



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

January 13, 2016

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 December 2016.**

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 December 2016.

There were no exceedences or bypass reports for the Derek Guthrie WQTC.

Also attached are the 4th qtr bio monitoring dmr and overflow reports.

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

John Kessel
Process Supervisor, West Region

JMK/West County 12/16
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

No errors.

Comments

Attachments

Name	Type	Size
DRG_MOR_122016.xls	xls	125952
201612DRGWQTCOverflowReport.pdf	pdf	100939
DRG_cover_122016.pdf	pdf	129097

Report Last Saved By

Derek R Guthrie WQTC MSD

User:	kevin.ries@louisvillemsd.org	Date/Time:	2017-01-24 13:00 (Time Zone: -05:00)
Name:	Kevin Ries		
E-Mail:	kevin.ries@louisvillemsd.org		

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 12/01/16 to 12/31/16			DMR Due Date:	01/28/17				Status:	NetDMR Validated										
Considerations for Form Completion																				
Principal Executive Officer																				
First Name:	James A.			Title:	Exec 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				
01032	Chromium, hexavalent [as Cr]	1 - Effluent Gross	0	--							<		0.005	<	0.005	19 - mg/L		XX/XX - Frequency as Reported	CP - COMPOS	
													Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	0	01/30 - Monthly	CP - COMPOS	
Submission Note																				
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Edit Check Errors																				
No errors.																				
Comments																				
Attachments																				
No attachments.																				
Report Last Saved By																				
Derek R Guthrie WQTC MSD																				
User:	kevin.ries@louisvillemtd.org								Date/Time:	2017-01-24 13:00 (Time Zone: -05:00)										
Name:	Kevin Ries																			
E-Mail:	kevin.ries@louisvillemtd.org																			

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 10/01/16 to 12/31/16	DMR Due Date:	01/28/17	Status:	NetDMR Validated
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Considerations for Form Completion

Principal Executive Officer

First Name:	James A.	Title:	Exec 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
00900	Hardness, total [as CaCO3]	1 - Effluent Gross	0	--	Sample						=	232	=	232	19 - mg/L	0	XX/XX - Frequency as Reported 01/90 - Quarterly	CP - COMPOS G2 - GRAB-2
					Permit Req.													
					Value NODI													
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample						=	0.043	=	0.043	19 - mg/L	0	XX/XX - Frequency as Reported 01/90 - Quarterly	CP - COMPOS G2 - GRAB-2
					Permit Req.													
					Value NODI													
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.0001	<	0.0001	19 - mg/L	0	XX/XX - Frequency as Reported 01/90 - Quarterly	CP - COMPOS G2 - GRAB-2
					Permit Req.													
					Value NODI													
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.001	<	0.001	19 - mg/L	0	XX/XX - Frequency as Reported 01/90 - Quarterly	CP - COMPOS G2 - GRAB-2
					Permit Req.													
					Value NODI													
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample						=	0.004	=	0.004	19 - mg/L	0	XX/XX - Frequency as Reported 01/90 - Quarterly	CP - COMPOS G2 - GRAB-2
					Permit Req.													
					Value NODI													
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample								<	1	2F - tox acute	0	XX/XX - Frequency as Reported 01/90 - Quarterly	GR - GRAB G2 - GRAB-2
					Permit Req.								<=	1 DAILY MX	2F - tox acute			
					Value NODI													

Submission Note

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Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Derek R Guthrie WQTC MSD

User:	kevin.ries@louisvillemtd.org	Date/Time:	2017-01-24 13:00 (Time Zone: -05:00)
Name:	Kevin Ries		
E-Mail:	kevin.ries@louisvillemtd.org		

Name of Sewage Treatment Plant: West County WTP Jefferson County Month of: December 2016

