

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



November 20, 2012

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

**RE: Floyds Fork WQTC, KPDES No: KY0102784
 Discharge Monitoring Report for October of 2012**

Dear Ms. Edwards:

Attached are the Discharge Monitoring Reports (DMRs) and the Monthly Operator Report (MOR) for the Floyds Fork WQTC for the month of October, 2012.

There were no exceedences. There is a bypass report, a overflow report and a copy of the potential to bypass letter included.

If you have any questions concerning the attached DMR's, please contact me at (502) 587-5832

Sincerely,

A handwritten signature in black ink that reads "Richard Mills". The signature is written in a cursive, flowing style.

Richard Mills
Process Supervisor of Metro Operations.

RM/ Floyds Fork 10/12

Enclosures

cc: C. Roth (DOW Louisville)
 T. Singleton
 R. Shaw



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

NAME FLOYDS FORK WQTC MSD
ADDRESS C/O CEDAR CREEK WQTC
8405 CEDAR CREEK RD
LOUISVILLE KY 40211
FACILITY FLOYDS FORK WQTC MSD

KY0102784
PERMIT NUMBER

001 1
DISCHARGE NUMBER

MAJOR (SUBR LV) JEFFE
F - FINAL MUNICIPAL DISCHARGE
EFFLUENT
[] No Discharge

LOCATION LOUISVILLE KY 40245
ATTN: DENNIS THOMASSON SR. METRO OPS

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
12 10 01 12 10 31

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
OXYGEN, DISSOLVED (DO) 00300 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	9	*****	*****	(19) MG/L	0	1/1	GR
	PERMIT MEASUREMENT	*****	*****	***	7 INST MIN	*****	*****	(19) MG/L		THREE/ WEEK	GRAB
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	7.4	*****	8.1	(12) SU	0	1/1	GR
	PERMIT MEASUREMENT	*****	*****	***	6.0 MINIMUM	*****	9.0 MAXIMUM	(12) SU		THREE/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	15446	23110	(26) LBS/DY	*****	578	677	(19) MG/L	0	3/7	CP
	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		THREE/ WEEK	COMPOS
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	53	75	(26) LBS/DY	*****	2	2	(19) MG/L	0	3/7	CP
	PERMIT MEASUREMENT	813 MO AVG	1220 MX WK AV	(26) LBS/DY	*****	30 MO AVG	45 MX WK AV	(19) MG/L		THREE/ WEEK	COMPOS
NITROGEN, AMMONIA TOTAL (AS N) 00610 G 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	510	528	(26) LBS/DY	*****	20	23	(19) MG/L	0	3/7	CP
	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		THREE/ WEEK	COMPOS
NITROGEN, AMMONIA TOTAL (AS N) 00610 1 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	10	18	(26) LBS/DY	*****	0.4	0.5	(19) MG/L	0	3/7	CP
	PERMIT MEASUREMENT	54 MO AVG	81 MX WK AV	(26) LBS/DY	*****	2 MO AVG	3 MX WK AV	(19) MG/L		THREE/ WEEK	COMPOS
PHOSPHORUS, TOTAL (AS P) 00665 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	****	*****	0.2	0.3	(19) MG/L	0	3/7	CP
	PERMIT MEASUREMENT	*****	*****	****	*****	1.0 MO AVG	1.5 MX WK AV	(19) MG/L		THREE/ WEEK	COMPOS
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. 1001 AND 33 U.S.C. 1310. (Penalties under those statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)										
Greg C. Heitzman Interim Executive Director	Richard Mills				TELEPHONE		DATE				
TYPED OR PRINTED					502	540-6000	12	11	20		
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				AREA CODE	NUMBER	YEAR	MO	DAY		

GR

DISCHARGE MONITORING REPORT (DMR)

NAME FLOYDS FORK WQTC MSD
 ADDRESS C/O CEDAR CREEK WQTC
 8405 CEDAR CREEK RD
 LOUISVILLE KY 40211
 FACILITY FLOYDS FORK WQTC MSD

