

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: <u>City of Corsicana</u>	PLANT NAME OR NUMBER: <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.	
PWS ID No.: <u>1750002</u> Report for the Month of: <u>March 2009</u>	Operator's Signature: _____ Certificate No. & Grade: <u>WO0004220 A</u> Date: <u>April 1, 2009</u>

TREATMENT PLANT PERFORMANCE			
Total number of turbidity readings:	145	Number of 4-hour periods when plant was off-line:	41
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:	0.14 NTU	Average turbidity value:
	Minimum turbidity reading:	0.06 NTU	0.10 NTU
			Standard deviation:
			0.014 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:	2.50		
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: March 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	4.680	4.554	39	126	0.7	0.9	1.0	0.8	0.9	0.8	X	X	0.08	0.09	0.10	0.10	2.9		
2	4.560	3.416	45	128	0.6	0.6	0.6	0.5	0.7	0.7	0.11	0.08	X	0.09	0.10	0.12	2.9		
3	4.620	3.922	46	127	0.5	0.5	0.6	0.6	0.5	0.6	X	X	0.09	0.10	0.09	0.09	2.7		
4	6.520	5.705	45	127	0.5	0.5	0.6	0.4	0.5	0.5	0.10	0.10	0.08	0.08	0.11	0.11	2.4		
5	6.470	5.489	43	128	0.4	0.5	0.6	0.6	0.4	0.6	0.11	0.11	0.09	0.08	0.08	0.08	2.7		
6	6.420	5.460	45	128	0.5	0.4	0.5	0.5	0.5	0.5	0.07	0.07	0.06	0.10	0.07	0.07	3.0		
7	4.320	3.794	42	129	0.4	0.6	0.4	0.5	0.5	0.6	0.10	X	X	0.08	0.08	0.08	2.9		
8	5.080	3.790	41	130	0.5	0.7	0.9	0.6	0.8	0.6	X	X	0.07	0.08	0.09	0.09	2.8		
9	6.070	5.533	49	131	0.5	0.4	0.6	0.4	0.5	0.4	0.10	0.10	0.09	0.11	0.10	0.10	2.5		
10	6.530	5.487	48	128	0.4	0.5	0.5	0.5	0.5	0.4	0.10	0.11	0.11	0.11	0.09	0.09	2.6		
11	4.280	3.819	44	128	0.5	0.6	0.7	0.6	0.5	0.4	0.10	X	0.08	0.10	0.11	0.12	2.8		
12	4.600	3.956	39	126	0.4	0.6	0.8	0.5	0.6	0.5	X	X	0.11	0.10	0.09	0.10	2.9		
13	6.850	5.178	43	126	0.4	0.4	0.6	0.4	0.6	0.4	0.11	0.12	0.11	0.12	0.11	0.11	3.0		
14	6.440	4.906	34	124	0.3	0.5	0.5	0.4	0.3	0.4	0.10	0.11	0.09	0.09	0.11	0.10	2.5		
15	5.340	4.693	43	126	0.4	0.7	0.6	0.5	0.6	0.5	X	X	0.08	0.09	0.09	0.09	2.5		
16	4.080	3.801	51	127	0.6	0.5	1.0	0.7	0.7	0.6	X	X	X	0.10	0.11	0.10	2.2		
17	4.640	3.999	53	114	0.5	0.7	0.8	0.9	0.9	0.8	X	X	0.08	0.10	0.12	0.10	2.5		
18	4.670	4.404	38	113	1.0	1.2	1.1	1.0	1.0	1.2	X	X	0.09	0.10	0.10	0.11	2.4		
19	4.300	4.152	42	109	0.7	0.8	1.0	0.9	1.1	0.8	X	X	X	0.11	0.11	0.11	2.9		
20	5.280	4.621	47	104	2.5	1.2	1.4	1.2	2.4	1.4	X	X	0.11	0.11	0.10	0.14	2.7		
21	6.990	5.778	35	111	0.8	0.8	0.7	0.8	0.8	0.9	0.12	0.12	0.11	0.10	0.10	0.09	2.6		
22	5.220	4.599	30	110	1.0	0.7	0.8	0.9	1.0	0.7	X	X	0.07	0.08	0.09	0.08	2.4		
23	4.600	4.259	36	109	0.5	0.6	1.0	0.6	0.7	0.7	X	X	0.09	0.09	0.10	0.09	2.4		
24	6.960	5.731	34	108	0.5	0.6	0.7	0.6	0.6	0.5	0.09	0.09	0.09	0.10	0.09	0.09	2.6		
25	4.490	4.114	38	109	0.6	0.7	0.8	0.7	0.7	0.7	X	X	0.09	0.09	0.09	0.11	3.2		
26	4.320	4.075	34	109	0.6	0.6	0.8	0.7	0.6	0.7	X	X	X	0.12	0.12	0.12	3.1		
27	5.170	5.000	39	112	0.6	0.5	0.7	0.6	0.7	0.7	X	X	0.12	0.11	0.10	0.10	3.1		
28	6.680	5.242	34	109	0.5	0.6	0.5	0.5	0.5	0.8	0.11	0.11	0.09	0.09	0.09	0.11	3.0		
