

# 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 Corsicana

PLANT NAME OR NUMBER: Navarro Mills

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.: 1750002

Operator's Signature: \_\_\_\_\_

Report for the Month of: January 2006

Certificate No. & Grade: WO0004220 A

Date: February 1, 2006

### 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>1</u>	Number of 4-hour periods when plant was on-line but turbidity data was not collected:	<u>0</u>
Number of readings above 0.3 NTU:	<u>0</u>		
Number of readings above 0.5 NTU:	<u>0</u>		
Number of readings above 1.0 NTU:	<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:
	Minimum turbidity reading:	<u>0.06</u> NTU	<u>0.08</u> NTU
		Average turbidity value:	<u>0.009</u> NTU
		Standard deviation:	
Additional report(s) for individual filter monitoring required:	<input type="radio"/> NONE	<input type="radio"/> Filter Profile	<input type="radio"/> Filter Assessment
Additional report(s) for individual filter monitoring submitted:	<input checked="" type="radio"/> NONE	<input type="radio"/> Filter Profile	<input type="radio"/> Filter Assessment
#NAME?		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:	<u>0</u>	Average log inactivation for Giardia:	<u>NA</u>
Number of days with a low CT for more than 4.0 consecutive hours:	<u>0</u> (4)	Average log inactivation for viruses:	<u>NA</u>
		Number of days when profiling data was not collected:	<u>31</u>
		Number of days when CT data was not collected:	<u>31</u>
Minimum disinfectant residual required leaving the plant:	<u>0.5</u> 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:	<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	<input type="radio"/> Free Chlorine	<input checked="" type="radio"/> Total Chlorine
Total number of readings this month:	<u>56</u>		
Average disinfectant residual value:	<u>2.64</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)

