

Bush Brothers & Company #3
3304 Chestnut Hill Road
Dandridge, TN 37725
PWSID # 0004415
Daily Operational Report 2024

Date	Wat. Treated, 1000 Gal.		Temp. Celsius	Turb. Raw	Finished Water Turbidity						Chlorine Residual		Chlorine, LBS.		Alkalinity		pH	
	Raw	Finished			12-4	4-8	8-12	12-4	4-8	8-12	Raw	Effluent	Pre	Post	Raw	Finished	Raw	Finished
1-Feb	1497.7	"	9	5.58	0.12	0.13	0.13	0.12	0.13	0.13	0.2	2.1	1.9	38.1	177	170	7.6	7.5
2-Feb	1913.8	"	10	4.99	0.16	0.13	0.12	0.11	0.12	0.13	0.0	2.0	2.6	50.8	173	170	7.6	7.5
3-Feb	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4-Feb	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5-Feb	1199.6	"	9	3.78	0.18	0.16	0.14	0.13	0.11	0.10	0.4	2.4	7.5	37.1	181	174	7.6	7.6
6-Feb	1350.0	"	9	3.47	0.11	0.14	0.14	0.12	0.11	0.11	0.4	2.4	5.5	42.5	182	174	7.6	7.6
7-Feb	1409.3	"	9	3.07	0.14	0.16	0.15	0.14	0.12	0.13	0.5	2.3	5.7	40.2	171	161	7.6	7.6
8-Feb	1364.9	"	9	2.65	0.11	0.09	0.07	0.10	0.10	0.12	0.3	2.4	5.8	38.9	172	164	7.6	7.6
9-Feb	1575.7	"	10	2.69	0.15	0.16	0.15	0.13	0.11	0.11	0.0	2.4	0.0	38.3	177	168	7.6	7.6
10-Feb	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11-Feb	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12-Feb	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13-Feb	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14-Feb	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15-Feb	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16-Feb	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17-Feb	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18-Feb	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19-Feb	1477.4	"	8	5.17	0.37	0.20	0.26	0.13	0.25	0.26	0.8	2.0	25.4	38.0	180	170	7.6	7.5
20-Feb	1514.6	"	9	5.23	0.22	0.18	0.21	0.19	0.19	0.24	1.0	2.2	27.6	38.5	184	174	7.6	7.5
21-Feb	1530.9	"	10	5.59	0.22	0.22	0.24	0.20	0.22	0.25	1.1	2.2	26.8	41.9	189	182	7.6	7.5
22-Feb	1477.5	"	10	4.75	0.22	0.24	0.24	0.21	0.22	0.19	1.2	2.2	28.2	39.7	189	179	7.6	7.5
23-Feb	2121.9	"	10	4.88	0.20	0.30	0.30	0.24	0.23	0.24	0.0	2.2	12.1	56.2	185	181	7.6	7.5
24-Feb	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
25-Feb	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
26-Feb	1488.8	"	11	4.19	0.28	0.27	0.21	0.07	0.09	0.23	1.2	2.1	22.9	37.9	180	174	7.6	7.5
27-Feb	1238.6	"	12	4.35	0.16	0.13	0.11	0.11	0.11	0.11	0.0	2.1	1.8	32.1	183	174	7.6	7.6
28-Feb	1479.4	"	12	3.59	0.12	0.13	0.14	0.12	0.12	0.16	0.2	2.4	9.1	33.4	180	176	7.6	7.6
29-Feb	1554.0	"	11	3.18	0.15	0.15	0.14	0.13	0.11	0.13	0.2	1.9	8.8	37.1	184	181	7.6	7.6
Total	24194.1	"	158	67.16	2.91	2.79	2.75	2.25	2.34	2.64	7.5	35.3	191.7	640.7	2887	2772	121.6	120.8
Avg.	1512.1	"	10	4.20	0.18	0.17	0.17	0.14	0.15	0.17	0.5	2.2	12.0	40.0	180	173	7.6	7.6
Max.	2121.9	"	12	5.59	0.37	0.30	0.30	0.24	0.25	0.26	1.2	2.4	28.2	56.2	189	182	7.6	7.6
Min.	1199.6	"	8	2.65	0.11	0.09	0.07	0.07	0.09	0.10	0.0	1.9	0.0	32.1	171	161	7.6	7.5

*Non-operational date.

