

# 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: June 2012

Operator's Signature: \_\_\_\_\_  
Certificate No. & Grade: WO0004220, A Date: July 2, 2012

## TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	<u>180</u>	Number of 4-hour periods when plant was off-line:	<u>0</u>
Number of readings above 0.10 NTU:	<u>52</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>0.18</u> NTU
		Minimum turbidity reading:	<u>0.05</u> NTU
		CFE 95 <sup>th</sup> percentile value:	<u>0.14</u> NTU
		Average turbidity value:	<u>0.09</u> NTU
		Standard deviation:	<u>0.025</u> NTU
		IFE 95 <sup>th</sup> percentile:	<u>0.230</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>
		Average log inactivation for viruses:	<u>NA</u>
Number of days with a low CT for more than 4.0 consecutive hours:	<u>0</u> (4)	Number of days when profiling data was not collected:	<u>30</u>
		Number of days when CT data was not collected:	<u>30</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>60</u>	(at least 30 required) (8)	
Average disinfectant residual value:	<u>1.97</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)

## ADDITIONAL REPORTS & WORKSHEETS

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

#NAME?  NONE  Filter Profile  Filter Assessment  CPE  
 Additional report(s) for individual filter monitoring submitted:  NONE  Filter Profile (9)  Filter Assessment (10)  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

PLANT NAME OR NUMBER: Navarro Mills

PWS ID No.: 1750002

Connections: 10,866

Month: June Year: 2012

Population: 23,770

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	4.670	4.438	30	109	0.5	0.4	0.6	0.5	0.5	0.4	0.10	0.10	0.09	0.10	0.10	0.10	2.7	
2	4.720	4.443	36	111	0.5	0.5	0.6	0.7	0.6	0.5	0.09	0.10	0.10	0.10	0.10	0.09	2.5	
3	6.030	5.400	34	111	0.4	0.5	0.5	0.6	0.4	0.6	0.09	0.08	0.08	0.08	0.09	0.09	2.3	
4	8.240	7.297	32	109	0.5	0.5	0.6	0.5	0.5	0.4	0.09	0.09	0.09	0.09	0.10	0.11	2.4	
5	7.620	6.690	28	109	0.5	0.5	0.6	0.5	0.6	0.5	0.12	0.12	0.11	0.11	0.12	0.12	2.7	
6	4.280	5.295	32	111	0.4	0.5	0.5	0.5	0.4	0.5	0.11	0.12	0.10	0.12	0.15	0.16	1.6	
7	5.590	4.285	31	113	0.6	0.5	0.7	0.6	0.6	0.6	0.15	0.15	0.13	0.12	0.11	0.11	1.1	
8	4.260	4.699	30	112	0.5	0.4	0.6	0.5	0.4	0.5	0.10	0.10	0.10	0.10	0.11	0.09	1.7	
9	4.270	3.519	27	110	0.5	0.5	0.6	0.6	0.6	0.6	0.08	0.09	0.08	0.09	0.11	0.08	2.4	
10	4.230	4.869	28	108	0.4	0.4	0.5	0.6	0.4	0.5	0.08	0.08	0.06	0.06	0.07	0.06	2.4	
11	7.050	5.936	27	108	0.5	0.4	0.6	0.5	0.5	0.4	0.06	0.06	0.06	0.10	0.18	0.07	2.3	
12	5.810	5.337	31	111	0.4	0.4	0.6	0.6	0.5	0.5	0.08	0.08	0.07	0.07	0.09	0.09	2.8	
13	4.370	4.578	29	109	0.4	0.5	0.5	0.5	0.4	0.5	0.08	0.08	0.08	0.09	0.09	0.08	2.8	
14	6.130	5.235	22	104	0.4	0.5	0.4	0.5	0.5	0.6	0.08	0.10	0.09	0.09	0.09	0.09	2.9	
15	7.890	6.354	22	103	0.4	0.5	0.5	0.5	0.5	0.6	0.09	0.09	0.11	0.11	0.10	0.08	2.9	
16	4.320	4.683	32	97	0.4	0.4	0.4	0.4	0.4	0.4	0.09	0.09	0.12	0.11	0.10	0.10	2.7	
17	4.320	5.007	14	96	0.3	0.4	0.5	0.5	0.4	0.4	0.11	0.12	0.12	0.11	0.11	0.10	2.8	
18	7.550	6.742	24	99	0.4	0.4	0.5	0.4	0.4	0.4	0.09	0.09	0.09	0.14	0.09	0.09	2.6	
19	7.640	5.413	25	101	0.6	0.6	0.7	0.7	0.6	0.6	0.11	0.13	0.10	0.10	0.12	0.12	2.9	
20	4.450	4.814	23	101	0.5	0.5	0.6	0.5	0.7	0.5	0.13	0.12	0.13	0.13	0.13	0.12	2.5	
21	7.090	6.444	18	103	0.5	0.7	0.7	1.0	0.6	0.7	0.12	0.15	0.14	0.15	0.14	0.12	2.3	
22	9.240	7.346	18	103	0.5	0.5	0.6	0.6	0.6	0.7	0.14	0.11	0.12	0.12	0.10	0.10	2.6	
23	5.540	5.327	19	101	0.5	0.5	0.5	0.6	0.5	0.6	0.10	0.10	0.10	0.09	0.09	0.09	2.5	
24	4.620	5.982	16	105	0.3	0.4	0.4	0.5	0.4	0.5	0.08	0.08	0.07	0.06	0.07	0.06	2.6	
25	7.850	7.175	14	100	0.4	0.3	0.3	0.3	0.3	0.4	0.06	0.05	0.05	0.06	0.06	0.06	2.7	
26	9.260	7.876	12	99	0.4	0.4	0.4	0.4	0.4	0.4	0.07	0.07	0.06	0.06	0.05	0.06	2.8	
27	9.330	7.199	11	102	0.4	0.5	0.4	0.5	0.4	0.4	0.07	0.07	0.07	0.07	0.10	0.10	2.6	
28	9.300	8.275	13	102	0.4	0.4	0.4	0.4	0.4	0.5	0.08	0.07	0.06	0.06	0.07	0.07	2.6	
29	5.650	6.928	13	99	0.4	0.4	0.4	0.4	0.3	0.4	0.06	0.06	0.07	0.08	0.07	0.07	2.5	
30	8.800	7.677	15	101	0.4	0.4	0.4	0.4	0.4	0.4	0.06	0.06	0.14	0.09	0.08	0.09	2.7	
31																		
Total	189.920	175.263																
Avg	6.331	5.842																
Max	9.330	8.275																
Min	4.230	3.519																

