



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

February 16, 2022

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 January 2022.**

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 January 2022.

There were no exceedances for the Derek Guthrie WQTC.

Also attached are bypass 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 01/22
Enclosures

cc: C. Roth
V. Graves
R. Shaw

Name of Sewage Treatment Plan West County WTP County Jefferson Month of: January 2022
 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	Primary (or Sec.)	Final	Gal/Day	MLSS mg/L X 1000	WAS	Gal/Day 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	117.94			7.0	7.1				7.0				112.0		22.0				56.0		23.0			5700						2040	1640	120					0.016	1.40	123								
2	142.27			7.1	7.1				7.0				80.0		10.0				63.0		11.0			6180						2200	1690	120		2.12	0.51	0.016	0.43	24200	32	6							
3	96.83			7.3	6.9				8.5				112.0		6.0				88.0		8.0			5840						2950	2240	170				0.016	0.50	87									
4	86.02			7.0	6.9				7.7				156.0		6.0				106.0		7.0			6380						3380	2550	190				0.016	0.83	17									
5	72.33			6.9	7.1				7.6				170.0		9.0				126.0		13.0			6640						3060	2460	200				0.016	1.80	85									
6	60.05			6.8	7.0				7.8				196.0		11.0				192.0		36.0			7240						2940	2200	180				0.016	2.80	44									
7	51.13			6.9	7.0				7.9				148.0		14.0				277.0		59.0			8000						3120	2440	180				0.016	3.10	18									
8	50.17			7.2	7.4				7.7				210.0		15.0				257.0		59.0			7700						3320	2700	200				0.016	1.20	44									
9	145.30			7.0	7.0				7.0				214.0		26.0				160.0		32.0			7600						2620	2120	150		2.06	0.50	0.016	0.27	24200	10	4							
10	114.24			6.8	6.7				8.4				96.0		9.0				73.0		10.0			8560						4620	3780	180				0.016	0.32	67									
11	87.11			6.9	7.0				8.3				242.0		9.0				155.0		15.0			7960						4480	3580	170				0.016	1.20	14									
12	75.49			6.8	6.7				7.6				310.0		32.0				219.0		30.0			9080						4440	3620	270				0.016	1.70	71									
13	64.43			7.2	6.8				8.0				310.0		7.0				229.0		9.0			8080						5180	4040	250				0.016	2.10	39									
14	54.29			7.0	7.0				8.0				223.0		7.0				143.0		8.0			8540						3860	3140	220				0.016	1.90	10									
15	50.55			7.1	7.2				8.1				273.0		5.0				293.0		9.0			7160						3660	2920	230				0.016	1.50	200									
16	48.07			7.1	7.3				8.1				290.0		8.0				248.0		11.0			7260						3580	2900	250				0.016	1.90	2									
17	45.94			7.2	7.2				8.0				330.0		9.0				276.0		12.0			7140						3640	3020	260		9.11	1.33	0.016	1.70	2	30	10							
18	44.50			7.1	7.2				7.9				272.0		7.0				220.0		10.0			7560						4720	3760	280				0.016	2.20	2									
19	45.96			7.2	7.1				7.7				224.0		10.0				222.0		25.0			7100						4200	3100	270				0.016	2.60	2									
20	52.97			6.7	6.9				8.0				316.0		9.0				46.0		16.0			7580						3920	3080	230				0.016	1.50	2				0.005					
21	44.23			7.2	7.0				8.0				222.0		7.0				211.0		12.0			7900						3910.00	3120	250				0.016	2.10	2									
22	41.48			7.2	7.3				8.0				444.0		11.0				303.0		15.0			7140						4220	3400	260				0.016	2.40	2									
23	41.11			7.3	7.3				8.0				408.0		10.0				421.0		14.0			6780						3900.00	3280	250		8.53	0.88	0.016	1.80	2	42	12							
24	41.71			7.4	7.1				7.8				340.0		8.0				330.0		14.0			7400						4760	3900	310				0.016	1.60	2									
25	38.89			7.2	7.0				7.0				326.0		8.0				289.0		12.0			8140						4100	3280	270				0.016	1.20	2									
26	37.18			7.2	6.8				8.0				268.0		7.0				271.0		13.0			7160						4040	3360	270				0.016	1.50	2									
27	37.17			7.0	7.0				8.1				284.0		7.0				296.0		12.0			6560						4120	3340	260				0.016	1.40	7									
28	36.93			7.0	7.2				8.0				424.0		9.0				392.0		18.0			6260						4300	3600	250				0.016	3.10	2									
29	36.69			7.0	7.2				7.7				244.0		9.0				360.0		23.0			6400						3810	3140	250				0.016	3.60	2									
30	38.96			6.9	7.2				7.5				365.0		10.0				356.0		15.0			7060						4260	3620	250				0.016	1.60	2									
31	37.50			7.1	7.1				7.9				315.0		9.0				294.0		14.0			7760						4840	3940	270				0.016	1.70	2									
Total	1937.4	0	0																				0.0		0.0																						
Avg.	62.50			7.1	7.1				7.8				255.6		10.5								224.9			18.2		7285.81																			

