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: December 2005
Certificate No. & Grade: WO0004220 A
Date: January 3, 2006

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	186	Number of 4-hour periods when plant was off-line:	0
Number of readings above 0.10 NTU:	0	Number of 4-hour periods when plant was on-line	
Number of readings above 0.3 NTU:	0	but turbidity data was not collected:	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:	0.10 NTU	Average turbidity value:	0.07 NTU
Minimum turbidity reading:	0.06 NTU	Standard deviation:	0.008 NTU

Additional report(s) for individual filter monitoring required: ○ NONE ○ Filter Profile ○ Filter Assessment ○ CPE
Additional report(s) for individual filter monitoring submitted: ◉ NONE ○ Filter Profile ○ Filter Assessment ○ 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
		Average log inactivation for viruses:	NA
Number of days with a low CT for more than 4.0 consecutive hours:	0 (4)	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 ○ Free Chlorine ◉ 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 ○ Free Chlorine ◉ Total Chlorine

Total number of readings this month:	56		
Average disinfectant residual value:	2.15	Percentage of readings with a low residual this month:	0.0 % (6A)
Number of readings with a low residual:	0		
Number of readings with no detectable residual:	0	Percentage of readings with a low residual last month:	0.0 % (6B)

PUBLIC NOTIFICATION

TREATMENT TECHNIQUE VIOLATIONS	YES/NO	If YES, date when notice was given to: COMMISSION‡	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: December **Year:** 2005
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							
					Basin No.						Turbidity						Lowest	
			NTU	Alk.	1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6	Residual	Time*
1	8.440	6.546	48	113	0.8	0.9	1.1	0.9	1.0	0.8	0.07	0.07	0.07	0.07	0.07	0.07	3.1	
2	7.170	5.781	46	112	0.8	0.9	1.2	0.9	1.0	0.8	0.07	0.07	0.07	0.10	0.08	0.08	2.8	
3	8.430	7.265	46	111	0.7	0.8	1.1	0.9	0.9	0.9	0.08	0.07	0.07	0.07	0.08	0.07	2.9	
4	8.480	7.278	46	112	0.7	0.8	1.1	0.8	0.8	0.8	0.07	0.07	0.08	0.07	0.07	0.07	2.9	
5	8.190	6.281	49	114	0.7	0.9	0.9	0.9	0.8	0.8	0.07	0.06	0.07	0.07	0.08	0.08	2.5	