### 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: 8,734

Month: January Year: 2006

Population: 24,485

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	6.000	4.934	36	118	0.8	0.9	1.2	1.0	0.9	1.0	0.08	0.08	0.09	0.07	0.07	0.07	2.9	
2	10.000	8.229	45	118	0.8	1.0	1.1	0.9	1.0	0.9	0.08	0.07	0.07	0.07	0.08	0.07	2.9	
3	7.970	6.836	43	116	0.9	1.0	1.2	1.0	1.2	1.2	0.08	0.08	0.07	0.07	0.06	0.07	3.2	
4	8.170	5.999	41	118	0.7	0.8	1.1	0.9	1.0	0.9	0.07	0.07	0.06	0.07	0.07	0.07	3.3	
5	7.970	6.699	37	119	0.7	0.9	0.9	0.8	0.9	0.9	0.08	0.08	0.07	0.07	0.07	0.07	3.2	
6	6.220	5.341	37	119	0.7	0.7	1.0	0.8	0.9	0.8	0.07	0.07	0.09	0.08	0.07	0.09	3.3	
7	9.950	7.331	37	118	0.6	0.7	0.9	0.9	0.8	0.8	0.07	0.08	0.08	0.08	0.07	0.08	3.3	
8	7.530	6.991	38	119	0.8	0.9	1.1	0.9	0.9	0.9	0.08	0.07	0.07	0.08	0.07	0.07	3.2	
9	8.290	6.723	41	118	0.8	0.8	1.2	1.0	1.0	0.8	0.07	0.07	0.08	0.08	0.13	0.07	3.1	
10	7.800	6.367	46	120	0.8	0.9	1.1	0.8	1.0	0.9	0.07	0.07	0.07	0.08	0.07	0.08	3.1	
11	7.190	5.797	44	119	0.8	0.9	1.2	0.9	1.1	0.9	0.08	0.07	0.09	0.08	0.07	0.07	3.1	
12	7.620	6.058	43	120	0.6	1.0	1.1	1.1	1.0	1.0	0.08	0.08	0.09	0.08	0.08	0.08	2.8	
13	6.790	5.217	42	118	0.8	0.9	1.0	0.8	0.9	0.8	0.08	0.07	0.08	0.08	0.07	0.08	2.8	
14	7.780	7.073	39	118	0.8	0.9	1.0	0.9	0.8	0.8	0.08	0.09	0.07	0.07	0.08	0.08	3.1	
15	7.620	6.364	36	120	0.8	0.9	1.2	1.0	1.1	1.0	0.08	0.07	0.08	0.08	0.08	0.08	3.2	
16	9.040	6.750	35	121	0.9	0.9	1.2	1.0	1.0	0.9	0.09	0.08	0.07	0.08	0.07	0.07	3.1	
17	6.680	5.386	29	119	0.8	0.9	1.0	0.8	0.9	1.0	0.07	0.08	0.09	0.09	0.08	0.08	3.1	
18	7.240	5.629	22	119	0.8	0.9	1.2	0.9	0.9	1.0	0.08	0.08	0.09	0.09	0.08	0.08	3.0	
19	8.010	6.575	22	120	0.9	1.0	1.2	1.0	1.0	0.9	0.08	0.08	0.08	0.08	0.08	0.08	2.9	
20	7.470	5.834	23	120	0.8	1.0	1.2	1.0	1.0	0.9	0.08	0.08	0.08	0.08	0.08	0.08	3.0	
21	7.600	6.487	23	120	0.7	0.8	1.0	0.8	0.9	0.8	0.10	0.09	0.08	0.07	0.09	0.08	3.2	
22	5.810	4.842	27	119	0.8	0.9	1.2	1.1	0.9	0.9	0.09	0.09	0.08	0.10	0.10	0.09	3.3	
23	8.560	6.262	31	116	0.7	0.8	0.9	0.9	0.8	0.8	0.09	0.08	0.07	0.08	0.08	0.08	3.0	
24	5.200	4.588	36	117	0.8	0.9	0.9	0.8	0.9	0.9	0.08	0.08	0.08	0.08	0.07	0.07	3.0	
25	7.990	5.961	33	117	0.8	0.9	1.1	0.9	0.9	0.8	0.07	0.07	0.07	0.07	0.07	0.07	2.9	
26	6.950	5.651	34	117	0.8	0.9	1.1	0.8	1.0	1.0	0.07	0.07	0.08	0.07	0.07	0.08	3.1	
27	7.920	6.268	38	118	0.8	0.9	1.2	1.0	1.1	0.9	0.07	0.08	0.07	0.07	0.07	0.07	3.0	
28	7.590	5.877	35	117	0.8	0.9	1.2	1.0	1.0	0.9	0.08	0.07	0.07	0.07	0.09	0.08	2.8	
29	7.110	6.226	35	117	0.7	0.8	1.1	1.0	0.8	0.8	0.08	0.07	0.07	0.07	0.07	0.08	2.7	
30	7.350	5.588	44	120	0.7	0.9	1.0	0.8	0.8	0.8	0.07	0.09	0.06	0.07	0.07	0.06	2.8	
31	5.020	4.411	37	120	0.7	0.9	1.0	0.8	0.8	0.8	0.06	0.06	0.07	0.07	0.08	0.07	2.9	
<b>Total</b>	232.440	188.294																
<b>Avg</b>	7.498	6.074																
<b>Max</b>	10.000	8.229																
<b>Min</b>	5.020	4.411																

