



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

April 16, 2018

Ms. Cheryl Edwards
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 March 2018.**

Dear Ms. Cheryl Edwards:

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 March 2018.

There were no bypass reports for the Derek Guthrie WQTC.

Also attached are overflow reports and 1st quarter Biomonitoring DMR.

Although the BOD5 concentration results were below the permitted limits, we had one exceedances of our weekly average of BOD5 loading limit. This was a result of increased plant flow/ rain over an extended period of time during the month of March. DRGWQTC has recently been issued a new KPDES permit, which becomes effective on May 1, 2018 that includes a new plant design rating of 60 MGD. The increased design capacity rating of 60 MGD will reduce the exceedances for loadings during extended high flow events.

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 03/18
Enclosures

cc: C. Roth
V. Graves
R. Shaw

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

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	Quantity or Loading Sample Value 2	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes

Comments**Attachments**

Name	Type	Size
201803_DRG_coverletter.pdf	pdf	108144
201803_DRG_MOR.pdf	pdf	71836
201803DRGWQTCOverflowReport.pdf	pdf	101093

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: 2018-04-20 12:07 (Time Zone: -04:00)

Report Last Signed By

User: kevin.thompson@louisvillemsd.org
 Name: Kevin Thompson
 E-Mail: kevin.thompson@louisvillemsd.org
 Date/Time: 2018-04-20 12:07 (Time Zone: -04:00)

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-Y BIOMONITORING/METALS/QUARTERLY		

Report Dates & Status

Monitoring Period:	From 01/01/18 to 03/31/18	DMR Due Date:	04/28/18	Status:	NetDMR Validated
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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				Value 3	Units
00900	Hardness, total [as CaCO3]	1 - Effluent Gross	0	--	Sample						=	229		=	229	19 - mg/L	01/90 - Quarterly	CP - COMPOS	
					Permit Req.												0	01/90 - Quarterly	G2 - GRAB-2
					Value NODI														
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample						=	0.027		=	0.027	19 - mg/L	01/90 - Quarterly	CP - COMPOS	
					Permit Req.												0	01/90 - Quarterly	G2 - GRAB-2
					Value NODI														
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.0001		<	0.0001	19 - mg/L	01/90 - Quarterly	CP - COMPOS	
					Permit Req.												0	01/90 - Quarterly	G2 - GRAB-2
					Value NODI														
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.001		<	0.001	19 - mg/L	01/90 - Quarterly	CP - COMPOS	
					Permit Req.												0	01/90 - Quarterly	G2 - GRAB-2
					Value NODI														
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.0003		<	0.0003	19 - mg/L	01/90 - Quarterly	CP - COMPOS	
					Permit Req.												0	01/90 - Quarterly	G2 - GRAB-2
					Value NODI														
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample									<	1	2F - tox acute	01/90 - Quarterly	GR - GRAB	
					Permit Req.												0	01/90 - Quarterly	G2 - GRAB-2
					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: 2018-04-19 12:14 (Time Zone: -04:00)

Report Last Signed By

User: kevin.thompson@louisvillemsd.org
 Name: Kevin Thompson
 E-Mail: kevin.thompson@louisvillemsd.org
 Date/Time: 2018-04-20 12:07 (Time Zone: -04:00)

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-R REASONABLE POTENTIAL																
Report Dates & Status																					
Monitoring Period:	From 03/01/18 to 03/31/18			DMR Due Date:	04/28/18			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.	Value 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	Value 3	Units			
01032	Chromium, hexavalent [as Cr]	1 - Effluent Gross	0	--									<	0.01		<	0.01	19 - mg/L		01/30 - Monthly	CP - COMPOS
															Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	0	01/30 - Monthly	CP - COMPOS
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																					
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User:	kevin.thompson@louisvillemsd.org																				
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User:	kevin.thompson@louisvillemsd.org																				
Name:	Kevin Thompson																				
E-Mail:	kevin.thompson@louisvillemsd.org																				
Date/Time:	2018-04-20 12:07 (Time Zone: -04:00)																				

Name of Sewage Treatment Plant: West County WTP Jefferson County Month of: March 2018
 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				Digested Final			Final									
		Grit 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	Oxygen (mg/L) #1	Oxygen (mg/L) #2	MLSS (mg/L) X 1000 #1 & #2	MLVSS (mg/L) X 1000 #1 & #2	30 min. SVI	60 min. SVI	% Solids	Phosphorus (mg/L)	TKN (mg/L)	Chlorine Residual (mg/L)	NH3-N (mg/L)	Fecal Coliform Col/100ml	Hexavalent Chromium	Hardness	
1	97.31			7.1	7.0			7.0			188.0	27.0					120.0			56.0			12400			4480	2590	190						3.20	3			
2	90.44			7.5	6.6			7.0			185.0	12.0					107.0			32.0			11900			4320	2440	180						0.016	3.30	5		
3	82.19			7.1	7.1			7.0			213.0	8.0					152.0			9.0			11430			4090	2390	200						0.016	3.50	12		
4	74.75			7.2	7.1			7.0			292.0	7.0					137.0			9.0			11030			4030	2400	180						0.016	4.20	3		
5	61.12			7.6	7.3			7.0			278.0	9.0					165.0			14.0			10600			7840	3940	155						0.016	5.90	3		
6	43.10			7.6	7.2			7.0			264.0	7.0					143.0			16.0			10400			5300	3160	155	0.8	1.04	5.30		0.016	4.20	2	0.005		
7	35.09			7.6	7.4			8.0			258.0	6.0					210.0			12.0			7780			6280	3780	170						0.016	5.40	1		
8	27.08			7.6	7.2			8.0			264.0	8.0					157.0			9.0			7140			5290	3140	170						0.016	4.50	1		
9	25.36			7.6	7.2			7.0			300.0	10.0					188.0			11.0			8280			6080	3660	150						0.016	5.20	3		
10	55.14			7.0	7.2			7.0			325.0	12.0					158.0			20.0			10360			2750	1760	100						0.016	5.00	8		
11	32.67			7.2	7.1			7.0			234.0	8.0					124.0			12.0			6750			3680	2330	160						0.016	3.90	1		
12	37.24			7.7	7.1			8.0			308.0	7.0					226.0			15.0			6830			2100	1290	165						0.016	5.50	1		
13	31.74			7.3	7.2			8.0			202.0	6.0					163.0			27.0			6160			2830	1830	170			0.80	6.50		0.016	5.20	1	223	
14	28.47			7.2	7.2			8.0			188.0	7.0					131.0			9.0			5580			2470	1590	125						0.016	5.00	1	0.005	
15	27.85			7.7	7.0			8.0			174.0	5.0					123.0			8.0			5320			2140	1380	130						0.016	5.00	1		
16	25.63			7.8	7.2			8.0			240.0	8.0					217.0			19.0			5080			2270	1470	130						0.016	5.80	2		
17	25.53			7.4	7.2			7.0			275.0	8.0					174.0			11.0			5480			2470	1620	140						0.016	5.40	4		
18	25.21			7.2	7.2			7.0			184.0	6.0					153.0			8.0			5770			2800	1920	140						0.016	5.90	1		
19	30.78			9.0	7.1			7.0			224.0	7.0					250.0			19.0			4710			2560	1700	135						0.016	6.90	2		
20	30.87			7.6	7.1			7.0			188.0	9.0					170.0			19.0			5230			2290	1530	140			0.57	7.60		0.016	6.20	3		
21	30.87			7.4	7.4			7.0			142.0	8.0					86.0			11.0			6100			1920.00	1320	120						0.016	4.50	14		
22	50.42			7.2	7.0			7.0			124.0	11.0					98.0			23.0			5430			2200	1520	100						0.016	4.30	4		
23	45.30			7.5	7.0			7.0			145.0	2.0					104.0			8.0			5440			2500.00	1740	130						0.016	3.20	5		
24	45.30			7.3	7.3			7.0			185.0	6.0					115.0			10.0			5520			2420	1680	140						0.016	2.90	4		
25	135.31			7.3	7.1			7.0			188.0	11.0					140.0			8.0			4560			1550	1090	70						0.016	2.40	220		
26	90.57			7.2	7.2			7.0			89.0	5.0					64.0			8.0			6340			2340	1570	115						0.016	2.90	16		
27	55.69			7.6	7.2			7.0			118.0	5.0					106.0			18.0			6130			2350	1650	135			1.25	4.40		0.016	3.20	13		
28	71.98			7.3	7.4			7.0			85.0	4.0					60.0			7.0			5490			4890	3490	160						0.016	3.00	2		
29	89.03			7.3	7.1			7.0			72.0	7.0					55.0			11.0			6490			5360	3810	160						0.016	2.80	1		
30	120.40			7.3	7.0			7.0			160.0	9.0					61.0			12.0			6900			1740	1210	110						0.016	2.50	14		
31	69.25			7.2	7.2			8.0			182.0	6.0					135.0			7.0			6610			2280	1620	120						0.016	2.80	15		
Total	1691.7	0	0																			0.0		0.0														
Avg.	54.57			7.4	7.1			7.3			202.4	8.0					135.2			14.8			7136.77			3406.77	2149.03	143.39			0.79	0.91	5.95	0.016	4.34	4	0.01	223

