

# 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>Navarro Mills</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>April 2009</u>	<b>Operator's Signature:</b> _____ <b>Certificate No. &amp; Grade:</b> <u>WO0004220 A</u> <b>Date:</b> <u>May 4, 2009</u>

TREATMENT PLANT PERFORMANCE			
Total number of turbidity readings:	127	Number of 4-hour periods when plant was off-line:	53
Number of readings above 0.10 NTU:	20	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:	0.18 NTU	Average turbidity value:
	Minimum turbidity reading:	0.06 NTU	0.09 NTU
			Standard deviation:
			0.016 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	
#NAME?		Number of days when plant was on-line but individual filter turbidity data was not collected:	0
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 checked="" type="radio"/> Free Chlorine <input 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 checked="" type="radio"/> Free Chlorine <input type="radio"/> Total Chlorine	
Total number of readings this month:	65	Percentage of readings with a low residual this month:	0.0 % (6A)
Average disinfectant residual value:	2.41	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: Navarro Mills

PWS ID No.: 1750002

Connections: 11,050

Month: April 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	Aik.	Basin No.						Turbidity						Lowest Residual	Time
					1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6		
1	3.690	3.661	23	108	0.4	0.5	0.4	0.5	0.4	0.5	X	X	0.08	0.08	0.08	0.08	3.1	
2	3.760	3.695	30	109	0.5	0.5	0.6	0.5	0.6	0.7	X	X	0.09	0.09	0.08	0.08	3.1	
3	5.100	4.140	24	103	0.4	0.3	0.5	0.4	0.4	0.4	X	X	0.09	0.09	0.08	0.08	2.9	
4	5.580	5.374	22	105	0.3	0.4	0.5	0.5	0.4	0.5	0.10	0.10	0.09	0.10	0.10	0.09	2.9	
5	7.030	5.271	19	106	0.4	0.5	0.6	0.5	0.5	0.6	0.09	0.10	0.08	0.09	0.10	0.11	2.6	
6	4.400	4.320	20	105	0.6	0.6	0.7	0.5	0.6	0.5	X	X	0.09	0.10	0.10	0.10	2.6	
7	4.690	4.224	21	108	0.6	0.6	0.7	0.6	0.5	0.6	X	X	0.11	0.11	0.10	0.11	3.0	
8	4.840	4.505	24	109	0.6	0.5	0.5	0.6	0.5	0.5	X	X	0.09	0.12	0.11	0.10	3.0	
9	5.290	4.761	19	109	0.6	0.6	0.8	0.6	0.7	0.5	X	X	0.10	0.11	0.10	0.09	3.0	
10	4.970	5.083	23	103	0.6	0.5	0.6	0.6	0.9	0.6	X	X	0.09	0.09	0.10	0.10	3.0	
11	6.970	4.972	26	107	0.6	0.7	0.8	0.7	0.7	0.8	0.12	0.11	0.10	0.09	0.11	0.11	2.1	
12	3.570	3.353	32	111	0.5	0.6	0.7	0.6	0.6	0.7	X	X	X	X	0.11	0.11	2.5	
13	4.500	4.249	31	109	0.8	0.7	0.7	0.8	0.8	0.8	X	X	0.10	0.12	0.13	0.10	2.3	
14	4.770	4.447	33	109	0.6	0.5	0.8	0.6	0.6	0.6	X	X	0.09	0.09	0.09	0.10	2.7	
15	4.730	4.061	30	109	0.6	0.7	0.7	0.7	0.6	0.6	X	X	0.08	0.09	0.08	0.09	3.0	
16	4.880	4.442	25	108	0.5	0.7	0.7	0.5	0.6	0.6	X	X	0.08	0.08	0.07	0.07	3.0	
17	4.770	4.251	33	109	0.6	0.8	0.8	0.7	0.6	0.7	X	X	0.08	0.10	0.08	0.08	2.7	
18	5.490	4.500	25	111	0.5	0.6	0.7	0.6	0.5	0.6	X	X	0.09	0.09	0.09	0.10	2.4	
19	5.140	4.690	25	110	0.5	0.8	0.7	0.6	0.6	0.6	X	X	0.08	0.08	0.09	0.10	2.6	
20	4.780	3.885	18	109	X	0.5	0.5	0.6	0.4	0.5	X	X	0.10	0.08	0.18	0.07	2.5	
21	6.550	4.244	17	107	X	X	X	0.6	0.6	0.7	X	X	0.07	0.06	0.06	0.07	2.9	
22	7.080	5.074	16	105	0.7	0.9	1.0	X	X	0.9	X	X	0.08	0.08	0.08	0.08	3.2	
23	6.330	4.770	15	105	0.8	0.9	0.9	0.7	1.0	X	X	X	0.10	0.09	0.09	0.09	2.9	
24	4.710	5.148	17	101	1.1	1.0	0.9	0.9	0.8	0.9	X	X	0.09	0.10	0.09	0.08	2.5	
25	7.050	5.191	19	104	0.5	0.6	0.6	0.6	0.5	0.6	0.10	0.10	0.08	0.08	0.10	0.10	2.7	
26	5.270	5.070	23	108	0.6	0.7	0.8	0.6	0.7	0.6	X	X	0.09	0.09	0.09	0.09	2.5	
27	3.950	3.765	22	106	0.7	0.6	0.6	0.6	0.7	0.5	X	X	0.09	0.12	0.12	0.12	2.2	
28	5.100	4.895	18	105	0.5	0.6	0.6	0.5	0.5	0.5	X	X	0.10	0.12	0.10	0.10	2.4	
29	4.870	4.536	18	104	0.5	0.6	0.7	0.5	0.5	0.5	X	X	0.08	0.08	0.08	0.07	2.6	
30	5.360	4.548	19	105	0.5	0.5	0.6	0.5	0.6	0.5	0.10	0.09	X	0.07	0.07	0.07	2.0	
31																		
<b>Total</b>	155.220	135.125	<input checked="" type="checkbox"/> 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.															
<b>Avg</b>	5.174	4.504																
<b>Max</b>	7.080	5.374																
<b>Min</b>	3.570	3.353																

