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: July 2009
Certificate No. & Grade: WO0004220 A
Date: August 3, 2009

TREATMENT PLANT PERFORMANCE

Total number of turbidity readings:	176	Number of 4-hour periods when plant was off-line:	10
Number of readings above 0.10 NTU:	90	Number of 4-hour periods when plant was on-line	
Number of readings above 0.3 NTU:	2	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:	1.1 % (1)	Number of days with readings above 5.0 NTU:	0 (3)

Statistical Summary				
Maximum turbidity reading:	0.40 NTU	Average turbidity value:	0.14 NTU
Minimum turbidity reading:	0.06 NTU	Standard deviation:	0.077 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: 0.2 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: 0.2 mg/L ( ) Free Chlorine (●) Total Chlorine

Total number of readings this month:	61		
Average disinfectant residual value:	1.43	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: 11,050
Month: July **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							
					Basin No.						Turbidity						Lowest	
			NTU	Alk.	1	2	3	4	5	6	NTU1	NTU2	NTU3	NTU4	NTU5	NTU6	Residual	Time*
1	6.800	6.969	21	97	0.6	0.6	0.6	0.6	0.7	0.5	0.10	X	0.09	0.10	0.11	0.17	2.7	
2	9.160	8.927	18	95	0.5	0.5	0.5	0.5	0.5	0.5	0.17	0.18	0.18	0.19	0.20	0.18	2.5	
3	9.180	9.243	21	99	0.6	0.7	0.6	0.6	0.6	0.6	0.17	0.17	0.13	0.12	0.11	0.10	2.6	
4	9.170	8.605	21	100	0.5	0.5	0.5	0.5	0.5	0.5	0.10	0.12	0.12	0.14	0.12	0.11	3.1	
5	8.410	8.057	24	100	0.9	1.3	1.1	1.2	1.1	1.3	0.10	0.10	0.10	0.11	0.10	0.10	3.1	
6	6.780	6.592	20	99	0.9	0.7	0.8	0.6	0.8	0.5	0.09	0.07	0.07	0.08	0.08	0.08	1.9	
7	4.930	4.662	20	97	0.6	0.7	0.5	0.6	0.5	0.6	0.07	0.07	0.07	0.08	0.08	0.10	2.6	
8	7.850	6.274	16	98	0.6	0.6	0.6	0.6	0.5	0.6	0.07	0.07	0.09	0.11	0.13	0.14	2.6	
9	6.990	6.927	16	101	0.5	0.5	0.5	0.6	0.5	0.5	0.16	0.18	0.15	0.13	0.12	0.12	2.6	
10	8.550	7.719	22	100	0.8	0.8	0.9	0.8	0.8	0.8	0.11	0.12	0.13	0.11	0.11	0.12	3.0	
11	6.450	6.875	16	97	1.9	1.9	1.6	1.7	2.1	1.7	X	X	0.09	0.13	0.20	0.25	2.6	
12	8.650	7.817	23	100	1.1	1.0	0.9	1.0	0.8	1.0	0.26	0.30	0.32	0.29	0.29	0.23	2.5	
13	6.440	7.041	16	92	1.0	0.9	1.0	1.0	1.0	1.0	X	X	0.18	0.20	0.21	0.23	2.6	
14	8.130	8.340	19	94	1.0	1.0	1.2	1.2	1.2	1.2	0.25	0.25	0.31	0.31	0.29	0.31	2.6	
15	8.370	8.131	20	94	1.4	1.3	1.5	1.4	1.5	1.3	0.28	0.33	0.23	0.32	0.27	0.29	2.2	
16	9.090	8.160	23	99	1.1	1.1	1.0	1.2	1.2	1.1	0.40	0.38	0.30	0.27	0.26	0.21	2.6	
17	7.560	8.134	28	101	0.7	0.7	0.7	0.7	0.6	0.7	0.19	0.20	0.20	0.24	0.19	0.17	2.7	
18	7.140	6.714	20	99	0.8	1.1	0.6	0.6	0.7	0.7	X	X	0.17	0.26	0.26	0.25	2.2	
19	9.090	8.346	20	102	0.5	0.5	0.4	0.4	0.4	0.4	0.22	0.17	0.13	0.11	0.11	0.08	2.4	
20	7.290	6.603	24	101	0.6	0.5	0.5	0.4	0.5	0.4	0.08	0.07	0.07	0.07	0.07	0.07	2.5	
21	5.070	4.710	22	102	0.6	0.8	0.5	0.6	0.5	0.6	0.07	0.07	0.07	0.07	0.07	0.08	2.6	
22	7.070	5.955	30	100	0.5	0.4	0.4	0.4	0.3	0.4	0.07	0.08	0.08	0.09	0.07	0.08	2.2	
23	8.680	7.560	34	97	0.5	0.8	0.4	0.5	0.6	0.4	0.10	0.13	0.09	0.08	0.07	0.10	2.7	
24	5.140	5.120	33	101	0.5	0.5	0.5	0.5	0.5	0.4	0.09	0.08	0.06	0.06	0.09	0.09	2.5	
25	6.450	6.104	27	103	0.5	0.5	0.4	0.4	0.3	0.4	0.06	0.07	0.06	0.07	0.06	0.06	2.4	
26	9.120	8.621	31	103	0.5	0.4	0.4	0.4	0.4	0.4	0.07	0.07	0.07	0.08	0.06	0.06	2.0	
27	7.670	6.246	45	102	0.6	0.5	0.5	0.5	0.5	0.4	0.07	0.08	0.07	0.07	0.09	0.08	2.9	
28	4.080	4.749	35	101	0.6	0.6	0.5	0.6	0.5	0.6	0.07	X	0.06	0.07	0.07	0.08	2.5	
29	7.610	6.517	31	103	0.7	0.6	0.6	0.5	0.5	0.5	0.09	0.09	0.07	0.09	0.11	0.13	2.2	
30	6.660	5.735	27	101	0.8	0.8	0.8	0.7	0.7	0.7	0.15	0.15	0.12	0.11	0.11	0.14	2.4	
31	5.550	5.315	29	100	0.4	0.5	0.5	0.5	0.5	0.5	X	X	0.10	0.10	0.10	0.16	2.0	
Total	229.130	216.768																
Avg	7.391	6.993																
Max	9.180	9.243																
Min	4.080	4.662																