6	7.610	6.416	42	115	0.7	1.1	1.0	0.9	0.9	0.8	0.08	0.08	0.07	0.07	0.07	0.07	2.7	
7	8.060	6.536	43	115	0.8	1.0	1.2	1.0	1.1	1.0	0.08	0.08	0.08	0.08	0.08	0.08	2.8	
8	8.510	6.702	38	111	0.8	0.8	1.3	1.1	1.0	0.9	0.08	0.08	0.08	0.08	0.07	0.07	3.1	
9	7.950	7.206	46	117	0.8	0.9	1.2	1.0	1.0	0.9	0.07	0.07	0.09	0.07	0.07	0.07	3.0	
10	9.670	7.298	52	119	0.9	1.1	1.3	1.1	1.1	1.0	0.06	0.06	0.07	0.07	0.06	0.06	3.2	
11	7.180	6.140	48	119	0.8	0.9	1.1	1.0	0.9	0.9	0.06	0.06	0.06	0.06	0.06	0.06	2.9	
12	7.970	6.670	48	116	0.7	1.0	1.1	1.0	0.9	0.9	0.07	0.07	0.07	0.06	0.08	0.08	3.0	
13	7.220	6.053	47	119	0.8	1.1	1.2	1.1	1.1	1.0	0.08	0.08	0.07	0.07	0.07	0.07	3.2	
14	7.270	5.959	46	119	0.8	0.9	1.1	0.9	1.0	0.9	0.07	0.06	0.06	0.07	0.06	0.07	3.0	
15	7.830	6.293	40	118	0.8	0.9	1.1	1.0	1.0	0.9	0.08	0.08	0.07	0.07	0.07	0.07	3.0	
16	7.680	6.227	43	116	0.8	1.0	1.2	1.0	1.1	1.0	0.08	0.07	0.08	0.07	0.07	0.07	3.2	
17	6.650	5.678	41	114	0.9	1.0	1.2	1.0	0.9	1.0	0.07	0.06	0.06	0.06	0.06	0.06	3.0	
18	7.930	5.841	43	117	0.9	0.9	1.4	1.1	1.1	1.0	0.08	0.08	0.08	0.08	0.07	0.08	3.0	
19	7.800	6.274	48	119	0.8	0.9	1.3	0.9	1.2	0.9	0.07	0.07	0.07	0.07	0.07	0.08	3.0	
20	5.650	4.682	47	118	0.9	1.1	1.3	1.1	1.2	1.0	0.08	0.08	0.07	0.08	0.07	0.07	3.0	
21	7.230	6.077	47	117	0.8	1.0	1.2	1.0	1.2	1.0	0.10	0.07	0.07	0.08	0.08	0.08	2.8	
22	7.310	5.814	45	118	0.8	1.1	1.2	1.1	1.2	1.0	0.07	0.07	0.08	0.08	0.08	0.07	3.0	
23	8.980	6.799	47	117	0.8	0.9	1.0	1.0	1.1	1.0	0.07	0.07	0.06	0.07	0.07	0.07	3.0	
24	5.340	5.257	45	119	0.9	0.9	1.1	1.0	1.0	1.0	0.07	0.07	0.06	0.06	0.07	0.07	2.7	
25	8.060	5.812	41	118	0.7	0.8	1.1	0.8	0.9	0.8	0.07	0.06	0.07	0.06	0.07	0.07	2.8	
26	8.000	6.988	43	118	0.8	0.9	1.1	1.0	1.1	1.0	0.07	0.07	0.06	0.07	0.06	0.06	2.9	
27	8.040	6.353	34	119	0.9	0.9	1.1	1.3	1.0	1.0	0.06	0.06	0.07	0.07	0.07	0.06	3.1	
28	6.400	5.481	33	117	0.8	0.9	1.2	1.0	1.0	1.0	0.06	0.06	0.07	0.08	0.07	0.06	2.7	
29	8.310	5.973	30	118	0.8	1.0	1.1	0.9	1.0	1.1	0.06	0.06	0.06	0.08	0.07	0.06	3.1	
30	6.110	5.122	31	117	0.8	0.9	1.0	0.9	0.9	0.8	0.06	0.06	0.08	0.06	0.06	0.06	3.1	
31	8.040	6.767	33	117	0.8	1.0	1.2	1.0	0.9	1.0	0.07	0.06	0.07	0.07	0.07	0.07	3.1	
Total	237.510	193.569																
Avg	7.662	6.244																
Max	9.670	7.298																
Min	5.340	4.682																