KY0102784
 PERMIT NUMBER

001 1
 DISCHARGE NUMBER

MAJOR
 (SUBR LV)
 F - FINAL JEFFE
 MUNICIPAL DISCHARGE
 EFFLUENT
 [] No Discharge

LOCATION LOUISVILLE KY 40245

ATTN: DENNIS THOMASSON SR. METRO OPS

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM 12	10	01	TO	12	10	31	

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	2.99	5.51	(03) MGD	*****	*****	*****	***	0	CN	CN
	PERMIT MEASUREMENT	REPORT MO AVG	REPORT DAILY MX	(03) MGD	*****	*****	*****	***		CONTINUOUS	CONTIN
COLIFORM, FECAL GENERAL 74055 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	*****	3	4	(13) 100ML	0	3/7	GR
	PERMIT MEASUREMENT	*****	*****	***	*****	200 30DA GEO	400 7 DA GEO	(13) 100ML		THREE/WEEK	GRAB
BOD, CARBONACEOUS 05 DAY, 20C 80082 G 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	5832	7009	(26) LBS/DY	*****	227	241	(19) MG/L	0	3/7	CP
	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	REPORT MO AVG	REPORT MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
BOD, CARBONACEOUS 05 DAY, 20C 80082 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	53	75	(26) LBS/DY	*****	2	2	(19) MG/L	0	3/7	CP
	PERMIT MEASUREMENT	271 MO AVG	407 MX WK AV	(26) LBS/DY	*****	10 MO AVG	15 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
BOD, CARB 5-DAY, 20 DEG C, PERCENT REMVL 80091 K 0 0 PERCENTREMOVAL	SAMPLE MEASUREMENT	*****	*****	***	99	*****	*****	(23) CENT	0	1/31	CA
	PERMIT MEASUREMENT	*****	*****	***	85 MO MIN	*****	*****	(23) CENT		ONCE/MONTH	CALCTD
SOLIDS, SUSPENDED PERCENT REMOVAL 81011 K 0 0 PERCENTREMOVAL	SAMPLE MEASUREMENT	*****	*****	***	100	*****	*****	(23) CENT	0	1/31	CA
	PERMIT MEASUREMENT	*****	*****	***	85 MO MIN	*****	*****	(23) CENT		ONCE/MONTH	CALCTD
	SAMPLE MEASUREMENT										
	PERMIT MEASUREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. 1001 AND 33 U.S.C. 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.					TELEPHONE		DATE			
Greg C. Heitzman Interim Executive Director	502 540-6000										
TYPED OR PRINTED	AREA CODE NUMBER		YEAR MO DAY								
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					502 540-6000		12 11 20			

NAME OF TREATMENT PLANT FLOYDS FORK COUNTY JEFFERSON MONTH OF: October 2012
 KPDES PERMIT NUMBER KY0102784 PLANT CAPACITY 3.5 MGD RECEIVING STREAM FLOYDS FORK

