

# 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

<b>PUBLIC WATER SYSTEM NAME:</b> <u>City of Corsicana</u>	<b>PLANT NAME OR NUMBER:</b> <u>Lake Halbert</u>
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.	
<b>PWS ID No.:</b> <u>1750002</u> <b>Report for the Month of:</b> <u>August 2009</u>	<b>Operator's Signature:</b> _____ <b>Certificate No. &amp; Grade:</b> <u>W00012234 A</u> <b>Date:</b> <u>September 1, 2009</u>

TREATMENT PLANT PERFORMANCE			
Total number of turbidity readings:	150	Number of 4-hour periods when plant was off-line:	36
Number of readings above 0.10 NTU:	45	Number of 4-hour periods when plant was on-line but turbidity data was not collected:	0
Number of readings above 0.3 NTU:	0		
Number of readings above 0.5 NTU:	0		
Number of readings above 1.0 NTU:	0		
Maximum allowable turbidity level:	0.3	Number of days with readings above 1.0 NTU:	0 (2)
Percentage of readings above this limit:	0.0 % (1)	Number of days with readings above 5.0 NTU:	0 (3)
Statistical Summary	Maximum turbidity reading:	0.19 NTU	Average turbidity value:
	Minimum turbidity reading:	0.06 NTU	0.10 NTU
			Standard deviation:
			0.022 NTU
Additional report(s) for individual filter monitoring required:		<input checked="" type="radio"/> NONE <input type="radio"/> Filter Profile <input type="radio"/> Filter Assessment <input type="radio"/> CPE	
Additional report(s) for individual filter monitoring submitted:		<input checked="" type="radio"/> NONE <input type="radio"/> Filter Profile <input type="radio"/> Filter Assessment <input type="radio"/> CPE	
		Number of days when plant was on-line but individual filter turbidity data was not collected: <u>0</u>	
Number of days with a low CT for no more than 4.0 consecutive hours:	0	Average log inactivation for Giardia:	NA
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	Average log inactivation for viruses:	NA
		Number of days when profiling data was not collected:	30
		Number of days when CT data was not collected:	30
Minimum disinfectant residual required leaving the plant:	0.5 mg/L	<input type="radio"/> Free Chlorine <input checked="" type="radio"/> 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	<input type="radio"/> Free Chlorine <input checked="" type="radio"/> Total Chlorine	
Total number of readings this month:	61	Percentage of readings with a low residual this month:	0.0 % (6A)
Average disinfectant residual value:	2.32	Percentage of readings with a low residual last month:	0.0 % (6B)
Number of readings with a low residual:	0		
Number of readings with no detectable residual:	0		

PUBLIC NOTIFICATION			
TREATMENT TECHNIQUE VIOLATIONS	YES/NO	If YES, date when notice was given to:	
		COMMISSIONERS	CUSTOMERS*
Were more than 5.0% of the turbidity readings above the acceptable level? - see (1) above	No		
Were there any days with turbidity readings above 1.0 NTU? - see (2) above	No		
Were there any days with turbidity readings above 5.0 NTU? - see (3) above	No		
Were there any periods when the plant failed to meet the CT requirements for more than 4.0 consecutive hours? - see (4) above	No		
Were there any periods when the residuals leaving the plant fell below the acceptable level for more than 4.0 consecutive hours? - see (5) above	No		
Were more than 5.0% of the residuals in the distribution system below the acceptable level for two months in a row? - see (6A) and (6B) above	No		

Due by the end of the next business day.  
 \* Copies of each Public Notice must accompany this report.

