



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

January 19, 2021

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 December 2020.**

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 December 2020.

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

Also attached is the 4th quarter Bio. NETDMR.

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 12/20
Enclosures

cc: C. Roth
V. Graves
R. Shaw

DMR Copy of Record

Permit

Permit #:

KY0078956

Major:

Yes

Permittee:

Derek R Guthrie WQTC MSD

Permittee Address:

700 W Liberty St
Louisville, KY 40203

Facility:

DEREK R GUTHRIE WQTC MSD

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 10/01/20 to 12/31/20

DMR Due Date:

01/28/21

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

James A.

Last Name:

Parrott

Title:

Executive Director

Telephone:

502-540-6000

No Data Indicator (NODI)

Form NODI:

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Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type		
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample										<	1.0	2F - tox acute	0	01/90 - Quarterly	24 - COMP24
					Permit Req.										<=	1.0 MAXIMUM	2F - tox acute		01/90 - Quarterly	24 - COMP24
					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:

JOSEPH.SMITH@LOUISVILLEMSD.ORG

Name:

Joseph Smith

E-Mail:

joseph.smith@louisvillemسد.org

Date/Time:

2021-01-21 09:31 (Time Zone: -05:00)

Report Last Signed By

User:

kevin.thompson@louisvillemسد.org

Name:

Kevin Thompson

E-Mail:

kevin.thompson@louisvillemسد.org

Date/Time:

2021-01-22 12:17 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:

KY0078956

Major:

Yes

Permittee:

Derek R Guthrie WQTC MSD

Permittee Address:

700 W Liberty St
Louisville, KY 40203

Facility:

DEREK R GUTHRIE WQTC MSD

Facility Location:

11621 LOWER RIVER RD
LOUISVILLE, KY 40272

Permitted Feature:

001
External Outfall

Discharge:

001-1
SANITARY WASTEWATER

Report Dates & Status

Monitoring Period:

From 12/01/20 to 12/31/20

DMR Due Date:

01/28/21

Status:

NetDMR Validated

Considerations for Form Completion

Parameter 00610 - Use Season 1 for summer months (May, June, July, August, September, and October) and Season 2 for winter months (November, December, January, February March, and April); enter NODI=9 for the Season not needed.

Principal Executive Officer

First Name:

James A

Last Name:

Parrott

Title:

Executive Director

Telephone:

502-540-6000

No Data Indicator (NODI)

Form NODI: --

80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	4546.0	=	5251.0	26 - lb/d			=	11.0	=	13.0	19 - mg/L	0	01/01 - Daily	24 - COMP24
					Permit Req.	<=	15021.0 MO AVG	<=	22532.0 MX WK AV	26 - lb/d			<=	30.0 MO AVG	<=	45.0 MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24
					Value NODI															
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	--	Sample								=	243.0	=	330.0	19 - mg/L	0	01/01 - Daily	24 - COMP24
					Permit Req.									Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/01 - Daily	24 - COMP24
					Value NODI															
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample						=	96.0					23 - %	0	01/30 - Monthly	CA - CALCTD
					Permit Req.						>=	85.0 MO AV MN					23 - %		01/30 - Monthly	CA - CALCTD
					Value NODI															
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample						=	98.0					23 - %	0	01/30 - Monthly	CA - CALCTD
					Permit Req.						>=	85.0 MO AV MN					23 - %		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
1220_DRG_COVERLETTER.pdf	pdf	35888.0
1220_DRG_MOR.pdf	pdf	133545.0

Report Last Saved By

Derek R Guthrie WQTC MSD

User:JOSEPH.SMITH@LOUISVILLEMSD.ORG

Name:Joseph Smith

E-Mail:joseph.smith@louisvillemSD.org

Date/Time:2021-01-21 09:30 (Time Zone: -05:00)

Report Last Signed By

User:kevin.thompson@louisvillemSD.org

Name:Kevin Thompson

E-Mail:kevin.thompson@louisvillemSD.org

Date/Time:2021-01-22 12:16 (Time Zone: -05:00)

Name of Sewage Treatment Plan

West County WTP

Jefferson

Month of:

December

2020

KPDES Permit Number:

KY0078956

Plant Capacity:

