



Louisville and Jefferson County Metropolitan Sewer District
700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

January 21, 2014

Cheryl Edwards
DMR Coordinator
200 Fair Oaks Lane
Frankfort, Kentucky 40601

RE: Floyds Fork WQTC, KPDES No: KY0102784
Discharge Monitoring Report for December of 2013

Dear Ms. Edwards:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operator Report (MOR) for the Floyds Fork WQTC for the month of December 2013.

The 4th Quarter Bio-Monitoring DMR is attached also.

There were no exceedences, bypasses or overflows to report.

If you have any questions concerning the attached DMR's, please contact me at (502) 587-5856

Sincerely,

A handwritten signature in black ink, appearing to read "Kevin Thompson".

Kevin Thompson
Process Supervisor of Metro Operations

RM/ Floyds Fork 12/13

Enclosures

cc: T. Singleton
R. Shaw



Beneficial Use of Louisville's Biosolids
www.louisvillegreen.com

DMR Copy of Record

Permit			
Permit #:	KY0102784	Permittee:	FLOYDS FORK WQTC MSD
Major:	Yes	Permittee Address:	1100 BLUE HERRON RD LOUISVILLE, KY 40245
Permitted Feature:	001 External Outfall	Discharge:	001-1 MUNICIPAL DISCHARGE
Facility:	FLOYDS FORK WQTC MSD	Facility Location:	1100 BLUE HERRON RD LOUISVILLE, KY 40245

Report Dates & Status			
Monitoring Period:	From 12/01/13 to 12/31/13	DMR Due Date:	01/28/14
Status:	NetDMR Validated		

Considerations for Form Completion

Principal Executive Officer			
First Name:	Greg	Title:	Executive Director
Last Name:	Heitzman	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				=	8				19 - mg/L	0	01/01 - Daily 03/07 - Three Per Week	GR - GRAB GR - GRAB
					Permit Req.	>=	7 INST MIN								19 - mg/L				
					Value NODI														
00400	pH	1 - Effluent Gross	0	--	Sample	=	8				=	8			12 - SU	0	01/01 - Daily 03/07 - Three Per Week	GR - GRAB GR - GRAB	
					Permit Req.	>=	6 MINIMUM				<=	9 MAXIMUM			12 - SU				
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	49	=	56	26 - lb/d	=	2	=	2	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.	<=	813 MO AVG	<=	1220 MX WK AV	26 - lb/d	<=	30 MO AVG	<=	45 MX WK AV	19 - mg/L				
					Value NODI														
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample	=	5992	=	7458	26 - lb/d	=	258	=	298	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d		Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L				
					Value NODI														
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	2	--	Sample	=	30	=	103	26 - lb/d	=	2	=	6	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.	<=	136 MO AVG	<=	203 MX WK AV	26 - lb/d	<=	5 MO AVG	<=	7.5 MX WK AV	19 - mg/L				
					Value NODI														
00610	Nitrogen, ammonia total [as N]	G - Raw Sewage Influent	0	--	Sample	=	362	=	370	26 - lb/d	=	16	=	21	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d		Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L				
					Value NODI														
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample	=	0.3				=	0.6			19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.	<=	1 MO AVG				<=	1.5 MX WK AV			19 - mg/L				
					Value NODI														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	3.22	=	7.38	03 - MGD						0	99/99 - Continuous 99/99 - Continuous	CN - CONTIN CN - CONTIN	
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD									
					Value NODI														
74055	Coliform, fecal general	1 - Effluent Gross	0	--	Sample	=	2				=	3			13 - #/100mL	0	03/07 - Three Per Week 03/07 - Three Per Week	GR - GRAB GR - GRAB	
					Permit Req.	<=	200 30DA GEO				<=	400 7 DA GEO			13 - #/100mL				
					Value NODI														
80082	BOD, carbonaceous, 05 day, 20 C	1 - Effluent Gross	0	--	Sample	=	54	=	56	26 - lb/d	=	2	=	3	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.	<=	271 MO AVG	<=	407 MX WK AV	26 - lb/d	<=	10 MO AVG	<=	15 MX WK AV	19 - mg/L				
					Value NODI														
80082	BOD, carbonaceous, 05 day, 20 C	G - Raw Sewage Influent	0	--	Sample	=	3321	=	3784	26 - lb/d	=	145	=	204	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	26 - lb/d		Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L				
					Value NODI														
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample	=	98								23 - %	0	01/30 - Monthly 01/30 - Monthly	CA - CALCTD CA - CALCTD	
					Permit Req.	>=	85 MO MIN								23 - %				
					Value NODI														
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample	=	99								23 - %	0	01/30 - Monthly 01/30 - Monthly	CA - CALCTD CA - CALCTD	
					Permit Req.	>=	85 MO MIN								23 - %				
					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
201312FloydsFork_CoverLetter.PDF	pdf	16220
FF122013_MOR.pdf	pdf	62996

