



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

July 14, 2023

Ms. Crystal Dennis  
Kentucky Division of Water  
300 Sower Blvd., 3<sup>rd</sup> Floor  
Frankfort, Kentucky 40601

**Re: Derek Guthrie Water Quality Treatment Center  
KPDES Permit No. KY0078956,  
Discharge monitoring report for June 2023.**

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 June 2023.

There were no bypasses or exceedances for the Derek Guthrie WQTC.

Also attached is the 2<sup>nd</sup> quarter Biomonitoring DMR and overflow reports.

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 6/23

Enclosures

cc: B. Tinnell  
V. Graves  
M. Saylor



## 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 04/01/23 to 06/30/23				DMR Due Date:	07/28/23				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	Sample Permit Req.	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	Value 3	Units				
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--											<	1.0	2F - tox acute	0	01/90 - Quarterly	24 - COMP24	
															<=	1.0 MAXIMUM	2F - tox acute		01/90 - Quarterly	24 - COMP24	
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																					
<b>Derek R Guthrie WQTC MSD</b>																					
User:	staci.huber@louisvillemtd.org																				
Name:	Staci Huber																				
E-Mail:	staci.huber@louisvillemtd.org																				
Date/Time:	2023-07-14 12:45 (Time Zone: -04:00)																				
Report Last Signed By																					
User:	kevin.thompson@louisvillemtd.org																				
Name:	Kevin Thompson																				
E-Mail:	kevin.thompson@louisvillemtd.org																				
Date/Time:	2023-07-14 13:00 (Time Zone: -04:00)																				

50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample											<	0.016	<	0.016	19 - mg/L			01/01 - Daily	GR - GRAB					
					Permit Req.															<=	0.019 MO AVG	<=	0.019 MX WK AV	19 - mg/L	0	01/01 - Daily	GR - GRAB		
					Value NODI																								
51040	E. coli	1 - Effluent Gross	0	--	Sample												=	9.0	=	16.0	13 - #/100mL			01/01 - Daily	GR - GRAB				
					Permit Req.															<=	130.0 30DA GEO	<=	240.0 7 DA GEO	13 - #/100mL	0	01/01 - Daily	GR - GRAB		
					Value NODI																								
81010	BOD, 5-day, percent removal	K - Percent Removal	0	--	Sample												=	97.0						01/30 - Monthly	CA - CALCTD				
					Permit Req.															>=	85.0 MO AV MN							01/30 - Monthly	CA - CALCTD
					Value NODI																								
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample												=	98.0						01/30 - Monthly	CA - CALCTD				
					Permit Req.															>=	85.0 MO AV MN							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
SDRG-ADMIN-23071410420.pdf	pdf	175321.0
SDRG-ADMIN-23071410421.pdf	pdf	36689.0
SDRG-ADMIN-23071410422.pdf	pdf	130254.0

**Report Last Saved By**

**Derek R Guthrie WQTC MSD**

User: staci.huber@louisvillemsd.org  
 Name: Staci Huber  
 E-Mail: staci.huber@louisvillemsd.org  
 Date/Time: 2023-07-14 12:45 (Time Zone: -04:00)

**Report Last Signed By**

User: kevin.thompson@louisvillemsd.org  
 Name: Kevin Thompson  
 E-Mail: kevin.thompson@louisvillemsd.org  
 Date/Time: 2023-07-14 13:00 (Time Zone: -04:00)

Name of Sewage Treatment Plan West County WTP Jefferson County Month of: June 2023  
 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	Gal/Day	MLSS (mg/L X 1000)	WAS	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	Raw	Final				
1	21.84			7.1	6.9					673.0		5.0				504.0		7.0		4950					2950	2400	190				10.90	1.19	0.016	0.39	10								
2	19.92			7.0	7.0					374.0		7.0				374.0		17.0		5000					2900	2200	200						0.016	1.50	9								
3	19.91			7.2	7.0					468.0		7.0				408.0		10.0		4760					2000	1660	140						0.016	1.10	40								
4	19.96			7.0	6.9					460.0		9.0				423.0		11.0		4580					2210	1840	150						0.016	1.60	9	49	17						
5	20.62			7.3	7.0					613.0		10.0				588.0		19.0		4060					2100	1730	130						0.016	2.10	4								
6	19.22			7.0	6.9					653.0		10.0				478.0		12.0		4850					2230	1730	130						0.016	3.20	2								
7	34.38			7.1	7.1					508.0		14.0				401.0		26.0		3630					2100	1770	120						0.016	4.90	2								
8	34.56			7.2	7.1					464.0		9.0				462.0		15.0		5600					2420	1970	150		8.06	0.51			0.016	1.50	7								
9	17.63			7.2	7.1					444.0		8.0				456.0		15.0		4640					2470	2040	150						0.016	1.20	2								
10	17.44			6.9	6.9					452.0		9.0				319.0		15.0		5000					2450	2030	140						0.016	1.50	15								
11	21.67			7.2	7.2					316.0		12.0				293.0		9.0		5260					2120	1750	130						0.016	2.70	29	45	15						
12	31.59			7.2	7.0					527.0		11.0				395.0		16.0		5580					2050	1690	130						0.016	2.10	4								
13	25.13			7.1	6.9					385.0		9.0				313.0		12.0		4800					1900	1570	120						0.016	1.60	2								
14	22.42			7.2	7.0					444.0		9.0				318.0		13.0		4530					2000	1580	110						0.016	1.70	2								
15	21.47			7.3	7.1					376.0		10.0				375.0		21.0		3100					1940	1610	120		7.32	1.71			0.016	3.00	65								
16	20.11			7.4	7.4					484.0		7.0				414.0		10.0		3620					2050	1740	130						0.016	1.20	12								
17	18.54			7.4	7.3					452.0		6.0				338.0		8.0		5700					2810	2360	170						0.016	1.70	2								
18	19.58			7.4	7.4					388.0		7.0				343.0		8.0		4740					2590	2130	150						0.016	0.99	41								
19	32.19			7.4	7.3					512.0		15.0				302.0		21.0		5040					2360	2000	160						0.016	2.60	37	50	14						
20	61.29			7.4	7.3					272.0		7.0				218.0		14.0		6200					3190	2680	170						0.016	1.00	66								
21	36.77			7.5	7.3					428.0		6.0				284.0		7.0		5600					3560.00	2940	220						0.016	0.85	2								
22	31.53			7.4	7.4					588.0		7.0				466.0		7.0		4920					3600	2920	220		8.31	0.48			0.016	0.63	2								
23	30.55			7.4	7.4					520.0		6.0				413.0		11.0		5480					3650.00	2950	230						0.016	1.00	2								
24	25.23			7.4	7.4					584.0		5.0				435.0		7.0		5940					3710	3100	230						0.016	1.30	2								
25	35.05			7.4	7.4					588.0		13.0				343.0		14.0		5360					3320	2740	210						0.016	1.30	23	43	9						
26	114.75			7.4	7.3					300.0		5.0				163.0		7.0		6120					2280	1790	120						0.016	0.34	14								
27	54.99			7.6	7.5					604.0		4.0				340.0		6.0		6500					2850	2290	180						0.016	0.41	433								
28	33.86			7.6	7.4					448.0		4.0				407.0		7.0		5920					3870	3120	240						0.016	0.74	24								
29	29.79			7.4	7.4					760.0		5.0				458.0		7.0		6020					3620	2940	220						0.016	0.99	16								
30	28.32			7.3	7.2					436.0		5.0				319.0		8.0		6860					4250	3450	250						0.016	1.10	2								
31																																											
Total	920.3	0	0																	0.0		0.0																					
Avg.	30.68			7.3	7.2					6.7		8.0				377.7		12.0		5146.33						2718.33	2224.00	167.00						8.65	0.97	0.016	1.54	9	47	13			

