

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

TREATMENT PLANT PERFORMANCE			
Total number of turbidity readings:	132	Number of 4-hour periods when plant was off-line:	54
Number of readings above 0.10 NTU:	26	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:	Average turbidity value:	0.09 NTU
	Minimum turbidity reading:	Standard deviation:	0.021 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:	31
		Number of days when CT data was not collected:	31
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:	61	Percentage of readings with a low residual this month:	0.0 % (6A)
Average disinfectant residual value:	2.17		
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		

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: May 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	4.060	4.010	22	105	0.5	0.5	0.7	0.5	0.5	0.4	X	X	0.10	0.09	0.07	0.07	2.3	
2	6.800	5.950	21	106	0.4	0.4	0.5	0.4	0.4	0.4	0.08	0.08	0.07	0.07	0.08	0.07	2.9	
3	4.310	4.010	20	104	0.3	0.4	0.4	0.4	0.4	0.4	X	X	0.18	0.10	0.10	0.08	2.8	
4	4.630	4.554	21	101	0.4	0.4	0.6	0.5	0.5	0.4	X	X	0.07	0.07	0.10	0.10	2.8	
5	4.520	4.087	35	106	0.7	0.8	0.9	0.7	0.7	0.6	X	X	0.07	0.08	0.06	0.06	2.8	
6	4.480	4.210	31	105	0.6	0.7	0.8	0.7	0.6	0.6	X	X	0.06	0.07	0.07	0.07	2.0	
7	4.400	4.116	31	104	0.8	0.9	1.0	0.7	0.9	0.7	X	X	X	0.07	0.07	0.08	2.1	
8	4.310	3.831	32	108	1.0	0.9	0.8	1.0	0.9	0.8	X	X	0.10	0.10	0.07	0.10	3.0	
9	5.120	4.561	36	106	0.7	0.9	1.0	0.7	0.8	0.7	X	X	0.07	0.08	0.08	0.09	2.9	
10	5.110	4.981	32	107	0.7	0.9	0.9	0.9	0.7	0.7	X	X	0.08	0.08	0.10	0.10	3.0	
11	4.640	4.837	33	105	0.6	0.8	0.8	0.6	0.6	0.6	X	X	0.09	0.10	0.10	0.11	2.9	
12	6.870	5.602	30	108	0.7	0.6	0.8	0.6	0.6	0.5	0.13	0.13	0.11	0.11	0.11	0.13	2.9	
13	4.600	4.326	28	106	0.5	0.7	0.8	0.6	0.6	0.6	X	X	0.09	0.09	0.09	0.10	3.0	
14	4.920	4.957	29	109	0.6	0.6	0.8	0.5	0.6	0.5	X	X	0.10	0.10	0.09	0.13	2.9	
15	6.800	6.041	21	108	0.5	0.5	0.9	0.5	0.5	0.5	0.12	0.13	0.11	0.11	0.09	0.08	2.5	
16	3.770	3.718	36	106	0.6	0.5	1.2	0.5	0.5	0.5	X	X	X	0.08	0.10	0.10	2.3	
17	5.100	4.711	36	111	0.5	0.6	0.8	0.5	0.6	0.6	X	X	0.10	0.10	0.11	0.12	2.5	
18	4.680	4.345	44	109	0.4	0.5	0.7	0.5	0.5	0.5	X	X	0.09	0.09	0.11	0.10	2.3	
19	4.820	4.897	45	109	0.6	0.6	1.0	0.7	0.6	0.6	X	X	0.11	0.09	0.09	0.09	2.3	
20	5.260	4.532	67	111	0.5	0.6	0.8	0.7	0.5	0.5	X	X	0.08	0.08	0.08	0.11	2.9	
21	5.370	5.167	53	116	0.5	0.5	0.8	0.6	0.5	0.5	X	X	0.08	0.07	0.07	0.07	2.9	
22	7.150	5.592	51	115	0.5	0.5	0.9	0.7	0.5	0.5	0.08	0.09	0.09	0.08	0.07	0.06	2.9	
23	5.050	4.527	53	114	0.5	0.4	1.0	0.4	0.4	0.4	X	X	0.07	0.07	0.08	0.09	3.3	
24	5.250	4.838	46	115	0.5	0.6	0.7	0.6	0.5	0.6	X	X	0.06	0.07	0.07	0.09	2.9	
25	4.310	4.895	37	112	0.4	0.4	0.5	0.4	0.5	0.4	X	X	X	0.06	0.07	0.07	1.8	
26	6.880	6.291	42	111	0.4	0.4	0.6	0.5	0.3	0.4	0.09	X	0.06	0.06	0.07	0.06	2.0	
27	5.750	4.768	36	112	0.5	0.5	0.6	0.5	0.5	0.5	0.07	X	0.07	0.07	0.08	0.08	2.9	
28	5.230	5.368	39	110	0.5	0.5	1.2	0.5	0.6	0.5	X	X	X	0.08	0.08	0.10	2.4	
29	6.520	6.034	45	112	0.9	0.9	1.3	0.9	0.9	0.9	0.14	X	X	0.13	0.13	0.13	2.5	
30	5.280	5.014	30	114	0.9	0.8	1.4	0.8	0.8	0.8	X	X	0.13	0.11	0.13	0.12	2.6	
31	7.020	6.646	32	114	0.5	0.5	0.7	0.6	0.5	0.5	0.10	0.10	0.08	0.09	0.09	0.09	2.8	
<b>Total</b>	163.010	151.416																
<b>Avg</b>	5.258	4.884																
<b>Max</b>	7.150	6.646																
<b>Min</b>	3.770	3.718																

