



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

November 7, 2014

Ms. Cheryl Edwards
Kentucky Division of Water
200 Fair Oaks Lane, 4th Floor
Frankfort, Kentucky 40601

**RE: Jeffersontown WQTC, KPDES No: KY0025194
Discharge Monitoring Report October 2014**

Dear Ms. Edwards:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Jeffersontown WQTC KPDES No.: KY0025194 for the month of October 2014.

There were no exceedances to report.

Also attached is a Bypass/Blending Letter and Overflow report.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Kevin Thompson", is written over a light-colored background.

Kevin Thompson
Process Supervisor Central Region

KLT/Jeffersontown 10.14doc

Enclosures

cc: R. Shaw
T. Singleton



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

DMR Copy of Record

Permit			
Permit #:	KY0025194	Permittee:	JEFFERSONTOWN WQTC MSD
Major:	Yes	Permittee Address:	10725 OLD TAYLORSVILLE RD JEFFERSONTOWN, KY 40299
Permitted Feature:	001 External Outfall	Discharge:	001-2 FLOW BOD TSS DO PH
Facility:		Facility Location:	JEFFERSONTOWN WQTC MSD 10725 OLD TAYLORSVILLE RD JEFFERSONTOWN, KY 40299

Report Dates & Status			
Monitoring Period:	From 10/01/14 to 10/31/14	DMR Due Date:	11/28/14
Status:	NetDMR Validated		

Considerations for Form Completion
USE MO AVG FOR BOD/TSS REMV;REPT IN MINIMUM COLUMN.

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	=	9									19 - mg/L	01/01 - Daily	GR - GRAB	
					Permit Req.	>=	7 INST MIN									19 - mg/L	03/07 - Three Per Week	GR - GRAB	
					Value NODI														
00400	pH	1 - Effluent Gross	0	--	Sample	=	7				=	8.1			12 - SU	01/01 - Daily	GR - GRAB		
					Permit Req.	>=	6 MINIMUM			<=	9 MAXIMUM			12 - SU	03/07 - Three Per Week	GR - GRAB			
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	164	=	255	26 - lb/d	=	7	=	9	19 - mg/L	01/01 - Daily	CP - COMPOS		
					Permit Req.	<=	1000 MO AVG	<=	1501 MX WK AV	26 - lb/d	<=	30 MO AVG	<=	45 MX WK AV	19 - mg/L	03/07 - Three Per Week	CP - COMPOS		
					Value NODI														
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample	=	6526	=	8159	26 - lb/d	=	288	=	357	19 - mg/L	01/01 - Daily	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	03/07 - Three Per Week	CP - COMPOS		
					Value NODI														
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	1	--	Sample	=	12	=	15	26 - lb/d	=	0.5	=	0.6	19 - mg/L	01/01 - Daily	CP - COMPOS		
					Permit Req.	<=	133 MO AVG	<=	200 MX WK AV	26 - lb/d	<=	4 MO AVG	<=	6 MX WK AV	19 - mg/L	03/07 - Three Per Week	CP - COMPOS		
					Value NODI														
00610	Nitrogen, ammonia total [as N]	G - Raw Sewage Influent	0	--	Sample	=	385	=	485	26 - lb/d	=	17	=	20	19 - mg/L	01/01 - Daily	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	03/07 - Three Per Week	CP - COMPOS		
					Value NODI														
00665	Phosphorus, total [as P]	1 - Effluent Gross	1	--	Sample	=	11	=	16	26 - lb/d	=	0.5	=	0.6	19 - mg/L	01/01 - Daily	CP - COMPOS		
					Permit Req.	<=	33 MO AVG	<=	50 MX WK AV	26 - lb/d	<=	1 MO AVG	<=	1.5 MX WK AV	19 - mg/L	03/07 - Three Per Week	CP - COMPOS		
					Value NODI														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	2.845	=	3.533	03 - MGD							99/99 - Continuous	CN - CONTIN	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD								99/99 - Continuous	CN - CONTIN
					Value NODI														
74055	Coliform, fecal general	1 - Effluent Gross	0	--	Sample						=	3	=	3	13 - #/100mL	01/01 - Daily	GR - GRAB		
					Permit Req.						<=	200 30DA GEO	<=	400 7 DA GEO	13 - #/100mL	03/07 - Three Per Week	GR - GRAB		
					Value NODI														
80082	BOD, carbonaceous, 05 day, 20 C	1 - Effluent Gross	0	--	Sample	=	79	=	92	26 - lb/d	=	3	=	4	19 - mg/L	01/01 - Daily	CP - COMPOS		
					Permit Req.	<=	667 MO AVG	<=	1001 MX WK AV	26 - lb/d	<=	20 MO AVG	<=	30 MX WK AV	19 - mg/L	03/07 - Three Per Week	CP - COMPOS		
					Value NODI														
80082	BOD, carbonaceous, 05 day, 20 C	G - Raw Sewage Influent	0	--	Sample	=	4402	=	4670	26 - lb/d	=	199	=	246	19 - mg/L	01/01 - Daily	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	03/07 - Three Per Week	CP - COMPOS		
					Value NODI														
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample						=	98			23 - %	01/30 - Monthly	CA - CALCTD		
					Permit Req.						>=	85 MO AV MN			23 - %	01/30 - Monthly	CA - CALCTD		
					Value NODI														
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample						=	98			23 - %	01/30 - Monthly	CA - CALCTD		
					Permit Req.						>=	85 MO MIN			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
JTownFiveDayLetter.pdf	pdf	24580
201410_JTWQTC_OverflowReport.pdf	pdf	75579
201410_JTOWN_coverletter.pdf	pdf	17102
201410_JTOWN_MOR.pdf	pdf	42075