SUBMITTED BY: \_\_\_\_\_ Certificate No. and Grade: WO0004220 A Date: May 4, 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: Navarro Mills  
Month: April 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	Max	4 Hrs																
1	0.15	X	X	X	0.11	X	0.12	X	0.11	0.10	0.12	X								
2	0.22	X	X	X	X	X	0.11	X	0.12	X	0.13	X								
3	0.13	X	0.15	0.14	0.13	0.13	0.10	X	0.12	X	0.14	X								
4	X	X	0.11	X	0.11	X	0.09	X	0.10	X	0.11	X								
5	0.18	0.13	0.11	X	0.09	X	0.21	0.13	0.10	X	0.26	0.14								
6	0.13	X	0.12	X	0.10	X	0.13	X	0.31	0.14	0.14	X								
7	0.13	X	X	X	0.11	X	0.12	X	0.15	X	0.15	X								
8	0.13	X	0.27	0.22	0.11	X	0.11	X	0.13	X	0.14	X								
9	0.14	X	0.15	X	X	X	0.10	X	0.12	X	0.17	X								
10	0.27	0.17	0.21	X	X	X	0.13	X	0.14	X	0.17	X								
11	0.16	X	0.12	X	0.23	0.15	0.10	X	0.11	X	0.31	0.15								
12	0.12	X	0.11	X	0.11	X	0.20	0.13	0.18	X	0.14	X								
13	0.11	X	0.12	X	0.13	X	0.12	X	X	X	0.12	X								
14	0.11	X	X	X	0.09	X	0.10	X	0.38	0.14	0.12	X								
15	0.11	X	X	X	0.08	X	0.09	X	0.11	X	0.12	X								
16	0.24	0.12	0.19	0.12	0.09	X	0.08	X	0.09	X	0.12	X								
17	0.11	X	0.11	X	0.21	0.10	0.08	X	0.09	X	0.10	X								
18	0.09	X	0.09	X	0.09	X	0.07	X	0.08	X	0.21	0.10								
19	0.09	X	0.09	X	0.08	X	0.14	0.09	0.08	X	0.11	X								
20	0.09	X	0.08	X	0.06	X	0.08	X	X	X	0.09	X								
21	0.15	X	0.21	0.17	0.09	X	0.10	X	0.12	0.09	0.11	X								
22	0.13	0.12	0.20	X	0.23	0.11	0.10	X	0.14	X	0.11	X								
23	0.14	X	0.13	X	0.12	X	0.11	X	0.11	X	X	X								
24	0.12	X	0.13	X	0.11	X	0.09	X	0.10	X	0.15	0.15								
25	0.11	X	0.23	0.15	0.10	X	0.17	0.13	0.20	0.13	0.14	X								
26	X	X	0.14	X	0.11	X	0.11	X	0.11	X	0.12	X								
27	0.15	0.15	0.13	X	0.09	X	0.10	X	0.11	X	0.12	X								
28	0.13	X	0.13	X	X	X	0.10	X	0.11	X	0.13	X								
29	0.10	X	0.11	X	0.14	0.11	0.08	X	0.09	X	0.22	0.12								
30	0.09	X	0.10	X	0.09	X	0.07	X	0.25	0.10	0.12	X								
31																				

