								2.80									0.50
8								2.80									0.50
9								2.80									0.50
10								2.80									0.50
11								2.80									0.50
12								2.80									0.50
13								2.80									0.50
14								2.80									0.50
15								2.80									0.50
16				0.50	2.50			2.80			0.00	1.00					0.50
17								2.80									0.50
18								2.80									0.50
19								2.80									0.50
20								2.80									0.50
21								2.80									0.50
22								2.80									0.50
23								2.80									0.50
24								2.80									0.50
25								2.80									0.50
26								2.80									0.50
27								2.80									0.50
28								2.80									0.50
29								2.80									0.50
30								2.80									0.50
31																	0.50
MIN				0.5	2.5			2.80			0.0	1.0					0.5

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.)
LT2ESWTR Summary Page (cont)

PUBLIC WATER

SYSTEM NAME: City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress DPR (Microfiltration/RO)

PWS ID No.: 2430001

Plant ID No.: 21567

Month: September

Year: 2014

GIARDIA AND CRYPTOSPORIDIUM TREATMENT CREDITS												GIARDIA INACTIVATION CREDITS							VIRAL INACTIVATION CREDITS							
	Total Daily Credit By Train						Total Daily Bin 3 & 4 Credit by Train						Total Daily Inactivation Credit By Train							Total Daily Inactivation Credit by Train						
Overall						Minimum						Minimum						Minimum						Minimum		
Train 1	TRUE	FALSE					TRUE	FALSE					TRUE	FALSE					TRUE	FALSE						
Train 2		FALSE						FALSE						FALSE						FALSE						
Train 3			FALSE						FALSE						FALSE						FALSE					
Train 4				FALSE						FALSE						FALSE						FALSE				
Train 5					FALSE						FALSE						FALSE						FALSE			
1	7.30					7.30	2.80					2.80	8.18					8.18	21.54						21.54	
2	7.30					7.30	2.80					2.80	8.45					8.45	19.58						19.58	
3	7.30					7.30	2.80					2.80	8.60					8.60	21.54						21.54	
4	7.30					7.30	2.80					2.80	9.16					9.16	19.85						19.85	
5	7.30					7.30	2.80					2.80	8.31					8.31	18.60						18.60	
6	7.30					7.30	2.80					2.80	7.17					7.17	15.17						15.17	
7	7.30					7.30	2.80					2.80	9.83					9.83	19.39						19.39	
8	7.30					7.30	2.80					2.80	10.32					10.32	21.75						21.75	
9	7.30					7.30	2.80					2.80	7.92					7.92	20.60						20.60	
10	7.30					7.30	2.80					2.80	6.60					6.60	16.47						16.47	
11	7.30					7.30	2.80					2.80	9.48					9.48	19.27						19.27	
12	7.30					7.30	2.80					2.80	7.81					7.81	15.75						15.75	
13	7.30					7.30	2.80					2.80	7.80					7.80	15.71						15.71	
14	7.30					7.30	2.80					2.80	7.16					7.16	14.40						14.40	
15	7.30					7.30	2.80					2.80	8.47					8.47	17.27						17.27	
16	7.30					7.30	2.80					2.80	8.32					8.32	18.20						18.20	
17	7.30					7.30	2.80					2.80	9.02					9.02	19.03						19.03	
18	7.30					7.30	2.80					2.80	9.51					9.51	19.77						19.77	
19	7.30					7.30	2.80					2.80	8.79					8.79	18.64						18.64	
20	7.30					7.30	2.80					2.80	6.98					6.98	15.65						15.65	
21	7.30					7.30	2.80					2.80	6.90					6.90	15.72						15.72	
22	7.30					7.30	2.80					2.80	8.33					8.33	17.66						17.66	
23	7.30					7.30	2.80					2.80	7.37					7.37	15.08						15.08	
24	7.30					7.30	2.80					2.80	8.84					8.84	17.72						17.72	
25	7.30					7.30	2.80					2.80	8.11					8.11	16.38						16.38	
26	7.30					7.30	2.80					2.80	9.39					9.39	18.64						18.64	
27	7.30					7.30	2.80					2.80	8.08					8.08	16.10						16.10	
28	7.30					7.30	2.80					2.80	8.44					8.44	16.73						16.73	
29	7.30					7.30	2.80					2.80	7.61					7.61	15.90						15.90	
30	7.30					7.30	2.80					2.80	7.91					7.91	16.25						16.25	
31																										
MIN	7.30					7.30	2.80					2.80	6.60					6.60	14.40						14.40	
AVG	7.30					7.30	2.80					2.80	8.30					8.30	17.81						17.81	
MAX	7.30					7.30	2.80					2.80	6.60					6.60	14.40						14.40	

