

# 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: May 2010

Certificate No. & Grade: WO0004220, A

Date: June 1, 2010

### TREATMENT PLANT PERFORMANCE

Total number of turbidity readings: <u>164</u>	Number of 4-hour periods when plant was off-line: <u>22</u>
Number of readings above 0.10 NTU: <u>4</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 days when plant was on-line but individual filter turbidity data was not collected: <u>0</u>
Number of readings above 0.5 NTU: <u>0</u>	Number of days with readings above 1.0 NTU: <u>0</u> (2)
Number of readings above 1.0 NTU: <u>0</u>	Number of days with readings above 5.0 NTU: <u>0</u> (3)
Maximum allowable turbidity level: <u>0.3</u>	
Percentage of readings above this limit: <u>0.0</u> % (1)	

**Statistical Summary**

Maximum turbidity reading: <u>0.12</u> NTU	Average turbidity value: <u>0.07</u> NTU
Minimum turbidity reading: <u>0.03</u> NTU	Standard deviation: <u>0.020</u> NTU
CFE 95 <sup>th</sup> percentile value: <u>0.10</u> NTU	IFE 95 <sup>th</sup> percentile: <u>0.130</u> NTU

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: 0.5 mg/L, measured as Total Chlorine

Number of days with a low residual for no more than 4.0 consecutive hours: <u>0</u>	Number of days when disinfectant residual leaving the plant was not properly monitored: <u>0</u>
Number of days with a low residual for more than 4.0 consecutive hours: <u>0</u> (5)	

### DISTRIBUTION SYSTEM

Minimum disinfectant residual required in distribution system: <u>0.5</u> mg/L, measured as Total Chlorine	
Total number of readings this month: <u>61</u> (at least 31 required) (8)	Percentage of readings with a low residual this month: <u>0.0</u> % (6A)
Average disinfectant residual value: <u>2.39</u>	Percentage of readings with a low residual last month: <u>0.0</u> % (6B)
Number of readings with a low residual: <u>0</u>	
Number of readings with no detectable residual: <u>0</u>	

### ADDITIONAL REPORTS & WORKSHEETS

The Page 1 Addendum (Public Notices) is required because there was at least one treatment technique or monitoring/reporting violation reported.

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 (9)	<input type="radio"/> Filter Assessment (10)	<input type="radio"/> CPE (11)
No additional IFE Reports are required this month.				

**SURFACE WATER MONTHLY OPERATING REPORT**  
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.)  
*Summary Page Addendum (Violations and Public Notices)*

PUBLIC WATER SYSTEM NAME: City of Corsicana

PLANT NAME OR NUMBER: Navarro Mills

PWS ID No.: 1750002

Month: May

Year: 2010

PUBLIC NOTICES						
VIOLATION TYPE	DESCRIPTION OF VIOLATION	VIOLATION OCCURRED?	NOTICE TO TCEQ <input checked="" type="checkbox"/>	NOTICE TO CUSTOMER *		VIOLATION DATES
			DATE OF NOTICE	DATE OF NOTICE	PENDING	
TREATMENT TECHNIQUE	Were more than 5.0% of the turbidity readings above the acceptable level? - see (1) on the <i>Summary Page</i>	No				
	Were there any days with turbidity readings above 1.0 NTU? - see (2) on the <i>Summary Page</i>	No				
	Were there any days with turbidity readings above 5.0 NTU? - see (3) on the <i>Summary Page</i>	No				
	Were there any periods when the plant failed to meet the CT requirements for more than 4.0 consecutive hours? - see (4) on the <i>Summary Page</i>	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) on the <i>Summary Page</i>	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) on the <i>Summary Page</i>	No				
MONITORING & REPORTING	Were there any days when the plant failed to report all of the required Combined Filter Effluent (CFE) turbidity readings? - see the <i>Turbidity Data Page</i>	No				
	Were there any days when the plant failed to report all the CT data needed to evaluate the level of microbial inactivation achieved? - see the <i>Disinfection Data Page</i>	Yes				1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31,
	Were there any days when the plant failed to report the minimum disinfectant residual entering the distribution system? - see the <i>Turbidity Data Page</i>	No				
	Did the system fail to collect enough samples in the distribution system to meet the minimum disinfectant monitoring requirements? - see (8) on the <i>Summary Page</i>	No				
	Were there any days when the plant failed to report the maximum individual filter effluent (IFE) turbidity level produced by each filter? - see the <i>Filter Data Page</i>	No				
	Were there any days when the plant failed to report the IFE turbidity level 4-hours after beginning a filter run? - see the <i>Filter Data Page</i>	No				
	Did the plant fail to submit a Filter Profile Report if one was required? - see (9) on the <i>Summary page</i>	No				
	Did the plant fail to submit a Filter Assessment Report if one was required? - see (10) on the <i>Summary Page</i>	No				
	Did the plant fail to submit a Comprehensive Performance Evaluation Request if one was required? - see (11) on the <i>Summary Page</i>	No				
Did the plant fail to collect at least one Total Organic Carbon sample set? - see <i>TOCMOR Page</i>	No					