30 MGD

County

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	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	Oxygen (mg/L) #1	Oxygen (mg/L) #2	(mg/L) x 1000 #1	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
1	75.34			7.2	7.2				7.0			264.0		9.0			261.0		8.0	6280						2380	1980	170			6.58	0.71	0.016	1.20	55	72	9				
2	59.96			6.9	7.7				7.0			496.0		6.0			242.0		11.0	5780						2660	2240	170					0.016	0.90	2						
3	52.80			7.2	7.2				7.0			840.0		6.0			292.0		11.0	8280						3400	2920	220					0.016	0.84	54						
4	49.67			7.2	7.4				7.0			907.0		12.0			492.0		11.0	8200						3380	2700	240					0.016	1.20	115						
5	44.05			6.9	7.1				7.0			1040.0		6.0			480.0		6.0	10700						5420	3980	340					0.016	0.20	68						
6	43.41			6.9	7.3				7.0			816.0		6.0			311.0		8.0	8760						3760	3080	270					0.016	0.50	30						
7	40.80			7.1	7.1				7.0			296.0		5.0			230.0		12.0	10500						4120	3400	310					0.016	0.36	6						
8	36.93			7.0	7.6				7.0			1080.0		6.0			386.0		10.0	9740						5000	4220	340			21.40	1.04	0.016	0.66	151	72	12				
9	37.72			7.1	7.6				7.0			1350.0		4.0			324.0		6.0	7960						3620	3020	310					0.016	0.50	9						
10	38.47			7.1	7.1				7.0			1670.0		6.0			396.0		12.0	7840						3840	3120	290					0.016	1.80	8						
11	38.28			7.2	7.2				7.0			496.0		5.0			295.0		8.0	9120						3640	2980	250					0.016	0.47	18						
12	38.82			7.2	7.4				7.0			364.0		6.0			246.0		9.0	9380						3780	3040	260					0.016	0.45	9						
13	36.13			7.0	7.3				7.0			400.0		7.0			232.0		8.0	9460						3560	2900	250					0.016	1.40	10						
14	39.72			7.1	7.3				7.0			720.0		6.0			311.0		12.0	9720						3640	2980	250					0.016	2.30	2						
15	37.77			7.1	7.1				7.2			408.0		9.0			239.0		11.0	9680						3500	3000	260			8.31	0.97	0.016	2.30	2	35	12				
16	47.19			7.0	7.2				7.0			432.0		10.0			248.0		13.0	9180						3560	2900	250					0.016	2.90	2						
17	39.75			6.9	7.4				7.0			168.0		7.0			131.0		11.0	8980						3320	2760	260					0.016	2.00	6						
18	42.63			7.4	7.5				7.0			268.0		7.0			201.0		10.0	8320						3740	3240	270					0.016	2.10	2						
19	40.15			7.0	7.2				7.0			158.0		6.0			115.0		9.0	8020						3420	2700	250					0.016	1.70	1950						
20	54.58			7.0	7.0				7.0			162.0		8.0			104.0		6.0	8800						3760	3000	250					0.016	0.63	62						
21	50.20			7.2	7.6				7.0			604.0		7.0			310.0		9.0	8140						4120.00	3460	240					0.016	0.74	11						
22	44.31			7.2	7.4				7.0			356.0		7.0			247.0		9.0	8820						3600	3000	300			7.36	0.55	0.016	0.55	37	34	10				
23	42.78			7.3	7.2				7.0			182.0		9.0			223.0		20.0	9340						4520.00	3700	310					0.016	3.00	23						
24	62.53			7.0	6.9				7.0			164.0		19.0			134.0		20.0	9500						3280	2640	210					0.016	3.30	39						
25	49.22			7.0	6.9				7.0			158.0		8.0			128.0		13.0	7660						4160	3320	300					0.016	2.40	6						
26	46.49			7.1	7.0				7.0			222.0		7.0			154.0		12.0	6600						3640	2860	250					0.016	3.10	2						
27	44.89			7.0	7.1				7.0			83.0		4.0			91.0		6.0	6000						3140	2660	250					0.016	3.20	11						
28	43.53			7.3	7.2				7.0			404.0		5.0			325.0		10.0	4800						3280	2740	240					0.016	3.00	2						
29	39.48			7.3	7.5				7.0			208.0		4.0			178.0		7.0	8500						5120	4220	350					0.016	3.00	4						
30	49.70			7.2	7.2				7.0			138.0		11.0			134.0		16.0	9480						4960	4080	350					0.016	2.80	4						
31	134.28			7.2	6.8				7.0			94.0		47.0			70.0		18.0	8480						2680	2380	180					0.016	0.72	9						
Total	1501.8	0	0																	0.0		0.0																			
Avg.	48.44			7.1	7.2				7.0			482.2		8.5			242.9		10.7	8452.26							3741.94	3071.61	264.19			10.91	0.82	0.016	1.62	13	50	11			

Industrial Connections:
Sewer Connections X 3 =

36173
34248
1907
18
102744

358565
Flow

474463
BOD

824831
TSS

Operator

Gary Phelps

Cert. #

30428

Phone #

502-540-6000