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: July 2, 2012

# 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: June Year: 2012

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	0.18	x	0.21	x	x	x	0.16	x	0.23	0.16	0.26	x															
2	0.09	x	x	x	x	x	0.11	x	0.12	x	x	x															
3	0.08	x	x	x	0.21	0.13	0.13	x	0.11	x	x	x															
4	0.11	x	0.27	0.20	0.17	x	0.39	x	0.15	x	x	x															
5	0.11	x	0.18	x	0.16	x	0.40	x	0.14	x	x	x															
6	0.21	0.16	0.18	x	0.18	x	x	x	0.23	x	0.22	0.16															
7	0.16	x	0.13	x	0.15	x	x	x	x	x	0.15	x															
8	x	x	0.09	x	0.09	x	x	x	x	x	0.10	x															
9	x	x	0.09	x	0.09	x	x	x	x	x	0.09	x															
10	x	x	0.07	x	0.08	x	x	x	x	x	0.08	x															
11	0.12	0.09	0.08	x	0.11	x	x	x	x	x	0.08	x															
12	0.13	x	0.10	x	0.11	x	x	x	x	x	0.11	x															
13	0.15	x	0.11	x	x	x	x	x	x	x	0.12	x															
14	0.16	x	0.12	x	x	x	x	x	0.20	0.18	0.13	x															
15	0.15	x	0.10	x	x	x	0.22	0.19	0.18	x	0.12	x															
16	0.13	x	x	x	x	x	0.21	x	0.18	x	x	x															
17	0.13	x	x	x	x	x	0.21	x	0.18	x	x	x															
18	0.15	x	x	x	0.23	0.15	0.16	x	0.15	x	x	x															
19	0.11	x	x	x	0.17	x	0.15	x	0.14	x	0.19	x															
20	x	x	x	x	0.21	x	x	x	0.15	x	0.22	x															
21	x	x	0.32	0.19	0.20	x	x	x	0.30	x	0.22	x															
22	0.19	0.15	0.16	x	0.13	x	0.21	0.15	0.11	x	0.13	x															
23	0.12	x	0.11	x	x	x	0.16	x	x	x	0.09	x															
24	0.09	x	0.08	x	x	x	0.12	x	x	x	0.06	x															
25	0.07	x	0.07	x	x	x	0.10	x	0.17	0.11	0.07	x															
26	0.07	x	0.06	x	0.17	0.10	0.09	x	0.10	x	0.12	0.09															
27	x	x	0.12	0.09	0.10	x	0.08	x	0.08	x	0.08	x															
28	0.13	0.09	0.08	x	0.09	x	x	x	0.08	x	0.08	x															
29	0.09	x	0.08	x	0.10	x	x	x	x	x	0.07	x															
30	0.09	x	0.07	x	0.17	0.12	0.19	0.11	0.13	0.11	0.08	x															
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	#####	#####	#####	#####	#####	#####																					
	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	#####	#####	#####	#####	#####	#####																					
	Number of days with event(s) above 2.0 NTU this month	#####	#####	#####	#####	#####	#####																					
	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?	#####	#####	#####	#####	#####	#####																					
	Is the plant required to submit a Filter Assessment Report?	#####	#####	#####	#####	#####	#####																					
	Is the plant required to submit a Request for Compliance CPE?																											#####