* **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:** August 3, 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
PLANT NAME OR NUMBER: Navarro Mills
PWS ID No.: 1750002
Month: July **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	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	0.32	X	0.26	X	0.27	X	0.15	X	0.22	X	0.24	X								
2	0.29	X	0.25	X	0.24	X	0.22	X	0.23	X	0.28	X								
3	0.20	X	0.30	0.15	0.16	X	0.16	X	0.22	0.16	0.22	0.22								
4	0.38	0.19	0.26	0.16	0.30	0.15	0.31	0.21	0.19	X	0.22	X								
5	0.20	X	0.18	X	0.14	X	0.16	X	0.14	X	0.22	X								
6	0.12	X	0.11	X	0.08	X	0.10	X	0.09	X	0.22	X								
7	X	X	0.14	X	0.11	X	0.13	X	0.11	X	0.22	X								
8	0.16	X	0.15	X	0.13	X	0.30	0.27	0.32	0.23	0.13	0.13								
9	0.20	X	X	X	0.23	0.20	0.22	X	0.15	X	0.13	X								
10	0.16	X	0.26	0.26	0.16	X	0.14	X	0.14	X	0.20	X								
11	0.55	0.54	0.62	X	0.45	X	0.41	X	0.37	X	0.53	X								
12	0.52	X	0.41	X	0.59	0.23	0.38	X	0.49	0.43	0.87	0.52								
13	0.37	X	0.50	0.40	0.33	X	0.42	0.31	0.33	X	0.47	X								
14	0.64	0.50	0.50	X	0.34	X	0.44	X	0.33	X	0.47	X								
15	0.57	X	0.52	X	0.80	0.48	0.46	X	0.67	0.49	0.69	0.54								
16	0.41	X	0.64	0.28	0.45	X	0.35	X	0.44	X	0.58	X								
17	0.38	0.21	0.52	0.31	0.33	X	0.42	0.30	0.29	X	0.40	X								
18	0.44	X	0.35	X	0.62	0.31	0.37	X	0.50	0.22	0.40	X								
19	0.17	X	0.16	X	0.16	X	0.16	X	0.21	X	0.40	0.11								
20	0.12	X	0.33	0.13	0.08	X	0.11	X	0.11	X	0.14	X								
21	0.12	X	X	X	0.09	X	X	X	0.11	X	0.14	X								
22	0.21	0.20	0.20	X	0.19	0.14	0.16	X	0.14	X	0.14	X								
23	0.14	X	0.12	X	0.11	X	0.17	0.16	0.22	0.12	0.17	0.11								
24	0.09	X	0.08	X	0.06	X	X	X	X	X	0.13	X								
25	0.10	X	0.10	X	0.07	X	X	X	0.16	X	0.13	X								
26	0.11	X	0.14	0.13	0.07	X	0.16	X	0.21	X	0.12	X								
27	0.21	0.14	0.12	X	X	X	0.10	X	0.11	X	0.10	X								
28	0.16	X	0.16	X	X	X	0.12	X	0.14	X	X	X								
29	0.19	X	0.17	X	0.23	0.02	0.15	X	0.28	0.22	0.27	0.25								
30	0.17	X	0.17	X	0.18	X	0.21	0.17	0.21	X	0.19	X								
31	0.23	X	0.21	X	0.23	X	0.27	X	0.28	X	0.24	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	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 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:** WO0004220 A **Date:** August 3, 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
PLANT NAME OR NUMBER: Navarro Mills
PWS ID No.: 1750002
Month: July **Year:** 2009