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: WO0004220 A Date: June 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: May 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	0.08	X	0.18	0.13	0.08	X	0.08	X	0.09	X	0.10	X								
2	0.08	X	0.11	X	0.07	X	X	X	0.08	X	0.09	X								
3	X	X	0.09	X	0.07	X	0.12	0.10	0.07	X	0.08	X								
4	0.16	0.11	0.09	X	0.07	X	0.08	X	0.08	X	0.09	X								
5	0.11	X	0.09	X	0.14	0.10	0.08	X	0.09	X	0.09	X								
6	0.10	X	0.09	X	0.10	X	0.08	X	0.08	X	0.15	0.12								
7	0.21	0.11	0.09	X	0.10	X	0.08	X	0.26	0.11	0.13	X								
8	0.12	X	X	X	0.09	X	0.08	X	0.12	X	0.11	X								
9	0.12	X	0.18	0.14	0.09	X	0.08	X	0.10	X	0.11	X								
10	0.12	X	0.15	X	0.11	X	X	X	0.11	X	0.13	X								
11	0.16	X	0.18	X	0.24	0.20	0.22	0.20	0.15	X	0.16	X								
12	0.14	X	0.16	X	0.19	X	0.17	X	0.12	X	0.20	0.15								
13	X	X	0.12	X	0.12	X	0.11	X	0.19	0.15	0.16	X								
14	0.16	0.15	0.13	X	0.13	X	0.12	X	0.15	X	0.17	X								
15	0.15	X	X	X	0.11	X	0.11	X	0.13	X	0.14	X								
16	0.14	X	X	X	0.11	X	0.10	X	0.12	X	0.14	X								
17	0.12	X	0.20	0.18	0.09	X	0.20	0.13	0.11	X	0.11	X								
18	0.10	X	0.13	X	0.12	0.11	0.11	X	0.11	X	0.10	X								
19	0.10	X	0.12	X	0.11	X	0.10	X	0.23	0.14	X	X								
20	0.09	X	0.11	X	0.08	X	0.09	X	0.10	X	0.16	0.13								
21	X	X	0.10	X	0.08	X	0.08	X	0.09	X	0.11	X								
22	0.16	0.11	0.14	0.11	0.07	X	0.07	X	0.08	X	0.10	X								
23	0.10	X	0.11	X	0.06	X	X	X	0.08	X	0.10	X								
24	0.09	X	0.10	X	0.16	0.10	0.07	0.07	0.08	X	0.09	X								
25	0.08	X	0.09	X	0.09	X	0.07	X	0.14	0.11	0.08	X								
26	0.09	X	0.09	X	0.08	X	0.07	X	0.09	X	X	X								
27	0.09	X	0.11	X	0.10	X	0.11	X	0.11	X	0.15	0.15								
28	0.19	0.18	0.20	0.20	0.13	X	0.09	X	0.13	X	0.18	X								
29	0.40	X	0.31	X	0.61	X	0.09	X	0.81	X	0.51	X								
30	0.12	X	0.12	X	0.10	X	0.17	0.13	0.11	X	0.13	X								
31	0.10	X	0.10	X	0.16	0.12	0.11	X	0.09	X	0.11	X								

  