Report Last Saved By

FLOYDS FORK WQTC MSD

User: kevin.thompson@louisvillemsd.org

Date/Time: 2014-01-21 13:48 (Time Zone: -05:00)

Name: Kevin Thompson

E-Mail: kevin.thompson@louisvillemsd.org

DMR Copy of Record

Permit					
Permit #:	KY0102784	Permittee:	FLOYDS FORK WQTC MSD	Facility:	FLOYDS FORK WQTC MSD
Major:	Yes	Permittee Address:	1100 BLUE HERRON RD LOUISVILLE, KY 40245	Facility Location:	1100 BLUE HERRON RD LOUISVILLE, KY 40245
Permitted Feature:	001 External Outfall	Discharge:	001-Y QUARTERLY METALS/BIOMONITORING		

Report Dates & Status					
Monitoring Period:	From 10/01/13 to 12/31/13	DMR Due Date:	01/28/14	Status:	NetDMR Validated

Considerations for Form Completion

Principal Executive Officer					
First Name:	Greg	Title:	Executive Director	Telephone:	502-540-6000
Last Name:	Heitzman				

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		
00900	Hardness, total [as CaCO3]	1 - Effluent Gross	0	--	Sample						=	222		=	222	19 - mg/L	01/90 - Quarterly	CP - COMPOS			
					Permit Req.													01/30 - Monthly	CP - COMPOS		
					Value NODI																
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample						=	0.035		=	0.035	19 - mg/L	01/90 - Quarterly	CP - COMPOS			
					Permit Req.													01/90 - Quarterly	CP - COMPOS		
					Value NODI																
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.001		<	0.001	19 - mg/L	01/90 - Quarterly	CP - COMPOS			
					Permit Req.													01/90 - Quarterly	CP - COMPOS		
					Value NODI																
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.08		<	0.08	19 - mg/L	01/90 - Quarterly	CP - COMPOS			
					Permit Req.													01/30 - Monthly	CP - COMPOS		
					Value NODI																
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.006		<	0.006	19 - mg/L	01/90 - Quarterly	CP - COMPOS			
					Permit Req.													01/90 - Quarterly	CP - COMPOS		
					Value NODI																
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample									<	1	2G - tox chronic	01/90 - Quarterly	CP - COMPOS			
					Permit Req.											<=	1 DAILY MX	2G - tox chronic	0	01/90 - Quarterly	CP - COMPOS
					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.thompson@louisvillemsd.org	Date/Time:	2014-01-21 13:49 (Time Zone: -05:00)
Name:	Kevin Thompson		
E-Mail:	kevin.thompson@louisvillemsd.org		