Treatment technique violation notices are due no later than the end of the next business day. Please include a copy if possible.  
\* Copies of each Public Notice must accompany this report if they have already been issued.

SUBMITTED BY: \_\_\_\_\_

Certificate No. and Grade: WO0004220, A

Date: June 1, 2010

**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  
 PWS ID No.: 1750002  
 Month: May Year: 2010

PLANT NAME OR NUMBER: Navarro Mills  
 Connections: 10,759  
 Population: 28,500

PERFORMANCE DATA																		
Date	Raw Water Pumpage (MGD)	Treated Water Pumpage (MGD)	RAW WATER ANALYSES		SETTLED WATER TURBIDITY (Mandatory 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	4.830	4.695	24	141	0.5	0.4	0.6	0.4	0.4	0.5	x	x	0.07	0.08	0.09	0.08	3.3	
2	6.000	6.412	22	142	0.6	0.7	0.7	0.7	0.6	0.6	0.08	0.08	0.07	0.07	0.07	0.06	3.3	
3	5.900	5.158	19	141	0.5	0.5	0.7	0.6	0.6	0.4	0.07	0.07	0.06	0.06	0.06	0.07	3.1	
4	5.800	5.069	23	138	0.4	0.5	0.5	0.6	0.5	0.6	0.07	0.07	0.07	0.08	0.08	0.08	3.1	
5	3.850	4.418	26	141	0.4	0.8	0.5	0.6	0.4	0.6	x	x	0.07	0.08	0.07	0.08	2.4	
6	5.740	5.827	24	141	0.5	0.6	0.6	0.6	0.6	0.6	0.10	0.09	0.09	0.10	0.10	0.09	3.0	
7	5.760	5.776	21	138	0.5	0.6	0.6	0.6	0.6	0.5	0.09	0.09	0.09	0.09	0.09	0.10	3.3	
8	6.050	5.891	21	142	0.4	0.5	0.5	0.5	0.4	0.5	0.09	0.10	0.10	0.10	0.12	0.10	3.3	
9	6.090	5.639	22	141	0.5	0.6	0.6	0.6	0.5	0.6	0.10	0.11	0.09	0.09	0.10	0.09	3.1	
10	5.950	5.638	27	141	0.5	0.4	0.7	0.5	0.6	0.4	0.09	0.09	0.08	0.08	0.09	0.08	2.9	
11	5.660	5.627	29	142	0.5	0.7	0.5	0.7	0.5	0.6	0.08	0.08	0.07	0.07	0.08	0.08	2.9	
12	4.220	4.897	31	140	0.5	0.5	0.6	0.5	0.5	0.5	x	x	0.06	0.07	0.06	0.06	2.7	