--- 36173 --- Operator Gary Phelps  
 --- 34248 ---  
 --- 1907 --- 189405 --- 465611 --- 492052 --- Cert. # 30428  
 Industrial Connections: 18 Flow BOD TSS Phone # 502-540-6000  
 Sewer Connections X 3 = 102744



KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Discharge	Region
KY0078956	MSD0277	DEREK R. GUTHRIE	OHIO RIVER	NA

  

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Station	Receiving Stream	Discharge To
Sewer Lift Station	MSD1013-PS LN	9114 CINDERELLA LN	DEREK R. GUTHRIE	FISHPOOL CREEK	DITCH

  

Activity Code / Description	WO #	Ref #	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	3665906		6/19/2023 10:04:00 PM	SMITHER	HUDGINS JR	BEYOND APPROVED DESIGN STORM	6/19/2023 12:00:00 AM	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATERS	06/20/23 02:08 AM	

**Discharge Reporting:**

Discharge Amount:	18,000 GAL
Cause:	LACK OF SYSTEM CAPACITY.
Clean Up:	WILL CLEANUP AFTER ACTIVITY HAS STOPPED.
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.
Impact:	SEWAGE FOUND IN THE DITCH.
Repair:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.
Public Notification:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.

**Notifications:**

6/20/23 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Discharge	Region
KY0078956	MSD0277	DEREK R. GUTHRIE	OHIO RIVER	NA

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Station	Receiving Stream	Discharge To
Sewer Lift Station	MSD1051-PS	8800 ADMIRAL DR	DEREK R. GUTHRIE	PENNSYLVANIA RUN	STREAM

Activity Code / Description	WO #	Ref #	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	3665889		6/19/2023 8:05:00 PM	SMITHER	HUDGINS JR	DOCUMENTED	4/20/2019 12:00:00 AM	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATERS	06/20/23 12:10 AM	

**Discharge Reporting:**

Discharge Amount:	36,000 GAL
Cause:	LACK OF SYSTEM CAPACITY.
Clean Up:	CLEANUP NOT POSSIBLE DUE TO ELEVATED CREEK LEVEL.
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.
Impact:	SEWAGE FOUND IN THE STREAM.
Repair:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.
Public Notification:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.

**Notifications:**

6/20/23 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Discharge	Region
KY0078956	MSD0277	DEREK R. GUTHRIE	OHIO RIVER	NA

  

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Station	Receiving Stream	Discharge To
Sewer Service Line	PC09604049	8304 CLOVERPORT DR	DEREK R. GUTHRIE	PENNSYLVANIA RUN	GROUND

  

Activity Code / Description	WO #	Ref #	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	3669775		6/25/2023 9:10:00 PM	BOWLIN JR		REPAIRED - ISSUE RESOLVED	6/27/2023 12:00:00 AM	ROOTS	UNAUTHORIZED DISCHARGE-WATERS	06/27/23 11:00 AM	MAIN

**Discharge Reporting:**

Discharge Amount:	100 GAL
Cause:	CAUSE OF DISCHARGE IS IN MAIN SEWER. ROOTS IN MAIN SEWER
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA
Control Zone:	MSD PERSONNEL ADVISED THE CUSTOMER TO AVOID CONTACT WITH SEWAGE; PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA
Impact:	WATER DISCHARGING FROM MANHOLE
Repair:	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN
Public Notification:	ADVISED CUSTOMER ON SITE

**Notifications:**

6/26/23 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
6/26/23 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION