



700 West Liberty Street | Louisville, KY 40203-1911  
Phone: 502.540.6000 | LouisvilleMSD.org

October 19, 2020

Ms. Crystal Dennis  
Kentucky Division of Water  
200 Fair Oaks Lane  
Frankfort, Kentucky 40601

**Re: Derek Guthrie Water Quality Treatment Center  
KPDES Permit No. KY0078956,  
Discharge monitoring report for September 2020.**

Dear Ms. Crystal Dennis:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Derek Guthrie WQTC, KPDES No: KY0078956, for the month of September 2020.

There were no exceedances, overflow or bypass reports for the Derek Guthrie WQTC.

Also attached is the 3<sup>rd</sup> quarter biomonitoring NETDMR.

If you have any questions concerning the attached DMR's, please contact me at (502)540-6031.  
Sincerely,

Kevin Thompson  
Process Supervisor, West Region

KLT/West County 09/20  
Enclosures

cc: C. Roth  
V. Graves  
R. Shaw

## DMR Copy of Record

Permit																		
Permit #:		KY0078956			Permittee:				Derek R Guthrie WQTC MSD				Facility:		DEREK R GUTHRIE WQTC MSD			
Major:		Yes			Permittee Address:				700 W Liberty St Louisville, KY 40203				Facility Location:		11621 LOWER RIVER RD LOUISVILLE, KY 40272			
Permitted Feature:		001 External Outfall			Discharge:				001-2 QUARTERLY BIOMONITORING									
Report Dates & Status																		
Monitoring Period:		From 07/01/20 to 09/30/20			DMR Due Date:				10/28/20				Status:		NetDMR Validated			
Considerations for Form Completion																		
Principal Executive Officer																		
First Name:		James A.			Title:				Executive Director				Telephone:		502-540-6000			
Last Name:		Parrott																
No Data Indicator (NODI)																		
Form NODI:		--																
Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type
						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3			
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample						<	1.0		2F - tox acute	0	01/90 - Quarterly	24 - COMP24	
					Permit Req.						<=	1.0 MAXIMUM		2F - tox acute		01/90 - Quarterly	24 - COMP24	
					Value NODI													
Submission Note																		
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.																		
Edit Check Errors																		
No errors.																		
Comments																		
Attachments																		
No attachments.																		
Report Last Saved By																		
Derek R Guthrie WQTC MSD																		
User:		kevin.thompson@louisvillemsd.org																
Name:		Kevin Thompson																
E-Mail:		kevin.thompson@louisvillemsd.org																
Date/Time:		2020-10-20 09:57 (Time Zone: -04:00)																
Report Last Signed By																		
User:		kevin.thompson@louisvillemsd.org																
Name:		Kevin Thompson																
E-Mail:		kevin.thompson@louisvillemsd.org																
Date/Time:		2020-10-22 08:52 (Time Zone: -04:00)																



80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	2109.0	=	3138.0	26 - lb/d	=	6.0	=	7.0	19 - mg/L	0	01/01 - Daily	24 - COMP24	
					Permit Req.	<=	15021.0 MO AVG	<=	22532.0 MX WK AV	26 - lb/d	<=	30.0 MO AVG	<=	45.0 MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24	
					Value NODI														
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	--	Sample						=	206.0	=	250.0	19 - mg/L	0	01/01 - Daily	24 - COMP24	
					Permit Req.							Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24	
					Value NODI														
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample					=	97.0				23 - %	0	01/30 - Monthly	CA - CALCTD	
					Permit Req.							>=	85.0 MO AV MN				23 - %	01/30 - Monthly	CA - CALCTD
					Value NODI														
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample					=	98.0				23 - %	0	01/30 - Monthly	CA - CALCTD	
					Permit Req.							>=	85.0 MO AV MN				23 - %	01/30 - Monthly	CA - CALCTD
					Value NODI														

**Submission Note**

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

**Edit Check Errors**

No errors.

**Comments**

**Attachments**

Name	Type	Size
202009_DRG_MOR.pdf	pdf	125082.0
202009_DRG_coverletter.pdf	pdf	35993.0

**Report Last Saved By**

Derek R Guthrie WQTC MSD

User: kevin.thompson@louisvillemsd.org  
 Name: Kevin Thompson  
 E-Mail: kevin.thompson@louisvillemsd.org  
 Date/Time: 2020-10-20 09:57 (Time Zone: -04:00)

**Report Last Signed By**

User: kevin.thompson@louisvillemsd.org  
 Name: Kevin Thompson  
 E-Mail: kevin.thompson@louisvillemsd.org  
 Date/Time: 2020-10-22 08:51 (Time Zone: -04:00)

Name of Sewage Treatment Plant: West County WTP Jefferson County Month of: September 2020  
 KPDES Permit Number: KY0078956 Plant Capacity: 30 MGD Receiving Stream: Ohio River