13	6.040	5.477	33	142	0.5	0.5	0.5	0.4	0.5	0.4	0.09	0.08	0.08	0.09	0.07	0.09	2.7	
14	6.130	5.780	34	143	0.6	0.6	0.7	0.6	0.5	0.5	0.09	0.08	0.09	0.07	0.08	0.08	3.1	
15	6.100	5.066	34	143	0.6	0.6	0.6	0.6	0.5	0.5	x	0.08	0.08	0.08	0.06	0.07	3.2	
16	4.050	5.030	31	142	0.3	0.4	0.4	0.4	0.4	0.4	x	x	0.06	0.05	0.07	0.07	3.2	
17	6.020	5.432	35	143	0.3	0.4	0.5	0.4	0.4	0.3	0.08	0.07	0.05	0.05	0.05	0.05	2.9	
18	5.600	5.119	36	141	0.4	0.4	0.5	0.4	0.4	0.4	0.07	0.06	0.06	0.08	0.07	0.06	3.1	
19	5.590	5.801	33	132	0.6	0.7	0.9	0.6	0.9	0.6	x	0.07	0.06	0.06	0.09	0.07	3.3	
20	5.970	5.332	27	140	0.5	0.6	0.6	0.6	0.5	0.5	0.07	0.06	0.07	0.07	0.07	0.07	3.1	
21	3.910	4.475	28	143	0.4	0.4	0.6	0.4	0.5	0.4	x	x	0.06	0.07	0.07	0.07	2.6	
22	4.710	4.236	26	139	0.5	0.5	0.7	0.5	0.6	0.4	0.08	0.08	x	0.07	0.08	0.08	3.0	
23	4.030	5.427	24	136	0.4	0.6	0.7	0.5	0.5	0.4	x	x	0.07	0.07	0.10	0.09	2.8	
24	5.610	5.836	27	140	0.5	0.5	0.7	0.5	0.6	0.4	0.10	0.11	0.09	0.10	0.09	0.09	1.8	
25	7.460	6.464	28	138	0.5	0.6	0.7	0.6	0.5	0.5	0.10	0.10	0.11	0.09	0.08	0.07	1.6	
26	6.580	6.533	18	129	0.4	0.4	0.4	0.4	0.4	0.4	x	x	0.05	0.05	0.05	0.05	2.6	
27	6.600	6.646	25	130	0.3	0.3	0.3	0.3	0.3	0.3	0.04	x	0.05	0.06	0.04	0.03	2.4	
28	5.410	6.028	24	133	0.3	0.4	0.4	0.4	0.3	0.3	x	x	0.03	0.03	0.04	0.04	2.7	
29	4.900	4.934	30	135	0.4	0.4	0.4	0.4	0.3	0.3	0.04	x	x	0.04	0.04	0.04	2.6	
30	7.170	7.008	27	134	0.4	0.5	0.5	0.5	0.5	0.5	0.04	0.04	0.03	0.03	0.04	0.04	2.9	
31	7.020	7.499	17	127	0.3	0.3	0.3	0.3	0.3	0.3	0.04	0.04	0.04	0.04	0.04	0.04	2.4	
<b>Total</b>	174.750	173.170																
<b>Avg</b>	5.637	5.586																
<b>Max</b>	7.460	7.499																
<b>Min</b>	3.850	4.236																