Industrial Connections: 36173 Flow 492479 BOD 586831 TSS 531707
 Sewer Connections X 3 = 18 Flow 102744 BOD 1907 TSS 18
 Operator Roy McCarty
 Cert. # 31503
 Phone # 502-540-6000



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

January 2, 2022

District Supervisor
KY Division of Water
Louisville Regional Office
9116 Leesgate Road
Louisville, KY 40222-5084

Re: Bypass Notification for: **Derek R. Guthrie WQTC - KPDES Permit: KY0078956**

To whom it may concern:

This water quality treatment center experienced a bypass event and has been reported through our electronic notification system at approximately 10:00 AM on Date, referencing Work Order 3459142 as a Wet Weather Discharge. This letter serves as a written report of the bypass as required by 401 KAR 5:065.

Provided below are the details of the bypass event:

- Description of the noncompliance and its cause: At 06:45 MSD personnel found a raw sewage overflow occurring from a cleanout near the grit building.. After troubleshooting the problem it was found the operator had opened the drain valve at the Equilization Basin to far and casued the plant drain system to backup and surcharge. Drains at the EQ Basin and STDB were closed during C shift and the discharge stopped.
- Period of noncompliance: Starting 06:45 AM on Date, and stopping 7:00 AM on Date.
- Steps taken or planned to reduce, elimination and prevent recurrence Plant supervisors will review and train staff on the proper proceedures of taking equipment out of service after a rain event.
- Additional comments: No additional comments.

Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502)-540-6000, my cell phone at (502)-216-3662 or via email at rob.roy@louisvillemsd.org.

Sincerely,

Robert Roy
Electrical Maintenance Supervisor

cc: Paul Bridges, KDEP
Legal Department, MSD
eB File



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

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SPLSewer Treatment Plant	MSD0277	11621 LOWER RIVER RD	DEREK R. GUTHRIE	OHIO RIVER	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3459142		01/02/2022	DODDS	FIELDS	REPAIRED - ISSUE RESOLVED	07/11/2021	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE-WATERS	01/02/22 07:00 AM	

Discharge Reporting:

Discharge Amount:	45,000 GAL
Cause:	WET WEATHER MODE, DRAINS OPEN ON EQUIPMENT THAT HAD BEEN TAKEN OUT OF SERVICE.
Clean Up:	WILL CLEAN UP WITH LIME WHEN RAIN ENDS.
Control Zone:	CONES AND CAUTION TAPE.
Impact:	DEBRIS ON GROUND.
Repair:	CLOSED DRAINS AND TURNED OFF DRAIN PUMPS.
Public Notification:	PERMANENT SIGNS POSTED.

Notifications:

1/2/22 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 Treatment Center	Region
KY0078956	MSD0277	DEREK R. GUTHRIE	OHIO RIVER	NA

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	102339	9114 CINDERELLA LN	DEREK R. GUTHRIE	FISHPOOL CREEK	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3460236		01/09/2022	CATALANO JR BANKS		DOCUMENTE D	07/14/2015	LACK OF SYSTEM	UNAUTHORIZED DISCHARGE-	01/09/22 02:33 PM	

Discharge Reporting:

Discharge Amount:	85,875 GAL
Cause:	LACK OF SYSTEM CAPACITY.
Clean Up:	CLEANUP NOT POSSIBLE DUE TO MAGNITUDE OF STORM.
Control Zone:	PERMANENT SIGN IN PLACE – NO ADDITIONAL CONTROL ZONE SET UP.
Impact:	SEWAGE/DEBRIS/SOLIDS/PERSONAL HYGIENE PRODUCTS FOUND AROUND MANHOLE.
Repair:	SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR.
Public Notification:	PERMANENT SIGN IN PLACE – NO ADDITIONAL CONTROL ZONE SET UP.