SUBMITTED BY: \_\_\_\_\_ Certificate No. and Grade: WO0004220, A Date: July 2, 2012

# 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: June Year: 2012

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	0.1	4.700	25.0	7.0				
	CLA D3	2.7	4.700	25.0	7.7				
	D4								
	D5								
2	NA D1								
	FCL D2	0.1	4.800	25.0	7.1				
	CLA D3	2.8	4.800	26.0	7.8				
	D4								
	D5								
3	NA D1								
	FCL D2	0.1	7.100	26.0	7.1				
	CLA D3	2.3	7.100	26.0	7.7				
	D4								
	D5								
4	NA D1								
	FCL D2	0.1	9.600	27.0	7.1				
	CLA D3	2.7	9.600	26.0	7.6				
	D4								
	D5								
5	NA D1								
	FCL D2	0.1	9.700	27.0	7.1				
	CLA D3	3.0	9.700	26.0	7.4				
	D4								
	D5								
6	NA D1								
	FCL D2	0.1	9.600	27.0	7.1				
	CLA D3	2.5	9.600	27.0	7.4				
	D4								
	D5								
7	NA D1								
	FCL D2	0.3	7.100	26.0	7.1				
	CLA D3	1.3	7.100	26.0	7.4				
	D4								
	D5								
8	NA D1								
	FCL D2	0.3	4.300	26.0	7.1				
	CLA D3	1.8	4.300	26.0	7.5				
	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	0.5	4.400	26.0	7.1				
	CLA D3	2.6	4.400	26.0	7.7				
	D4								
	D5								
10	NA D1								
	FCL D2	0.7	4.300	26.0	7.1				
	CLA D3	2.4	4.300	26.0	7.6				
	D4								
	D5								
11	NA D1								
	FCL D2	0.7	9.100	26.0	7.1				
	CLA D3	2.4	9.100	26.0	7.7				
	D4								
	D5								
12	NA D1								
	FCL D2	0.7	9.100	27.0	7.1				
	CLA D3	3.1	9.100	27.0	7.9				
	D4								
	D5								
13	NA D1								
	FCL D2	0.3	4.300	27.0	7.1				
	CLA D3	3.0	4.300	27.0	8.0				
	D4								
	D5								
14	NA D1								
	FCL D2	0.4	9.000	27.0	7.1				
	CLA D3	2.9	9.000	27.0	8.0				
	D4								
	D5								
15	NA D1								
	FCL D2	0.4	9.100	27.0	7.1				
	CLA D3	3.0	9.100	27.0	7.5				
	D4								
	D5								
16	NA D1								
	FCL D2	0.6	4.400	27.0	7.1				
	CLA D3	2.7	4.400	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.



# 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: June Year: 2012

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	6/5	117	5.00	3.37	32.6	#NAME?	#NAME?	20.6	1.6	#NAME?
2										#NAME?
3										#NAME?
4										#NAME?
5										#NAME?
6										#NAME?
7										#NAME?
8										#NAME?
9										#NAME?
10										#NAME?
11										#NAME?
12										#NAME?
13										#NAME?
14										#NAME?
15										#NAME?
16										#NAME?
17										#NAME?
18										#NAME?
19										#NAME?
20										#NAME?
21										#NAME?
22										#NAME?
23										#NAME?
24										#NAME?
25										#NAME?
26										#NAME?
27										#NAME?
28										#NAME?
29										#NAME?
30										#NAME?
31										#NAME?
Avg		117.00	5.00	3.37	32.60		#NAME?		1.6	#NAME?
Max		117.00	5.00	3.37	32.60		#NAME?		1.6	#NAME?
Min		117.00	5.00	3.37	32.60		#NAME?		1.6	#NAME?

