



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

January 10, 2017

Ms. Cheryl Edwards  
Kentucky Division of Water  
300 Sower Blvd., 3<sup>rd</sup> Floor  
Frankfort, Kentucky 40601

**RE: Floyds Fork WQTC, KPDES No: KY0102784  
Discharge Monitoring Report for December 2016.**

Dear Ms. Edwards:


Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Floyds Fork WQTC for the month of December 2016.

There were no exceedances or bypasses to report.

Also attached is the 4<sup>th</sup> quarter Biomonitoring DMR and an overflow report.

If you have any questions concerning the attached DMR's, please contact me at (502) 239-7574.

Sincerely,

  
Kevin Thompson  
Process Supervisor Central Region

KLT/Floyds Fork 12.16.doc

Enclosures

cc: V. Graves  
R. Shaw

**DMR Copy of Record**

<b>Permit</b>			
<b>Permit #:</b>	<b>KY0102784</b>	<b>Permittee:</b>	Floyds Fork WQTC MSD
<b>Major:</b>	Yes	<b>Permittee Address:</b>	700 W Liberty St Louisville, KY 40203
<b>Permitted Feature:</b>	001 External Outfall	<b>Discharge:</b>	<b>001-1</b> MUNICIPAL DISCHARGE
<b>Facility:</b>		<b>Facility Location:</b>	FLOYDS FORK WQTC MSD 1100 BLUE HERON RD LOUISVILLE, KY 40245

<b>Report Dates &amp; Status</b>			
<b>Monitoring Period:</b>	<b>From 12/01/16 to 12/31/16</b>	<b>DMR Due Date:</b>	<b>01/28/17</b>
<b>Status:</b>	<b>NetDMR Validated</b>		

**Considerations for Form Completion**

<b>Principal Executive Officer</b>			
<b>First Name:</b>	James A.	<b>Title:</b>	Executive Director
<b>Last Name:</b>	Parrott	<b>Telephone:</b>	502-540-6000

**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
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample	=	9									19 - mg/L	0	01/01 - Daily	GR - GRAB
					Permit Req.	>=	7 INST MIN									19 - mg/L	0	01/07 - Weekly	GR - GRAB
					Value NODI														
00400	pH	1 - Effluent Gross	0	--	Sample	=	7.2					=	7.9		12 - SU	0	01/01 - Daily	GR - GRAB	
					Permit Req.	>=	6 MINIMUM				<=	9 MAXIMUM		12 - SU	0	01/07 - Weekly	GR - GRAB		
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	85	=	125	26 - lb/d		=	3	=	3	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS
					Permit Req.	<=	1626 MO AVG	<=	2439 MX WK AV	26 - lb/d		<=	30 MO AVG	<=	45 MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Value NODI														
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample						=	334	=	353	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS	
					Permit Req.							Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24	
					Value NODI														
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample						=	15	=	35	19 - mg/L	0	01/07 - Weekly	CP - COMPOS	
					Permit Req.							Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24	
					Value NODI														
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	2	--	Sample	=	37	=	64	26 - lb/d		=	1	=	2	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS
					Permit Req.	<=	163 MO AVG	<=	244 MX WK AV	26 - lb/d		<=	3 MO AVG	<=	4.5 MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Value NODI														
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample	=	8.5	=	12.5	26 - lb/d		=	0.3	=	0.3	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS
					Permit Req.	<=	27.1 MO AVG	<=	40.7 MX WK AV	26 - lb/d		<=	.5 MO AVG	<=	.75 MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Value NODI														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	3.1	=	3.82	03 - MGD							0	99/99 - Continuous	CN - CONTIN
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD							0	99/99 - Continuous	RE - Record (manual)
					Value NODI														
50050	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	--	Sample	=	3.374	=	4.18	03 - MGD							0	99/99 - Continuous	CN - CONTIN
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD							0	99/99 - Continuous	RE - Record (manual)
					Value NODI														
51040	E. coli	1 - Effluent Gross	0	--	Sample						=	2	=	3	13 - #/100mL	0	03/07 - Three Per Week	GR - GRAB	
					Permit Req.							<=	130 30DA GEO	<=	240 7 DA GEO	13 - #/100mL	0	01/07 - Weekly	GR - GRAB
					Value NODI														
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	73	=	125	26 - lb/d		=	3	=	3	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS
					Permit Req.	<=	325 MO AVG	<=	488 MX WK AV	26 - lb/d		<=	6 MO AVG	<=	9 MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Value NODI														
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	--	Sample						=	117	=	142	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS	
					Permit Req.							Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24	
					Value NODI														
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample						=	98			23 - %	0	01/30 - Monthly	CA - CALCTD	
					Permit Req.							>=	85 MO AV MN		23 - %	0	01/30 - Monthly	CA - CALCTD	
					Value NODI														
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample						=	99			23 - %	0	01/30 - Monthly	CA - CALCTD	
					Permit Req.							>=	85 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
201612FFWQTCTOverflowReport.pdf	pdf	97087
201612_FloydsFork_coverletter.pdf	pdf	128816
201612_FloydsFork_MOR.pdf	pdf	118021

