

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF WATER POLLUTION CONTROL

REPORT OF OPERATION ON WASTEWATER TREATMENT

PLANT Bush Brother's & Company Spray Irrigation

COUNTY Jefferson

MONTH OF December YEAR 2022

DATE	RAINFALL (0.1")	INFLUENT FLOW (MGD)	INFLUENT MAX FLOW (MGD)	EFFLUENT FLOW (MGD)	HOURS BYPASSED	TEMPERATURE INFLUENT (C)	TEMPERATURE EFFLUENT (C)	5 DAY CBOD / BOD					AMMONIA NITROGEN				SUSPENDED SOLIDS				SETTLABLE SOLIDS		DISSOLVED OXYGEN		pH		FINAL EFFLUENT				
								INFLUENT (mg/L)	EFFLUENT (mg/L)	(mg/L)	EFFLUENT (POUNDS)	PERCENT	REMOVAL	INFLUENT (mg/L)	EFFLUENT (mg/L)	EFFLUENT (POUNDS)	PERCENT	REMOVAL	INFLUENT (mg/L)	EFFLUENT (mg/L)	EFFLUENT (POUNDS)	PERCENT	REMOVAL	INFLUENT (mg/L)	EFFLUENT (mg/L)	INFLUENT (mg/L)	EFFLUENT (mg/L)	INFLUENT (STANDARD UNITS)	EFFLUENT (STANDARD UNITS)	E. coli	TOTAL CHLORINE RESIDUAL (mg/L)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1				0.9938																											
2				1.0590																											
3				0.7712																											
4				0.0691																											
5				1.0829																											
6				1.0235																											
7				1.0400																											
8				0.9536																											
9				1.0212																											
10				0.9189																											
11				0.0244																											
12				1.0893																											
13				1.1256																											
14				1.2858																											
15				1.2452																											
16				1.2965																											
17				0.7951																											
18				0.0038																											
19				0.9376																											
20				0.8801																											
21				0.7883																											
22				0.3289																											
23				0.2543																											
24				0.4660																											
25				0.4358																											
26				0.4980																											
27				0.7315																											
28				0.5209																											
29				0.5059																											
30				0.8513																											
31				0.0000																											
TOTAL																															
AVERAGE																															
MAXIMUM																															
MINIMUM																															

REMARKS \_\_\_\_\_ CERTIFIED OPERATOR SIGNATURE Tony Doehner CERTIFICATION NO. 13111 GRADE 2

\* UNABLE to report BODS AND nitrate results. \*  
 SAMPLES were collected on 12-14-22 AND delivered  
 to Microbac in Maryville. The LAB lost the samples  
 AND there was not enough time to resample.



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF WATER POLLUTION CONTROL

FACILITY Sanitary Drip Irrigation NPDES PERMIT NO. 37-14018  
 PERMITTEE Rush Brothers & Company MONTH October 2022  
 CITY Dandridge COUNTY Jefferson