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

Plant ID No.: 15134

Operator's Signature: _____

Report for

the Month of: September 2014

Certificate No. & Grade: WO0023530, A Surface

Date: October 10, 2014

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	<u>180</u>	Number of 4-hour periods when plant was off-line:	<u>0</u>
Number of readings above 0.10 NTU:	<u>36</u>	Number of 4-hour periods when plant was on-line	
Number of readings above 0.3 NTU:	<u>0</u>	but turbidity data was not collected:	<u>0</u>
Number of readings above 0.5 NTU:	<u>0</u>	Number of days when plant was on-line	
Number of readings above 1.0 NTU:	<u>0</u>	but individual filter turbidity data was not collected:	<u>0</u>
Maximum allowable turbidity level:	<u>0.3</u>	Number of days with readings above 1.0 NTU:	<u>0</u> (2)
Percentage of readings above this limit:	<u>0.0</u> % (1)	Number of days with readings above 5.0 NTU:	<u>0</u> (3)

Statistical Summary

Maximum turbidity reading:	<u>0.16</u> NTU	Average turbidity value:	<u>0.09</u> NTU
Minimum turbidity reading:	<u>0.04</u> NTU	Standard deviation:	<u>0.023</u> NTU
CFE 95 th percentile value:	<u>0.13</u> NTU	IFE 95 th percentile:	<u>0.279</u> NTU

Number of days with a low CT		Average log inactivation for Giardia:	<u>7.37</u>
for no more than 4.0 consecutive hours:	<u>0</u>	Average log inactivation for viruses:	<u>27.77</u>
Number of days with a low CT		Number of days when profiling data was not collected:	<u>0</u>
for more than 4.0 consecutive hours:	<u>0</u> (4)	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: 0.5 mg/L, measured as Total Chlorine

Total number of readings this month:	<u>164</u>	(at least 100 required) (8)	
Average disinfectant residual value:	<u>3.04</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