* **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:** January 3, 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

PLANT NAME OR NUMBER: Navarro Mills

PWS ID No.: 1750002

Month: December **Year:** 2005

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	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	0.10	X	0.08	X	0.08	X	0.08	X	0.11	X	0.10	0.10								
2	0.10	X	0.21	X	0.09	X	0.10	X	0.11	0.09	0.48	0.10								
3	0.10	X	0.09	0.09	0.14	0.10	0.08	X	0.09	X	0.11	X								
4	0.10	X	0.11	X	0.09	X	0.08	0.08	0.08	X	0.09	X								
5	0.08	0.08	0.11	X	0.12	X	0.11	X	0.09	X	0.10	X								
6	0.12	X	0.11	X	0.13	X	0.11	X	0.09	0.08	0.15	0.09								
7	0.11	X	0.08	X	0.09	0.09	0.08	X	0.13	X	0.10	X								
8	0.09	X	0.10	0.09	0.12	X	0.09	X	0.08	X	0.08	X								
9	0.21	X	0.12	X	0.15	X	0.28	0.08	0.08	X	0.10	X								
10	0.14	0.10	0.08	X	0.13	X	0.08	X	0.07	X	0.07	X								
11	0.09	X	0.12	X	0.47	X	0.07	X	0.13	0.07	0.12	0.08								
12	0.10	X	0.19	X	0.07	0.07	0.07	X	0.09	X	0.09	X								
13	0.09	X	0.10	0.08	0.12	X	0.14	0.07	0.09	X	0.11	X								
14	0.08	0.08	0.10	X	0.10	X	0.17	X	0.08	X	0.10	X								
15	0.13	X	0.09	X	0.10	X	0.09	X	0.07	X	0.10	0.09								
16	0.09	X	0.08	X	0.08	X	0.08	X	0.12	0.08	0.18	X								
17	0.12	X	0.38	X	0.10	0.08	0.11	X	0.12	X	0.11	X								
18	0.08	X	0.11	0.08	0.14	X	0.14	0.08	0.09	X	0.08	X								
19	0.18	0.08	0.11	X	0.10	X	0.11	X	0.09	X	0.09	X								
20	0.15	X	0.10	X	0.10	X	0.10	X	0.10	X	0.11	0.09								
21	0.11	X	0.12	X	0.29	0.08	0.12	X	0.15	0.08	0.13	X								
22	0.09	X	0.10	0.09	0.14	X	0.09	X	0.09	X	0.09	X								
23	0.13	X	0.12	X	0.10	X	0.08	0.08	0.09	X	0.10	X								
24	0.10	0.07	0.08	X	0.08	X	0.10	X	0.06	X	0.07	X								
25	0.10	X	0.08	X	0.14	X	0.09	X	0.06	X	0.10	0.08								
26	0.08	X	0.27	X	0.13	0.07	0.08	X	0.10	0.06	0.13	X								
27	0.13	X	0.09	0.08	0.11	X	0.11	X	0.09	X	0.08	X								
28	0.08	X	0.10	X	0.09	X	0.07	0.07	0.08	X	0.08	X								
29	0.07	0.07	0.09	X	0.08	X	0.11	X	0.07	X	0.07	X								
30	0.10	X	0.09	X	0.10	X	0.09	X	0.07	0.07	0.10	0.07								
31	0.09	X	0.14	X	0.07	0.07	0.08	X	0.11	X	0.09	X								

SUMMARY & COMPLIANCE ACTIONS

Criteria	Filter No. 1	2	3	4	5	6	7	8	9	10	Plant
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	######	######	######	######	######	######	######	######	######	######	
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	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?											N

SUBMITTED BY: _____ **Certificate No. and Grade:** WO0004220 A **Date:** January 3, 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
PLANT NAME OR NUMBER: Navarro Mills
PWS ID No.: 1750002
Month: December **Year:** 2005

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
	Disinfection Zones					Log Inactivations	
Parameters	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	Disinfectant	C (mg/L)	Flow (MGD)	Temp (^{o}C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time☑
	NA *D1*								
	FCL *D2*	2.7	10.200	15.0	7.5				
1	CLA *D3*	3.5	10.200	14.0	7.5				
	D4								
	D5								
	NA *D1*								
	FCL *D2*	2.8	10.000	13.0	7.5				
2	CLA *D3*	2.8	10.000	13.0	7.6				
	D4								
	D5								
	NA *D1*								
	FCL *D2*	2.8	10.100	13.0	7.5				
3	CLA *D3*	2.9	10.100	14.0	7.6				
	D4								
	D5								
	NA *D1*								
	FCL *D2*	2.5	10.100	14.0	7.4				
4	CLA *D3*	3.0	10.100	14.0	7.6				
	D4								
	D5								
	NA *D1*								
	FCL *D2*	2.7	10.200	13.0	7.5				
5	CLA *D3*	2.9	10.200	14.0	7.6				
	D4								
	D5								
	NA *D1*								
	FCL *D2*	2.7	10.500	13.0	7.5				
6	CLA *D3*	3.1	10.500	13.0	7.5				
	D4								
	D5								
	NA *D1*								
	FCL *D2*	2.8	10.100	12.0	7.5				
7	CLA *D3*	3.2	10.100	13.0	7.5				
	D4								
	D5								
	NA *D1*								
	FCL *D2*	2.8	9.400	11.0	7.5				
8	CLA *D3*	3.2	9.400	11.0	7.5				
	D4								
	D5								