29	5.130	4.578	27	109	0.4	0.4	0.4	0.5	0.4	0.8	X	X	0.08	0.09	0.09	0.10	2.9		
30	4.270	3.916	30	111	0.7	0.4	0.5	0.4	0.4	0.4	X	X	0.11	0.08	0.08	0.08	3.0		
31	6.030	5.110	23	107	0.4	0.4	0.5	0.5	0.4	0.6	0.10	0.09	0.09	0.10	0.10	0.09	3.2		
Total	165.610	143.081																	
Avg	5.342	4.616																	
Max	6.990	5.778																	
Min	4.080	3.416																	

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: April 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: Navarro Mills
Month: March 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	0.16	X	0.17	X	X	X	0.12	X	0.12	X	0.13	X								
2	0.14	X	0.13	X	0.17	0.14	0.11	X	0.11	X	0.12	X								
3	0.25	0.18	0.11	X	0.12	X	0.10	X	0.11	X	0.13	X								
4	0.16	X	0.10	X	0.10	X	0.09	X	0.35	0.12	0.33	0.13								
5	0.13	X	0.08	X	0.09	X	0.19	0.11	0.10	X	0.11	X								
6	0.13	X	0.17	0.11	0.08	X	0.10	X	0.09	X	0.10	X								
7	0.13	X	0.14	X	X	X	0.11	X	0.10	X	0.11	X								
8	0.14	X	0.13	X	0.20	0.14	0.11	X	0.10	X	0.11	X								
9	0.27	0.17	0.10	X	0.11	X	0.09	X	0.09	X	0.23	0.14								
10	0.16	X	0.10	X	0.10	X	0.09	X	0.26	0.12	0.13	X								
11	0.17	X	0.11	X	0.11	X	X	X	0.14	X	0.13	X								
12	0.16	X	X	X	0.10	X	0.15	0.15	0.12	X	0.14	X								
13	0.15	X	0.22	0.13	0.23	0.12	0.13	X	0.11	X	0.12	X								
14	0.75	0.18	0.11	X	0.15	X	0.10	X	0.15	X	0.10	X								
15	0.16	X	0.10	X	0.11	X	0.09	X	0.09	X	0.23	0.12								
16	0.15	X	0.10	X	0.10	X	0.09	X	X	X	0.13	X								
17	0.17	X	0.11	X	0.11	X	0.10	X	0.30	0.15	0.14	X								
18	0.18	X	0.12	X	0.12	X	X	X	0.17	X	0.15	X								
19	0.17	X	0.24	0.16	0.11	X	0.19	X	0.14	X	0.14	X								
20	0.16	X	0.18	X	0.26	0.17	0.15	X	0.12	X	0.13	X								
21	0.28	0.17	0.12	X	0.12	X	0.11	X	0.10	X	0.11	X								
22	0.19	X	0.10	X	0.10	X	0.09	X	0.09	X	X	X								
23	0.17	X	0.10	X	0.10	X	0.09	X	0.10	X	0.29	0.16								
24	0.17	X	0.11	X	0.11	X	0.22	0.14	0.27	0.14	0.14	X								
25	0.18	X	0.24	0.19	0.12	X	0.17	X	0.16	X	0.15	X								
26	0.15	X	0.15	X	X	X	0.14	X	0.13	X	0.14	X								
27	0.17	X	0.14	X	0.25	0.14	0.12	X	0.12	X	0.14	X								
28	0.22	0.19	0.11	X	0.12	X	0.10	X	0.11	X	0.11	X								
29	0.17	X	0.11	X	0.11	X	0.11	X	0.12	X	X	X								
30	0.15	X	0.10	X	0.10	X	0.08	X	0.29	0.12	0.29	0.15								
31	0.14	X	0.09	X	0.09	X	0.17	0.12	0.11	X	0.12	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?											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: April 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: Navarro Mills
 Month: March 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 ₁₀ (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
1	NA D1								
	FCL D2	3.1	6.800	14.0	7.6				
	CLA D3	2.9	6.800	15.0	7.6				
	D4								
	D5								
2	NA D1								
	FCL D2	2.7	6.700	14.0	7.6				
	CLA D3	3.1	6.700	15.0	7.7				
	D4								
	D5								
3	NA D1								
	FCL D2	2.8	6.700	14.0	7.6				
	CLA D3	3.2	6.700	15.0	7.7				
	D4								
	D5								
4	NA D1								
	FCL D2	2.9	6.600	14.0	7.5				
	CLA D3	2.4	6.600	14.0	7.6				
	D4								
	D5								
5	NA D1								
	FCL D2	2.9	6.500	14.0	7.6				