Plant ID No.: 15134

Connections: 33,595

Month: September

Year: 2014

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.						Combined Filter Effluent Turbidity						Lowest Residual	Time
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6		
1	10.000	10.947	34	98	1.8						0.08	0.07	0.07	0.07	0.08	0.09	3.4	
2	10.000	10.780	39	99	1.2						0.09	0.08	0.07	0.08	0.08	0.09	3.3	
3	10.000	7.649	37	95	1.4						0.09	0.09	0.07	0.07	0.07	0.08	3.3	
4	9.970	10.082	32	99	1.0						0.07	0.08	0.07	0.07	0.07	0.08	3.3	
5	8.585	9.800	32	100	1.1						0.09	0.10	0.11	0.09	0.11	0.11	3.1	
6	9.913	9.320	38	97	1.2						0.12	0.07	0.08	0.08	0.07	0.08	3.0	
7	9.900	9.573	32	96	1.6						0.09	0.09	0.09	0.11	0.10	0.09	3.4	
8	10.100	9.923	37	100	1.3						0.09	0.08	0.08	0.08	0.09	0.11	3.7	
9	9.833	8.990	39	96	1.8						0.11	0.11	0.10	0.09	0.08	0.09	3.3	
10	9.892	10.897	33	100	1.8						0.08	0.08	0.11	0.14	0.12	0.13	3.3	
11	9.958	11.753	38	107	1.4						0.12	0.09	0.13	0.16	0.11	0.15	3.3	
12	9.913	10.364	34	105	1.9						0.06	0.13	0.05	0.09	0.12	0.12	3.5	
13	9.899	11.030	34	105	1.5						0.11	0.12	0.10	0.10	0.11	0.12	3.7	
14	9.950	9.001	31	103	1.9						0.14	0.10	0.15	0.15	0.14	0.14	3.6	
15	10.088	9.708	36	103	2.2						0.13	0.13	0.11	0.10	0.10	0.11	3.3	
16	9.891	8.626	34	103	3.3						0.11	0.10	0.09	0.08	0.07	0.08	3.1	
17	9.879	9.518	32	101	1.2						0.10	0.11	0.11	0.08	0.09	0.10	3.1	
18	9.980	9.319	26	105	1.2						0.09	0.09	0.09	0.10	0.09	0.10	3.4	
19	9.900	10.130	26	102	0.9						0.10	0.09	0.09	0.07	0.08	0.07	3.6	
20	9.875	11.333	26	105	1.2						0.08	0.08	0.08	0.07	0.07	0.07	3.6	
21	9.860	10.240	30	105	1.3						0.08	0.07	0.07	0.06	0.06	0.07	2.7	
22	9.830	9.400	20	105	1.8						0.07	0.08	0.08	0.06	0.06	0.06	3.0	
23	9.488	10.647	23	100	2.1						0.10	0.10	0.06	0.06	0.07	0.07	2.5	
24	9.988	8.450	22	96	2.2						0.07	0.07	0.06	0.06	0.06	0.06	2.5	
25	9.983	8.103	22	105	1.6						0.08	0.06	0.06	0.05	0.05	0.05	2.7	
26	9.921	11.331	23	101	1.9						0.06	0.05	0.06	0.06	0.06	0.07	2.9	
27	9.996	9.742	24	107	1.6						0.10	0.08	0.07	0.06	0.07	0.08	2.9	
28	9.967	11.472	19	108	2.3						0.09	0.09	0.07	0.06	0.06	0.06	3.1	
29	10.020	9.154	23	105	1.2						0.06	0.06	0.06	0.06	0.07	0.06	3.2	
30	10.046	9.917	21	101	1.3						0.06	0.09	0.07	0.04	0.06	0.08	3.1	
31																		
Total	296.625	297.199																
Avg	9.888	9.907																
Max	10.100	11.753																
Min	8.585	7.649																

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, A Surface

Date: October 10, 2014

SURFACE WATER MONTHLY OPERATING REPORT

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

PUBLIC WATER
SYSTEM NAME: City of Wichita Falls

PLANT NAME
OR NUMBER: Cypress 2010 (TCEQ 15134)