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: February 1, 2006

# 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: January Year: 2006

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	0.09	0.08	0.11	X	0.07	X	0.09	X	0.08	X								
2	0.13	X	0.11	X	0.10	X	0.15	0.08	0.08	X	0.08	X								
3	0.15	0.08	0.09	X	0.09	X	0.13	X	0.08	X	0.08	0.07								
4	0.12	X	0.12	X	0.14	X	0.10	X	0.10	0.07	0.13	X								
5	0.13	X	0.21	0.08	0.23	0.12	0.10	X	0.12	X	0.11	X								
6	0.14	X	0.14	X	0.10	X	0.08	0.08	0.10	X	0.10	X								
7	0.10	0.09	0.11	X	0.09	X	0.10	X	0.09	X	0.08	X								
8	0.12	X	0.09	X	0.07	X	0.09	X	0.09	X	0.10	0.08								
9	0.10	X	0.08	X	0.07	X	0.08	X	0.10	0.09	0.12	X								
10	0.13	X	0.15	0.09	0.12	0.07	0.11	X	0.15	X	0.13	X								
11	0.10	X	0.12	X	0.10	X	0.08	0.08	0.11	X	0.09	X								
12	0.10	0.10	0.10	X	0.09	X	0.13	X	0.09	X	0.16	0.09								
13	0.12	X	0.09	X	0.08	X	0.08	X	0.10	X	0.10	X								
14	0.11	X	0.08	X	0.08	X	0.08	X	0.13	0.11	0.09	X								
15	0.10	X	0.24	X	0.08	0.08	0.14	X	0.14	X	0.08	X								
16	0.09	X	0.14	0.08	0.11	X	0.07	0.07	0.11	X	0.09	X								
17	0.11	0.10	0.11	X	0.10	X	0.12	X	0.12	X	0.13	0.08								
18	0.10	X	0.10	X	0.10	X	0.10	X	0.11	X	0.12	X								
19	0.15	X	0.31	X	0.15	0.08	0.10	X	0.16	0.10	0.13	X								
20	0.11	X	0.09	0.09	0.13	X	0.08	X	0.13	X	0.08	X								
21	0.10	X	0.12	X	0.10	X	0.08	0.08	0.11	X	0.09	X								
22	0.11	X	0.10	X	0.09	X	0.11	X	0.11	X	0.11	0.09								
23	0.13	0.10	0.09	X	0.08	X	0.10	X	0.09	0.09	0.13	X								
24	0.10	X	0.09	X	0.08	0.08	0.08	X	0.15	X	0.09	X								
25	0.09	X	0.09	0.08	0.10	X	0.07	X	0.10	X	0.07	X								
26	0.10	X	0.12	X	0.09	X	0.08	0.08	0.10	X	0.09	X								
27	0.12	0.09	0.10	X	0.08	X	0.15	X	0.09	X	0.15	0.08								
28	0.27	X	0.08	X	0.06	X	0.08	X	0.11	0.09	0.09	X								
29	0.09	X	0.07	X	0.07	0.07	0.07	X	0.17	X	0.07	X								
30	0.10	X	0.08	0.08	0.10	X	0.07	X	0.08	X	0.07	X								
31	0.08	X	0.11	X	0.08	X	0.07	0.06	0.08	X	0.07	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										
	Number of days with event(s) above 1.0 NTU this month										
	Number of days with event(s) above 1.0 NTU last month										
	Number of days with event(s) above 1.0 NTU two months ago										
	Total number of days with event(s) above 1.0 NTU in three months										#####
	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?										#####	
Is the plant required to submit a Filter Assessment Report?										#####	
Is the plant required to submit a Request for Compliance CPE?										N	

SUBMITTED BY: \_\_\_\_\_ Certificate No. and Grade: WO0004220 A Date: February 1, 2006

# 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: January Year: 2006

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									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
1	NA D1								
	FCL D2	2.8	10.200	12.0	7.5				
	CLA D3	3.4	10.200	12.0	7.6				
	D4								
	D5								
2	NA D1								
	FCL D2	3.2	13.700	12.0	7.5				
	CLA D3	3.4	13.700	12.0	7.6				
	D4								
	D5								
3	NA D1								
	FCL D2	2.8	10.000	12.0	7.5				
	CLA D3	3.4	10.000	13.0	7.6				
	D4								
	D5								
4	NA D1								
	FCL D2	3.1	10.100	13.0	7.5				
	CLA D3	3.4	10.100	13.0	7.6				
	D4								
	D5								
5	NA D1								
	FCL D2	2.9	10.100	12.0	7.5				
	CLA D3	3.5	10.100	13.0	7.6				
	D4								
	D5								
6	NA D1								
	FCL D2	3.0	10.100	12.0	7.5				
	CLA D3	3.4	10.100	13.0	7.6				
	D4								
	D5								
7	NA D1								
	FCL D2	2.7	10.000	12.0	7.5				
	CLA D3	3.4	10.000	12.0	7.6				
	D4								
	D5								
8	NA D1								
	FCL D2	2.9	10.000	13.0	7.5				
	CLA D3	3.3	10.000	13.0	7.6				
	D4								
	D5								