  

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
	Number of days with event(s) above 1.0 NTU this month											0
	Number of days with event(s) above 1.0 NTU last month											0
	Number of days with event(s) above 1.0 NTU two months ago											0
	Total number of days with event(s) above 1.0 NTU in three months											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	
Is the plant required to submit a Filter Profile Report?											N	
Is the plant required to submit a Filter Assessment Report?											N	
Is the plant required to submit a Request for Compliance CPE?											N	

SUBMITTED BY: \_\_\_\_\_ Certificate No. WO0004220 A and Grade: \_\_\_\_\_ Date: May 4, 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: Navarro Mills  
Month: April 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)	20.250	20.250	20.250			0.5	2.0
T <sub>10</sub> (minutes)	109.1	13.0	100.0				

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time <sub>min</sub>
1	NA D1								
	FCL D2	3.2	5.600	16.0	7.4				
	CLA D3	3.3	5.600	16.0	7.4				
	D4								
	D5								
2	NA D1								
	FCL D2	3.4	5.200	16.0	7.4				
	CLA D3	3.2	5.200	16.0	7.5				
	D4								
	D5								
3	NA D1								
	FCL D2	2.8	7.000	17.0	7.5				
	CLA D3	3.3	7.000	16.0	7.5				
	D4								
	D5								
4	NA D1								
	FCL D2	3.3	7.000	16.0	7.6				
	CLA D3	3.3	7.000	17.0	7.6				
	D4								
	D5								
5	NA D1								
	FCL D2	1.8	7.000	16.0	7.5				
	CLA D3	2.9	7.000	17.0	7.5				
	D4								
	D5								
6	NA D1								
	FCL D2	3.5	7.000	16.0	7.4				
	CLA D3	3.3	7.000	17.0	7.5				
	D4								
	D5								
7	NA D1								
	FCL D2	3.6	7.300	16.0	7.4				
	CLA D3	3.1	7.300	17.0	7.5				
	D4								
	D5								
8	NA D1								
	FCL D2	3.1	7.100	16.0	7.5				
	CLA D3	3.3	7.100	16.0	7.5				
	D4								
	D5								