MOR/DMR

MONTHLY OPERATION REPORT FOR PACKAGE TREATMENT PLANTS

DATE	TIME OF SAMPLING	WASTEWATER FLOW (gpd)	INFLUENT		OPERATION TESTS				EFFLUENT							SLUDGE DISPOSAL		COMMENTS ABOUT OPERATION AND COMPLIANCE	
			BOD <sub>5</sub> (mg/l)	SUSPENDED SOLIDS (mg/l)	MIXED LIQUOR SUSPENDED SOLIDS (mg/l)	MIXED LIQUOR SETTLEABLE SOLIDS CYLINDER (ml/l)	AERATION TANK DISSOLVED OXYGEN (mg/l)	CLARIFIER SLUDGE DEPTH OF BED (thickness in ft)	BOD <sub>5</sub> (mg/l)	SUSPENDED SOLIDS (mg/l)	SETTLEABLE SOLIDS IMHOFF CONE (ml/l)	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (organisms/100 ml)	AMMONIA NITROGEN (mg/l)	pH (standard units)	VOLUME FROM CLARIFIER TO HOLDING TANK (gal)		VOLUME FROM HOLDING TANK TO FINAL DISPOSAL (gal)
1		9410																	
2		7250																	
3		4810																	
4		2440																	
5		5210																	
6		8370																	
7		8360																	
8		8330																	
9		5540																	
10		6970																	
11		7300																	
12		10890																	
13		12210																	
14		10660																	
15		9970																	
16		6900																	
17		11000																	
18		13910																	
19		13150																	
20		13100																	
21		11520																	
22		9400																	
23		6530																	
24		8330																	
25		10820																	
26		11980																	
27		11090																	
28		11920																	
29		9200																	
30		6440																	
31		8160																	
TOTAL		281590																	
PERMIT AVG. LIMIT											MIN			200				6.0 MIN	
ACTUAL AVG. VALUE		9084									MIN							MIN	
PERMIT MAX. LIMIT														1000				9.0	
ACTUAL MAX. VALUE		13910																	
PERMIT FREQUENCY OF ANALYSIS		cont																	
ACTUAL FREQUENCY OF ANALYSIS		cont																	
PERMIT SAMPLE TYPE		cont	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	
ACTUAL SAMPLE TYPE		cont																	
NO OF VIOLATIONS																			

Please document important events such as discharges of untreated waste water, down equipment or plant upsets which may impact effluent quality. Also state method of sludge disposal.

I certify that the submitted information is accurate and complete. I further certify that all sampling was performed in accordance with approved procedures and all analyses were performed in accordance with 40 CFR Part 136. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SIGNATURE OF OPERATOR [Signature] DATE 1/5/2023  
 LICENSE NO. 3039 PHONE NO. 865-589-0217  
 ANALYSES PERFORMED BY OUTSIDE LABORATORY: none  
 LABORATORY USED: N/A  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER Tony Dochow DATE 1/6/2023

JAN 11 2023



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF WATER POLLUTION CONTROL

FACILITY Sanitary Drip Irrigation NPDES PERMIT NO. SA-14018  
PERMITTEE Bush Brothers & Company MONTH November 2022  
CITY Dandridge COUNTY Jefferson

MOR/DMR

MONTHLY OPERATION REPORT FOR PACKAGE TREATMENT PLANTS

DATE	TIME OF SAMPLING	WASTEWATER FLOW (gpd)	INFLUENT		OPERATION TESTS				EFFLUENT							SLUDGE DISPOSAL		COMMENTS ABOUT OPERATION AND COMPLIANCE	
			BOD <sub>5</sub> (mg/l)	SUSPENDED SOLIDS (mg/l)	MIXED LIQUOR SUSPENDED SOLIDS (mg/l)	MIXED LIQUOR SETTLEABLE SOLIDS CYLINDER (ml/l)	AERATION TANK DISSOLVED OXYGEN (mg/l)	CLARIFIER SLUDGE DEPTH OF BED (thickness in ft)	BOD <sub>5</sub> (mg/l)	SUSPENDED SOLIDS (mg/l)	SETTLEABLE SOLIDS IMHOFF CONE (ml/l)	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (organisms/100 ml)	AMMONIA NITROGEN (mg/l)	pH (standard units)	VOLUME FROM CLARIFIER TO HOLDING TANK (gal)		VOLUME FROM HOLDING TANK TO FINAL DISPOSAL (gal)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
1		10030																	
2		11500																	
3		11510																	
4		11420																	
5		10880																	
6		11000																	
7		11000																	
8																			
9																			Shut system down. Adenis changed out operating system on I/O panel. They did not connect flow meter log back.
10		11,000																	
11		11,000																	Got flow meter hooked up but scale is off Adenis trying to set scale. All flows are estimated Aug until we can get them for it.
12		11,000																	
13		11,000																	
14		11,000																	
15		11,000																	
16		11,000																	
17		11,000																	
18		11,000																	
19		11,000																	
20		11,000																	
21		11,000																	
22		11,000																	
23		11,000																	
24		11,000																	
25		11,000																	
26		11,000																	
27		11,000																	
28		11,000																	
29		11,000																	
30		11,000																	
31																			
TOTAL		297340																	
PERMIT AVG LIMIT												MIN		200					6.0 MIN
ACTUAL AVG VALUE		11023										MIN							MIN
PERMIT MAX LIMIT																			9.0
ACTUAL MAX VALUE		11510																	
PERMIT FREQUENCY OF ANALYSIS		cont																	
ACTUAL FREQUENCY OF ANALYSIS		cont																	
PERMIT SAMPLE TYPE		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
ACTUAL SAMPLE TYPE		Est																	
NO OF VIOLATIONS																			

