

# 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  
Report for  
the Month of: February 2011

Operator's Signature: \_\_\_\_\_  
Certificate No. & Grade: WO0004220, A Date: March 1, 2011

## TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	<u>162</u>	Number of 4-hour periods when plant was off-line:	<u>6</u>
Number of readings above 0.10 NTU:	<u>11</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>0.15</u> NTU	Average turbidity value:	<u>0.09</u> NTU
Minimum turbidity reading:	<u>0.06</u> NTU	Standard deviation:	<u>0.012</u> NTU
CFE 95 <sup>th</sup> percentile value:	<u>0.11</u> NTU	IFE 95 <sup>th</sup> percentile:	<u>0.240</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>28</u>
		Number of days when CT data was not collected:	<u>28</u>

Minimum disinfectant residual required leaving the plant:	<u>0.5</u> 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 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, measured as Total Chlorine		
Total number of readings this month:	<u>58</u> (at least 30 required) (8)	Percentage of readings with a low residual this month:	<u>0.0</u> % (6A)
Average disinfectant residual value:	<u>2.61</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.)  
Turbidity Data Page

PUBLIC WATER SYSTEM NAME: City of Corsicana

PWS ID No.: 1750002

Month: February Year: 2011

PLANT NAME OR NUMBER: Navarro Mills

Connections: 10,822

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	4.970	4.448	23	112	0.7	0.7	1.0	0.8	0.8	0.7	0.08	0.06	0.10	0.07	0.08	0.07	2.8	
2	4.970	4.279	22	112	0.7	0.8	0.9	0.8	0.7	0.7	0.09	0.08	0.07	0.08	0.08	0.09	2.7	
3	5.730	5.519	21	112	0.8	0.8	1.0	0.8	0.8	0.8	0.08	0.09	0.08	0.08	0.08	0.07	2.8	
4	7.320	5.543	23	112	0.9	0.9	0.9	0.9	0.8	0.8	0.08	0.08	0.08	0.09	0.08	0.08	3.1	
5	9.640	8.647	24	113	0.6	0.7	0.9	0.7	0.7	0.6	0.08	0.08	0.08	0.10	0.07	0.09	2.9	
6	12.260	9.834	24	114	1.2	1.2	1.7	1.4	1.4	1.2	0.10	0.09	0.07	0.08	0.10	0.09	2.8	
7	7.770	7.491	22	112	0.8	0.9	1.1	0.9	0.9	0.9	0.11	0.10	0.08	0.08	0.07	0.08	2.8	
8	6.370	5.201	23	112	1.0	1.2	1.3	1.2	1.1	1.2	0.15	0.12	0.11	0.09	0.09	0.09	2.7	
9	5.430	5.390	28	111	0.9	1.2	1.1	1.3	1.0	1.1	0.09	0.09	0.09	0.08	0.10	0.09	2.6	
10	9.890	6.728	26	114	1.0	1.2	1.5	1.3	1.4	1.2	0.08	0.08	0.10	0.09	0.09	0.09	3.1	
11	5.370	4.692	26	115	0.9	1.1	1.2	1.2	1.1	1.0	0.08	0.08	0.08	0.08	0.09	0.08	3.0	
12	5.250	5.130	25	117	0.7	0.9	1.0	0.9	0.9	0.7	0.09	0.11	0.08	0.09	0.09	0.09	3.6	
13	5.180	4.177	25	115	0.7	1.0	1.0	1.1	0.9	0.9	0.10	0.09	0.08	0.08	0.09	0.08	3.4	
14	7.120	6.100	25	113	0.8	1.0	1.4	1.2	1.1	1.0	0.08	0.09	0.07	0.07	0.07	0.08	2.9	
15	5.020	4.834	25	115	1.0	1.0	1.4	1.3	1.3	1.1	0.09	0.08	0.08	0.07	0.08	0.08	2.7	
16	4.930	4.572	23	113	1.0	1.1	1.3	1.1	1.1	1.1	0.09	0.08	0.07	0.07	0.09	0.08	2.5	
17	5.130	4.113	23	115	1.1	1.2	1.4	1.3	1.2	1.2	0.08	0.07	0.07	0.07	0.07	0.08	2.9	
18	5.150	4.620	21	117	1.1	1.2	1.3	1.3	1.1	1.2	0.11	0.09	0.10	0.10	0.10	0.10	2.8	
19	5.110	4.648	21	115	0.9	1.2	1.4	1.2	1.2	1.2	0.10	0.10	0.10	0.11	0.11	0.11	2.8	
20	5.090	4.279	20	115	0.9	1.1	1.4	1.2	1.2	1.1	0.10	0.11	0.09	0.09	0.10	0.10	2.8	
21	5.030	4.223	20	114	0.9	1.0	1.3	1.2	1.2	1.0	0.09	0.10	0.08	0.07	0.07	0.07	2.9	
22	4.990	4.731	27	112	1.0	1.1	1.3	1.1	1.1	1.0	0.09	0.09	0.08	0.09	0.09	0.10	2.8	
23	6.280	5.339	36	110	1.0	1.1	1.6	1.3	1.4	1.2	0.09	0.09	0.09	0.09	0.10	0.11	2.8	
24	7.170	5.988	28	114	1.1	1.1	1.5	1.3	1.3	1.3	0.10	0.10	0.09	0.09	0.09	0.09	3.1	
25	5.100	4.290	27	116	1.1	1.0	1.3	1.2	1.1	1.0	0.09	0.09	0.08	0.08	0.08	0.08	2.9	
26	5.100	4.590	31	119	0.9	1.0	1.4	1.1	1.1	0.9	0.08	0.09	0.08	0.08	0.08	0.08	3.0	
27	2.530	2.172	31	118	0.9	1.0	1.4	1.1	1.1	1.0	0.08	0.08	0.07	0.07	x	x	2.9	
28	2.650	3.519	30	114	1.1	0.9	1.3	1.0	1.0	1.2	x	x	x	x	0.09	0.10	2.9	
29																		
30																		
31																		
Total	166.550	145.097																
Avg	5.948	5.182																
Max	12.260	9.834																
Min	2.530	2.172																