Notifications:

1/9/22 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/9/22 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION



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

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	19360	5205 RONWOOD DR	DEREK R. GUTHRIE	NORTHERN DITCH	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3459035		01/01/2022	SUMMERS	SMITH	QUEUED FOR REPAIR	01/01/2022	LACK OF SYSTEM	UNAUTHORIZED DISCHARGE-	01/01/22 05:50 PM	MAIN

Discharge Reporting:

Discharge Amount:	30,000 GAL
Cause:	CAP LACK OF CAPACITY.
Clean Up:	CREATED DISCLN WO #3459869.
Control Zone:	CAUTION TAPE, AND TEMP SIGNS INSTALLED.
Impact:	SEWAGE AND SOLIDS.
Repair:	REQUEST FOR TVI TO VIDEO INSPECT LINE. SER REQ #5410432
Public Notification:	MSD ADVISED THE CUSTOMER ONSITE.

Notifications:

1/2/22 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/2/22 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION



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

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SSLSewer Service Line	70388	4805 MID DR	DEREK R. GUTHRIE	PONDER CREEK	GROUND

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Ref No</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
: DISDW: DRY WEATHER DISCHARGE	3467760		01/24/2022	GLENN	HENDRIX	REPAIRED - ISSUE RESOLVED	12/10/2019	ROOTS	UNAUTHORIZED DISCHARGE-WATERS	01/24/22 10:20 AM	MAIN

Discharge Reporting:

Discharge Amount:	1,000 GAL
Cause:	ROOTS IN MAIN SEWER.
Clean Up:	MSD PERSONNEL CLEANED IMPACTED AREA.
Control Zone:	MSD PERSONNEL ADVISED CUSTOMER.
Impact:	SEWAGE DISCHARGING FROM CLEAN OUT IN REAR.
Repair:	ROOT CUT MAIN SEWER TO RESTORE FLOW.
Public Notification:	ADVISED CUSTOMER ON SITE, PLACED TEMP DISCHARGE SIGNS.

Notifications:

1/25/22 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 Treatment Center	Region
KY0078956	MSD0277	DEREK R. GUTHRIE	OHIO RIVER	NA

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	93703	8800 ADMIRAL DR	DEREK R. GUTHRIE	PENNSYLVANIA RUN	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3459020		01/01/2022	SUMMERS	SMITH	DOCUMENTE D	03/24/2018	LACK OF SYSTEM	UNAUTHORIZED DISCHARGE-	01/01/22 05:00 PM	MAIN

Discharge Reporting:

Discharge Amount:	30,000 GAL
Cause:	LACK OF CAPACITY.
Clean Up:	CREATED DISCLN WO#3459874.
Control Zone:	CAUTION TAPE, AND TEMP SIGNS INSTALLED.
Impact:	OBSERVED SEWAGE AND SOLIDS.
Repair:	A SOLUTION FOR THIS IS INCLUDED IN THE IOAP.
Public Notification:	MSD ADVISED THE CUSTOMER ON SITE.

Notifications:

1/2/22 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
1/2/22 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

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

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SPLSewer Treatment Plant	MSD0277	11621 LOWER RIVER RD	DEREK R. GUTHRIE	OHIO RIVER	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3459142		01/02/2022	DODDS	FIELDS	REPAIRED - ISSUE RESOLVED	07/11/2021	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE-WATERS	01/02/22 07:00 AM	

Discharge Reporting:

Discharge Amount:	45,000 GAL
Cause:	WET WEATHER MODE, DRAINS OPEN ON EQUIPMENT THAT HAD BEEN TAKEN OUT OF SERVICE.
Clean Up:	WILL CLEAN UP WITH LIME WHEN RAIN ENDS.
Control Zone:	CONES AND CAUTION TAPE.
Impact:	DEBRIS ON GROUND.
Repair:	CLOSED DRAINS AND TURNED OFF DRAIN PUMPS.
Public Notification:	PERMANENT SIGNS POSTED.

Notifications:

1/2/22 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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