



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

November 10, 2016

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 October 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 October 2016.

There were no exceedances, overflows or bypasses to report.

Due to the influent flow meter transmitter on one of the force mains, MSD will be using the effluent flow meter readings during October 1<sup>st</sup> thru October 25<sup>th</sup> 2016. This is the time period the influent flow meter was out of service. As of October 26<sup>th</sup> 2016 the flow meter is back in service.

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 10.16.doc

Enclosures

cc:     T. Singleton  
       R. Shaw

# DMR Copy of Record

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

<b>Report Dates &amp; Status</b>			
Monitoring Period:	From 10/01/16 to 10/31/16	DMR Due Date:	11/28/16
Status:	NetDMR Validated		

**Considerations for Form Completion**

<b>Principal Executive Officer</b>			
First Name:	James A.	Title:	Executive Director
Last Name:	Parrott	Telephone:	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						=	8					19 - mg/L	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						=	7.5			=	7.9	12 - SU	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	=	65	=	70	26 - lb/d		=	3	=	3	19 - mg/L	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						=	452	=	555	19 - mg/L	03/07 - Three Per Week	CP - COMPOS			
					Permit Req.															
					Value NODI															
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample						=	12	=	13	19 - mg/L	01/07 - Weekly	CP - COMPOS			
					Permit Req.															
					Value NODI															
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	1	--	Sample	=	6	=	11	26 - lb/d		=	0.3	=	0.5	19 - mg/L	03/07 - Three Per Week	CP - COMPOS		
					Permit Req.	<=	54.2 MO AVG	<=	81.3 MX WK AV	26 - lb/d		<=	1 MO AVG	<=	1.5 MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24	
					Value NODI															
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample	=	6.4	=	7	26 - lb/d		=	0.3	=	0.3	19 - mg/L	03/07 - Three Per Week	CP - COMPOS		
					Permit Req.	<=	27.1 MO AVG	<=	40.7 MX WK AV	26 - lb/d		<=	0.5 MO AVG	<=	0.75 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	=	2.5	=	2.729	03 - MGD								99/99 - Continuous	CN - CONTIN	
					Permit Req.															
					Value NODI															
50050	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	--	Sample	=	2.5	=	2.729	03 - MGD									99/99 - Continuous	CN - CONTIN
					Permit Req.															
					Value NODI															
51040	E. coli	1 - Effluent Gross	0	--	Sample						=	4	=	13	13 - #/100mL	03/07 - Three Per Week	GR - GRAB			
					Permit Req.															
					Value NODI															
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	46	=	50	26 - lb/d		=	2	=	2	19 - mg/L	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						=	270	=	358	19 - mg/L	03/07 - Three Per Week	CP - COMPOS			
					Permit Req.															
					Value NODI															
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample						=	99			23 - %	01/30 - Monthly	CA - CALCTD			
					Permit Req.															
					Value NODI															
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample						=	99			23 - %	01/30 - Monthly	CA - CALCTD			
					Permit Req.															
					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
201610_FloydsFork_MOR.pdf	pdf	116485
201610_floydsfork_coverletter.pdf	pdf	149845

**Report Last Saved By**

**Floyds Fork WQTC MSD**

User:	kevin.ries@louisvillemsd.org	Date/Time:	2016-11-21 09:27 (Time Zone: -05:00)
Name:	Kevin Ries		
E-Mail:	kevin.ries@louisvillemsd.org		

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

DATE	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 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	GAL/DAY X 1000	MLSS X 1000	GAL/DAY X 1000	WASTE P	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) X 1000	MLVSS (mg/L) X 1000	SETTLED SLUDGE VOLUME		RAW			HAULED			PHOSPHORUS, TOTAL (mg/L)	NH3-N (mg/L)	ECOLI	Total Nitrogen	TOTAL FLOW (MILLION GALLONS)	
																									50 MIN.	60 MIN.	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS	WITHDRAWN GALLONS X 1000						
1	2.973	2.48	2.48	7.0	7.8				8.1								0.65	7340	40000		4.2	2310	1870	250		1.07					25200							1.06758
2	2.863	2.48	2.48	7.1	7.8				8.0		500		3	104		2	0.64	7090	40000		3.9	2320	1760	250		1.02					0	0.30	0.24				1.02419	
3	2.823	2.48	2.48	7.2	7.7				8.0		184		3	163		2	0.57	7040	54000		3.8	2330	1820	250		1.01			1.46		63000	0.30	0.20	9			1.01401	
4	2.672	2.48	2.48	7.2	7.8				7.7		468		3	312		2	0.64	7150	50000		3.4	2180	1760	250		0.95					37800	0.30	0.20	9	13.25		0.95186	
5	2.633	2.48	2.48	7.2	7.5				7.9								0.63	7220	51000		3.8	2270	1750	250		0.92					37800			15			0.92392	
6	2.580	2.48	2.48	7.3	7.6				7.9								0.63	6630	60000		2.6	2420	2080	250		0.92					31500						0.92211	
7	2.559	2.48	2.48	7.5	7.7				7.9								0.59	6680	56000		2.8	2280	1750	250		0.87					31500						0.87373	
8	2.535	2.48	2.48	7.3	7.7				7.7								0.60	6780	50000		3.2	2250	1820	250		0.90					0						0.89622	
9	2.595	2.48	2.48	7.2	7.7				8.0		548		3	218		2	0.59	6320	40000		3.8	2320	1800	250		0.92				0	0.30	0.28				0.91608		
10	2.570	2.48	2.48	7.2	7.9				7.9		430		3	181		3	0.57	6370	61000		3.6	2370	1870	260		0.90		1.89			75300	0.30	0.20	84	12.83		0.89583	
11	2.523	2.48	2.48	7.0	7.7				9.2		180		3	240		2	0.55	6910	51000		3.8	2170	1740	250		0.89					31500	0.30	0.20	13			0.88603	
12	2.528	2.48	2.48	7.2	7.6				8.0								0.60	7550	48000		3.2	2210	1710	250		0.88					50400			2			0.88078	
13	2.516	2.48	2.48	7.2	7.9				7.6								0.57	6800	56000		2.7	2340	1880	300		0.89					75300						0.8548	
14	2.425	2.48	2.48	7.0	7.7				8.1								0.62	7060	53000		3.0	2290	1800	300		0.81					56700						0.81555	
15	2.492	2.48	2.48	7.3	7.6				8.1								0.60	4730	40000		3.3	2320	1810	300		0.86					0						0.86298	
16	2.598	2.48	2.48	7.2	7.8				7.8		562		3	299		2	0.67	5050	50000		3.5	2310	1840	300		0.90					0	0.30	0.34				0.89765	
17	2.488	2.48	2.48	7.2	7.6				7.9		576		4	436		2	0.54	6690	54000		2.6	2200	1770	300		0.86					43800	0.30	0.20	11	11.76		0.86	
18	2.465	2.48	2.48	7.2	7.8				7.8		526		3	340		2	0.47	6350	59000		2.6	2320	1960	300		0.84		1.48			69000	0.30	1.00	2			0.83916	
19	2.474	2.48	2.48	7.0	7.7				7.8								0.20	6340	60000		2.6	2340	1850	300		0.85					75300			1			0.84933	
20	2.972	2.48	2.48	6.9	7.7				7.7								0.75	6700	53000		2.0	2180	1690	250		0.99					63000						0.98561	
21	3.124	2.48	2.48	7.0	7.6				7.8								0.52	7730	47000		2.4	2220	1820	250		1.15					63000						1.15103	
22	2.523	2.48	2.48	7.0	7.8				8.0								0.54	6280	50000		4.4	2120	1740	250		1.02					0						1.01716	
23	2.407	2.48	2.48	7.3	7.9				8.1		572		3	379		2	0.75	6810	40000		4.1	2130	1790	300		1.00					0	0.30	0.20				1.00049	
24	2.362	2.48	2.48	7.3	7.8				8.0		608		3	342		3	0.46	6930	51000		4.3	2150	1710	250		0.95			1.45		69300	0.30	0.20	1	12		0.9462	
25	2.212	2.48	2.48	7.4	7.9				7.8		268		3	220		2	0.52	7080	50000		4.0	2170	1820	260		0.93					75300	0.30	0.20	1			0.92855	
26	2.128	2.48	2.48	7.2	7.7				8.1								0.50	7060	46000		3.4	2040	1610	300		1.83					63000			1			1.83408	
27	2.173	2.48	2.48	7.0	7.7				8.0								0.73	7020	47000		4.2	2040	1630	280		1.90					31500						1.90144	
28	2.035	2.48	2.48	7.3	7.7				8.3								0.66	6950	52000		3.2	2210	1780	300		2.14					69300						2.13672	
29	2.096	2.48	2.48	7.1	7.6				8.0								0.66	7160	50000		3.8	2130	1700	300		2.27					25200						2.26822	
30	2.158	2.48	2.48	7.2	7.7				8.2								0.82	6560	50000		2.9	2230	1740	300		2.31					0						2.31031	
31	2.133	2.48	2.48	7.1	7.7				8.1								0.68	6070	59000		3.0	2190	1850	300		2.19					31500						2.19276	
Tot.	77.64	76.88	76.88						8.0								18.52														1195200							35.90
Avg.	2.504	2.48	2.48	7.2	7.7				8.0		452		3	270		2	0.597	6724	50581		3.358	2237	1791	272.6		1.159			1.57	38554.84	0.30	0.29	4	12.46		1.158		

RESIDENTIAL COMMERCIAL INDUSTRIAL FLOW 23851 INDUSTRIAL CBOD 3311 TSS 44939 OPERATOR Randolph P. Kustes Jr. CERT. NO. 14555

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

502-540-6000 PLANT TELEPHONE