**Report Last Saved By**

**Floyds Fork WQTC MSD**

User:	kevin.ries@louisvillemsd.org	Date/Time:	2017-01-12 10:33 (Time Zone: -05:00)
Name:	Kevin Ries		
E-Mail:	kevin.ries@louisvillemsd.org		

## DMR Copy of Record

Permit																					
Permit #:	KY0102784			Permittee:	Floyds Fork WQTC MSD				Facility:	FLOYDS FORK WQTC MSD											
Major:	Yes			Permittee Address:	700 W Liberty St Louisville, KY 40203				Facility Location:	1100 BLUE HERON RD LOUISVILLE, KY 40245											
Permitted Feature:	001 External Outfall			Discharge:	001-2 TOXICITY																
Report Dates & Status																					
Monitoring Period:	From 10/01/16 to 12/31/16			DMR Due Date:	01/28/17				Status:	NetDMR Validated											
Considerations for Form Completion																					
THREE 24-HOUR COMPOSITE SAMPLES ONE EACH COLLECTED EVERY OTHER DAY FOR A PERIOD OF 5 DAYS; IE - DAYS 1, 3 & 5																					
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					
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample										<	1	2G - tox chronic	01/90 - Quarterly	24 - COMP24		
					Permit Req.										<=	1 MAXIMUM	2G - tox chronic	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																					
Floyds Fork WQTC MSD																					
User:	kevin.ries@louisvillemsd.org								Date/Time:	2017-01-12 10:27 (Time Zone: -05:00)											
Name:	Kevin Ries																				
E-Mail:	kevin.ries@louisvillemsd.org																				

NAME OF TREATMENT PLANT FLOYDS FORK COUNTY JEFFERSON MONTH OF: December 2016  
 KPDES PERMIT NUMBER KY0102784 PLANT CAPACITY 3.5 MGD RECEIVING STREAM FLOYDS FORK