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 1, 2010

# 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: 2010

PERFORMANCE DATA																				
Date	INDIVIDUAL FILTER TURBIDITY																			
	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	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs	Max	4 Hrs
1	0.08	x	x	x	0.11	x	0.08	x	0.08	x	x	x								
2	0.07	x	x	x	0.09	x	0.07	x	0.07	x	x	x								
3	0.08	x	0.10	0.09	0.08	x	0.08	x	0.06	x	0.11	0.10								
4	0.13	0.12	0.11	x	0.09	x	0.07	x	x	x	0.11	x								
5	0.11	x	0.11	x	0.12	x	x	x	0.12	0.11	0.11	x								
6	0.12	x	0.11	x	x	x	x	x	0.12	x	0.11	x								
7	0.11	x	0.10	x	x	x	0.13	0.13	0.11	x	0.11	x								
8	0.11	x	0.10	x	0.14	0.14	0.13	x	0.11	x	0.18	0.16								
9	x	x	0.11	0.10	0.10	x	0.09	x	0.08	x	0.12	x								
10	x	x	0.10	x	0.09	x	0.08	x	x	x	0.12	x								
11	0.12	0.09	0.09	x	0.08	x	0.07	x	x	x	0.08	x								
12	0.08	x	0.07	x	0.08	x	x	x	0.10	0.09	0.07	x								
13	0.08	x	0.08	x	0.09	0.09	0.09	0.09	0.09	x	x	x								
14	0.07	x	x	x	0.09	x	0.08	x	0.08	x	x	x								
15	0.06	x	x	x	0.08	x	0.07	x	0.07	x	x	x								
16	0.05	x	x	x	0.06	x	0.05	x	0.06	x	0.09	0.07								
17	0.07	0.07	0.09	0.07	0.06	x	0.05	x	0.05	x	0.07	x								
18	0.07	x	0.08	x	0.06	x	x	x	0.08	0.08	0.07	x								
19	0.07	x	0.07	x	x	x	x	x	0.08	x	0.07	x								
20	0.07	x	0.08	x	x	x	0.09	0.09	0.07	x	0.06	x								
21	0.07	x	0.07	x	x	x	0.09	x	0.07	x	x	x								
22	0.09	x	0.09	x	0.14	0.10	0.10	x	0.08	x	x	x								
23	0.10	x	0.15	0.15	0.12	x	0.10	x	0.10	x	0.13	0.12								
24	x	x	0.16	x	0.13	x	0.11	x	x	x	0.14	x								
25	0.08	0.05	0.11	x	0.10	x	0.08	x	x	x	0.10	x								
26	0.05	x	0.05	x	0.06	x	x	x	0.09	0.04	0.05	x								
27	0.03	x	0.04	x	x	x	x	x	0.04	x	0.04	x								
28	0.04	x	0.04	x	x	x	0.04	0.04	0.04	x	x	x								
29	0.04	x	x	x	x	x	0.04	x	0.04	x	x	x								
30	0.03	x	x	x	0.08	0.05	0.03	x	0.03	x	x	x								
31	x	x	0.09	0.05	0.06	x	0.04	x	0.04	x	0.10	0.06								

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

SUBMITTED BY: \_\_\_\_\_ Certificate No. \_\_\_\_\_ and Grade: WO0004220, A Date: June 1, 2010

# 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: 2010

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	1.3	6.300	21.0	7.9				
	CLA D3	3.5	6.300	22.0	7.9				
	D4								
	D5								
2	NA D1								
	FCL D2	1.2	6.000	22.0	7.5				
	CLA D3	3.4	6.000	21.0	7.5				
	D4								
	D5								
3	NA D1								
	FCL D2	2.3	6.300	22.0	7.6				
	CLA D3	3.1	6.300	21.0	7.4				
	D4								
	D5								
4	NA D1								
	FCL D2	1.0	6.000	22.0	7.5				
	CLA D3	3.3	6.000	22.0	7.5				
	D4								
	D5								
5	NA D1								
	FCL D2	1.3	6.000	22.0	7.5				
	CLA D3	2.7	6.000	22.0	7.5				
	D4								
	D5								
6	NA D1								
	FCL D2	1.8	5.800	23.0	7.6				
	CLA D3	3.5	5.800	23.0	7.5				
	D4								
	D5								
7	NA D1								
	FCL D2	1.6	6.200	23.0	7.5				
	CLA D3	3.6	6.200	23.0	7.4				
	D4								
	D5								
8	NA D1								
	FCL D2	1.5	6.100	23.0	7.5				
	CLA D3	3.6	6.100	23.0	7.4				
	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	1.7	6.100	22.0	7.5				
	CLA D3	3.3	6.100	23.0	7.5				
	D4								
	D5								
10	NA D1								
	FCL D2	1.7	6.100	22.0	7.5				
	CLA D3	3.2	6.100	22.0	7.5				
	D4								
	D5								
11	NA D1								
	FCL D2	1.4	5.700	23.0	7.4				
	CLA D3	3.0	5.700	22.0	7.4				
	D4								
	D5								
12	NA D1								
	FCL D2	1.4	6.100	23.0	7.5				
	CLA D3	2.8	6.100	23.0	7.5				
	D4								
	D5								
13	NA D1								
	FCL D2	1.8	6.100	23.0	7.6				
	CLA D3	2.9	6.100	23.0	7.6				
	D4								
	D5								
14	NA D1								
	FCL D2	1.1	6.100	24.0	7.4				
	CLA D3	3.5	6.100	24.0	7.4				
	D4								
	D5								
15	NA D1								
	FCL D2	1.6	6.200	23.0	7.6				
	CLA D3	3.3	6.200	23.0	7.4				
	D4								
	D5								
16	NA D1								
	FCL D2	1.5	6.100	23.0	7.5				
	CLA D3	3.2	6.100	23.0	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. and Grade: WO0004220, A Date: June 1, 2010



