



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

December 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 November 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 November 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 horizontal line.

Kevin Thompson
Process Supervisor Central Region

KLT/Jeffersontown 11.14doc

Enclosures

cc: R. Shaw
T. Singleton



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

DMR Copy of Record

Permit

Permit #:
Major:

KY0025194
Yes

Permittee:
Permittee Address:

JEFFERSONTOWN WQTC MSD
10725 OLD TAYLORSVILLE RD
JEFFERSONTOWN, KY 40299

Facility:
Facility Location:

JEFFERSONTOWN WQTC MSD
10725 OLD TAYLORSVILLE RD
JEFFERSONTOWN, KY 40299

Permitted Feature:

001
External Outfall

Discharge:

001-2
FLOW BOD TSS DO PH

Report Dates & Status

Monitoring Period:
From 11/01/14 to 11/30/14

DMR Due Date:
12/28/14

Status:
NetDMR Validated

Considerations for Form Completion

USE MO AVG FOR BOD/TSS REMV;REPT IN MINIMUM COLUMN.

Principal Executive Officer

First Name:
Last Name:

Greg
Heitzman

Title:

Executive Director

Telephone:

502-540-6000

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					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 03/07 - Three Per Week	GR - GRAB
					Permit Req.						>=	7 INST MIN					19 - mg/L			
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample						=	6.6			=	8	12 - SU	0	29/30 - 29 Per Month 03/07 - Three Per Week	GR - GRAB
					Permit Req.						>=	6 MINIMUM			<=	9 MAXIMUM	12 - SU			
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	163	=	195	26 - lb/d			=	7	=	8	19 - mg/L	0	01/01 - Daily 03/07 - Three Per Week	CP - COMPOS
					Permit Req.	<=	1000 MO AVG	<=	1501 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	=	6178	=	8004	26 - lb/d			=	296	=	430	19 - mg/L	0	01/01 - Daily 03/07 - Three Per Week	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	=	14	=	15	26 - lb/d			=	0.7	=	0.8	19 - mg/L	0	28/30 - 28 Per Month 03/07 - Three Per Week	CP - COMPOS
					Permit Req.	<=	334 MO AVG	<=	500 MX WK AV	26 - lb/d			<=	10 MO AVG	<=	15 MX WK AV	19 - mg/L			
					Value NODI															
00610	Nitrogen, ammonia total [as N]	G - Raw Sewage Influent	0	--	Sample	=	361	=	380	26 - lb/d			=	17	=	20	19 - mg/L	0	28/30 - 28 Per Month 03/07 - Three Per Week	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	2	--	Sample	=	11	=	13	26 - lb/d			=	0.5	=	0.6	19 - mg/L	0	01/01 - Daily 03/07 - Three Per Week	CP - COMPOS
					Permit Req.	<=	67 MO AVG	<=	100 MX WK AV	26 - lb/d			<=	2 MO AVG	<=	3 MX WK AV	19 - mg/L			
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	2.647	=	3.264	03 - MGD								0	99/99 - Continuous 99/99 - Continuous	CN - CONTIN
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD										
					Value NODI															
74055	Coliform, fecal general	1 - Effluent Gross	0	--	Sample								=	3	=	4	13 - #/100mL	0	01/01 - Daily 03/07 - Three Per Week	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	=	77	=	96	26 - lb/d			=	4	=	4	19 - mg/L	0	01/01 - Daily 03/07 - Three Per Week	CP - COMPOS
					Permit Req.	<=	667 MO AVG	<=	1001 MX WK AV	26 - lb/d			<=	20 MO AVG	<=	30 MX WK AV	19 - mg/L			
					Value NODI															
80082	BOD, carbonaceous, 05 day, 20 C	G - Raw Sewage Influent	0	--	Sample	=	4599	=	5558	26 - lb/d			=	218	=	273	19 - mg/L	0	01/01 - Daily 03/07 - Three Per Week	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
					Permit Req.						>=	85 MO AV MN					23 - %			
					Value NODI															
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample						=	97					23 - %	0	01/30 - Monthly 01/30 - Monthly	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
201411_JTWQTC_OverflowReport.pdf	pdf	72625
201411_JTown_Blendletter112314.pdf	pdf	25019
201411_JTOWN_coverletter.pdf	pdf	17385
201411_JTOWN_MOR.pdf	pdf	42412
Report Last Saved By		
JEFFERSONTOWN WQTC MSD		
User:	kevin.thompson@louisvillemsd.org	Date/Time: 2014-12-17 11:04 (Time Zone: -05:00)
Name:	Kevin Thompson	
E-Mail:	kevin.thompson@louisvillemsd.org	

NAME OF TREATMENT PLANT JEFFERSONTOWN WTPCOUNTY JEFFERSONMONTH OF: November 2014KPDES PERMIT NUMBER KY0025194PLANT CAPACITY 4.0 MGDRECEIVING STREAM CHENOWETH RUN