NAME OF TREATMENT PLANT FLOYDS FORK

COUNTY JEFFERSON

MONTH OF: December 2013

KPDDES 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		
		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 WASTED X 1000	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) X 1000	MLVSS (mg/L) X 1000	30 MIN.	60 MIN.	RAW			HAULED			PHOSPHORUS, TOTAL (mg/L)	NH3-N (mg/L)	FECAL COLIFORM (COLONIES/100ML)
																										GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS	WITHDRAWN GALLONS X 1000			
1	2.168	2.48	2.48	7.2	7.9				8.1		340	3	168			3	0.691	6.64	40	3.3	2.47	1.96	260			2.408				0	0.10	6.40	2	
2	2.116	2.48	2.48	7.2	8.0				8.2		245	2	270			3	0.839	6.6	40	3	2.49	2.08	250			2.304				0	0.10	6.40	2	
3	2.027	2.48	2.48	7.3	7.7				9.2		308	2	174			3	0.817	7.29	40	3.8	2.48	2.06	260			2.229				0	0.10	4.80	4	
4	2.011	2.48	2.48	7.3	7.7				9.0								0.857	7.73	40	4.2	2.58	2.17	250			2.153			60.3					
5	2.660	2.48	2.48	7.2	7.7				8.8								0.769	6.69	40	4	2.5	2.11	270			2.889			61.5					
6	4.123	2.48	2.48	7.1	7.7				9.1								0.876	9.78	40	6	2.34	2.02	260			4.463			24.6					
7	3.889	2.48	2.48	7.2	7.6				10.0								1.227	11.88	33	8.4	2.36	2.04	250			4.294			0					
8	3.336	2.48	2.48	7.2	7.7				10.0		160	2	86			2	1.38	4.99	83	8.2	2.54	2.16	260			3.673			0	0.29	0.24	4		
9	3.271	2.48	2.48	7.2	7.9				9.7		255	2	106			2	0.93	8.99	47	7.9	2.58	2.2	270			3.4			0	0.31	0.17	2		
10	2.780	2.48	2.48	7.2	8.0				10.0		288	2	133			2	0.853	7.15	58.9	7.8	2.54	2.13	260			3.184			0	0.37	0.06	5		
11	2.628	2.48	2.48	7.3	7.6				9.8								0.822	6.05	60	8	2.2	1.9	250			3.025			43.2					
12	2.628	2.48	2.48	7.2	7.8				9.7								0.839	6.91	56	8.4	2.33	1.89	240			2.892			75					
13	4.921	2.48	2.48	7.2	7.9				9.8								0.972	6.96	27	8	2.4	2.14	250			2.824			92.7					
14	4.215	2.48	2.48	7.2	7.8				9.5								0.687	6.59	52	7.7	2.1	1.78	200			4.562			12					
15	4.066	2.48	2.48	7.2	7.8				9.3		200	2	144			2	0.973	13.46	22	7.6	1.79	1.54	200			4.371			0	0.87	0.34	2		
16	3.105	2.48	2.48	7.1	7.9				9.0		340	2	145			2	0.812	8.46	43.5	7.1	2.22	1.87	250			3.535			0	0.49	0.19	2		
17	2.856	2.48	2.48	7.2	8.0				9.3		285	2	114			2	0.828	6.94	53.3	5.3	2.23	1.9	250			3.149			0	0.44	0.21	2		
18	2.489	2.48	2.48	7.2	8.0				9.2								0.778	6.1	56.6	5.1	2.08	1.79	240			2.916			92.4					
19	2.459	2.48	2.48	7.2	8.0				9.0								0.802	6.8	52	4.9	2.14	1.84	240			2.779			92.7					
20	2.409	2.48	2.48	7.2	8.0				9.4								0.914	6.86	52.7	5.1	2.14	1.84	250			2.66			54.6					
21	4.613	2.48	2.48	7.1	7.9				9.2								2.244	9.24	38	4.8	2.12	1.86	250			5.678			65.7					
22	7.385	2.48	2.48	7.2	8.0				9.6								2.273										8.282			0				
23	4.422	2.48	2.48	7.1	7.9				9.4								1.511	7.44	52	3	2.33	1.99	250			4.843			0					
24	3.628	2.48	2.48	7.1	8.0				9.5								1.451	7.47	53	4.1	2.4	1.93	250			3.919			0					
25	2.725	2.48	2.48	7.1	8.0				9.7		220	2	124			2	1.763	6.72	59	7.1	2.33	1.96	260			3.128			0	0.10	0.15	2		
26	2.894	2.48	2.48	7.1	7.8				9.2		308	2	169			3	0.942	7.72	50	6.6	2.31	1.97	280			3.262			0	0.10	0.28	2		
27	2.817	2.48	2.48	7.0	7.9				9.0		142	2	106			2	1.069	8.49	46	6.8	2.34	1.98	260			3.097			25.2	0.10	0.17	2		
28	2.383	2.48	2.48	7.2	7.8				9.1								0.885	7.88	54	6	2.56	2.2	250						30.3					
29	3.353	2.48	2.48	7.1	7.9				9.2								1.105	8.82	45	6.3	2.4	2.02	250			3.667			0					
30	2.940	2.48	2.48	7.0	7.8				9.0								0.965	7.55	48	4.9	2.19	1.89	260			3.308			36.6					
31	2.623	2.48	2.48	7.1	7.8				9.3								0.926	6.38	55	6.2	2.15	1.85	250			2.984			24					
Tot.	99.94	76.88	76.88														32.8										105.88			790.8				
Avg.	3.224	2.48	2.48	7.2	7.9				9.3		258	2	145			2	1.05806	7.686	47.9	5.987	2.321	1.969	250.7			3.5293			25.51	0.28	1.62	2		

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT

30704

22920

32980

Randolph P. Kustes Jr.

14555

FLOW

CBOD

TSS

OPERATOR

CERT. NO.

TOTAL NUMBER OF SEWER CONNECTIONS

0

SEWER CONNECTIONS 0 X 4 = 0 SEWERED POPULATION

502-253-9310

PLANT TELEPHONE