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: March 1, 2011

# 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

PLANT NAME  
OR NUMBER: Navarro Mills

PWS ID No.: 1750002

Month: February Year: 2011

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	0.09	x	x	x	0.08	x	x	x	0.07	x	x	x								
2	0.11	x	x	x	0.07	x	0.18	0.12	x	x	0.17	0.11								
3	0.15	x	x	x	x	x	0.09	x	x	x	0.09	x								
4	x	x	0.22	0.12	x	x	0.09	x	x	x	0.10	x								
5	x	x	0.18	x	0.17	0.10	0.09	x	0.25	0.10	0.07	x								
6	x	x	0.14	x	0.10	x	0.09	x	0.11	x	0.10	x								
7	0.17	0.12	0.72	x	0.09	x	0.32	x	0.09	x	0.11	x								
8	0.11	x	0.15	x	0.10	x	0.08	x	0.09	x	x	x								
9	0.14	x	0.22	x	0.60	x	x	x	0.21	x	x	x								
10	0.09	x	0.17	0.13	0.08	x	0.22	0.10	0.07	x	0.23	0.10								
11	x	x	0.11	x	x	x	0.12	x	x	x	0.11	x								
12	x	x	0.11	x	x	x	0.12	x	x	x	0.11	x								
13	x	x	0.09	x	x	x	0.09	x	x	x	0.09	x								
14	x	x	0.29	x	0.14	0.12	0.09	x	x	x	0.10	x								
15	x	x	x	x	0.10	x	0.08	x	x	x	0.07	x								
16	x	x	x	x	0.09	x	0.08	x	x	x	0.07	x								
17	x	x	x	x	0.10	x	0.15	x	0.22	0.14	0.08	x								
18	0.24	0.16	x	x	0.11	x	0.08	x	0.13	x	x	x								
19	0.15	x	x	x	0.08	x	x	x	0.12	x	x	x								
20	0.11	x	x	x	0.08	x	x	x	0.10	x	x	x								
21	0.10	x	x	x	0.18	x	0.21	0.15	0.09	x	x	x								
22	0.10	x	x	x	x	x	0.14	x	0.09	x	x	x								
23	0.12	x	0.24	0.15	x	x	0.12	x	0.13	x	0.23	0.13								
24	0.09	x	0.11	x	x	x	0.09	x	x	x	0.10	x								
25	x	x	0.09	x	x	x	0.08	x	x	x	0.08	x								
26	x	x	0.08	x	x	x	0.07	x	x	x	0.08	x								
27	x	x	0.07	x	x	x	0.07	x	x	x	0.07	x								
28	x	x	0.07	x	x	x	0.10	x	x	x	0.07	x								
29																				
30																				
31																				

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

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

Certificate No. \_\_\_\_\_  
and Grade: W00004220, A

Date: March 1, 2011

# 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: February Year: 2011

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	0.6	5.100	9.0	7.1				
	CLA D3	3.0	5.100	10.0	7.7				
	D4								
	D5								
2	NA D1								
	FCL D2	0.6	5.100	7.0	7.2				
	CLA D3	2.9	5.100	9.0	8.0				
	D4								
	D5								
3	NA D1								
	FCL D2	0.8	7.100	7.0	7.4				
	CLA D3	2.9	7.100	8.0	8.1				
	D4								
	D5								
4	NA D1								
	FCL D2	0.9	7.500	7.0	7.3				
	CLA D3	3.1	7.500	7.0	8.1				
	D4								
	D5								
5	NA D1								
	FCL D2	0.7	12.900	7.0	7.3				
	CLA D3	2.9	12.900	8.0	7.8				
	D4								
	D5								
6	NA D1								
	FCL D2	0.8	13.100	7.0	7.1				
	CLA D3	3.0	13.100	7.0	7.0				
	D4								
	D5								
7	NA D1								
	FCL D2	1.0	10.700	7.0	7.1				
	CLA D3	2.8	10.700	7.0	8.5				
	D4								
	D5								
8	NA D1								
	FCL D2	0.8	10.900	7.0	7.1				
	CLA D3	2.8	10.900	7.0	8.2				
	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	0.7	5.300	7.0	7.2				
	CLA D3	3.1	5.300	7.0	7.5				
	D4								
	D5								
10	NA D1								
	FCL D2	0.8	10.200	6.0	7.3				
	CLA D3	3.1	10.200	7.0	7.3				
	D4								
	D5								
11	NA D1								
	FCL D2	0.8	5.400	6.0	7.4				
	CLA D3	3.8	5.400	6.0	8.0				
	D4								
	D5								
12	NA D1								
	FCL D2	0.7	5.400	6.0	7.1				
	CLA D3	3.8	5.400	6.0	7.7				
	D4								
	D5								
13	NA D1								
	FCL D2	0.6	5.200	7.0	7.1				
	CLA D3	3.6	5.200	7.0	7.8				
	D4								
	D5								
14	NA D1								
	FCL D2	0.6	10.300	7.0	7.1				
	CLA D3	3.3	10.300	7.0	7.9				
	D4								
	D5								
15	NA D1								
	FCL D2	0.4	5.200	8.0	7.1				
	CLA D3	2.8	5.200	8.0	7.9				
	D4								
	D5								
16	NA D1								
	FCL D2	0.5	5.000	9.0	7.1				
	CLA D3	2.6	5.000	9.0	7.9				
	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: March 1, 2011



# 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

PLANT NAME OR NUMBER: Navarro Mills  
Month: February Year: 2011

Type of treatment:  Conventional  Unconventional explain:

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	2/8	141	4.46	3.33	25.3	25	1.01			1.01
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
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22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
<b>Avg</b>		141.00	4.46	3.33	25.34		1.01			1.01
<b>Max</b>		141.00	4.46	3.33	25.34		1.01			1.01
<b>Min</b>		141.00	4.46	3.33	25.34		1.01			1.01

### TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

TOC Summary					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	
141	4.46	3.33	25.3	NA	1.01

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: March 1, 2011

**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: February Year: 2011

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	4.46											
Month/Year	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010	07/2010	08/2010	09/2010	10/2010	11/2010	12/2010
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	3.33											
Month/Year	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010	07/2010	08/2010	09/2010	10/2010	11/2010	12/2010
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)

Month/Year	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010	07/2010	08/2010	09/2010	10/2010	11/2010	12/2010
Average Raw Water TOC												
Quarterly Average												
RAA												
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 December 2010:  mg/L      HAA5 RAA for the 4 quarters that end December 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 December 2010:  mg/L      HAA5 RAA for the 4 quarters that end December 2010:  mg/L

AND only chlorine is used in the whole plant and distribution system. Chlorine only?:

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)

(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.)

Current Month SUVA												
Month/Year	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010	07/2010	08/2010	09/2010	10/2010	11/2010	12/2010
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)

(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.)

Treated water SUVA measured:  In Plant  
By Finished Water SUVA Jar Test

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												
Month/Year	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010	07/2010	08/2010	09/2010	10/2010	11/2010	12/2010
Monthly Treated Water SUVA												
Quarterly Average												
RAA												

**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												
Month/Year	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010	07/2010	08/2010	09/2010	10/2010	11/2010	12/2010
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												
Raw												
Treated												
Removal												
Month/Year	01/2010	02/2010	03/2010	04/2010	05/2010	06/2010	07/2010	08/2010	09/2010	10/2010	11/2010	12/2010
Monthly Raw Mg Hardness												
Monthly Treated Mg Hardness												
Monthly Mg Removal												
Quarterly Average Removal												
RAA Removal												

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: March 1, 2011

# STEP 2 JAR TEST REPORT

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

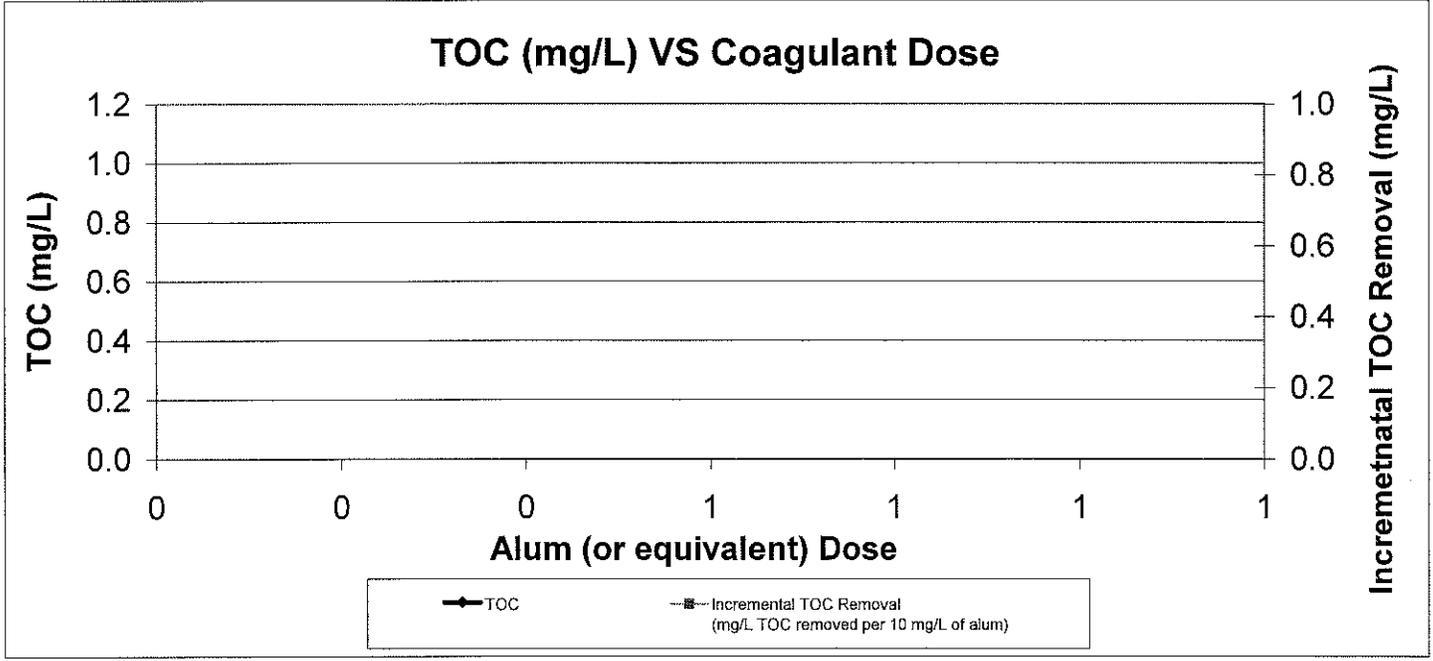
PUBLIC WATER  
 SYSTEM NAME: City of Corsicana  
 PWS ID No.: 1750002

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	0								
1									
2									
3									
4					Target pH (based on raw water alkalinity)				
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:				



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