### TOTAL ORGANIC CARBON (TOC) REMOVAL SUMMARY

#NAME?					Monthly Compliance Ratio
Raw Water Alkalinity	Raw Water TOC	Treated Water TOC	TOC % Removal	ACC # used	
117	5.00	3.37	32.6	#NAME?	#NAME?
				#NAME?	#NAME?

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: July 2, 2012

**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: June Year: 2012

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			
	5.00	Month/Year	07/2011	08/2011	09/2011	10/2011	11/2011	12/2011	01/2012	02/2012	03/2012	04/2012	05/2012	06/2012
	Average Raw Water TOC	[Blank]												
	Quarterly Average	[Blank]			[Blank]			[Blank]			[Blank]			
	RAA	[Blank]												

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			
	3.37	Month/Year	07/2011	08/2011	09/2011	10/2011	11/2011	12/2011	01/2012	02/2012	03/2012	04/2012	05/2012	06/2012
	Average Treated Water TOC	[Blank]												
	Quarterly Average	[Blank]			[Blank]			[Blank]			[Blank]			
	RAA	[Blank]												

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	Q1			Q2			Q3			Q4		
	07/2011	08/2011	09/2011	10/2011	11/2011	12/2011	01/2012	02/2012	03/2012	04/2012	05/2012	06/2012	
	Average Raw Water TOC	[Blank]											
	Quarterly Average	[Blank]			[Blank]			[Blank]			[Blank]		
	RAA	[Blank]											
	Average Raw Water Alkalinity	[Blank]											
	Quarterly Average	[Blank]			[Blank]			[Blank]			[Blank]		
	RAA	[Blank]											

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 June 2012:  mg/L      HAA5 RAA for the 4 quarter that end June 2012:  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 June 2012: <input type="text"/> mg/L						HAA5 RAA for the 4 quarters that end June 2012: <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)												
	Current Month SUVA	Q1			Q2			Q3			Q4		
	Month/Year	07/2011	08/2011	09/2011	10/2011	11/2011	12/2011	01/2012	02/2012	03/2012	04/2012	05/2012	06/2012
	Monthly Raw Water SUVA	[Blank]											
	Quarterly Average	[Blank]			[Blank]			[Blank]			[Blank]		
	RAA	[Blank]											

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			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.								
		By Finished Water SUVA Jar Test											
	Current Month SUVA	Q1			Q2			Q3			Q4		
	Month/Year	07/2011	08/2011	09/2011	10/2011	11/2011	12/2011	01/2012	02/2012	03/2012	04/2012	05/2012	06/2012
	Monthly Treated Water SUVA	[Blank]											
	Quarterly Average	[Blank]			[Blank]			[Blank]			[Blank]		
	RAA	[Blank]											
Certified Operators Signature / Certificate Number / Date													

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		
	Month/Year	07/2011	08/2011	09/2011	10/2011	11/2011	12/2011	01/2012	02/2012	03/2012	04/2012	05/2012	06/2012
	Monthly Treated Alkalinity	[Blank]											
	Quarterly Average	[Blank]			[Blank]			[Blank]			[Blank]		
	RAA	[Blank]											

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	Month/Year	07/2011	08/2011	09/2011	10/2011	11/2011	12/2011	01/2012	02/2012	03/2012	04/2012	05/2012	06/2012
	Treated	Monthly Raw Mg Hardness	[Blank]											
	Removal	Monthly Treated Mg Hardness	[Blank]											
		Monthly Mg Removal	[Blank]											
		Quarterly Average Removal	[Blank]			[Blank]			[Blank]			[Blank]		
		RAA Removal	[Blank]											