# MONTHLY TOTAL ORGANIC CARBON REMOVAL REPORT (TOCMOR)

## FOR SURFACE WATER OR GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER SYSTEMS

PUBLIC WATER SYSTEM NAME: City of Corsicana  
 PWS ID No.: 1750002  
 Type of treatment:  Conventional  Unconventional explain: \_\_\_\_\_

PLANT NAME OR NUMBER: Navarro Mills  
 Month: May Year: 2010

Note: Systems are required to run one TOC Sample Set every month. Additional space is provided for those systems that do additional sampling

Test No.	Test Date	Monthly TOC Sample Set			Actual % TOC Removed	Step 1 Required Removal %	Step 1 Removal Ratio	Optional data		COMPLIANCE REMOVAL RATIO
		Raw Alkalinity	Raw TOC	Treated TOC				Step 2 Required % Removal	Step 2 Removal Ratio	
		Enter the Sample Set results						calculated	calculated from matrix	
1	5/4	143	4.00	2.77	30.8	15	2.05			2.05
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
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26										
27										
28										
29										
30										
31										
<b>Avg</b>		143.00	4.00	2.77	30.75		2.05			2.05
<b>Max</b>		143.00	4.00	2.77	30.75		2.05			2.05
<b>Min</b>		143.00	4.00	2.77	30.75		2.05			2.05

### TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

TOC Summary					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	
143	4.00	2.77	30.8	NA	2.05

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.

Operator's Signature: \_\_\_\_\_ Certificate No. and Grade: WO0004220, A

Date: June 1, 2010

**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

**TOC ALTERNATIVE COMPLIANCE CRITERIA REPORT**  
FOR SURFACE WATER OR GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER SYSTEMS

PUBLIC WATER SYSTEM NAME: City of Corsicana  
PWS ID No.: 1750002

PLANT NAME OR NUMBER: Navarro Mills  
Month: May Year: 2010

This Alternative Compliance Criteria (ACC) Report is being submitted to request the following ACC: (check one)  
(Before you can begin entering data, you must put an "X" in the box that shows the number of the Alternative Compliance Criteria you are applying for.)

#1  #2  #3  #4  #5  #6  #7  #8

ACC #1	Source Water TOC less than 2.0? (either based on most recent month's data OR calculated quarterly as a running annual average)												
	Current Month TOC	Q1			Q2			Q3			Q4		
	4.00	04/2009	05/2009	06/2009	07/2009	08/2009	09/2009	10/2009	11/2009	12/2009	01/2010	02/2010	03/2010
	Average Raw Water TOC Quarterly Average RAA												

ACC #2	Treated Water TOC less than 2.0? (either based on most recent month's data OR calculated quarterly as a running annual average)												
	Current Month TOC	Q1			Q2			Q3			Q4		
	2.77	04/2009	05/2009	06/2009	07/2009	08/2009	09/2009	10/2009	11/2009	12/2009	01/2010	02/2010	03/2010
	Average Treated Water TOC Quarterly Average RAA												

ACC #3	Source Water TOC less than 4.0? (calculated quarterly as a running annual average) AND Source water alkalinity over 60 mg/L (as CaCO3)? (calculated quarterly as a running annual average)												
	Average Raw Water TOC Quarterly Average RAA	Q1			Q2			Q3			Q4		
		04/2009	05/2009	06/2009	07/2009	08/2009	09/2009	10/2009	11/2009	12/2009	01/2010	02/2010	03/2010
	Average Raw Water Alkalinity Quarterly Average RAA												