	CLA D3	2.9	6.500	14.0	7.7				
	D4								
	D5								
6	NA D1								
	FCL D2	3.2	6.600	15.0	7.6				
	CLA D3	3.1	6.600	15.0	7.7				
	D4								
	D5								
7	NA D1								
	FCL D2	2.7	6.500	16.0	7.5				
	CLA D3	3.0	6.500	17.0	7.5				
	D4								
	D5								
8	NA D1								
	FCL D2	2.9	6.600	17.0	7.5				
	CLA D3	2.8	6.600	17.0	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
9	NA D1								
	FCL D2	2.4	6.300	18.0	7.5				
	CLA D3	2.6	6.300	18.0	7.5				
	D4								
	D5								
10	NA D1								
	FCL D2	2.8	6.600	18.0	7.5				
	CLA D3	3.0	6.600	18.0	7.5				
	D4								
	D5								
11	NA D1								
	FCL D2	3.0	6.500	17.0	7.5				
	CLA D3	3.0	6.500	18.0	7.6				
	D4								
	D5								
12	NA D1								
	FCL D2	3.9	7.100	17.0	7.5				
	CLA D3	3.6	7.100	17.0	7.6				
	D4								
	D5								
13	NA D1								
	FCL D2	2.7	7.000	16.0	7.5				
	CLA D3	3.6	7.000	17.0	7.6				
	D4								
	D5								
14	NA D1								
	FCL D2	2.7	7.200	15.0	7.4				
	CLA D3	3.0	7.200	16.0	7.5				
	D4								
	D5								
15	NA D1								
	FCL D2	2.1	7.100	15.0	7.6				
	CLA D3	2.5	7.100	15.0	7.6				
	D4								
	D5								
16	NA D1								
	FCL D2	3.1	7.200	13.0	7.5				
	CLA D3	2.2	7.200	15.0	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: April 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: Navarro Mills
Month: March 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 ₁₀ (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	7.400	14.0	7.4				
	CLA D3	2.6	7.400	15.0	7.4				
	D4								
	D5								
18	NA D1								
	FCL D2	2.7	7.200	15.0	7.4				
	CLA D3	2.4	7.200	15.0	7.4				
	D4								
	D5								
19	NA D1								
	FCL D2	2.9	7.200	15.0	7.4				
	CLA D3	3.0	7.200	15.0	7.5				
	D4								
	D5								
20	NA D1								
	FCL D2	2.7	7.300	15.0	7.5				
	CLA D3	2.7	7.300	15.0	7.5				
	D4								
	D5								
21	NA D1								
	FCL D2	2.6	7.000	15.0	7.5				
	CLA D3	2.6	7.000	15.0	7.3				
	D4								
	D5								
22	NA D1								
	FCL D2	3.1	7.100	14.0	7.4				
	CLA D3	2.5	7.100	15.0	7.4				
	D4								
	D5								
23	NA D1								
	FCL D2	2.6	7.100	15.0	7.4				
	CLA D3	2.8	7.100	15.0	7.4				
	D4								
	D5								
24	NA D1								
	FCL D2	3.5	7.200	16.0	7.5				
	CLA D3	3.2	7.200	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
25	NA D1								
	FCL D2	2.9	7.000	16.0	7.5				
	CLA D3	3.2	7.000	16.0	7.5				
	D4								
	D5								
26	NA D1								
	FCL D2	3.1	7.200	16.0	7.4				
	CLA D3	3.1	7.200	17.0	7.5				
	D4								
	D5								
27	NA D1								
	FCL D2	2.9	7.000	17.0	7.4				
	CLA D3	3.5	7.000	17.0	7.4				
	D4								
	D5								
28	NA D1								
	FCL D2	3.2	7.100	15.0	7.5				
	CLA D3	3.4	7.100	16.0	7.5				
	D4								
	D5								
29	NA D1								
	FCL D2	3.5	7.000	15.0	7.5				
	CLA D3	2.9	7.000	16.0	7.5				
	D4								
	D5								
30	NA D1								
	FCL D2	2.5	7.000	15.0	7.4				
	CLA D3	3.1	7.000	16.0	7.5				
	D4								
	D5								
31	NA D1								
	FCL D2	3.6	6.900	15.0	7.4				
	CLA D3	3.4	6.900	16.0	7.5				
	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: April 1, 2009