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. and Grade: WO0004220 A Date: June 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: May 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	6.900	22.0	7.4				
CLA D3		2.5	6.900	22.0	7.3				
D4									
D5									
2	NA D1								
	FCL D2	3.2	7.000	22.0	7.4				
	CLA D3	3.1	7.000	22.0	7.4				
	D4								
	D5								
3	NA D1								
	FCL D2	3.1	7.000	22.0	7.4				
	CLA D3	2.8	7.000	22.0	7.4				
	D4								
	D5								
4	NA D1								
	FCL D2	3.2	7.200	21.0	7.3				
	CLA D3	2.9	7.400	22.0	7.4				
	D4								
	D5								
5	NA D1								
	FCL D2	2.9	6.900	22.0	7.4				
	CLA D3	3.1	6.900	22.0	7.4				
	D4								
	D5								
6	NA D1								
	FCL D2	2.7	6.900	22.0	7.4				
	CLA D3	2.4	6.900	22.0	7.3				
	D4								
	D5								
7	NA D1								
	FCL D2	3.9	7.000	23.0	7.3				
	CLA D3	2.2	6.700	23.0	7.4				
	D4								
	D5								
8	NA D1								
	FCL D2	3.2	7.000	23.0	7.4				
	CLA D3	3.1	7.000	23.0	7.4				
	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		3.6	6.900	24.0	7.5				
CLA D3		3.0	6.900	24.0	7.4				
D4									
D5									
10	NA D1								
	FCL D2	3.6	6.900	24.0	7.4				
	CLA D3	3.1	6.900	24.0	7.5				
	D4								
	D5								
11	NA D1								
	FCL D2	3.4	7.000	25.0	7.4				
	CLA D3	3.0	7.000	25.0	7.4				
	D4								
	D5								
12	NA D1								
	FCL D2	3.3	6.800	25.0	7.4				
	CLA D3	3.2	6.800	25.0	7.4				
	D4								
	D5								
13	NA D1								
	FCL D2	3.4	7.000	25.0	7.4				
	CLA D3	3.0	7.000	25.0	7.4				
	D4								
	D5								
14	NA D1								
	FCL D2	2.9	7.000	25.0	7.4				
	CLA D3	3.1	7.000	25.0	7.5				
	D4								
	D5								
15	NA D1								
	FCL D2	2.5	7.000	25.0	7.4				
	CLA D3	2.9	7.000	25.0	7.5				
	D4								
	D5								
16	NA D1								
	FCL D2	2.9	7.100	25.0	7.5				
	CLA D3	2.3	7.100	26.0	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: June 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: May 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	3.1	6.900	25.0	7.5				
	CLA D3	2.9	6.900	25.0	7.5				
	D4								
	D5								
18	NA D1								
	FCL D2	3.1	7.100	24.0	7.5				
	CLA D3	2.3	7.100	25.0	7.4				
	D4								
	D5								
19	NA D1								
	FCL D2	3.1	7.100	25.0	7.5				
	CLA D3	2.7	7.100	25.0	7.5				
	D4								
	D5								
20	NA D1								
	FCL D2	3.1	7.100	24.0	7.5				
	CLA D3	3.3	7.100	24.0	7.5				
	D4								
	D5								
21	NA D1								
	FCL D2	3.2	7.400	24.0	7.5				
	CLA D3	3.3	7.400	24.0	7.5				
	D4								
	D5								
22	NA D1								
	FCL D2	3.4	7.200	25.0	7.5				
	CLA D3	3.4	7.200	25.0	7.5				
	D4								
	D5								
23	NA D1								
	FCL D2	3.3	7.000	23.0	7.4				
	CLA D3	3.4	7.000	24.0	7.5				
	D4								
	D5								
24	NA D1								
	FCL D2	3.4	7.200	24.0	7.4				
	CLA D3	3.1	7.200	24.0	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
25	NA D1								
	FCL D2	3.4	7.100	24.0	7.4				
	CLA D3	2.6	7.100	24.0	7.4				
	D4								
	D5								
26	NA D1								
	FCL D2	3.2	6.900	26.0	7.4				
	CLA D3	3.0	6.900	26.0	7.4				
	D4								
	D5								
27	NA D1								
	FCL D2	3.2	7.000	26.0	7.4				
	CLA D3	3.1	7.000	26.0	7.4				
	D4								
	D5								
28	NA D1								
	FCL D2	2.9	9.300	26.0	7.4				
	CLA D3	2.4	9.300	26.0	7.4				
	D4								
	D5								
29	NA D1								
	FCL D2	3.2	9.300	26.0	7.4				
	CLA D3	2.6	9.300	26.0	7.4				
	D4								
	D5								
30	NA D1								
	FCL D2	3.2	7.000	25.0	7.4				
	CLA D3	2.9	7.000	26.0	7.4				
	D4								
	D5								
31	NA D1								
	FCL D2	3.2	7.100	26.0	7.3				
	CLA D3	2.9	7.100	26.0	7.3				
	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: June 4, 2009