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=
1	NA *D1*								
	FCL *D2*	4.2	9.100	30.0	7.5				
	FCL *D3*	2.7	9.100	30.0	7.4				
	D4								
	D5								
2	NA *D1*								
	FCL *D2*	4.1	9.200	30.0	7.5				
	FCL *D3*	2.7	9.200	32.0	7.4				
	D4								
	D5								
3	NA *D1*								
	FCL *D2*	4.0	9.100	30.0	7.4				
	FCL *D3*	2.9	9.100	32.0	7.4				
	D4								
	D5								
4	NA *D1*								
	FCL *D2*	4.3	9.200	30.0	7.5				
	FCL *D3*	3.3	9.200	32.0	7.4				
	D4								
	D5								
5	NA *D1*								
	FCL *D2*	4.2	9.200	31.0	7.4				
	FCL *D3*	3.4	9.200	31.0	7.4				
	D4								
	D5								
6	NA *D1*								
	FCL *D2*	2.7	9.200	30.0	7.4				
	FCL *D3*	2.4	9.200	30.0	7.3				
	D4								
	D5								
7	NA *D1*								
	FCL *D2*	4.3	5.000	31.0	7.4				
	FCL *D3*	3.3	5.000	30.0	7.3				
	D4								
	D5								
8	NA *D1*								
	FCL *D2*	3.9	9.100	30.0	7.4				
	FCL *D3*	2.8	9.100	30.0	7.4				
	D4								
	D5								