Total Number of Sewer Connections: 36173 Industrial Waste Population Equivalent
 Residential Connections: 34248
 Commercial Connections: 1907 416971 259275 335872
 Industrial Connections: 18 Flow BOD TSS
 Sewer Connections X 3 = 102744
 Operator Deborah Hathaway
 Cert. # 16354
 Phone # 502-540-6000

Report Selections: Period: 03/01/2018 00:00 thru 03/31/2018 23:59, treatment Plant: MSD0277 DEREK R. GUTHRIE, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

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

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	25484	9317 LANTANA DR		PENNSYLVANIA RUN	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	2880639		03/24/2018	CATALANO JR	RAYMER	DOCUMENTED	01/13/2013	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHAGE - WATERS	03/25/18 05:00 AM	

Discharge Reporting:

Discharge Amount:	16,500 GAL
Cause:	LACK OF SYSTEM CAPACITY.
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA.
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.
Impact:	SEWAGE/WATER DISCHARGING FROM MANHOLE.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.

Notifications:

3/25/18 1:00 am	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
3/25/18 1:00 am	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

Report Selections: Period: 03/01/2018 00:00 thru 03/31/2018 23:59, treatment Plant: MSD0277 DEREK R. GUTHRIE, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

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

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	60679	9114 CINDERELLA LN		FISHPOOL CREEK	DITCH

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	2880634		03/24/2018	CATALANO JR	RAYMER	DOCUMENTED	12/15/2007	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHAGE - WATERS	03/25/18 12:00 AM	

Discharge Reporting:

Discharge Amount:	36,000 GAL
Cause:	LACK OF SYSTEM CAPACITY.
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA.
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.
Impact:	SEWAGE/WATER DISCHARGING FROM MANHOLE.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.

Notifications:

3/25/18 1:00 am	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
3/25/18 1:00 am	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION



Report Selections: Period: 03/01/2018 00:00 thru 03/31/2018 23:59, treatment Plant: MSD0277 DEREK R. GUTHRIE, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

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

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	93703	8800 ADMIRAL DR		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	2880649		03/24/2018	CATALANO JR	RAYMER	DOCUMENTED	03/24/2018	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	03/24/18 07:06 PM	

Discharge Reporting:

Discharge Amount:	100 GAL
Cause:	LACK OF SYSTEM CAPACITY.
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA.
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.
Impact:	SEWAGE/WATER DISCHARGING FROM MANHOLE.
Repair:	LOCATION INCLUDED IN THE IOAP.
Public Notification:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA.

Notifications:

3/25/18 1:00 am	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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Total Facilities Printed: 3

Total Work Orders Printed: 3