DATE	TOTAL FLOW (MILLION GALLONS)	RAW SEWAGE		pH		SETTLEABLE 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	RETURN		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)	FECAL COLIFORM (COLONIES/100ML)	
																		GAL/DAY x 1000	MLSS x1000					GAL/DAY x 1000	30 MIN.	60 MIN.	GALLONS x 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS				WITHDRAWN GALLONS x 1000
1	4.15	2.48	2.48	7.1	7.9					8.6		700		2	231		2	1.14	6.63	35	1.4	2.19	1.42	200		3.036					0	0.20	0.28	15	
2	5.51	2.48	2.48	7.4	8.0					8.8		520		2	164		2	0.593	6.63	35	1.3	2.19	1.73	200		3.78					0	0.26	0.67	2	
3	3.85	2.48	2.48	7.0	7.8					8.9		660		2	171		2	1.05	7.321	42	2.2	2.89	1.82	180		2.769					151.2	0.23	0.45	2	
4	3.39	2.48	2.48	7.0	7.8					8.8								1.12	9.76	30	2	2.94	1.84	190		2.428					36.3				
5	2.37	2.48	2.48	6.8	8.0					8.8								1.67	9.85	33	1.5	2.92	1.81	200		2.253					0				
6	3.17	2.48	2.48	6.8	7.8					10.0								2.29	7.58	53	5.9	3.66	2.2	250		2.27					0				
7	3.08	2.48	2.48	7.2	7.6					9.2								1.84	7.64	53	5.5	3.76	2.22	250		2.181					0				
8	3.13	2.48	2.48	7.2	8.0					9.1		696		2	239		2	2.22	7.32	53	5.8	3.66	2.19	240		2.203					0	0.17	0.28	12	
9	3.00	2.48	2.48	7.3	7.9					9.1		740		2	239		2	2.01	7.65	53	6.1	3.77	2.22	240		2.091					0	0.12	0.22	2	
10	2.94	2.48	2.48	7.1	7.9					9.0		595		2	246		2	1.72	6.36	75	6.4	3.83	2.24	240		2.013					86.7	0.19	0.34	2	
11	2.68	2.48	2.48	7.1	8.0					9.2								1.96	8.73	57	4	4.04	2.42	240		1.941					124.2				
12	2.60	2.48	2.48	7.2	8.0					9.5								1.94	7.17	65	3.9	3.84	2.3	220		1.979					97.8				
13	2.70	2.48	2.48	7.2	8.0					9.6								2.05	6.54	67	5.2	3.65	2.22	220		1.926					0				
14	2.89	2.48	2.48	7.3	7.8					9.4								2.59	5.26	70	5	3.71	2.32	240		2.082					0				
15	2.76	2.48	2.48	6.8	7.9					9.4		480		2	245		2	1.9	7.45	55	3	3.72	2.34	230		2.011					0	0.26	0.50	3	
16	2.70	2.48	2.48	7.3	8.1					8.9		430		2	210		2	1.74	6.11	65	3.1	3.62	2.34	230		1.856					105.9	0.25	0.39	6	
17	2.49	2.48	2.48	7.2	7.6					9.2		485		2	269		2	1.89	6.52	58	3.2	3.39	2.18	230		1.818					100.8	0.37	0.22	2	
18	2.80	2.48	2.48	7.0	8.0					9.1								1.92	6.55	55	2.4	3.34	2.14	240		2.021					48.3				
19	2.71	2.48	2.48	6.7	8.0					9.0								1.58	5.5	64	3.1	3.26	2.07	230		1.928					36.6				
20	2.72	2.48	2.48	7.1	7.5					9.2								1.7	5.82	60	4.3	3.3	2.1	220		1.947					0				
21	2.74	2.48	2.48	7.0	7.8					9.0								1.92	6.73	52	3.9	3.32	2.12	220		2.02					0				
22	2.53	2.48	2.48	6.9	7.4					9.2		654		2	259		2	1.59	7.86	42	2.6	3.25	2.15	240		1.967					61	0.17	0.34	4	
23	2.54	2.48	2.48	7.0	7.5					9.1		415		2	197		2	1.46	7.22	46	3	3.28	2.14	250		1.906					92.7	0.17	0.28	2	
24	2.44	2.48	2.48	7.0	7.7					9.0		545		2	250		2	1.66	5.25	65	2.5	3.36	2.27	250		1.873					92.7	0.12	0.34	2	
25	2.48	2.48	2.48	7.1	8.0					8.8								1.44	7.44	43	2.4	3.18	2.21	250		1.83					91.5				
26	2.86	2.48	2.48	6.9	7.6					10.0								1.68	7.81	44	2.4	3.4	2.19	250		2.049					37.8				
27	3.57	2.48	2.48	6.9	7.5					9.9								1.51	7.67	43	2.9	3.27	2.23	250		2.543					0				
28	3.19	2.48	2.48	6.8	7.9					10.0								1.63	8.15	43	3.2	3.42	2.35	260		2.256					0				
29	2.89	2.48	2.48	6.8	7.5					10.0								1.63	8.75	40	3.4	3.23	2.29	250		2.061					0				
30	2.98	2.48	2.48	7.0	7.8					10.0								1.7	7.62	47	3.6	3.52	2.43	280		2.003					25.2				
31	2.79	2.48	2.48	7.2	8.1					9.6								1.51	8.75	40	3.6	3.44	2.39	300		2.016					59.9				
Tot.	92.65	76.88	76.88															52.65									67.057				1249				
Avg.	2.99	2.48	2.48	7.0	7.8					9.3		578		2	227		2	1.698	7.279	51.06	3.51	3.366	2.158	235.2		2.163129					40.28	0.21	0.36	3	

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT

28463

33234

68545

Randolph P. Kustes Jr.

14555

TOTAL NUMBER OF SEWER CONNECTIONS

0

SEWER CONNECTIONS

0

X

4

=

0

SEWERED POPULATION

FLOW

CBOD

TSS

OPERATOR

CERT. NO.

502-253-9310

PLANT TELEPHONE



Initiated Oct 01, 2012 12:00 AM thru Oct 31, 2012 11:59 PM

Report Selections: Excluding PPI, CSO, Excluding LAT and SSL, Result: WUS, Act Code: DISDW, DISREV

KPDES # KY0102784	Facility ID MSD0294	Water Quality Treatment Center FLOYDS FORK	Receiving Stream of Treatment Center FLOYDS FORK	Region EAST
----------------------	------------------------	---	---	----------------

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SPL Sewer Treatment Plant	MSD0294	1100 BLUE HERON RD		FLOYDS FORK	STREAM

Activity Code / Description	WO #	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV: RAIN EVENT DISCHARGE	1568051	10/02/12 08:10 AM	SINGLETON	OPS BSHIFT EAST	REPAIRED - ISSUE RESOLVED	10/02/12	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE-WATER S	10/02/12 08:45 AM	

