



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

March 17, 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 February 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 February 2023.

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

Also attached are 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 2/23

Enclosures

cc: B. Tinnell  
V. Graves  
M. Saylor





Name of Sewage Treatment Plan West County WTP Jefferson County Month of: February 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	Final	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	Gal/Day X 1000	Oxygen (mg/L) #1	Oxygen (mg/L) #2	(mg/L) X1000 #1&#2	MLYSS (mg/L) X1000	30 min. SVI	60 min. SVI	% Solids	Raw	Final	Chlorine Residual (mg/L)	NH3-N (mg/L)	E. Coli (MPN)	Raw	Final	Final								
1	32.26			7.1	7.2				8.1	528.0	9.0		264.0		13.0		5700									2960	2450	150			6.98	1.77	0.016	1.50	6											
2	30.06			7.1	7.2				8.5	424.0	12.0		251.0		16.0		5540										3280	2640	150					0.016	1.80	8										
3	29.60			7.2	7.2				8.5	720.0	7.0		461.0		12.0		4400										2740	2220	140					0.016	2.90	4										
4	26.75			7.2	7.2				8.2	408.0	8.0		349.0		10.0		4480										3810	3190	190					0.016	2.60	2										
5	27.40			7.1	7.1				8.2	440.0	9.0		331.0		13.0		4720										2480	2050	150					0.016	2.30	2	40	17								
6	25.82			7.1	7.3				8.0	568.0	11.0		780.0		16.0		4580										2790	2310	140					0.016	2.40	4										
7	25.60			7.2	7.0				8.0	620.0	9.0		887.0		15.0		4740										2550	2130	150					0.016	1.80	4										
8	24.80			7.1	7.1				8.3	580.0	10.0		358.0		12.0		3380										3280	2760	150					0.016	2.10	2										
9	27.58			7.1	7.2				7.5	428.0	10.0		339.0		14.0		5600										2790	2320	150		6.82	2.12	0.016	2.50	2											
10	25.30			7.2	7.1				7.7	464.0	10.0		366.0		17.0		4640										2830	2350	140					0.016	2.30	2										
11	23.97			7.2	7.2				7.4	708.0	9.0		296.0		10.0		4420										2470	2050	150					0.016	2.50	2										
12	25.27			7.2	7.1				8.2	564.0	13.0		359.0		19.0		3980										2150	1780	130					0.016	2.80	2	35	18								
13	24.18			7.1	7.1				7.5	552.0	12.0		864.0		19.0		4840										2460	2000	120					0.016	3.50	6										
14	22.44			7.2	7.0				7.8	504.0	14.0		706.0		17.0		5000										2670	2250	105					0.016	4.10	2										
15	24.34			7.1	7.1				7.6	544.0	11.0		360.0		20.0		4440										3180	2690	140		6.74	2.66	0.016	4.90	14											
16	89.02			7.1	6.9				6.8	260.0	22.0		137.0		31.0		4360										2380	2000	120					0.016	3.40	34										
17	116.21			7.0	6.9				7.0	344.0	11.0		120.0		17.0		6020										2590	2100	130					0.016	2.20	181										
18	83.92			7.0	7.1				7.2	162.0	11.0		125.0		19.0		6760										2630	2130	150					0.016	3.60	10										
19	66.68			7.0	6.9				7.9	206.0	14.0		173.0		20.0		5860										2630	2150	150					0.016	3.60	78	19	9								
20	47.25			7.0	7.2				8.0	380.0	9.0		516.0		11.0		6180										3310	2740	150					0.016	1.70	2										
21	32.22			6.9	7.2				7.7	456.0	13.0		655.0		23.0		5120										4370.00	3580	180					0.016	3.60	2										
22	30.77			7.1	7.0				7.7	540.0	15.0		270.0		21.0		5820										3660	3080	180		2.92	1.36	0.016	3.20	2											
23	39.59			7.1	7.1				7.3	812.0	15.0		273.0		21.0		5520										2230.00	1910	120					0.016	4.30	2										
24	30.24			7.2	7.1				7.7	460.0	13.0		324.0		19.0		4940										2850	2350	150					0.016	5.60	2										
25	27.13			7.0	7.2				8.0	284.0	22.0		290.0		15.0		4880										2750	2260	150					0.016	4.70	2										
26	27.15			7.0	7.2				7.9	1050.0	15.0		456.0		16.0		5400										2860	2380	160					0.016	4.80	2	38	12								
27	29.48			7.2	7.3				7.7	628.0	9.0		433.0		15.0		4740										3090	2580	160					0.016	3.60	2										
28	27.51			7.0	7.0				7.7	492.0	15.0		825.0		21.0		4600										3320	2670	170					0.016	4.70	2										
29																																														
30																																														
31																																														
Total	1042.5	0	0														0.0		0.0																											
Avg.	37.23			7.1	7.1				7.8	504.5	12.1		413.1		16.9		5022.14										2896.07	2397.14	147.32					5.86	1.98	0.016	3.18	4	32	14						

Industrial Connections: \_\_\_\_\_  
 Sewer Connections X 3 = \_\_\_\_\_

36173  
 34248  
 1907  
 18

251858 Flow  
 651911 BOD  
 643256 TSS

Operator: \_\_\_\_\_ Gary Phelps  
 Cert. # \_\_\_\_\_ 30428  
 Phone # \_\_\_\_\_ 502-540-6000



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	MSD1203-PS	4005 KIRBY LN	DEREK R. GUTHRIE	FERN CREEK	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	3600312		1/3/2023 8:17:00 AM	SMITHER	MILES	REPAIRED - ISSUE RESOLVED	7/27/2016 12:00:00 AM	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATERS	01/03/23 12:54 PM	

**Discharge Reporting:**

Discharge Amount:	3,000 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:	NO IMPACT OBSERVED - MAGNITUDE OF STORM FLUSHED SOLIDS AND DEBRIS FROM SITE.
Repair:	SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR.
Public Notification:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.