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					Dig Sludge		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	Million Gall/Day	MLSS mg/L X 1000	Gal/Day X 1000	Phosphorus Oxygen (mg/L) #1	Phosphorus Oxygen (mg/L) #2	MLSS (mg/L) X1000 #1	MLVSS (mg/L) X1000 #1	30 min. Setts.	SVI	% Solids	Phosphorus (mg/L)	TKN (mg/L)	Chlorine Residual (mg/L)	NH3-N (mg/L)	Fecal Coliform Col./100ml	Hexavalent Chromium	Hardness
1	19.71			7.1	7.1						222		5				165		8		3770				2960	2340	145.0	0.05				0.02	4.10	1			
2	19.29			7.2	7.0						225		7				195		19		3710				2680	2120	140.0	0.05				0.02	5.20	2			
3	18.33			7.1	7.0						365		7				201		17		3880				2100	1650	120.0	0.06				0.02	6.70	9			
4	18.46			7.2	7.2						250		7				265		12		3590				2300	1770	130.0	0.06				0.02	6.90	5			
5	16.46			7.2	7.1						278		5				226		11		3550				1970	1550	130.0	0.07			7.00	0.02	5.20	5			
6	54.65			6.8	6.7						262		14				163		26		3810				2560	2020	140.0	0.05	2.54			0.02	5.20	8			
7	58.69			6.7	6.8						118		10				105		18		5680				1220	930	85.0	0.07				0.02	5.30	55			
8	38.60			7.0	7.0						194		7				138		14		4940				2010	1610	120.0	0.06				0.02	6.00	18			
9	21.48			7.2	7.1						270		7				329		16		4610				2410	2010	150.0	0.06				0.02	4.10	37			
10	19.89			7.3	7.2						265		6				236		13		4130				2510	1920	150.0	0.06				0.02	4.30	42			
11	20.23			7.0	7.1						218		9				188		10		3820				2470	1890	150.0	0.06				0.02	4.60	11			
12	45.56			7.1	7.0						190		10				153		17		5670				1780	1380	110.0	0.06				0.02	4.70	59			
13	23.90			7.1	7.0						270		7				230		15		4510				2610	2030	150.0	0.06			6.12	3.00	0.02	3.40	1		224
14	21.70			7.0	7.0						242		6				225		19		3840				2310	1730	150.0	0.06				0.02	3.50	5	0.005		
15	19.90			7.1	7.0						196		6				166		10		4000				2160	1620	140.0	0.06				0.02	3.50	3			
16	18.87			7.2	6.9						108		6				386		13		4060				2560	1950	150.0	0.06				0.02	4.60	2			
17	29.30			7.1	7.0						305		15				268		25		4150				2460	1920	150.0	0.06				0.02	5.00	22			
18	130.23			7.2	7.0						100		14				76		19		6390				1700	1310	90.0	0.05				0.02	2.40	140			
19	76.65			7.4	7.1						188		10				315		18		5280				2080	1600	130.0	0.06				0.02	2.50	95			
20	57.64			7.2	7.2						562		9				227		18		6270				2420	1870	150.0	0.06	0.99	5.20		0.02	4.20	2			
21	47.80			7.1	7.4						226		9				179		18		5710				2470	2010	151.0	0.06				0.02	4.80	21			
22	37.15			6.9	7.1						94		8				222		16		5440				2460	2050	150.0	0.06				0.02	4.30	29			
23	22.58			8.8	7.3						345		8				344		17		4850				3240	2490	200.0	0.06				0.02	2.90	95			
24	75.06			7.0	7.0						132		13				151		27		6850				2090	1590	140.0	0.07				0.02	3.50	155			
25	54.49			7.4	7.3						133		8				110		15		6110				3340	2750	170.0	0.05				0.02	3.20	23			
26	51.03			7.3	7.4						136		9				69		20		5840				2760	2180	180.0	0.07				0.02	3.90	10			
27	78.82			7.2	7.3						100		8				60		16		6800				1820	1450	147.0	0.08	1.53	3.40		0.02	2.20	16			
28	49.18			7.1	6.6						174		9				114		11		5520				2950	2310	200.0	0.07				0.02	3.50	4			
29	55.38			7.3	7.3						90		8				83		15		6160				2150	1730	155.0	0.07				0.02	7.20	7			
30	46.37			7.1	7.0						195		12				115		8		5830				1990	1580	150.0	0.08				0.02	6.40	28			
31	43.79			7.3	7.5						170		12				96		15		5510				2350	1880	150.0	0.06				0.02	6.90	12			
Total	1291.19	0	0																	0.0		0.0															
Avg.	41.65			7.2	7.1						214		9				187		16		4976.8				2351	1846.45	144.29	0	2.80	4.65	0.02	4.52	13	0.005	224		

Total Number of Sewer Connections: 0 Industrial Waste Population Equivalent _____ Operator Deb Hathaway
 Residential Connections: _____
 Commercial Connections: _____ 396679 382306 353401 Cert. # #16354
 Industrial Connections: _____ Flow BOD TSS
 Sewer Connections X 4 = 0 Phone # 502-540-6042

Report Selections: Period: 12/01/2016 00:00 thru 12/31/2016 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
SMN Sewer Main	06940D-AG	3706 NOBEL CT		MILL CREEK	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISDW: DRY WEATHER DISCHARGE	2655257		12/13/2016	ROTTET JR	CHESSER	REPAIRED - ISSUE RESOLVED	12/13/2016	STRUCTURAL FAILURE	UNAUTHORIZED DISCHAGE - WATERS	12/13/16 08:30 AM	

Discharge Reporting:

Discharge Amount:	1,000 GAL
Cause:	FORCE MAIN BREAK
Clean Up:	MSD TO SANITIZE AREA WHEN REPAIRS COMPLETED
Control Zone:	TEMPORARY SIGNS SET UP
Impact:	SOLIDS, PERSONAL HYGIENE PRODUCTS, SEWAGE
Repair:	SHUT OFF PUMPS, B&H HAULED STATION WHILE CHEROKEE CONSTRUCTION MADE REPAIRS TO FORCE MAIN
Public Notification:	PAGE SENT OUT FOR DRY WEATHER DISCHARGE

Notifications:

12/13/16 1:00 am	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO 'DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV'
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Report Selections: Period: 12/01/2016 00:00 thru 12/31/2016 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	84926	5007 LEA ANN WAY		NORTHERN DITCH	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	2657902		12/18/2016	ROTTET JR	PAULEY	REPAIRED - ISSUE RESOLVED	12/18/2016	MECHANICAL FAILURE	UNAUTHORIZED DISCHARGE - WATERS	12/18/16 04:45 AM	

Discharge Reporting:

Discharge Amount:	10,000 GAL
Cause:	LACK OF SYSTEM CAPACITY DURING RAIN EVENT, ONE PUMP OUT OF SERVICE FOR LEA ANN WAY SYSTEM IMPROVEMENTS.
Clean Up:	MSD TO CLEAN AND SANITIZE IMPACTED AREA.
Control Zone:	TEMPORARY SIGNS SET UP ALONG CREEK.
Impact:	SEWAGE.
Repair:	PUMPED OUT OF MANHOLE WITH ONE 6" DISCHARGE PUMP TO PREVENT BASEMENT FLOODING IN SURROUNDING NEIGHBORHOODS.
Public Notification:	TEMPORARY SIGNS.

Notifications:

12/18/16 1:00 am	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO 'DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV'
12/18/16 1:00 am	DISSNO	SUPPLEMENTAL EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE HAS BEEN SENT TO 'DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV'

Total Facilities Printed: 2

Total Work Orders Printed: 2