Report Last Saved By

JEFFERSONTOWN WQTC MSD

User: kevin.thompson@louisvillemsd.org	Date/Time: 2014-11-25 10:19 (Time Zone: -05:00)
Name: Kevin Thompson	
E-Mail: kevin.thompson@louisvillemsd.org	

NAME OF TREATMENT PLANT JEFFERSON TOWN WTP

COUNTY JEFFERSON

MONTH OF: October 2014

KPDES PERMIT NUMBER KY0025194

PLANT CAPACITY 4.0 MGD

RECEIVING STREAM CHENOWETH RUN

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	RETURN		WASTED	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) x 1000	MLVSS (mg/L) x 1000	30 MIN.	60 MIN.	RAW			HAULED		TOTAL PHOS. (mg/L)	NH3-N (mg/L)	FECAL COLIFORM (COLON/ES/100ML)	
																		GAL/DAY X 1000	MLSS X 1000							GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS				WITHDRAWN GALLONS X 1000
1	1.93	3	3		7.3	43.0			8.9		502	3	402		3	1.08	3450	42	7	1940	1530	120	110						0	0.49	0.56	2		
2	1.92				7.4	46.0			8.7		544	3	361		3	1.1	4670	42	7.1	1900	1580	110	110						6	0.42	0.56	2		
3	2.37				7.4	48.0			9.1		366	3	250		4	1.1	4285	39	7.4	2010	1610	120	120						38	0.40	0.45	4		
4	2.27				7.6	38.0			9.2		316	3	174		3	1.1	4575	36	7.2	1970	1580	130	120						0	0.33	0.50	2		
5	2.04				7.4	36.0			8.9		334	7	134		3	1.2	4115	41	7.1	2210	1740	130	130						0	0.45	0.56	4		
6	2.48				7.6	23.0			9.3		118	10	174		4	1.23	3775	38	7.3	2290	1850	140	130						50	0.61	0.56	2		
7	2.69				7.5	10.0			9.1		320	4	229		3	1.23	4055	41	7.4	2510	1920	130	120		0.99				19	0.43	0.45	15		
8	2.32	3	3		7.6	38.0			8.9		416	4	261		3	1.23	3575	42	6.9	2170	1680	130	130						0	0.41	0.62	2		
9	2.20				7.6	42.0			9.2		398	5	306		3	1.23	2885	32	7.1	2050	1600	150	140						25	0.54	0.50	2		
10	3.37				7.3	44.0			9.1		292	9	160		3	1.23	6205	36	6.8	2250	1840	150	140						38	0.48	0.62	3		
11	3.04				7.1	22.0			9.0		328	9	114		3	1.23	5825	36	7.1	2340	1820	140	140						38	0.53	0.45	3		
12	2.47				7.5	30.0			9.0		156	7	105		3	1.23	4555	38	7.4	2540	1850	140	140						0	0.51	0.45	5		
13	3.41				7.6	16.0			9.2		384	6	220		3	1.23	3110	36	7.3	2090	1620	140	140			0.7			0	0.47	0.50	2		