**Notifications:**

1/3/23 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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**IMSAST0004  
Overflow Report  
1/1/2023 12:00:00 AM to 1/31/2023 12:00:00 AM**

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 Manhole	93705	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	3600618		1/3/2023 10:40:00 AM	FRENCH		DOCUMENTED	9/24/2018 12:00:00 AM	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATERS	01/03/23 02:40 PM	

**Discharge Reporting:**

Discharge Amount:	75,000 GAL
Cause:	LACK OF SYSTEM CAPACITY.
Clean Up:	MSD PERSONNEL WILL CLEAN AND SANITIZE THE IMPACTED AREAS.
Control Zone:	TEMPORARY SIGNS PLACED AT MANHOLE.
Impact:	SEWAGE, SOLIDS AND DEBRIS OBSERVED IN THE STREAM.
Repair:	THIS LOCATION IS INCLUDED IN THE IOAP.
Public Notification:	CONTROL ZONE USED TO NOTIFY THE PUBLIC.

**Notifications:**

1/4/23 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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**IMSAST0004  
Overflow Report**

**1/1/2023 12:00:00 AM to 1/31/2023 12:00:00 AM**

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	T168A8933	8933 LA COSTA RD	DEREK R. GUTHRIE	FERN CREEK	GROUND						
Activity Code / Description	WO #	Ref #	Initiated on	Initiated By	Assigned To	Dish Status	Event Date	Problem Desc	Result	Completed	Condition
DISDW: DRY WEATHER DISCHARGE	3606076		1/19/2023 10:00:00 AM	VAUGHAN	VAUGHAN	REPAIRED - ISSUE RESOLVED	1/19/2023 12:00:00 AM	ROOTS	UNAUTHORIZED DISCHARGE- WATERS	01/19/23 12:40 PM	MAIN

**Discharge Reporting:**

Discharge Amount:	1,600 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:	SEWAGE/WATER DISCHARGING FROM CLEANOUT.
Repair:	FLUSHED AND ROOT CUT MAIN TO MH, WORK ORDER 3606102 AND 3609054. REPAIRED THE MAIN SEWER; WORK ORDER 3609121.
Public Notification:	ADVISED CUSTOMER ON SITE.

**Notifications:**

1/19/23 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO: DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/19/23 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION



**IMSAST0004  
Overflow Report**

**1/1/2023 12:00:00 AM to 1/31/2023 12:00:00 AM**

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 Manhole	60679	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	3600288		1/3/2023 5:30:00 AM	CATALANO JR	HUDGINS JR	DOCUMENTED	12/15/2007 12:00:00 AM	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATERS	01/03/23 09:15 PM	

**Discharge Reporting:**

Discharge Amount:	118,125 GAL
Cause:	LACK OF SYSTEM CAPACITY.
Clean Up:	CLEANUP NOT POSSIBLE DUE TO MAGNITUDE OF STORM.
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.
Impact:	SEWAGE FOUND AROUND MANHOLE.
Repair:	SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR.
Public Notification:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.

**Notifications:**

1/3/23 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/3/23 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION





**IMSAST0004  
Overflow Report  
1/1/2023 12:00:00 AM to 1/31/2023 12:00:00 AM**

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 Manhole	64054	7014 JOHN PAUL LN	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	3609050		1/25/2023 10:20:00 AM	DAVIS BROWN	MONTGOMER Y	REPAIRED - ISSUE RESOLVED	1/25/2023 12:00:00 AM	MECHANICAL FAILURE	UNAUTHORIZED DISCHARGE-WATERS	01/25/23 10:58 AM	

**Discharge Reporting:**

Discharge Amount:	950 GAL
Cause:	PER WO3609011, MAIN BREAKER ADMIRAL PS CONTROL PANEL TRIPPED.
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA.
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.
Impact:	MANHOLE DISCHARGING.
Repair:	WO#3609011.
Public Notification:	PUBLIC NOTIFIED BY TEMP SIGNS POSTED AT DISCHARGE SITE.

**Notifications:**

1/26/23 1:00 AM	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 Manhole	93705	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	3609052		1/25/2023 10:20:00 AM	DAVIS BROWN	MONTGOMER Y	DOCUMENTED	9/24/2018 12:00:00 AM	MECHANICAL FAILURE	UNAUTHORIZED DISCHARGE-WATERS	01/25/23 10:58 AM	

**Discharge Reporting:**

Discharge Amount:	950 GAL
Cause:	PER WO3609011, MAIN BREAKER ADMIRAL PS CONTROL PANEL TRIPPED
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA.
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.
Impact:	MANHOLE DISCHARGING.
Repair:	WO#3609011.
Public Notification:	PUBLIC NOTIFIED BY TEMP SIGNS POSTED AT DISCHARGE SITE.

**Notifications:**

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