**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.)

## Turbidity Data Page

PUBLIC WATER SYSTEM NAME: City of Corsicana

PLANT NAME OR NUMBER: Lake Halbert

PWS ID No.: 1750002

Connections: 11,500

Month: August Year: 2009

Population: 28,500

PERFORMANCE DATA																		
Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY (Optional Data)						FINISHED WATER QUALITY							
			NTU	Alk.	Basin No.						Turbidity						Lowest Residual	Time
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6		
1	0.000	0.000	X	X	X	X						X	X	X	X	X	X	X
2	1.600	1.598	49	122								X	X	X	X	0.11	0.08	2.0
3	1.803	1.740	49	121								0.08	0.08	X	X	0.07	0.07	2.8
4	2.308	2.139	34	120								0.09	0.09	0.12	0.10	0.08	0.08	2.5
5	0.980	0.868	36	118								X	X	X	X	0.09	0.10	2.8
6	2.636	2.536	31	117								0.11	0.10	0.12	0.09	0.09	0.09	3.0
7	2.461	2.245	25	116								0.10	0.10	0.19	0.18	0.11	0.10	3.0
8	2.202	2.101	19	111								0.10	0.10	0.09	0.09	0.08	0.08	2.9
9	1.492	1.172	26	119								X	X	X	0.10	0.09	0.10	3.0
10	1.533	1.467	67	120								X	X	0.10	0.12	0.09	0.10	2.7
11	2.441	2.299	35	118								0.08	0.08	0.12	0.10	0.09	0.11	3.0
12	2.003	1.629	29	121								0.14	0.13	0.14	0.11	0.08	0.10	2.7
13	0.426	0.320	35	110								X	X	X	X	X	0.12	3.3
14	3.335	3.234	49	113								0.12	0.11	0.10	0.13	0.10	0.10	3.1
15	3.434	2.750	31	112								0.10	0.10	0.10	0.09	0.09	0.10	3.0
16	2.442	2.377	27	117								X	X	X	0.11	0.10	0.11	3.2
17	2.675	2.663	27	118								0.10	0.10	0.12	0.09	0.07	0.09	2.5
18	3.388	3.297	32	120								0.09	0.10	0.10	0.09	0.09	0.10	3.5
19	2.884	2.630	36	120								0.10	0.10	0.14	0.11	0.09	0.10	3.2
20	2.701	2.622	34	123								X	X	0.12	0.15	0.11	0.10	3.3
21	2.231	2.131	42	120								0.11	X	X	0.15	0.12	0.13	2.8
22	2.550	2.532	51	113								0.11	0.10	0.09	0.07	0.09	0.07	3.6
23	1.640	1.230	41	118								X	X	0.08	0.09	0.08	0.10	2.9
24	2.010	1.890	36	121								0.09	0.10	0.14	0.10	0.08	0.10	3.4
25	2.688	2.612	38	118								0.10	0.10	0.12	0.08	0.07	0.07	3.5
26	2.150	2.136	36	120								0.10	0.10	0.08	0.07	0.06	0.08	3.5
27	2.035	1.938	32	117								0.07	0.07	0.08	0.13	0.11	0.11	3.6
28	2.754	2.577	35	118								0.12	0.11	0.14	0.12	0.10	0.10	2.8
29	2.570	2.470	43	113								0.16	0.16	0.12	0.08	0.08	0.09	3.3
30	2.035	1.992	34	120								0.09	0.09	0.10	0.07	0.06	0.09	3.3
31	1.830	1.567	31	123								0.08	X	0.11	0.12	0.09	0.08	3.3
<b>Total</b>	67.237	62.762																
<b>Avg</b>	2.169	2.025																
<b>Max</b>	3.434	3.297																
<b>Min</b>	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: W00012234 A Date: September 1, 2009