14	7.92				7.6	33.0			9.1		168	3	94		3	1.21	7405	32	7.9	1920	1660	120	120						13	0.31	0.45	10		
15	4.85	3	3		7.6	18.0			9.1		210	8	113		3	1.2	8075	32	7.3	2160	1660	140	130						6	0.40	0.39	4		
16	4.42				7.2	16.0			9.5		198	10	146		3	1.12	7060	32	7.8	2170	1750	150	140						0	0.54	0.34	2		
17	3.42				7.6	26.0			9.3		280	11	199		3	1.19	6885	39	7.4	2180	1940	150	150						0	0.61	0.56	2		
18	2.87				7.4	22.0			9.1		320	10	79		3	1.19	6335	35	7.6	2140	1620	150	140						48	0.72	0.34	5		
19	2.59				7.1	28.0			8.7		196	6	177		4	1.2	6195	35	7.2	2040	1550	140	120						19	0.55	0.50	2		
20	2.84				7.6	33.0			9.5		318	11	188		4	1.2	4350	42	7.7	2310	1790	160	150			1.3			32	0.82	0.62	2		
21	3.03				7.6	41.0			9.4		272	6	202		3	1.2	6270	43	7.4	2380	1680	140	140						0	0.40	0.45	2		
22	2.63	3	3		7.6	28.0			9.9		334	9	229		3	1.23	4355	38	8.2	2210	1600	140	140						0	0.49	0.50	2		
23	2.50				7.0	35.0			9.6		380	9	296		3	1.23	5720	39	7.6	2230	1740	150	150						0	0.54	0.39	2		
24	2.37				7.2	38.0			9.2		276	8	279		4	1.22	4340	43	7.1	2250	1690	160	150						76	0.53	0.73	2		
25	2.25				7.5	35.0			9.1		296	7	135		3	1.23	3455	43	7.4	2360	1910	170	160						44	0.50	0.50	2		
26	2.18				7.6	33.0			9.0		120	10	121		6	1.2	4405	46	6.8	2400	1860	160	150						0	0.57	0.45	2		
27	2.21				7.9	45.0			9.1		260	10	206		6	1.2	4235	46	7.3	2560	1970	150	140						0	0.51	0.73	2		
28	2.48				7.8	23.0			8.6		129	3	152		3	1.19	3630	39	7.7	2480	2000	160	150						13	0.41	0.56	2		
29	2.42	3	3		7.5	10.0			9.2		352	9	307		3	1.17	3940	46	8.1	2870	2290	160	150						25	0.43	0.73	2		
30	2.30				8.1	23.0			9.0		192	5	197		4	1.15	3915	46	7.6	2310	1700	160	160			0.81			19	0.31	0.56	2		
31	2.38				7.5	10.0			9.6		154	6	150		3	1.16	4300	38	8.2	2300	2020	190	160						29	0.43	0.67	2		
Tot.	88.19	15	15													36.91														538				
Avg.	2.84	3	3		7.5	30.1			9.1		288	7	199		3	1.191	4837	39.13	7.4	2243	1762	144.5	137.7			0.95			17.35	0.49	0.52	3		

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT

27093

27732

32542

FLOW

CBOD

TSS

Mike Stephenson

9616

OPERATOR

CERT. NO.

