



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

October 11, 2023

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

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

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

Also attached is the 3rd quarter Biomonitoring report.

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 9/23

Enclosures

cc: B. Tinnell
V. Graves
M. Saylor

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										=	5.0	=	13.0	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										=	96.0				23 - %		01/30 - Monthly	CA - CALCTD			
					Permit Req.														>=	85.0 MO AV MN			23 - %	0	01/30 - Monthly	CA - CALCTD
					Value NODI																					
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample										=	99.0				23 - %		01/30 - Monthly	CA - CALCTD			
					Permit Req.														>=	85.0 MO AV MN			23 - %	0	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
202309DRG_MOR.pdf	pdf	137217.0
202309DRG_COVERLETTER.pdf	pdf	34359.0

Report Last Saved By

Derek R Guthrie WQTC MSD

User: JON.BALDRIDGE@LOUISVILLEMSD.ORG
 Name: Jonathan Baldrige
 E-Mail: jon.baldrige@louisvillemtd.org
 Date/Time: 2023-10-11 13:32 (Time Zone: -04:00)

Report Last Signed By

User: kevin.thompson@louisvillemtd.org
 Name: Kevin Thompson
 E-Mail: kevin.thompson@louisvillemtd.org
 Date/Time: 2023-10-17 10:05 (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:	001-2 QUARTERLY BIOMONITORING		

Report Dates & Status

Monitoring Period:	From 07/01/23 to 09/30/23	DMR Due Date:	10/28/23	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	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			
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

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Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Derek R Guthrie WQTC MSD

User: JON.BALDRIDGE@LOUISVILLEMSD.ORG
 Name: Jonathan Baldrige
 E-Mail: jon.baldrige@louisvillemSD.org
 Date/Time: 2023-10-11 13:16 (Time Zone: -04:00)

Report Last Signed By

User: kevin.thompson@louisvillemSD.org
 Name: Kevin Thompson
 E-Mail: kevin.thompson@louisvillemSD.org
 Date/Time: 2023-10-17 10:03 (Time Zone: -04:00)

Name of Sewage Treatment Plan West County WTP County Jefferson Month of: September 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 Chlorine Residual (mg/L)	Final NH3-N (mg/L)	Final E. Coli (MPN)	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	Gal/Day X 1000	Dissolved Oxygen (mg/L) #1	Dissolved Oxygen (mg/L) #2	(mg/L) X 1000 #1 & #2	MLVSS (mg/L) X 1000	30 min. SVI				60 min. SVI	% Solids		Raw	Final	Raw
1	15.24			7.1	7.5				6.5		1000.0		8.0				631.0	25.0	5600							2350	1980	150				0.016	8.00	20				
2	15.36			7.2	7.3				6.3		1020.0		7.0				663.0	16.0	4920													0.016	6.10	2				
3	17.09			7.4	7.4				6.3		490.0		7.0				428.0	24.0	4620												0.016	5.90	2					
4	19.80			7.2	7.3				6.3		400.0		6.0				471.0	18.0	4540												0.016	4.70	24					
5	22.68			7.4	7.0				5.9		576.0		10.0				555.0	16.0	4900											15.00	3.35	0.016	3.30	6	45	20		
6	20.80			7.3	7.2				4.6		6800.0		11.0				2580.0	25.0	6680												0.016	11.00	9					
7	19.42			7.3	7.3				5.6		484.0		14.0				529.0	40.0	6220												0.016	16.00	12		224	0.005		
8	18.47			7.2	7.3				6.0		960.0		10.0				667.0	21.0	6000												0.016	14.00	2					
9	17.45			7.1	7.4				5.8		748.0		11.0				618.0	49.0	5520												0.016	11.00	40					
10	18.88			7.3	7.3				5.6		760.0		10.0				584.0	19.0	5220												0.016	11.00	2					
11	19.28			7.2	7.2				5.2		684.0		10.0				514.0	19.0	5780										14.60	2.62	0.016	11.00	4	49	18			
12	19.75			7.1	7.6				6.0		1320.0		11.0				906.0	26.0	6060												0.016	14.00	2					
13	20.07			7.3	7.6				5.6		1190.0		13.0				744.0	37.0	6720												0.016	14.00	7					
14	18.90			7.4	7.6				5.4		1050.0		10.0				651.0	28.0	5080												0.016	14.00	2					
15	17.75			7.3	7.6				5.7		1120.0		11.0				670.0	29.0	5860												0.016	13.00	9					
16	17.22			7.4	7.6				5.1		944.0		9.0				626.0	25.0	5920												0.016	14.00	11					
17	18.86			7.3	7.6				6.1		844.0		9.0				618.0	18.0	5560												0.016	13.00	2					
18	18.32			7.3	7.2				5.4		1060.0		10.0				588.0	20.0	5480										20.70	4.16	0.016	12.00	2	67	19			
19	23.59			7.4	7.1				6.0		1200.0		11.0				2230.0	24.0	7080												0.016	14.00	71					
20	24.50			7.3	7.2				5.0		1140.0		12.0				747.0	37.0	7240												0.016	15.00	446					
21	19.21			7.1	7.2				5.5		748.0		16.0				527.0	29.0	5880							4150.00	3530	200				0.016	16.00	6				
22	14.68			7.3	7.1				6.4		916.0		9.0				616.0	23.0	5920												0.016	14.00	2					
23	14.24			7.3	7.4				6.4		932.0		10.0				666.0	48.0	6220							3000.00	2530	200				0.016	15.00	2				
24	18.59			7.3	7.5				6.3		768.0		9.0				556.0	17.0	5900												0.016	13.00	2					
25	18.42			7.2	7.6				6.1		1300.0		10.0				823.0	12.0	6340										13.60	2.21	0.016	12.00	2	54	17			
26	18.19			7.6	7.2				5.8		1200.0		10.0				327.0	22.0	6080												0.016	13.00	2					
27	16.11			7.3	7.5				5.1		776.0		14.0				661.0	58.0	6940												0.016	19.00	14					
28	28.01			7.2	7.3				5.7		976.0		16.0				652.0	33.0	6680												0.016	18.00	2					
29	18.51			7.1	7.5				6.1		820.0		17.0				530.0	29.0	7820												0.016	8.50	2					
30	18.86			7.4	7.3				6.4		616.0		8.0				597.0	15.0	5720												0.016	3.10	2					
31																																						
Total	568.2	0	0															0.0	0.0																			
Avg.	18.94			7.3	7.4				5.8		1094.7		10.6				732.5	26.7	5950.00								2708.00	2294.00	167.00		15.98	3.09	0.016	11.89	5	53	30	0.005

Industrial Connections: 36173
34248
1907
18
Sewer Connections X 3 = 102744

77642 Flow
577895 BOD
720725 TSS

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