AND TTHM and HAA5 no greater than 0.040 mg/L and 0.030 mg/L, respectively? (calculated as a running annual average of quarterly averages)  
TTHM RAA for the 4 quarters that end March 2010:  mg/L      HAA5 RAA for the 4 quarter that end March 2010:  mg/L

ACC #4	TTHM and HAA5 no greater than 0.040 mg/L and 0.030 mg/L, respectively? (calculated as a running annual average of quarterly averages)												
	TTHM RAA for the 4 quarters that end March 2010: <input type="text"/> mg/L						HAA5 RAA for the 4 quarters that end March 2010: <input type="text"/> mg/L						
	AND only chlorine is used in the whole plant and distribution system. Chlorine only?: <input type="text"/>												

I certify that for the last 12 months, only free chlorine was used as a disinfectant for primary disinfection and for maintenance of a residual in the distribution system.

\_\_\_\_\_  
Certified Operators Signature/ Certificate Number / Date

ACC #5	Source water SUVA less than or equal to 2.0 L/mg-m? (either based on most recent month's data OR calculated quarterly as a running annual average) <small>(Source water SUVA is the dissolved organic carbon concentration divided by the ultraviolet light absorption at 254 nanometers in the source water before any treatment of any kind. Measure monthly.)</small>												
	Current Month SUVA	Q1			Q2			Q3			Q4		
		04/2009	05/2009	06/2009	07/2009	08/2009	09/2009	10/2009	11/2009	12/2009	01/2010	02/2010	03/2010
	Monthly Raw Water SUVA Quarterly Average RAA												

ACC #6	Treated water SUVA less than or equal to 2.0 L/mg-m? (either based on most recent month's data OR calculated quarterly as a running annual average) <small>(Treated water SUVA is the dissolved organic carbon concentration divided by the ultraviolet light absorption at 254 nanometers in the finished water before any disinfection of any kind, or measured using a finished water SUVA jar test. (See the Instructions worksheet for more info.) Measure monthly.</small>												
	Treated water SUVA measured:	I certify that an oxidant was used upstream of the Treated Water TOC monitoring point during the period for which treated water SUVA data is reported.											
		_____ Certified Operators Signature / Certificate Number / Date											
	Current Month SUVA	Q1			Q2			Q3			Q4		

ACC #7	Treated water alkalinity less than 60 mg/L (as CaCO3)? (softening practiced) (either based on most recent month's data OR calculated quarterly as a running annual average)												
	Current Month ALK	Q1			Q2			Q3			Q4		
		04/2009	05/2009	06/2009	07/2009	08/2009	09/2009	10/2009	11/2009	12/2009	01/2010	02/2010	03/2010
	Monthly Treated Alkalinity Quarterly Average RAA												

ACC #8	Magnesium hardness removal greater than or equal to 10 mg/L (as CaCO3)? (softening practiced) (either based on most recent month's data OR calculated quarterly as a running annual average)												
	Current Month Mg Hardness	Q1			Q2			Q3			Q4		
	Raw	04/2009	05/2009	06/2009	07/2009	08/2009	09/2009	10/2009	11/2009	12/2009	01/2010	02/2010	03/2010
	Treated												

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.

Operator's Signature: \_\_\_\_\_ Certificate No. and Grade: WO0004220, A Date: June 1, 2010