Daniel Fullington

Daniel Fullington WT-2

Bush Brothers & Co. #3 Water System
PWSID # 0004415
Dandridge, TN 37725
DISINFECTION PROFILE

2024

Enter Baffling Factor for Stage 1: 0.70
 Enter Baffling Factor for Stage 2: 1.00

Feb-24

Sample Date	Treatment Stage	Disinfectant	Residual Conc. (mg/L)	pH	Temp. (Celsius)	Peak Flow (GPM)	Vol. Min. (gal)	TDT (min)	T10 (min)	CT calc	CT Req	IR	Total IR
2/1/2024	1. First sequence	Free Chlorine	0.20	7.60	9.0	1,963	56,000	28.5	20.0	4.0	46.1	0.09	
	2. Second sequence	Free Chlorine	2.10	7.50	9.0	57	56,000	982.5	982.5	2,063.2	54.1	38.14	38.23
2/2/2024	1. First sequence	Free Chlorine	0.00	7.60	10.0	2,137	56,000	26.2	18.3	0.0	0.0	#DIV/0!	
	2. Second sequence	Free Chlorine	2.00	7.50	10.0	75	56,000	746.7	746.7	1,493.3	50.1	29.81	29.81
2/5/2024	1. First sequence	Free Chlorine	0.40	7.60	9.0	1,557	56,000	36.0	25.2	10.1	46.1	0.22	
	2. Second sequence	Free Chlorine	2.40	7.60	9.0	95	56,000	589.5	589.5	1,414.7	57.9	24.43	24.65
2/6/2024	1. First sequence	Free Chlorine	0.40	7.60	9.0	1,889	56,000	29.6	20.8	8.3	46.1	0.18	
	2. Second sequence	Free Chlorine	2.40	7.60	9.0	65	56,000	861.5	861.5	2,067.7	57.9	35.71	35.89
2/7/2024	1. First sequence	Free Chlorine	0.50	7.60	9.0	1,967	56,000	28.5	19.9	10.0	46.7	0.21	
	2. Second sequence	Free Chlorine	2.30	7.60	9.0	58	56,000	965.5	965.5	2,220.7	57.4	38.69	38.90
2/8/2024	1. First sequence	Free Chlorine	0.30	7.60	9.0	1,879	56,000	29.8	20.9	6.3	46.1	0.14	
	2. Second sequence	Free Chlorine	2.40	7.60	9.0	55	56,000	1,018.2	1,018.2	2,443.6	58.0	42.13	42.27
2/9/2024	1. First sequence	Free Chlorine	0.00	7.60	10.0	1,959	56,000	28.6	20.0	0.0	0.0	#DIV/0!	
	2. Second sequence	Free Chlorine	2.40	7.60	10.0	56	56,000	1,000.0	1,000.0	2,400.0	54.3	44.20	44.20
2/19/2024	1. First sequence	Free Chlorine	0.80	7.60	8.0	2,149	56,000	26.1	18.2	14.6	51.5	0.28	
	2. Second sequence	Free Chlorine	2.00	7.50	8.0	100	56,000	560.0	560.0	1,120.0	56.8	19.72	20.00
2/20/2024	1. First sequence	Free Chlorine	1.00	7.60	9.0	1,984	56,000	28.2	19.8	19.8	49.6	0.40	
	2. Second sequence	Free Chlorine	2.20	7.50	9.0	116	56,000	482.8	482.8	1,062.1	54.6	19.45	19.85
2/21/2024	1. First sequence	Free Chlorine	1.10	7.60	10.0	2,056	56,000	27.2	19.1	21.0	42.0	0.50	
	2. Second sequence	Free Chlorine	2.20	7.50	10.0	64	56,000	875.0	875.0	1,925.0	51.2	37.60	38.10
2/22/2024	1. First sequence	Free Chlorine	1.20	7.60	10.0	1,788	56,000	31.3	21.9	26.3	47.6	0.55	
	2. Second sequence	Free Chlorine	2.20	7.50	10.0	64	56,000	875.0	875.0	1,925.0	51.2	37.60	38.15
2/23/2024	1. First sequence	Free Chlorine	0.00	7.60	10.0	1,948	56,000	28.7	20.1	0.0	0.0	#DIV/0!	
	2. Second sequence	Free Chlorine	2.20	7.50	10.0	63	56,000	888.9	888.9	1,955.6	51.2	38.19	38.19
2/26/2024	1. First sequence	Free Chlorine	1.20	7.60	11.0	2,102	56,000	26.6	18.6	22.4	44.3	0.51	
	2. Second sequence	Free Chlorine	2.10	7.50	11.0	63	56,000	888.9	888.9	1,866.7	47.1	39.63	40.14
2/27/2024	1. First sequence	Free Chlorine	0.00	7.60	12.0	1,926	56,000	29.1	20.4	0.0	0.0	#DIV/0!	
	2. Second sequence	Free Chlorine	2.10	7.60	12.0	75	56,000	746.7	746.7	1,568.0	45.3	34.61	34.61
2/28/2024	1. First sequence	Free Chlorine	0.20	7.60	12.0	2,041	56,000	27.4	19.2	3.8	37.1	0.10	
	2. Second sequence	Free Chlorine	2.40	7.60	12.0	67	56,000	835.8	835.8	2,006.0	46.7	42.95	43.05
2/29/2024	1. First sequence	Free Chlorine	0.20	7.60	11.0	2,058	56,000	27.2	19.0	3.8	40.1	0.10	
	2. Second sequence	Free Chlorine	1.90	7.60	11.0	60	56,000	933.3	933.3	1,773.3	47.9	37.02	37.12
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	2. Second sequence	Free Chlorine					56,000	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	
	1. First sequence	Free Chlorine					56,000	#DIV/0					