# 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 Corsicana  
PWS ID No.: 1750002

PLANT NAME  
OR NUMBER: Lake Halbert  
Month: August Year: 2009

PERFORMANCE DATA																				
INDIVIDUAL FILTER TURBIDITY																				
Date	Filter No. 1		Filter No. 2		Filter No. 3		Filter No. 4		Filter No. 5		Filter No. 6		Filter No. 7		Filter No. 8		Filter No. 9		Filter No. 10	
	Max	4 Hrs																		
1	X	X	X	X	X	X	X	X												
2	0.06	0.06	X	X	0.06	0.06	0.08	0.08												
3	0.05	0.04	0.05	0.03	0.06	0.05	0.07	0.06												
4	0.09	0.09	X	X	0.09	0.09	0.07	X												
5	0.06	0.06	X	X	0.08	0.08	0.18	0.16												
6	0.05	X	X	X	0.06	X	0.20	X												
7	X	X	0.19	0.11	0.16	X	0.13	X												
8	X	X	0.07	X	0.05	0.05	0.11	X												
9	0.09	0.09	X	X	0.11	0.11	0.07	0.06												
10	0.10	0.10	X	X	0.11	0.11	0.09	0.09												
11	0.06	X	X	X	0.09	X	0.15	X												
12	X	X	0.12	X	0.07	X	0.14	X												
13	0.12	0.12	0.10	0.10	0.08	0.08	X	X												
14	0.11	X	0.05	0.05	0.07	X	0.11	0.11												
15	0.05	X	0.09	0.09	0.10	0.09	0.12	X												
16	0.08	0.08	0.07	0.07	0.09	0.09	0.07	0.06												
17	0.06	X	0.05	0.05	0.07	X	0.09	X												
18	0.10	0.10	0.11	0.04	0.06	X	0.08	X												
19	0.08	X	0.09	0.09	0.11	X	0.13	0.13												
20	0.07	0.07	0.07	0.06	0.12	0.12	0.18	0.18												
21	0.09	0.09	0.11	0.11	0.08	0.08	0.12	0.08												
22	0.07	X	X	X	0.06	X	0.12	X												
23	0.08	0.08	X	X	0.05	0.05	0.07	0.07												
24	0.06	X	X	X	0.09	0.09	0.08	X												
25	0.08	0.08	0.04	0.04	0.08	X	0.07	X												
26	0.08	X	X	X	0.06	X	0.05	X												
27	0.06	X	X	X	0.06	X	0.16	0.16												
28	0.07	0.07	0.07	0.07	0.14	X	0.18	X												
29	0.10	0.10	X	X	0.08	0.08	0.14	X												
30	0.05	X	X	X	0.05	X	0.09	X												
31	0.08	0.08	X	X	0.06	0.06	0.11	0.11												

  

SUMMARY & COMPLIANCE ACTIONS	Criteria											Plant
	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							
	Number of days with event(s) above 1.0 NTU this month	0	0	0	0							
	Number of days with event(s) above 1.0 NTU last month	0	0	0	0							
	Number of days with event(s) above 1.0 NTU two months ago	0	0	0	0							
	Total number of days with event(s) above 1.0 NTU in three months	0	0	0	0							
	Number of days with event(s) above 2.0 NTU this month											0
	Number of days with event(s) above 2.0 NTU last month											0
Does the plant have an approved Corrective Action Plan?	N	N	N	N							N	
Is the plant required to submit a Filter Profile Report?	N	N	N	N								
Is the plant required to submit a Filter Assessment Report?	N	N	N	N								
Is the plant required to submit a Request for Compliance CPE?											N	

SUBMITTED BY: \_\_\_\_\_ Certificate No. and Grade: W00012234 A Date: September 1, 2009

# 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 Corsicana  
PWS ID No.: 1750002

PLANT NAME OR NUMBER: Lake Halbert  
Month: August Year: 2009

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)	4.000	4.000	4.000			0.5	2.0
T <sub>10</sub> (minutes)	78.3	15.1	9.0				

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time <input type="checkbox"/>
1	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	D4								
	D5								
2	NA D1								
	FCL D2	2.6	3.000	27.0	7.3				
	FCL D3	2.0	3.000	27.0	7.2				
	D4								
	D5								
3	NA D1								
	FCL D2	3.7	3.000	28.0	7.2				
	FCL D3	3.0	3.000	29.0	7.3				
	D4								
	D5								
4	NA D1								
	FCL D2	3.7	2.400	28.0	7.4				
	FCL D3	3.5	2.400	29.0	7.4				
	D4								
	D5								
5	NA D1								
	FCL D2	3.3	2.200	29.0	7.4				
	FCL D3	2.8	2.200	28.0	7.3				
	D4								
	D5								
6	NA D1								
	FCL D2	3.3	2.400	29.0	7.6				
	FCL D3	3.0	2.400	30.0	7.5				
	D4								
	D5								
7	NA D1								
	FCL D2	3.7	2.400	27.0	7.5				
	FCL D3	3.2	2.400	27.0	7.4				
	D4								
	D5								
8	NA D1								
	FCL D2	3.3	2.400	27.0	7.6				
	FCL D3	3.4	2.400	27.0	7.5				
	D4								
	D5								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time <input type="checkbox"/>
9	NA D1								
	FCL D2	3.5	2.300	28.0	7.3				
	FCL D3	3.0	2.300	29.0	7.2				
	D4								
	D5								
10	NA D1								
	FCL D2	3.1	2.300	29.0	7.4				
	FCL D3	2.7	2.300	29.0	7.3				
	D4								
	D5								
11	NA D1								
	FCL D2	3.5	2.300	30.0	7.5				
	FCL D3	3.3	2.300	31.0	7.4				
	D4								
	D5								
12	NA D1								
	FCL D2	3.7	2.300	29.0	7.4				
	FCL D3	2.7	2.300	30.0	7.4				
	D4								
	D5								
13	NA D1								
	FCL D2	3.9	2.400	26.0	7.4				
	CLA D3	3.3	2.400	26.0	7.3				
	D4								
	D5								
14	NA D1								
	FCL D2	3.4	3.900	27.0	7.6				
	CLA D3	3.4	3.900	29.0	7.5				
	D4								
	D5								
15	NA D1								
	FCL D2	3.4	3.900	28.0	7.5				
	CLA D3	3.2	3.900	28.0	7.6				
	D4								
	D5								
16	NA D1								
	FCL D2	3.3	3.900	29.0	7.6				
	CLA D3	3.2	3.900	29.0	7.5				
	D4								
	D5								