PERFORMANCE DATA

Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (^{o}C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time☑
	NA *D1*								
	FCL *D2*	2.7	10.000	10.0	7.5				
9	CLA *D3*	3.2	10.000	10.0	7.5				
	D4								
	D5								
	NA *D1*								
	FCL *D2*	2.7	10.100	10.0	7.4				
10	CLA *D3*	3.3	10.100	11.0	7.5				
	D4								
	D5								
	NA *D1*								
	FCL *D2*	2.9	10.100	11.0	7.4				
11	CLA *D3*	2.9	10.100	10.0	7.5				
	D4								
	D5								
	NA *D1*								
	FCL *D2*	2.9	10.200	11.0	7.4				
12	CLA *D3*	3.2	10.200	10.0	7.4				
	D4								
	D5								
	NA *D1*								
	FCL *D2*	2.9	10.100	10.0	7.5				
13	CLA *D3*	3.3	10.100	10.0	7.5				
	D4								
	D5								
	NA *D1*								
	FCL *D2*	2.6	10.200	11.0	7.5				
14	CLA *D3*	3.2	10.200	10.0	7.5				
	D4								
	D5								
	NA *D1*								
	FCL *D2*	2.8	10.200	11.0	7.5				
15	CLA *D3*	3.2	10.200	10.0	7.6				
	D4								
	D5								
	NA *D1*								
	FCL *D2*	2.8	10.100	10.0	7.5				
16	CLA *D3*	3.3	10.100	10.0	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:** January 3, 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
PLANT NAME OR NUMBER: Navarro Mills
PWS ID No.: 1750002
Month: December **Year:** 2005

DISINFECTION PROCESS PARAMETERS

APPROVED CT STUDY PARAMETERS						PERFORMANCE STANDARDS	
	Disinfection Zones					Log Inactivations	
Parameters	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	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time■
17	NA *D1*								
	FCL *D2*	2.7	10.200	10.0	7.4				
	CLA *D3*	3.0	10.200	10.0	7.5				
	D4								
	D5								
18	NA *D1*								
	FCL *D2*	2.7	10.200	11.0	7.5				
	CLA *D3*	3.0	10.200	10.0	7.6				
	D4								
	D5								
19	NA *D1*								
	FCL *D2*	2.6	10.000	10.0	7.5				
	CLA *D3*	3.1	10.000	10.0	7.6				
	D4								
	D5								
20	NA *D1*								
	FCL *D2*	2.8	10.100	10.0	7.5				
	CLA *D3*	3.0	10.100	10.0	7.6				
	D4								
	D5								
21	NA *D1*								
	FCL *D2*	2.9	10.100	10.0	7.5				
	CLA *D3*	3.1	10.100	9.0	7.7				
	D4								
	D5								
22	NA *D1*								
	FCL *D2*	2.7	10.200	9.0	7.5				
	CLA *D3*	3.2	10.200	9.0	7.6				
	D4								
	D5								
23	NA *D1*								
	FCL *D2*	2.7	10.300	10.0	7.4				
	CLA *D3*	3.2	10.300	10.0	7.6				
	D4								
	D5								
24	NA *D1*								
	FCL *D2*	2.5	10.200	10.0	7.5				
	CLA *D3*	3.1	10.200	10.0	7.6				
	D4								
	D5								

PERFORMANCE DATA

Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (°C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time■
25	NA *D1*								
	FCL *D2*	2.5	10.200	10.0	7.5				
	CLA *D3*	2.9	10.200	10.0	7.6				
	D4								
	D5								
26	NA *D1*								
	FCL *D2*	2.9	10.200	11.0	7.5				
	CLA *D3*	2.9	10.200	10.0	7.6				
	D4								
	D5								
27	NA *D1*								
	FCL *D2*	3.1	10.300	11.0	7.5				
	CLA *D3*	3.2	10.300	11.0	7.5				
	D4								
	D5								
28	NA *D1*								
	FCL *D2*	3.1	10.300	11.0	7.4				
	CLA *D3*	3.2	10.300	11.0	7.5				
	D4								
	D5								
29	NA *D1*								
	FCL *D2*	2.9	10.200	11.0	7.4				
	CLA *D3*	3.3	10.200	11.0	7.5				
	D4								
	D5								
30	NA *D1*								
	FCL *D2*	2.9	10.200	12.0	7.5				
	CLA *D3*	3.2	10.200	12.0	7.5				
	D4								
	D5								
31	NA *D1*								
	FCL *D2*	2.9	10.200	12.0	7.5				
	CLA *D3*	3.3	10.200	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:** January 3, 2006