

# 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>December 2007</u>	<b>Operator's Signature:</b> _____ <b>Certificate No. &amp; Grade:</b> <u>W00012234 A</u> <b>Date:</b> <u>January 2, 2008</u>

TREATMENT PLANT PERFORMANCE			
Total number of turbidity readings:	92	Number of 4-hour periods when plant was off-line:	94
Number of readings above 0.10 NTU:	43	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:	0.15 NTU	Average turbidity value:
	Minimum turbidity reading:	0.05 NTU	Standard deviation:
		0.10 NTU	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:	29
		Number of days when CT data was not collected:	29
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: <u>0</u>	

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:	2.12	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: December Year: 2007

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	1.151	1.014	30	119								X	X	X	0.11	0.14	0.15	2.7	
2	0.000	0.000	X	X	X	X						X	X	X	X	X	X	X	
3	1.501	1.396	29	109								X	X	0.14	0.13	0.14	0.13	2.9	
4	1.957	1.905	26	100								0.09	0.08	0.08	0.06	0.09	0.07	3.2	
5	1.325	1.300	24	111								X	X	0.11	0.08	0.10	0.10	3.2	
6	0.954	0.916	28	114								X	X	X	0.12	0.12	0.12	2.7	
7	1.139	1.074	26	110								X	0.11	0.09	0.12	X	X	3.3	
8	1.085	1.015	24	117								X	X	X	0.09	0.10	0.12	3.2	
9	0.325	0.309	27	115								X	X	X	X	X	0.12	3.4	
10	1.089	1.026	28	116								X	X	0.11	0.12	0.11	0.11	3.2	
11	0.875	0.868	25	106								X	X	X	0.09	0.12	0.10	3.0	
12	1.215	1.124	33	112								X	X	X	0.15	0.12	0.11	2.8	
13	1.500	1.482	30	108								0.12	0.08	0.08	0.06	X	X	3.5	
14	1.061	0.972	35	104								X	X	X	0.05	0.10	0.13	3.1	
15	0.425	0.400	35	99								X	X	X	X	X	0.10	3.0	
16	1.225	1.218	36	106								X	X	X	X	0.08	0.08	2.8	
17	0.000	0.000	X	X	X	X						X	X	X	X	X	X	X	
18	1.263	1.182	27	102								X	X	0.10	0.12	0.09	0.08	2.6	
19	1.585	1.465	31	111								X	X	0.10	0.06	0.08	0.09	3.2	
20	1.324	1.098	34	109								X	X	0.07	0.08	0.11	0.14	3.0	
21	0.736	0.625	32	100								0.13	X	X	X	0.10	0.12	3.0	
22	0.625	0.613	34	100								0.07	0.09	X	X	X	X	3.4	
23	0.980	0.938	30	107								X	X	X	0.11	0.14	0.11	2.9	
24	1.025	1.005	29	107								X	X	0.10	0.10	0.08	0.10	3.3	
25	1.400	1.374	29	116								X	X	0.09	0.08	0.08	0.07	2.9	
26	1.468	1.382	29	86								X	X	X	0.14	0.10	0.09	2.6	
27	1.539	1.493	29	106								X	X	0.11	0.13	0.14	0.12	1.5	
28	1.742	1.697	29	104								0.09	0.09	0.11	0.11	X	X	3.3	
29	0.359	0.256	30	109								X	X	X	X	X	0.11	3.3	
30	0.975	0.959	32	110								X	X	X	0.09	0.11	0.12	1.5	
31	0.754	0.697	30	112								X	X	X	X	0.07	0.09	3.3	
<b>Total</b>	32.602	30.803																	
<b>Avg</b>	1.052	0.994																	
<b>Max</b>	1.957	1.905																	
<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: January 2, 2008

# 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: December Year: 2007

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	0.15	0.15	X	X	0.12	0.12	X	X												
2	X	X	X	X	X	X	X	X												
3	0.14	0.14	X	X	0.12	0.12	X	X												
4	0.10	X	0.09	0.09	0.07	X	X	X												
5	X	X	0.05	0.05	X	X	0.08	0.07												
6	0.11	0.11	0.05	0.05	X	X	X	X												
7	0.07	0.06	0.04	0.04	0.12	0.12	X	X												
8	0.05	0.05	0.04	0.04	0.10	0.10	X	X												
9	X	X	0.09	0.09	0.06	0.06	X	X												
10	0.09	0.09	0.08	0.08	0.06	0.06	0.07	0.07												
11	0.06	0.06	X	X	0.05	0.05	X	X												
12	0.09	0.09	X	X	0.10	0.10	X	X												
13	0.08	X	X	X	0.08	X	X	X												
14	0.05	0.05	0.06	0.06	0.06	0.06	X	X												
15	X	X	0.05	0.05	0.05	0.05	X	X												
16	0.07	0.07	0.04	0.04	X	X	X	X												
17	X	X	X	X	X	X	X	X												
18	0.06	0.06	0.08	0.06	X	X	0.10	0.10												
19	0.06	0.04	0.05	0.05	0.05	0.05	0.08	X												
20	0.09	0.09	0.07	0.04	0.10	0.10	X	X												
21	0.07	0.05	X	X	0.08	0.07	X	X												
22	0.06	X	X	X	0.07	X	X	X												
23	X	X	0.07	0.07	0.06	0.06	X	X												
24	0.09	0.07	0.06	0.06	0.05	0.05	X	X												
25	0.07	0.07	0.05	0.05	X	X	X	X												
26	0.07	0.07	0.04	0.04	0.12	0.12	X	X												
27	0.09	0.09	X	X	0.08	0.08	0.12	0.12												
28	0.09	X	0.09	0.09	0.07	X	X	X												
29	0.05	0.05	0.05	0.05	X	X	X	X												
30	X	X	0.04	0.04	0.10	0.10	X	X												
31	0.08	0.08	0.05	0.05	X	X	X	X												