Date	Total Flow (MG)	Raw Sewage		pH		Settleable Solids (mL/L)			Dissolved Oxygen (mg/L)			Suspended Solids (mg/L)			Total Solids (mg/L)			5-day BOD (mg/L)			Activated Sludge		Aeration Basin						Phosphorus (mg/L)		Final			Total (mg/L)		Cr +6 (mg/L)			
		Removed (cu. ft.)	Screenings (cu. ft.)	Raw	Final	Raw	Primary (or Sec.)	Final	Stream Above	Final	Stream Below	Raw	Primary (or Sec.)	Final	Raw	Primary (or Sec.)	Final	Raw	Primary (or Sec.)	Final	Raw	MLSS (mg/L) X 1000	WAS (mg/L) X 1000	Oxygen (mg/L) #1	Oxygen (mg/L) #2	(mg/L) X 1000 #1&#2	MLVSS (mg/L) X 1000	30 min. SVI	60 min. SVI	% Solids	Raw	Final	Chlorine Residual (mg/L)	NH3-N (mg/L)	E. Coli (MPN)	Raw	Final	Final	
1	42.41			7.3	7.4					7.0			236.0		10.0			181.0	8.0	6180					4780	3840	150			5.65	2.31	0.016	0.96	41	27	11			
2	58.24			7.2	7.2					7.0			247.0		8.0		193.0	10.0	5560						4060	3340	150					0.016	0.85	2					
3	115.29			7.1	6.7					7.0			224.0		14.0		95.0	8.0	5560						2180	1780	110					0.016	0.46	17					
4	102.03			7.1	7.4					7.0			588.0		3.0		300.0	3.0	4480						1680	1280	100					0.016	0.48	2					
5	62.40			7.2	7.3					7.0			202.0		3.0		128.0	3.0	6500						3020	2320	180					0.016	0.20	15					
6	51.81			7.0	7.2					7.0			164.0		6.0		100.0	3.0	6140						3560	2840	190					0.016	0.28	2					
7	47.03			6.9	7.2					7.0			82.0		5.0		75.0	3.0	5760						3170	2460	190					0.016	0.41	4					
8	43.38			7.0	7.2					7.0			256.0		5.0		139.0	4.0	5120						2900	2280	180		6.13	2.30	0.016	0.33	10	30	13				
9	43.48			7.4	7.1					7.0			308.0		6.0		190.0	4.0	2100						1540	1140	100					0.016	0.44	2					
10	39.44			7.5	7.3					7.0			220.0		6.0		124.0	4.0	5120						3160	2500	190					0.016	0.46	20					
11	37.60			7.2	7.7					7.0			280.0		5.0		173.0	4.0	5460						3800	2840	190					0.016	0.57	4					
12	38.35			7.3	7.4					7.0			352.0		6.0		244.0	4.0	5420						2880	2220	190					0.016	0.32	32					
13	36.05			7.0	7.6					7.0			280.0		6.0		157.0	4.0	5360						2920	2540	190					0.016	0.35	2					
14	35.32			7.2	7.5					7.0			388.0		4.0		204.0	4.0	5600						3800	2960	180					0.016	0.54	4					
15	34.91			7.0	7.2					7.0			352.0		6.0		192.0	9.0	6700						3980	3140	170		5.16	2.13	0.016	0.97	2	28	13				
16	33.24			7.1	7.3					7.0			468.0		6.0		332.0	5.0	4920						2940	2400	200					0.016	0.89	145					
17	33.48			7.5	7.2					7.0			320.0		6.0		217.0	5.0	5240						2780	2240	170					0.016	0.97	2					
18	32.63			7.0	7.3					7.0			396.0		7.0		304.0	8.0	5640						3120	2440	180					0.016	1.50	2					
19	30.71			7.1	7.1					7.0			360.0		7.0		204.0	6.0	5580						2440	1860	160					0.016	0.62	2					
20	30.81			7.2	7.3					7.0			320.0		6.0		228.0	6.0	5480						2760	2160	165					0.016	0.86	27					
21	30.89			7.0	7.3					7.0			444.0		5.0		275.0	6.0	4620						2640.00	2100	160					0.016	0.94	6		222			
22	31.03			7.4	7.2					7.0			332.0		8.0		246.0	7.0	4580						2480	1980	160		7.00	2.50	0.016	1.00	4	32	16	0.005			
23	31.41			7.0	7.1					7.0			324.0		5.0		234.0	6.0	4980						2400.00	1940	160					0.016	0.91	2					
24	31.07			7.0	7.3					7.0			408.0		6.0		253.0	11.0	4260						2240	1800	150					0.016	1.60	9					
25	30.44			7.0	7.1					7.0			392.0		3.0		228.0	10.0	5100						3500	2720	170					0.016	1.70	2					
26	30.37			7.0	7.2					7.0			184.0		4.0		128.0	6.0	5200						3080	2500	180					0.016	1.40	21					
27	30.24			7.0	7.0					7.0			364.0		5.0		256.0	5.0	4720						2880	2330	160					0.016	1.40	2					
28	33.69			7.1	7.3					7.0			396.0		6.0		280.0	6.0	4480						2900	2340	160					0.016	2.30	2					
29	33.50			7.3	7.2					7.0			392.0		5.0		114.0	13.0	4880						4120	3200	190					0.016	2.20	2					
30	33.74			7.3	7.0					7.0			692.0		8.0		379.0	11.0	4000						4780	3800	190					0.016	2.60	2					
31																																							
Total	1265.0	0	0																0.0		0.0																		
Avg.	42.17			7.1	7.2					7.0			331.7		6.0		205.8	6.2	5158.00						3083.00	2443.00	167.17				5.99	2.31	0.016	0.95	5	29	23	0.005	

Industrial Connections: 36173 Flow 298838 BOD 322909 TSS 452719  
 Sewer Connections X 3 = 18  
 Operator Deborah Hathaway Cert. # 16354 Phone # 502-540-6000  
102744