PERFORMANCE DATA

Date	Disinfectant	C (mg/L)	Flow (MGD)	Temp (^{o}C)	pH	Giardia Log	Virus Log	Inact. Ratio	Time=
9	NA *D1*								
	FCL *D2*	4.4	9.100	30.0	7.4				
	FCL *D3*	2.9	9.100	30.0	7.5				
	D4								
	D5								
10	NA *D1*								
	FCL *D2*	4.5	8.400	31.0	7.4				
	FCL *D3*	3.2	8.400	31.0	7.4				
	D4								
	D5								
11	NA *D1*								
	FCL *D2*	4.5	8.800	30.0	7.8				
	FCL *D3*	3.0	8.800	31.0	7.6				
	D4								
	D5								
12	NA *D1*								
	FCL *D2*	4.0	9.000	31.0	7.6				
	FCL *D3*	2.7	9.000	31.0	7.5				
	D4								
	D5								
13	NA *D1*								
	FCL *D2*	2.3	9.100	30.0	7.4				
	FCL *D3*	2.7	9.100	31.0	7.4				
	D4								
	D5								
14	NA *D1*								
	FCL *D2*	3.4	9.100	31.0	7.7				
	FCL *D3*	3.2	9.100	32.0	7.4				
	D4								
	D5								
15	NA *D1*								
	FCL *D2*	3.4	12.200	31.0	7.6				
	FCL *D3*	2.9	12.200	32.0	7.5				
	D4								
	D5								
16	NA *D1*								
	FCL *D2*	4.5	9.100	30.0	7.6				
	FCL *D3*	2.9	9.100	31.0	7.6				
	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:** August 3, 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
PLANT NAME OR NUMBER: Navarro Mills
PWS ID No.: 1750002
Month: July **Year:** 2009

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*	4.7	9.100	31.0	7.5				
	FCL *D3*	3.4	9.100	32.0	7.5				
	D4								
	D5								
18	NA *D1*								
	FCL *D2*	4.5	9.000	30.0	7.6				
	FCL *D3*	3.2	9.000	31.0	7.6				
	D4								
	D5								
19	NA *D1*								
	FCL *D2*	3.6	9.100	30.0	7.5				
	FCL *D3*	2.8	9.100	30.0	7.5				
	D4								
	D5								
20	NA *D1*								
	FCL *D2*	4.5	9.100	30.0	7.5				
	FCL *D3*	3.0	9.100	30.0	7.4				
	D4								
	D5								
21	NA *D1*								
	FCL *D2*	3.7	5.000	29.0	7.5				
	FCL *D3*	3.3	5.000	29.0	7.4				
	D4								
	D5								
22	NA *D1*								
	FCL *D2*	4.1	9.200	29.0	7.5				
	FCL *D3*	2.8	9.200	29.0	7.4				
	D4								
	D5								
23	NA *D1*								
	FCL *D2*	4.1	9.200	29.0	7.6				
	FCL *D3*	2.7	9.200	29.0	7.5				
	D4								
	D5								
24	NA *D1*								
	FCL *D2*	3.2	5.100	29.0	7.4				
	FCL *D3*	2.9	5.100	29.0	7.5				
	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*	2.1	9.100	30.0	7.8				
	FCL *D3*	2.7	9.100	29.0	7.6				
	D4								
	D5								
26	NA *D1*								
	FCL *D2*	4.5	9.100	30.0	7.6				
	FCL *D3*	3.4	9.100	29.0	7.6				
	D4								
	D5								
27	NA *D1*								
	FCL *D2*	4.4	9.200	29.0	7.6				
	FCL *D3*	3.4	9.200	29.0	7.5				
	D4								
	D5								
28	NA *D1*								
	FCL *D2*	4.1	5.100	28.0	7.6				
	FCL *D3*	2.9	5.100	29.0	7.5				
	D4								
	D5								
29	NA *D1*								
	FCL *D2*	4.2	9.200	28.0	7.9				
	FCL *D3*	2.7	9.200	29.0	7.7				
	D4								
	D5								
30	NA *D1*								
	FCL *D2*	4.2	9.200	28.0	7.8				
	FCL *D3*	2.8	9.200	29.0	7.7				
	D4								
	D5								
31	NA *D1*								
	FCL *D2*	3.7	9.200	29.0	7.7				
	FCL *D3*	2.4	9.200	29.0	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:** August 3, 2009