DATE	TOTAL FLOW (MILLION GALLONS)	RAW SEWAGE		pH		SETTLABLE SOLIDS (mg/L)			DISSOLVED OXYGEN (mg/L)			SUSPENDED SOLIDS (mg/L)			5 DAY CBOD (mg/L)			ACTIVATED SLUDGE			AERATION BASIN						SLUDGE HANDLING						FINAL			Total Nitrogen	TOTAL FLOW (MILLION GALLONS)	
		GRIT REMOVED (CUBIC FEET)	SCREENINGS (CUBIC FEET)	RAW	FINAL	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	STREAM ABOVE	FINAL EFFLUENT	STREAM BELOW	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	CAL/DAY X 1000	MLSS X 1000	CAL/DAY X 1000	WAST ED	DISOLVED OXYGEN (mg/L)	MLSS (mg/L) X 1000	MLVSS (mg/L) X 1000	30 MIN.	60 MIN.	GALLONS X 1000	RAW			HAULED			PHOSPHORUS, TOTAL (mg/L)	NH3-N (mg/L)			ECOLI
																												% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS	WITHDRAWN GALLONS X 1000						
1	2.163	2.48	2.48	7.1	7.5				8.6		88		3	77		3	1.27	6420	59000	4.2	2350	1960	300		2.44					69300	0.30	0.20				2	2.43658	
2	2.048	2.48	2.48	7.0	7.5				8.8							1.29	6450	58000	4.4	2280	2000	350		2.29					69000							2	2.28527	
3	2.182	2.48	2.48	7.1	7.5				8.8							1.04	6480	50000	4.4	2360	2070	350		2.42					0								2.4145	
4	2.262	2.48	2.48	7.4	7.7				8.8		604		3	225		1.02	6390	50000	4.5	2250	1860	300		2.41			0.94	0	0.30	0.64				35.24	2.41358			
5	2.241	2.48	2.48	7.3	7.4				9.0		206		3	104		0.95	6010	61000	3.7	2260	1880	350		2.37				69000	0.30	0.50				1	2.36716			
6	3.984	2.48	2.48	7.1	7.4				8.9							0.85	6020	63000	4.2	2340	1960	350		4.24				87900						1	4.24414			
7	3.124	2.48	2.48	7.1	7.6				9.1							1.05	7470	48000	6.0	2210	1780	330		3.52				100800								3.51551		
8	2.508	2.48	2.48	7.1	7.6				9.0		378		3	89		0.95	6110	55000	6.2	2070	1720	300		2.86				63000	0.30	0.20						2.86042		
9	2.348	2.48	2.48	7.1	7.5				9.7							0.88	6020	58000	4.1	2130	1750	350		2.57				25200						1	2.56841			
10	2.319	2.48	2.48	7.0	7.5				9.7							0.84	5800	50000	3.8	2120	1780	350		2.57				0								2.56633		
11	2.589	2.48	2.48	7.1	7.4				9.2		436		3	220		0.56	5930	50000	4.3	2050	1710	300		2.64		1.66	0	0.30	1.20				11.82	2.63905				
12	3.220	2.48	2.48	7.4	7.5				9.0		246		3	116		0.64	6110	58000	4.4	2190	1800	300		3.43				69300	0.30	6.00				1	3.43039			
13	2.948	2.48	2.48	7.1	7.4				8.7							0.56	6510	52000	4.3	2090	1770	250		2.99				63000						1	2.99255			
14	2.403	2.48	2.48	7.3	7.5				9.4							0.56	6310	53000	4.3	2060	1730	250		2.63				75600								2.63136		
15	2.278	2.48	2.48	7.3	7.4				9.4		548		3	87		0.50	6660	51000	4.1	2080	1750	270		2.56				113400	0.30	2.50						2.56182		
16	2.264	2.48	2.48	7.3	7.5				9.3							0.51	6690	50000	3.8	2070	1730	250		2.46				88200						1	2.45875			
17	2.899	2.48	2.48	7.3	7.7				9.2							1.10	7250	45000	3.7	2000	1690	250		3.17				30000								3.17275		
18	7.968	2.48	2.48	7.3	7.6				9.1		242		3	83		1.12	6520	50000	3.9	2010	1700	250		9.81		1.42	0	0.30	0.74			4.46				9.80946		
19	4.744	2.48	2.48	7.2	7.5				9.2		200		3	87		1.22	7610	45000	5.5	2080	1760	250		4.53				68400	0.30	0.20			18		4.52851			
20	3.608	2.48	2.48	7.1	7.4				9.9							0.48	7580	45000	5.3	2090	1770	250		3.56				63000						1	3.56237			
21	2.979	2.48	2.48	7.1	7.4				9.9							1.50	6590	51000	5.5	2060	1750	240		3.17				69300								3.1685		
22	2.660	2.48	2.48	7.1	7.2				9.5		294		3	90		0.55	7700	43000	4.8	2010	1690	240		2.99				69300	0.30	2.70						2.98662		
23	2.623	2.48	2.48	7.2	7.6				9.2							0.44	7010	49000	4.4	2100	1720	240		2.84				69300						21		2.8431		
24	4.219	2.48	2.48	7.1	7.6				9.0							0.49	7220	50000	4.8	2070	1740	230		4.48				18900								4.48407		
25	3.308	2.48	2.48	7.3	7.9				9.0							0.41	7530	50000	5.0	2110	1690	230		3.58				24000								3.5822		
26	3.355	2.48	2.48	7.3	7.6				9.0		508		3	136		0.52	6980	49000	3.7	2090	1750	230		3.49		2.09	75600	0.30	0.20						3.48711			
27	4.732	2.48	2.48	7.4	7.6				9.2		256		3	88		0.69	6750	50000	4.6	2050	1720	230		5.22				63000	0.30	1.40			1	7.67	5.2149			
28	3.505	2.48	2.48	7.4	7.7				9.3							0.65	6970	45000	4.7	2010	1710	200		3.82				75600						2		3.81612		
29	3.125	2.48	2.48	7.3	7.7				9.1							0.60	6880	47000	4.4	2000	1650	200		3.44				31500								3.44219		
30	2.791	2.48	2.48	7.1	7.5				9.1							0.74	6370	51000	4.9	2000	1680	200		3.11				31500								3.11232		
31	2.847	2.48	2.48	7.1	7.7				9.2							0.55	6440	40000	4.2	2050	1730	200		3.01				0								3.00664		
Tot.	96.24	76.88	76.88						9.2							24.53																					104.80	
Avg.	3.105	2.48	2.48	7.2	7.5				9.2		334		3	117		0.791	6670	50838.71	4.519	2117	1774	270.6		3.374		1.528	51067.742	0.30	1.37		2	14.8			3.374			