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time <sub>min</sub>
9	NA D1								
	FCL D2	3.1	7.100	17.0	7.5				
	CLA D3	3.3	7.100	18.0	7.6				
	D4								
	D5								
10	NA D1								
	FCL D2	3.1	7.100	17.0	7.5				
	CLA D3	3.1	7.100	18.0	7.6				
	D4								
	D5								
11	NA D1								
	FCL D2	3.0	7.000	17.0	7.6				
	CLA D3	2.5	7.000	17.0	7.6				
	D4								
	D5								
12	NA D1								
	FCL D2	2.7	7.300	16.0	7.5				
	CLA D3	2.5	7.300	17.0	7.6				
	D4								
	D5								
13	NA D1								
	FCL D2	3.0	7.200	18.0	7.4				
	CLA D3	2.3	7.200	18.0	7.4				
	D4								
	D5								
14	NA D1								
	FCL D2	3.1	7.200	18.0	7.5				
	CLA D3	2.8	7.200	17.0	7.4				
	D4								
	D5								
15	NA D1								
	FCL D2	3.1	7.200	18.0	7.4				
	CLA D3	3.0	7.200	18.0	7.5				
	D4								
	D5								
16	NA D1								
	FCL D2	3.2	7.300	17.0	7.4				
	CLA D3	3.0	7.300	18.0	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: WO0004220 A Date: May 4, 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: Navarro Mills  
Month: April 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)	20.250	20.250	20.250			0.5	2.0
T <sub>10</sub> (minutes)	109.1	13.0	100.0				

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
17	NA D1								
	FCL D2	2.9	7.200	17.0	7.4				
	CLA D3	2.9	7.200	18.0	7.4				
	D4								
	D5								
18	NA D1								
	FCL D2	3.1	7.300	17.0	7.4				
	CLA D3	2.5	7.300	18.0	7.4				
	D4								
	D5								
19	NA D1								
	FCL D2	2.8	7.300	18.0	7.4				
	CLA D3	2.7	7.300	18.0	7.4				
	D4								
	D5								
20	NA D1								
	FCL D2	2.9	7.200	19.0	7.4				
	CLA D3	2.7	7.200	18.0	7.4				
	D4								
	D5								
21	NA D1								
	FCL D2	2.8	9.100	19.0	7.4				
	CLA D3	3.6	9.100	19.0	7.4				
	D4								
	D5								
22	NA D1								
	FCL D2	2.3	9.400	20.0	7.6				
	CLA D3	3.3	9.400	20.0	7.5				
	D4								
	D5								
23	NA D1								
	FCL D2	2.6	9.400	20.0	7.6				
	CLA D3	3.2	9.400	21.0	7.6				
	D4								
	D5								
24	NA D1								
	FCL D2	3.0	7.100	21.0	7.6				
	CLA D3	2.5	7.100	21.0	7.6				
	D4								
	D5								

PERFORMANCE DATA									
Date	DISINFECTION PROCESS DATA								
	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
25	NA D1								
	FCL D2	3.1	7.100	21.0	7.5				
	CLA D3	3.0	7.100	21.0	7.5				
	D4								
	D5								
26	NA D1								
	FCL D2	2.5	7.100	21.0	7.5				
	CLA D3	2.7	7.100	21.0	7.5				
	D4								
	D5								
27	NA D1								
	FCL D2	3.0	7.100	21.0	7.5				
	CLA D3	2.2	7.100	21.0	7.5				
	D4								
	D5								
28	NA D1								
	FCL D2	3.1	7.500	21.0	7.4				
	CLA D3	2.4	7.500	21.0	7.4				
	D4								
	D5								
29	NA D1								
	FCL D2	2.9	7.300	21.0	7.4				
	CLA D3	2.8	7.300	21.0	7.4				
	D4								
	D5								
30	NA D1								
	FCL D2	2.9	7.300	21.0	7.2				
	CLA D3	2.1	7.300	21.0	7.3				
	D4								
	D5								
31	D1								
	D2								
	D3								
	D4								
	D5								
	Max	NA	NA						
	Min	NA	NA						
	Avg	NA	NA						
	SD	NA	NA						

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: WO0004220 A Date: May 4, 2009