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SIGNATURE OF OPERATOR [Signature] DATE 1/5/2023  
 LICENSE NO. 3039 PHONE NO. 865-509-0217  
 ANALYSES PERFORMED BY OUTSIDE LABORATORY. none  
 LABORATORY USED NA  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER [Signature] DATE 1/6/2023



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
DIVISION OF WATER POLLUTION CONTROL

FACILITY Sanitary Drip Irrigation NPDES PERMIT NO. SP-14018  
PERMITTEE Dish Brothers & Company MONTH December 2022  
CITY Dandridge COUNTY Jefferson

MONTHLY OPERATION REPORT FOR PACKAGE TREATMENT PLANTS

MOR/DMR

DATE	TIME OF SAMPLING	WASTEWATER FLOW (gpd)	INFLUENT		OPERATION TESTS				EFFLUENT							SLUDGE DISPOSAL		COMMENTS ABOUT OPERATION AND COMPLIANCE	
			BOD <sub>5</sub> (mg/l)	SUSPENDED SOLIDS (mg/l)	MIXED LIQUOR SUSPENDED SOLIDS (mg/l)	MIXED LIQUOR SETTLEABLE SOLIDS CYLINDER (ml/l)	AERATION TANK DISSOLVED OXYGEN (mg/l)	CLARIFIER SLUDGE DEPTH OF BED (thickness in ft)	BOD <sub>5</sub> (mg/l)	SUSPENDED SOLIDS (mg/l)	SETTLABLE SOLIDS IMHOFF CONE (ml/h)	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (organisms/100 ml)	AMMONIA NITROGEN (mg/l)	pH (standard units)	VOLUME FROM CLARIFIER TO HOLDING TANK (gal)		VOLUME FROM HOLDING TANK TO FINAL DISPOSAL (gal)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
1		11,000																	
2		11,000																	
3		11,000																	
4		11,000																	
5		11,000																	
6		11,000																	
7		11,000																	
8		11,000																	
9		11,000																	
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24		11,000																	
25		11,000																	
26		11,000																	
27		11,000																	
28		11,000																	
29		11,000																	
30		11,000																	
31		11,000																	
TOTAL		341,000																	
PERMIT AVG. LIMIT												MIN		200				6.0 MIN	
ACTUAL AVG VALUE		11,000										MIN						MIN	
PERMIT MAX LIMIT																			9.0
ACTUAL MAX VALUE		11,000																	
PERMIT FREQUENCY OF ANALYSIS		cont																	
ACTUAL FREQUENCY OF ANALYSIS		cont																	
PERMIT SAMPLE TYPE		cont	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB			
ACTUAL SAMPLE TYPE		EST																	
NO OF VIOLATIONS																			

Still trying to get Adenus to scale Flow Meter correctly.

I certify that the submitted information is accurate and complete. I further certify that all sampling was performed in accordance with approved procedures and all analyses were performed in accordance with 40 CFR Part 136. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SIGNATURE OF OPERATOR [Signature] DATE 1/5/2023  
 LICENSE NO. 3039 PHONE NO. 805-509-0217  
 ANALYSES PERFORMED BY OUTSIDE LABORATORY. Ammonia as N  
 LABORATORY USED Microbac Lab in Murfreesboro TN  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER Terry Doohan DATE 1/4/2023