RESIDENTIAL  
 COMMERCIAL  
 INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT  
 29568  
 FLOW

17795  
 CBOD

41161  
 TSS

Randolph P Kustes Jr.  
 OPERATOR

14555  
 CERT. NO.

TOTAL NUMBER OF SEWER CONNECTIONS 0  
 SEWER CONNECTIONS 0 X 4 = 0 SEWERED POPULATION

502-540-6000  
 PLANT TELEPHONE



Report Selections: Period: 12/01/2016 00:00 thru 12/31/2016 23:59, treatment Plant: MSD0294 FLOYDS FORK, 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
KY0102784	MSD0294	FLOYDS FORK	FLOYDS FORK	EAST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMN Sewer Main	80351C-AG	14307 WAKEFIELD PL		CHENOWETH RUN	CATCH BASIN

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISDW: DRY WEATHER DISCHARGE	2655123		12/12/2016	BRAZEL	GOODWIN	REPAIRED - ISSUE RESOLVED	12/12/2016	STRUCTURAL FAILURE	UNAUTHORIZED DISCHAGE - WATERS	12/12/16 11:25 PM	

**Discharge Reporting:**

Discharge Amount:	2,200 GAL
Cause:	FORCE MAIN BREAK
Clean Up:	MSD TO RESTORE AREA
Control Zone:	TEMPORARY SIGNS WERE PLACED
Impact:	SEWAGE OBSERVED ON THE GROUND
Repair:	CONTRACTOR REPAIRED THE FORCE MAIN
Public Notification:	CUSTOMER SERVICE WAS CONTACTED

**Notifications:**

11/29/16 1:00 pm	DISSNO	SUPPLEMENTAL EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE HAS BEEN SENT TO 'DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV'
11/29/16 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO 'DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV'

Total Facilities Printed: 1

Total Work Orders Printed: 1