  

SUMMARY & COMPLIANCE ACTIONS	Criteria	Filter No.										Plant	
		1	2	3	4	5	6	7	8	9	10		
	Number of days with event(s) above 0.5 NTU at 4.0 hrs this month	0	0	0	0								
	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: January 2, 2008

# 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: December Year: 2007

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								
	FCL D2	3.1	2.400	16.0	7.6				
	CLA D3	2.7	2.400	14.0	7.6				
	D4								
	D5								
2	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	D4								
	D5								
3	NA D1								
	FCL D2	2.8	2.400	15.0	7.4				
	CLA D3	2.9	2.400	14.0	7.5				
	D4								
	D5								
4	NA D1								
	FCL D2	3.4	2.400	16.0	7.4				
	CLA D3	3.4	2.400	15.0	7.4				
	D4								
	D5								
5	NA D1								
	FCL D2	2.9	1.800	14.0	7.3				
	CLA D3	3.4	1.800	13.0	7.3				
	D4								
	D5								
6	NA D1								
	FCL D2	3.1	2.400	15.0	7.4				
	CLA D3	3.1	2.400	14.0	7.3				
	D4								
	D5								
7	NA D1								
	FCL D2	3.5	2.400	15.0	7.6				
	CLA D3	3.3	2.400	15.0	7.6				
	D4								
	D5								
8	NA D1								
	FCL D2	2.7	2.400	17.0	7.9				
	CLA D3	3.2	2.400	14.0	7.8				
	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	3.1	2.400	17.0	7.5				
	CLA D3	3.4	2.400	17.0	7.5				
	D4								
	D5								
10	NA D1								
	FCL D2	3.4	2.400	14.0	7.4				
	CLA D3	3.3	2.400	14.0	7.4				
	D4								
	D5								
11	NA D1								
	FCL D2	3.1	2.400	14.0	7.3				
	CLA D3	3.1	2.400	15.0	7.3				
	D4								
	D5								
12	NA D1								
	FCL D2	3.7	2.400	16.0	7.9				
	CLA D3	2.8	2.400	16.0	7.6				
	D4								
	D5								
13	NA D1								
	FCL D2	3.7	2.400	14.0	7.7				
	CLA D3	3.6	2.400	14.0	7.7				
	D4								
	D5								
14	NA D1								
	FCL D2	2.6	2.000	16.0	7.4				
	CLA D3	3.1	2.000	13.0	7.5				
	D4								
	D5								
15	NA D1								
	FCL D2	3.8	2.000	15.0	7.3				
	CLA D3	3.0	2.000	14.0	7.3				
	D4								
	D5								
16	NA D1								
	FCL D2	3.0	2.400	13.0	7.4				
	CLA D3	2.8	2.400	13.0	7.4				
	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. W00012234 A and Grade: \_\_\_\_\_ Date: January 2, 2008

# 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: December Year: 2007

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			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
17	NA D1								
	NA D2								
	NA D3					NA	NA	NA	
	D4								
	D5								
18	NA D1								
	FCL D2	3.1	2.400	14.0	7.9				
	CLA D3	2.6	2.400	11.0	7.7				
	D4								
	D5								
19	NA D1								
	FCL D2	3.3	2.600	14.0	7.4				
	CLA D3	3.5	2.600	11.0	7.6				
	D4								
	D5								
20	NA D1								
	FCL D2	3.2	2.400	13.0	7.8				
	CLA D3	3.0	2.400	12.0	7.9				
	D4								
	D5								
21	NA D1								
	FCL D2	3.8	2.400	14.0	7.7				
	CLA D3	3.4	2.400	14.0	7.7				
	D4								
	D5								
22	NA D1								
	FCL D2	3.9	2.400	14.0	7.7				
	CLA D3	3.5	2.400	14.0	7.7				
	D4								
	D5								
23	NA D1								
	FCL D2	3.4	2.400	13.0	7.7				
	CLA D3	2.9	2.400	13.0	7.6				
	D4								
	D5								
24	NA D1								
	FCL D2	3.8	2.400	12.0	7.5				
	CLA D3	3.7	2.400	12.0	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
25	NA D1								
	FCL D2	2.5	2.400	14.0	7.8				
	CLA D3	2.9	2.400	11.0	7.6				
	D4								
	D5								
26	NA D1								
	FCL D2	2.5	2.400	14.0	7.5				
	CLA D3	2.6	2.400	12.0	7.5				
	D4								
	D5								
27	NA D1								
	FCL D2	2.6	2.400	13.0	7.6				
	CLA D3	2.9	2.400	14.0	7.1				
	D4								
	D5								
28	NA D1								
	FCL D2	3.5	2.400	13.0	7.5				
	CLA D3	3.3	2.400	13.0	7.5				
	D4								
	D5								
29	NA D1								
	FCL D2	2.6	2.400	16.0	7.6				
	CLA D3	3.3	2.400	13.0	7.6				
	D4								
	D5								
30	NA D1								
	FCL D2	3.3	2.400	13.0	7.6				
	CLA D3	3.1	2.400	13.0	7.6				
	D4								
	D5								
31	NA D1								
	FCL D2	3.5	2.400	13.0	7.6				
	CLA D3	3.3	2.400	13.0	7.7				
	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: January 2, 2008