TOTAL NUMBER OF SEWER CONNECTIONS

0

SEWER CONNECTIONS

0

X

4

=

0

SEWERED POPULATION

(502)267-9257
PLANT TELEPHONE



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

October 16, 2014

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

Re: Bypass (Blending) Report for the Jeffersontown WQTC – KPDES Permit KY0025194

Dear Mr. Roth:

In accordance with 401 KAR 5:065, MSD is providing this letter as a written report of the bypass (blending) event that occurred at the Jeffersontown Water Quality Treatment Center (WQTC). The bypass started at 10:32 AM on October 14, 2014 and stopped at 04:16 PM on October 14, 2014.

Mitigation activities to minimize the extent and impact of the discharge included maximization of plant peak flow through secondary treatment to minimize the total amount of wastewater that did not receive full secondary treatment prior to blending with secondary effluent before receiving UV disinfection, and then being discharged through the permitted outfall. The cause of the bypass (blending) event was due to significant precipitation in the service area. The bypassed (blended) effluent entered Chenoweth Run at mile point 5.3.

In the table listed below is the total number of gallons of wastewater by calendar day that was bypassed (blended) around the secondary treatment of the Jeffersontown WQTC.


<u>Date</u>	<u>Start Time</u>	<u>Stop Time</u>	<u>Total Plant Flow (Vol)</u>	<u>Peak Plant Rate</u>	<u>Total Blended Flow (Vol)</u>
October 14 2014	10:32 AM	04:16 PM	7.922 MG	12.839 MGD	320,016 MG



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

Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502)-239-7574, my cell phone at (502)-475-2224 or via email at kevin.thompson@louisvillemsd.org.

Sincerely,



Kevin Thompson
Process Supervisor-Operations

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

eB File

Report Selections: Period: 10/01/2014 00:00 thru 10/31/2014 23:59, treatment Plant: MSD0255 JEFFERSONTOWN, 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
KY0025194	MSD0255	JEFFERSONTOWN	CHENOWETH RUN	CENT

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	28551	11401 GRAND AVE		CHENOWETH RUN	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	2250393		10/14/14 10:32 am	GRIFFITH	GRIFFITH	DOCUMENTED	11/22/2011	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHAGE - WATERS	10/14/14 01:30 PM	

Discharge Reporting:

Discharge Amount:	1,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN.
Clean Up:	DISCLN WO# 2250569
Control Zone:	CAUTION TAPE AND TEMPORARY SIGNS PLACED.
Impact:	LIGHT DEBRIS OBSERVED.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	PUBLIC WAS NOTIFIED THROUGH DOOR HANGERS AND/OR TEMPORARY SIGNS TO AVOID CONTACT WITH DISCHARGE.

Notifications:

10/15/14 1:00 am	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemSD.org, Sayre.Dennis@epamail.epa.gov'
10/14/14 1:00 pm	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemSD.org, Sayre.Dennis@epamail.epa.gov'



Report Selections: Period: 10/01/2014 00:00 thru 10/31/2014 23:59, treatment Plant: MSD0255 JEFFERSONTOWN, 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
KY0025194	MSD0255	JEFFERSONTOWN	CHENOWETH RUN	CENT

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SPL Sewer Treatment Plant	MSD0255	10725 OLD TAYLORSVILLE RD		CHENOWETH RUN	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	2250349		10/14/14 10:32 am	MARKS JR	OPS BSHIFT CENTRAL	DOCUMENTED	01/14/2007	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHAGE - WATERS	10/14/14 04:16 PM	

Discharge Reporting:

Discharge Amount:	320,016 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	PIPE DISCHARGE SUBMERGED- NO CLEAN UP
Control Zone:	PIPE DISCHARGE SUBMERGED- NO CONTROL ZONE. PERMANENT SIGNS POSTED
Impact:	NO IMPACT OBSERVED- PIPE DISCHARGE SUBMERGED
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION
Public Notification:	PERMANENT SIGNS POSTED

Plant Details:

PEAK PLANT FLOW WHEN BLENDING	12,839,000 GPD
DAILY TOTAL PLANT FLOW	7,922,000 GAL

Notifications:

10/14/14 1:00 pm	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemad.org, Sayre.Dennis@epamail.epa.gov'
9/24/14 1:00 am	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemad.org, Sayre.Dennis@epamail.epa.gov'

Total Facilities Printed: 2

Total Work Orders Printed: 2