PWS ID No.: 2430001 Plant ID No.: 15134

Month: September Year: 2014

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	0.08	X	0.12	0.10	0.08	X	0.28	0.10	0.08	X										
2	0.27	0.09	0.10	X	0.25	0.09	0.09	X	0.13	0.09										
3	0.08	X	0.07	X	0.09	X	0.08	X	0.09	X										
4	0.08	X	0.09	X	0.09	X	0.14	0.13	0.09	X										
5	0.28	0.10	0.14	0.13	0.16	0.12	0.14	X	0.14	0.10										
6	0.11	X	0.11	X	0.12	X	0.14	0.12	0.11	X										
7	0.23	0.12	0.17	0.12	0.25	0.11	0.13	X	0.28	0.11										
8	0.28	0.12	0.26	0.13	0.29	0.14	0.26	0.15	0.22	0.15										
9	0.11	X	0.12	X	0.12	X	0.13	X	0.12	X										
10	0.19	0.09	0.15	0.12	0.27	0.12	0.24	0.12	0.24	0.12										
11	0.26	0.13	0.28	0.14	0.26	0.18	0.28	0.10	0.23	0.11										
12	0.13	X	0.19	0.12	0.13	X	0.13	X	0.11	X										
13	0.27	0.15	0.13	X	0.18	0.14	0.28	0.17	0.28	0.15										
14	0.24	0.13	0.30	0.14	0.26	0.18	0.12	0.12	0.23	0.16										
15	0.12	X	0.12	X	0.15	X	0.29	X	0.16	X										
16	0.12	0.04	0.19	0.13	0.11	X	0.12	X	0.10	X										
17	0.09	x	0.10	x	0.23	0.14	0.18	0.11	0.15	0.11										
18	0.11	0.10	0.15	0.10	0.16	0.14	0.10	x	0.13	0.11										
19	0.09	x	0.10	x	0.11	x	0.14	0.11	0.11	x										
20	0.08	x	0.08	x	0.09	x	0.10	x	0.07	x										
21	0.08	x	0.08	x	0.09	x	0.10	x	0.08	x										
22	0.26	0.12	0.13	0.11	0.23	0.13	0.19	x	0.21	0.10										
23	0.19	x	0.25	x	0.28	0.07	0.16	0.10	0.28	x										
24	0.07	x	0.09	x	0.09	x	0.10	x	0.07	x										
25	0.06	x	0.07	x	0.08	x	0.08	x	0.06	x										
26	0.27	0.10	0.22	0.06	0.17	0.13	0.08	x	0.16	0.10										
27	0.09	x	0.10	x	0.14	x	0.28	0.11	0.10	x										
28	0.07	x	0.07	x	0.08	x	0.10	x	0.07	x										
29	0.06	x	0.07	x	0.07	x	0.08	x	0.06	x										
30	0.10	0.09	0.24	0.10	0.10	x	0.07	x	0.05	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 events above 2.0 NTU this month																		0	
	Number of events above 2.0 NTU last month																		0	
	Does the filter/plant have an approved Corrective Action Plan?								N	N	N	N	N						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, A Surface Date: October 10, 2014

SURFACE WATER MONTHLY OPERATING REPORT

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

Disinfection Data Page

PUBLIC WATER

SYSTEM NAME: City of Wichita Falls

PLANT NAME

OR NUMBER: Cypress 2010 (TCEQ 15134)

PWS ID No.: 2430001

Plant ID No.: 15134

Month: September

Year: 2014

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS					PERFORMANCE STANDARDS		
Parameters	Disinfection Zones					Log Inactivations	
	D1A	D1B	D1C	D2	D3	Giardia lamblia Cysts	Viruses
Flow Rate (MGD)	5.000	5.000	5.000	10.000	10.000	0.5	2.0
T ₁₀ (minutes)	8.3	18.7	134.7	67.1	223.3		

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
1	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.300	27.1	8.4	6.19	26.19	12.38	
	CLA D2	3.8	10.000	29.8	9.1			(G)	
	CLA D3	3.5	10.000	30.3	8.9				
2	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.300	25.6	8.3	7.02	27.20	13.60	
	CLA D2	3.6	10.000	27.5	9.1			(V)	
	CLA D3	3.7	10.000	28.3	9.0				
3	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.200	27.7	8.4	6.97	28.19	13.94	
	CLA D2	3.9	10.000	27.8	9.1			(G)	
	CLA D3	3.9	10.000	27.9	9.0				
4	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.200	27.2	8.4	8.49	37.95	16.99	
	CLA D2	3.5	10.000	29.2	9.1			(G)	
	CLA D3	3.7	10.000	28.3	9.0				
5	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.300	27.1	8.4	6.35	27.14	12.70	
	CLA D2	1.7	10.000	26.9	9.1			(G)	
	CLA D3	3.1	10.000	27.0	9.0				
6	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.200	26.7	8.3	6.01	23.87	11.94	
	CLA D2	3.9	10.000	24.2	9.2			(V)	
	CLA D3	2.8	10.000	23.5	9.1				
7	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.200	25.0	8.4	8.42	29.73	14.87	
	CLA D2	5.3	10.000	24.3	9.0			(V)	
	CLA D3	4.0	10.000	25.2	9.0				
8	NA D1A								
	CLO2 D1B	0.3	5.700	25.0	8.4				
	NA D1C					5.93	18.70	9.35	
	CLA D2	4.5	10.000	26.9	9.0			(V)	
	CLA D3	3.9	10.000	26.2	8.9				