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

SUBMITTED BY: \_\_\_\_\_ Certificate No. and Grade: W00012234 A Date: September 1, 2009

# SURFACE WATER MONTHLY OPERATING REPORT

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

PUBLIC WATER SYSTEM NAME: City of Corsicana  
PWS ID No.: 1750002

PLANT NAME OR NUMBER: Lake Halbert  
Month: August Year: 2009

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)	4.000	4.000	4.000				
T <sub>10</sub> (minutes)	78.3	15.1	9.0			0.5	2.0

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time <input type="checkbox"/>
17	NA D1								
	FCL D2	2.5	3.900	28.0	7.6				
	CLA D3	3.1	3.900	29.0	7.7				
	D4								
	D5								
18	NA D1								
	FCL D2	3.7	3.900	30.0	7.6				
	CLA D3	3.9	3.900	31.0	7.6				
	D4								
	D5								
19	NA D1								
	FCL D2	3.7	3.900	29.0	7.5				
	CLA D3	3.4	3.900	31.0	7.4				
	D4								
	D5								
20	NA D1								
	FCL D2	3.0	3.900	29.0	7.7				
	CLA D3	3.5	3.900	29.0	7.7				
	D4								
	D5								
21	NA D1								
	FCL D2	3.2	3.900	25.0	7.4				
	CLA D3	3.8	3.900	29.0	7.4				
	D4								
	D5								
22	NA D1								
	FCL D2	3.1	3.000	27.0	7.4				
	CLA D3	3.8	3.000	28.0	7.4				
	D4								
	D5								
23	NA D1								
	FCL D2	3.3	2.300	28.0	7.1				
	CLA D3	2.9	2.300	27.0	7.0				
	D4								
	D5								
24	NA D1								
	FCL D2	3.4	2.300	28.0	7.3				
	CLA D3	3.6	2.300	28.0	7.2				
	D4								
	D5								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time <input type="checkbox"/>
25	NA D1								
	FCL D2	3.2	3.900	28.0	7.3				
	CLA D3	3.7	3.900	29.0	7.6				
	D4								
	D5								
26	NA D1								
	FCL D2	3.7	2.300	28.0	7.3				
	CLA D3	3.8	2.300	30.0	7.5				
	D4								
	D5								
27	NA D1								
	FCL D2	3.8	2.300	29.0	7.2				
	CLA D3	3.9	2.300	30.0	7.4				
	D4								
	D5								
28	NA D1								
	FCL D2	3.6	4.000	27.0	7.2				
	CLA D3	3.5	4.000	27.0	7.4				
	D4								
	D5								
29	NA D1								
	FCL D2	3.0	3.000	26.0	7.3				
	CLA D3	3.7	3.000	26.0	7.3				
	D4								
	D5								
30	NA D1								
	FCL D2	3.6	2.400	29.0	7.3				
	CLA D3	3.6	2.400	30.0	7.3				
	D4								
	D5								
31	NA D1								
	FCL D2	3.6	2.400	29.0	7.5				
	CLA D3	3.4	2.400	29.0	7.5				
	D4								
	D5								

Max	NA	NA
Min	NA	NA
Avg	NA	NA
SD	NA	NA

NOTE:  ONLY use the "Time

SUBMITTED BY: \_\_\_\_\_ Certificate No. and Grade: W00012234 A Date: September 1, 2009