



JIM STRICKLAND
MAYOR

DIVISION OF PUBLIC WORKS

MAYNARD C. STILES WASTEWATER TREATMENT PLANT

TENNESSEE

September 13, 2021

Certified Mail No. 7018 1830 0001 3273 7025
Return Receipt Requested

Attn.: Ms. Jessica Murphey
Compliance Review Section
Tennessee Department of Conservation and Environment
Division of Water Resources
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, TN 37243

RE: Chapel Hill Package Plant Monthly MOR for August 2021

Dear Ms. Murphey:

Enclosed are the documents referenced above. During the month of August 2021, the Chapel Hill Package Plant had no permit violations.

Note that we submitted the August 2021 DMR for the Chapel Hill Package Plant electronically via the NetDMR system. If you have any questions concerning these reports, please contact me at (901) 636-4302.

Sincerely,

Jack Mark Keith
M.C. Stiles WWTF Operations Manager

cc: Scott Morgan, Environmental Administrator
Joel Lynn Brazile, TDEC Memphis Field Office, Manager

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER POLLUTION CONTROL

FACILITY Chapel Hill NPDES PERMIT NO. TN0026361
 PERMITTEE City of Memphis MONTH August 2021
 CITY Memphis COUNTY Shelby

MOR/DMR MONTHLY OPERATION REPORT FOR PACKAGE TREATMENT PLANTS

DATE	TIME OF SAMPLING	WASTEWATER FLOW (GPD) in 1000 gallons	INFLUENT		OPERATION TESTS								EFFLUENT					SLUDGE DISPOSAL		COMMENTS ABOUT OPERATION AND COMPLIANCE
			CBOD ₅ (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)	TOTAL PHOSPHORUS	CBOD ₅ (mg/l)	SUSPENDED SOLIDS (mg/l)	SETTLABLE SOLIDS IMPHOFF CONE (ml/l)	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	E. COLI (ORGANISMS/100 ML)	AMMONIA NITROGEN (mg/l)	TOTAL PHOSPHORUS	pH (standard units)	VOLUME FROM CLARIFIER TO HOLDING TANK (gal)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			18	19	
1																				
2	10:45	7.8			1,620	120	0.2	5.0			0.5	7.5	0.01						6.88	
3	10:00	7.8				250	0.5	2.0			0.5	9.2	0.01						7.11	
4	10:00	6.6			3,420	200	2.6	1.0			0.5	8.2	0.01						7.47	
5	10:00	8.4				230	1.0	1.0			0.5	7.6	0.01						7.52	
6	10:00	7.2			3,600	240	1.7	2.0			0.5	7.4	0.01						7.43	
7																				
8																				
9	10:00	8.2			4,550	300	0.7	2.5			0.5	7.4	0.01						7.07	
10	10:00	7.2				300	1.7	1.5			0.5	7.0	0.01						7.45	
11	9:08	6.6	174	70	3,417	260	1.6	2.0	5	2	0.5	8.1	0.01	4.00	0.13				7.64	
12	10:00	8.4				250	0.7	2.0			0.5	7.7	0.01						7.64	
13	10:50	9.0			4,400	250	1.2	2.0			0.5	7.5	0.01						7.59	
14																				
15																				
16	10:00	8.2			2,940	190	1.2	3.0			0.5	7.8	0.01						7.28	
17	9:30	7.2				220	1.7	1.5			0.5	8.5	0.01						7.19	
18	10:00	8.4	208	135	2,390	180	1.8	1.0	4.0	4	3	0.5	7.5	0.01	1.00	0.10	3.99		7.73	
19	9:30	7.2				180	2.5	1.5			0.5	7.7	0.01						7.29	
20	9:30	10.2			3,688	270	0.9	1.5			0.5	7.7	0.01						7.06	
21																				
22																				
23	9:30	8.0			3,863	280	3.9	1.5			0.5	7.8	0.01						6.45	
24	9:00	6.6				290	3.7	1.0			0.5	7.9	0.01						6.76	
25	8:45	6.6			3,860	260	3.8	1.0			0.5	7.6	0.01						6.47	
26	9:30	7.8				260	3.2	1.0			0.5	8.0	0.01						6.26	
27	9:00	6.0			3,390	240	3.8	1.0			0.5	7.1	0.01						6.08	
28																				
29																				
30	9:30	7.8			2,790	190	0.3	1.5			0.5	6.1	0.01						6.15	
31	9:00	7.2				200	1.7	1.0			0.5	7.0	0.01						6.67	
TOTAL		168.4	382	205					9	5				5	0.23					
PERMIT AVO LIMIT									10	30		5.0 MIN		125	5.0				5.0 MIN	
ACTUAL AVO VALUE		7.7	191	103					5	3		6.1 MIN		3	0.12				6.1 MIN	
PERMIT MAX LIMIT									20	45	1.0		0.8	941	10.0				9.0 MAX	
ACTUAL MAX LIMIT		10.2	208	136					5	3	0.5		0.01	4	0.13				7.73	
PERMIT FREQUENCY OF ANALYSIS		5/wk	2/mo	2/mo	5/wk	5/wk			2/mo	2/mo	2/wk	5/wk	5/wk	2/mo	2/mo				2/wk	
ACTUAL FREQUENCY OF ANALYSIS		5/wk	2/mo	2/mo	5/wk	5/wk			2/mo	2/mo	2/wk	5/wk	5/wk	2/mo	2/mo				2/wk	
PERMIT SAMPLE TYPE		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	
ACTUAL SAMPLE TYPE		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	
NO. OF VIOLATIONS									0	0	0	0	0	0	0	0	0	0	0	

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 Mark Keith DATE 9-13-2021
 LICENSE NO. 1770 PHONE NO. 901-636-4335
 ANALYSIS PERFORMED BY OUTSIDE LABORATORY NH3-N
 LABORATORY USED Environmental Testing and Consulting, Inc.
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER [Signature] DATE 9/14/21