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: July 2, 2012

# STEP 2 JAR TEST REPORT

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

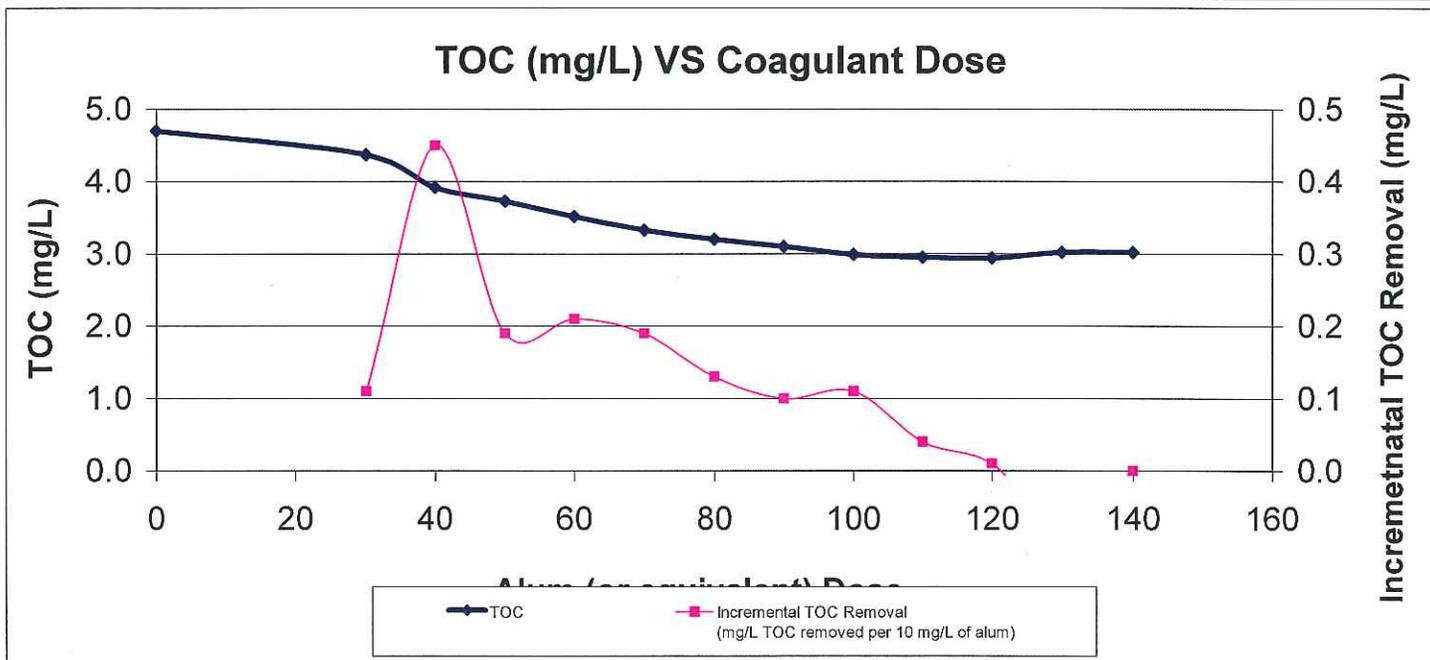
PUBLIC WATER  
 SYSTEM NAME: City of Corsicana  
 PWS ID No.: 1750002

PLANT NAME  
 OR NUMBER: Navarro Mills  
 DATE OF JAR TEST: March 22, 2012

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)
Navarro Mills	Alum	120.00	n/a	0.00	n/a	0.00	Caustic	24.00

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)
Alum	11	n/a	-	0.5	100.0	1.0	30.0	20.0	40.0

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					104	8.4	4.7			
1	30	1.50	0.00		Target pH (based on raw water alkalinity)	7.4	4.4	0.1	7.0	
2	40	2.00	0.00			7.3	3.9	0.5	16.6	
3	50	2.50	0.00			7.2	3.7	0.2	20.6	
4	60	3.00	0.00			7.0	3.5	0.2	25.1	
5	70	3.50	0.00			6.9	3.3	0.2	29.1	
6	80	4.00	0.00			6.8	3.2	0.1	31.9	
7	90	4.50	0.00			6.8	3.1	0.1	34.0	
8	100	5.00	0.00			6.6	3.0	0.1	36.4	
9	110	5.50	0.00		6.3	3.0	0.0	37.2		
10	120	6.00	0.00		6.5	2.9	0.0	37.4		
11	130	6.50	0.00		6.5	3.0	-0.1	bad data point		
12	140	7.00	0.00		6.5	3.0	0.0	35.7		
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:			20.6		



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