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
9	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.200	26.2	8.4	7.24	28.94	14.47	
	CLA D2	3.5	10.000	27.5	9.1			(V)	
	CLA D3	3.5	10.000	27.4	8.9				
10	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.100	26.2	8.4	5.90	20.23	10.12	
	CLA D2	4.1	10.000	26.3	9.1			(V)	
	CLA D3	3.4	10.000	25.6	8.9				
11	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.500	25.1	8.4	9.72	36.15	18.08	
	CLA D2	4.8	10.000	25.3	9.0			(V)	
	CLA D3	4.2	10.000	25.3	9.0				
12	NA D1A								
	NA D1B								
	CLO2 D1C	0.2	5.700	23.6	8.4	9.55	38.79	19.10	
	CLA D2	4.5	10.000	21.2	8.9			(G)	
	CLA D3	4.0	10.000	21.7	8.9				
13	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.600	22.1	8.4	7.15	26.63	13.32	
	CLA D2	3.9	10.000	21.4	8.8			(V)	
	CLA D3	4.1	10.000	21.8	8.8				
14	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.700	22.0	8.4	7.11	26.99	13.49	
	CLA D2	3.5	10.000	21.8	9.0			(V)	
	CLA D3	3.7	10.000	22.4	8.8				
15	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	3.900	22.4	8.4	7.66	29.01	14.50	
	CLA D2	3.7	10.000	23.4	9.0			(V)	
	CLA D3	3.6	10.000	23.5	8.9				
16	NA D1A								
	NA D1B								
	CLO2 D1C	0.2	5.800	22.7	8.4	8.48	33.39	16.70	
	CLA D2	3.3	10.000	23.9	9.1			(V)	
	CLA D3	3.3	10.000	24.3	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: W00023530, A Surface

Date: October 10, 2014

SURFACE WATER MONTHLY OPERATING REPORT

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

PUBLIC WATER SYSTEM NAME: <u>City of Wichita Falls</u>	PLANT NAME OR NUMBER: <u>Cypress 2010 (TCEQ 15134)</u>
PWS ID No.: <u>2430001</u>	Plant ID No.: <u>15134</u>
Month: <u>September</u>	Year: <u>2014</u>

DISINFECTION PROCESS PARAMETERS							
APPROVED CT STUDY PARAMETERS					PERFORMANCE STANDARDS		
Parameters	Disinfection Zones					Log Inactivations	
	D1A	D1B	D1C	D2	D3	Giardia lamblia Cysts	Virus
Flow Rate (MGD)	5.000	5.000	5.000	10.000	10.000	0.5	2.0
T ₁₀ (minutes)	8.3	18.7	134.7	67.1	223.3		

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
17	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.400	23.7	8.4	6.41	22.01	11.01	
	CLA D2	3.7	10.000	25.0	9.0			(V)	
	CLA D3	3.4	10.000	24.7	9.1				
18	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.300	24.3	8.5	6.85	23.57	11.79	
	CLA D2	4.5	10.000	24.8	9.2			(V)	
	CLA D3	3.7	10.000	24.1	9.1				
19	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.500	24.2	8.4	8.56	31.93	15.96	
	CLA D2	4.3	10.000	25.1	9.1			(V)	
	CLA D3	3.7	10.000	25.8	9.1				
20	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.400	24.0	8.4	8.06	29.00	14.50	
	CLA D2	4.1	9.800	25.3	9.2			(V)	
	CLA D3	3.8	9.800	25.6	9.1				
21	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.500	24.2	8.3	7.16	27.07	13.54	
	CLA D2	3.1	10.000	25.8	9.0			(V)	
	CLA D3	3.2	10.000	26.1	9.1				
22	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.000	24.7	8.6	5.35	17.67	8.83	
	CLA D2	3.9	10.000	25.0	9.2			(V)	
	CLA D3	3.0	10.000	24.4	9.1				
23	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.500	24.1	8.5	6.77	24.73	12.37	
	CLA D2	3.7	10.000	24.1	9.2			(V)	
	CLA D3	3.3	10.000	24.1	9.1				
24	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.300	24.0	8.6	7.26	26.20	13.10	
	CLA D2	4.1	10.000	24.9	9.2			(V)	
	CLA D3	3.3	10.000	25.4	9.1				