PERFORMANCE DATA									
DISINFECTION PROCESS DATA									
Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time
9	NA D1								
	FCL D2	2.8	10.100	13.0	7.5				
	CLA D3	3.3	10.100	13.0	7.6				
	D4								
	D5								
10	NA D1								
	FCL D2	2.7	10.100	13.0	7.5				
	CLA D3	3.2	10.100	13.0	7.6				
	D4								
	D5								
11	NA D1								
	FCL D2	2.9	10.100	12.0	7.5				
	CLA D3	3.2	10.100	12.0	7.6				
	D4								
	D5								
12	NA D1								
	FCL D2	2.6	10.100	13.0	7.5				
	CLA D3	3.1	10.100	13.0	7.6				
	D4								
	D5								
13	NA D1								
	FCL D2	3.2	10.100	12.0	7.5				
	CLA D3	3.1	10.100	12.0	7.5				
	D4								
	D5								
14	NA D1								
	FCL D2	2.9	10.200	12.0	7.5				
	CLA D3	3.3	10.200	12.0	7.6				
	D4								
	D5								
15	NA D1								
	FCL D2	2.9	10.200	12.0	7.4				
	CLA D3	3.4	10.200	12.0	7.5				
	D4								
	D5								
16	NA D1								
	FCL D2	2.6	10.200	13.0	7.5				
	CLA D3	3.3	10.200	13.0	7.6				
	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: February 1, 2006

# 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: January Year: 2006

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	10.100	13.0	7.5				
	CLA D3	3.1	10.100	13.0	7.6				
	D4								
	D5								
18	NA D1								
	FCL D2	2.9	10.100	11.0	7.6				
	CLA D3	3.0	10.100	11.0	7.6				
	D4								
	D5								
19	NA D1								
	FCL D2	2.7	10.100	12.0	7.5				
	CLA D3	3.1	10.100	12.0	7.6				
	D4								
	D5								
20	NA D1								
	FCL D2	3.1	10.100	12.0	7.5				
	CLA D3	3.1	10.100	12.0	7.6				
	D4								
	D5								
21	NA D1								
	FCL D2	3.2	10.100	12.0	7.5				
	CLA D3	3.3	10.100	12.0	7.6				
	D4								
	D5								
22	NA D1								
	FCL D2	3.2	10.100	12.0	7.5				
	CLA D3	3.5	10.100	13.0	7.6				
	D4								
	D5								
23	NA D1								
	FCL D2	2.5	10.100	12.0	7.5				
	CLA D3	3.3	10.100	12.0	7.6				
	D4								
	D5								
24	NA D1								
	FCL D2	3.2	10.000	12.0	7.5				
	CLA D3	3.1	10.000	12.0	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	3.0	10.200	11.0	7.5				
	CLA D3	3.1	10.200	11.0	7.5				
	D4								
	D5								
26	NA D1								
	FCL D2	3.0	10.200	12.0	7.5				
	CLA D3	3.2	10.200	12.0	7.5				
	D4								
	D5								
27	NA D1								
	FCL D2	2.7	10.300	12.0	7.5				
	CLA D3	3.1	10.300	13.0	7.6				
	D4								
	D5								
28	NA D1								
	FCL D2	2.7	10.100	11.0	7.5				
	CLA D3	2.8	10.100	12.0	7.6				
	D4								
	D5								
29	NA D1								
	FCL D2	2.5	10.100	12.0	7.5				
	CLA D3	2.8	10.100	12.0	7.6				
	D4								
	D5								
30	NA D1								
	FCL D2	2.8	10.100	12.0	7.5				
	CLA D3	2.8	10.100	12.0	7.6				
	D4								
	D5								
31	NA D1								
	FCL D2	2.5	5.000	12.0	7.4				
	CLA D3	2.9	5.000	12.0	7.6				
	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: February 1, 2006