Spot Inspections:

Discharge Amount:	8,750 GAL
Cause:	DISCHARGING FROM THE TEMPORARY MIXED LIQUOR PIPE DUE TO LACK OF CAPACITY BECAUSE OF RAIN EVENT
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	SIGNS PLACED AROUND THE AFFECTED AREA
Impact:	SOLIDS & SEWAGE OBSERVED
Repair:	STOPPED FLOW TO CENTER RING UNTIL CONTRACTOR FINISHES REPAIRS

Notifications:

10/02/12 08:10 AM	DISPUB	SIGNS PLACED AROUND THE AFFECTED AREA
10/02/12 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov and LisaA.Jeffries@ky.gov

Total Facilities Printed: 13
Total Work Orders Printed: 14



700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

October 2, 2012

Mr. Charlie Roth, District Supervisor
KY Division of Water
Louisville Regional Office
9116 Leesgate Road
Louisville, KY 40222-5084

Re: Bypass Report for the Floyds Fork WQTC – KPDES Permit KY0102784

Dear Mr. Roth:

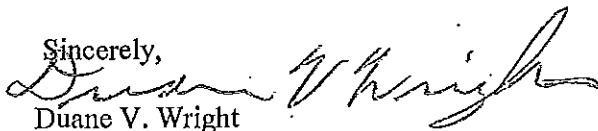
This plant experienced a bypass event and has been reported through our electronic notification system at approximately 01:00 PM on October 02, 2012, referencing Work Order 1568051 as a Bypass. This letter serves as a written report of the bypass as required by 401 KAR 5:065.

Provided below are the details of the bypass event:

- Description of the noncompliance and its cause: On October 2, 2012, FFWQTC bypassed 8750 gallons from secondary treatment process. The water level in the oxidation ditch overflowed channel #1 weir during clarifier influent splitter box upgrade project, which caused water to surcharge existing MLSS line and overflowed onto ground. On August 27, 2012, MSD submitted a potential to bypass letter (see attachment) due to influent splitter box upgrade project as part of the current plant expansion project. The estimated secondary flow rate of 11.6 MG during the time of the bypass based on plant influent pumps design data and plant RAS flow rate.
- Period of noncompliance: Starting 08:00 AM on October 02, 2012 and stopping 08:45 AM on October 02, 2012.
- Steps taken or planned to reduce, eliminate and prevent recurrence: Until upgrade of plant clarifier influent splitter box is complete, MSD will take #1 oxidation ditch channel out of service during wet weather so flow will not go over weir to existing MLSS pipe and clarifier influent splitter box structure.

Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502)-239-7545, my cell phone at (502)-396-9142 or via email at Duane.wright@louisvillemsd.org.

Sincerely,


Duane V. Wright
Process Supervisor-Operations

cc: ~~Gary Levy, KDEP~~
Paula Purifoy, Wes Sydnor, Kevin Ries, Robert Bates - MSD
Courtney Seitz, KDEP



Mr. Charlie Roth, District Supervisor
KY Division of Water
Page 2

eB File



700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

August 27, 2012

Mr. Charlie Roth, District Supervisor
KY Division of Water
Louisville Regional Office
9116 Leesgate Road
Louisville, KY 40222-5084

Re: Potential to Bypass Notification for:
Floyds Fork WQTC- KPDES Permit: KY0102784

Dear Mr. Roth:

This water quality treatment center has the potential to bypass treatment due to bypass of existing clarifier influent splitter box necessary for plant expansion project. Per your conversation with Vicki Coombs on August 24, 2012, MSD contractors will provide a temporary piping system from the oxidation ditch effluent directly into clarifier #2. The temporary 18 inch HDPE pipe shall be exposed on dirt embankment between the oxidation ditch and clarifier #2. It will be supported at clarifier #2 by two cantilevered H beams into clarifier #2 feedwell. This project is scheduled for September 3, 2012. This scheduled event will occur, provided that conditions for minimizing the bypass potential exist. The anticipated duration of the event is 24 days.

Precautionary measures in place to prevent a bypass include:

- During the duration of this project we will continue to monitor operation of oxidation ditch and clarifier #1. We will staff Operations personnel during wet weather events.

Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502)-475-2224, my cell phone at (502)-587-5856 or via email at Thompson@msdlouky.org.

Sincerely,



Kevin Thompson

Process Supervisor, Metro Operations

cc: Gary Levy, KDEP
Paula Purifoy, MSD
eB File