# STEP 2 JAR TEST REPORT

FOR SURFACE WATER OR GROUND WATER UNDER THE INFLUENCE OF SURFACE WATER SYSTEMS

PUBLIC WATER  
 SYSTEM NAME: City of Corsicana  
 PWS ID No.: 1750002

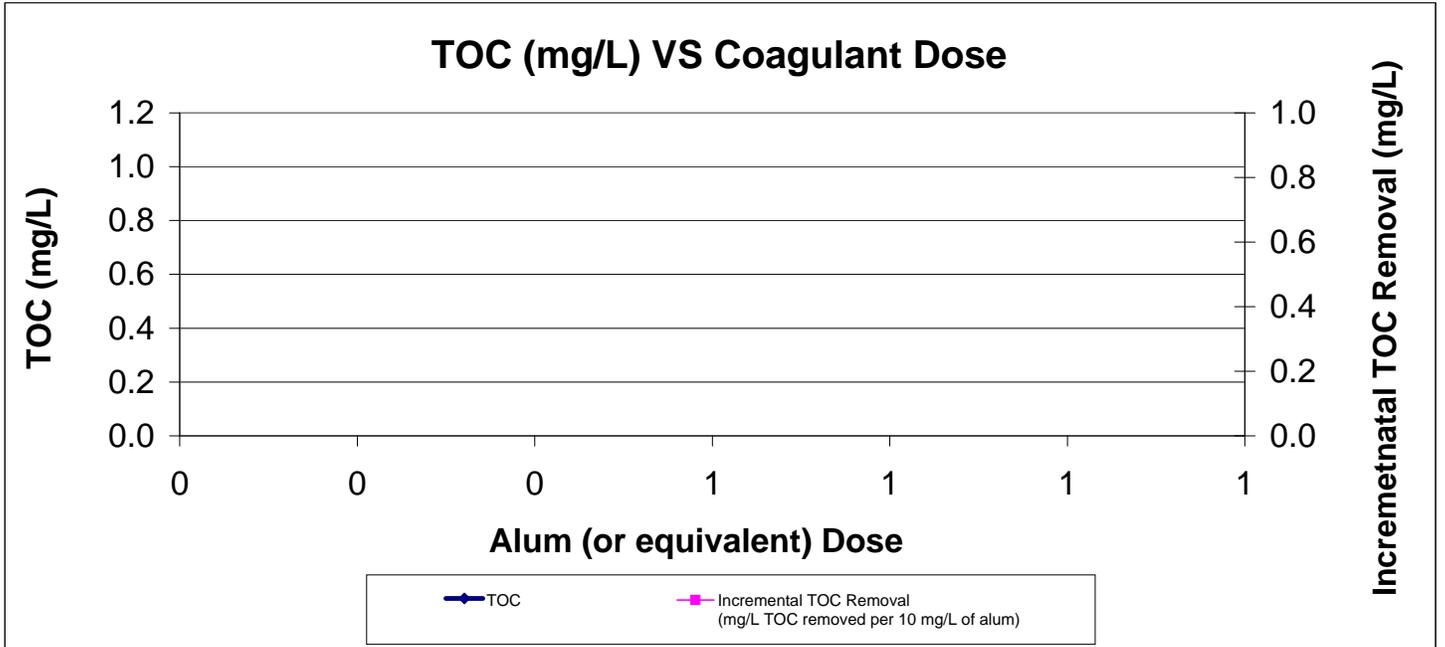
PLANT NAME  
 OR NUMBER: Navarro Mills  
 DATE OF JAR TEST: \_\_\_\_\_

PLANT CONDITIONS								
RAW WATER SOURCE(s)	COAGULANT		COAGULANT AID		FLOC AID		pH ADJUSTMENT	
	Type	Dose (mg/L)	Type	Dose (mg/L)	Type	Dose (mg/L)	Type	Dose (mg/L)

STEP 2 JAR TEST PARAMETERS									
COAGULANT		BASE		JAR SIZE	JAR TEST CONDITIONS				
Type	Stock Solution Concentration (g/L)	Type	Stock Solution Concentration (g/L)	Volume (liters)	Rapid Mix		Flocculation		Settling
					Speed (rpm)	Duration (minutes)	Speed (rpm)	Duration (minutes)	Duration (minutes)

JAR TEST RESULTS									
Jar No.	COAGULANT		BASE		Alkalinity (mg/L as CaCO <sub>3</sub> )	pH	TOC (mg/L)	Incremental TOC Removal (mg/L TOC removed per 10 mg/L of alum)	Cumulative TOC Removal (%)
	Dose (Alum eq.) (mg/L)	Volume (mL)	Dose (mg/L)	Volume (mL)					
RAW									
1					Target pH (based on raw water alkalinity)				
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									

Has the TCEQ approved this source as "Not Amenable" to Treatment even though Target pH was not reached? If "yes", provide the date of the TCEQ letter or e-mail.	TOC, % Removal at Apparent PODR:	
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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.

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

Certificate No. \_\_\_\_\_  
 and Grade: WO0004220, A