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
25	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.400	24.3	8.5	7.61	28.76	14.38	
	CLA D2	3.3	10.000	23.9	9.0			(V)	
	CLA D3	3.5	10.000	24.2	9.0				
26	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.700	23.8	8.5	8.43	31.42	15.71	
	CLA D2	4.1	10.000	24.6	9.1			(V)	
	CLA D3	3.9	10.000	24.1	9.1				
27	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.900	23.8	8.5	8.00	29.25	14.62	
	CLA D2	4.3	10.000	24.3	9.1			(V)	
	CLA D3	3.9	10.000	24.0	9.1				
28	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.600	23.4	8.5	7.23	26.08	13.04	
	CLA D2	4.2	10.000	24.0	9.1			(V)	
	CLA D3	3.6	10.000	24.1	9.0				
29	NA D1A								
	NA D1B								
	CLO2 D1C	0.1	5.500	23.3	8.4	6.79	24.23	12.11	
	CLA D2	3.7	10.000	24.4	9.1			(V)	
	CLA D3	3.3	10.000	24.8	9.0				
30	NA D1A								
	NA D1B								
	CLO2 D1C	0.2	5.600	23.6	8.5	8.37	32.02	16.01	
	CLA D2	2.8	10.000	24.7	9.1			(V)	
	CLA D3	3.6	10.000	24.8	9.0				
31	D1A								
	D1B								
	D1C								
	D2								
	D3								
						Max	9.72	38.79	
						Min	5.35	17.67	
						Avg	7.37	27.77	
						SD	1.06	4.92	

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: <u>WO0023530, A Surface</u>	Date: <u>October 10, 2014</u>
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MONTHLY TOTAL ORGANIC CARBON REMOVAL REPORT (TOCMOR)

FOR SURFACE WATER OR GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER SYSTEMS

PUBLIC WATER SYSTEM NAME:	City of Wichita Falls	PLANT NAME OR NUMBER:	Cypress 2010 (TCEQ 15134)
PWS ID No.:	2430001	Plant ID No.:	15134
		Month:	September
		Year:	2014

Type of treatment: X Conventional

Unconventional explain: _____

Note: Systems are required to run one TOC Sample Set every month. Additional space is provided for those systems that do additional sampling

Test No.	Test Date	Monthly TOC Sample Set			Actual % TOC Removed	Step 1 Required Removal %	Step 1 Removal Ratio	Optional data		INDIVIDUAL SAMPLE COMPLIANCE REMOVAL RATIO
		Raw Alkalinity	Raw TOC	Treated TOC				Step 2 Required % Removal	Step 2 Removal Ratio	
		Enter the Sample Set results			calculated	calculated from matrix	calculated			calculated
1										
2										
3										
4										
5										
6										
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28										
29										
30										
31										
Avg										
Max										
Min										

TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

TOC Summary					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	

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

Operator's Signature: _____	Certificate No. and Grade: <u>WO0023530, A Surface</u>	Date: <u>October 10, 2014</u>
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Submit the report by the 10th of the month following the reporting period to:
 TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
 WATER SUPPLY DIVISION/PUBLIC DRINKING WATER SECTION (MC-155)
 P.O. BOX 13087, AUSTIN, TEXAS 78711-3087

Redaction Log

Redaction Reasons by Exemption

Reason	Description	Pages (Count)
		1(1)