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	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	SETTLED SLUDGE VOLUME		RAW			HAULED			TOTAL PHOS. (mg/L)	NH3-N (mg/L)	FECAL COLIFORM (COLONIES/100ML)		
				GAL/DAY x 1000										MLSS x1000				30 MIN.	60 MIN.					GALLONS x 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS	WITHDRAWN GALLONS x 1000							
1	2.81			7.1	7.4	41.0			9.5		152		9	88		3	1.15	4760	43	8.5	2270	1770	7.1	8.5							0	0.41	0.56	2		
2	2.39			7.2	7.8	10.0			9.6		254		4	187		3	1.18	3510	35	7.9	2380	1850	6.9	7.9							0	0.32	0.34	2		
3	2.28			7.2	7.7	40.0			9.2		344		7	298		3	1.1	4280	39	7.5	2430	1790	6.7	7.5							44	0.40	0.45	2		
4	2.26			7.1	7.9	50.0			9.7		374		6	234		3	1.19	3270	34	7.7	2430	1880	5.9	7.7							88	0.34	0.50	4		
5	2.39	3	3	7.0	7.5	22.0			9.5		266		6	232		3	1.19	5380	43	7.3	2610	2070	5.5	7.3							38	0.34	0.95	2		
6	2.57			6.7	7.8	30.0			9.1		136		6	157		3	1.27	4810	44	6.8	2370	1830	5.4	6.8							13	0.32	0.78	2		
7	2.36			7.5	7.1	5.0			9.0		378		6	388		3	1.37	3760	43	7.2	2330	1760	5.8	7.2							0	0.43	1.30	2		
8	2.27			6.7	7.6	22.0			9.2		276		7	154		6	1.35	3820	39	7	2310	1840	5.6	7							38	0.43	0.90	5		
9	2.19			6.9	7.5	24.0			9.6		274		11	185		4	1.32	3250	38	7.4	2180	1690	5.2	7.4							0	0.66	0.78	4		
10	2.19			7.2	7.7	30.0			9.6		504		9	386		4	1.31	3935	39	7.6	2470	1780	5.6	7.6							38	0.51	0.45	2		
11	2.24			7.1	7.3	35.0			9.4		893		8	254		4	1.24	4615	40	7.8	2580	2130	6.1	7.8							19	0.65	1.30	2		
12	2.39	3	3	7.4	7.9	41.0			9.8		238		6	240		3	1.31	5530	39	8	2480	1810	6.4	8							0	0.51	0.78	6		
13	2.27			7.4	7.8	23.0			9.8		388		7	352		3	1.2	3700	42	8.1	2480	1830	6.9	8.1		0.83					44	0.52	0.67	12		
14	2.15			6.7	7.1	45.0			9.6		436		9	342		4	1.18	4255	33	7.9	2310	1470	6.6	7.9							25	0.60	0.90	2		
15	2.13			7.4	7.0	35.0			9.1		360		8	326		8	1.18	3460	35	7.5	2590	2070	6.4	7.5							0	0.60	0.73	2		
16	2.22			6.6	6.7	20.0			9.0		315		10	352		6	1.13	5170	39	7	2680	2050	6.6	7							0	0.64	0.67	2		
17	3.74			7.7	7.0	35.0			9.4		228		6	166		4	1.11	5405	32	6.5	2300	1770	5.5	6.5							37	0.53	0.50	2		
18	2.94			6.7	6.6	12.0			9.8		244		13	232		3	1.21	8370	36	6.9	2500	2010	6.1	6.9							12	0.55	0.56	4		
19	2.78	3	3	7.5	8.0	10.0			9.9		240		6	217		3	1.34	6110	41	7.1	2860	2170	6.3	7.1							12	0.53	0.56	3		
20	2.70			7.4	7.8	11.0			9.7		280		9	247		4	1.32	4590	37	8.8	2490	2060	6.9	8.8		1.3					0	0.74	0.90	3		
21	2.44			7.5		32.0			9.9		296		6	252		3	1.31	6735	36	8.8	2730	2060	7	8.8							31	0.48	0.67	6		
22	2.33			7.3	7.8	31.0			9.5		258		10	140		3	1.31	5160	43	7.8	2890	2170	6.5	7.8							19	0.68	0.62	2		
23	3.73			7.4	7.7	30.0			9.6		236		8	117		3	1.31	5340	35	8.1	2640	2110	6.8	8.1							6	0.55	0.62	2		
24	5.11			6.9	7.3	18.0			9.4		102		6	134		3	1.31	7810	39	8.3	2340	1700	6.6	8.3		1.4					25	0.53	0.34	15		
25	3.46			6.4	6.8	20.0			9.4		160		5	162		3	1.31	6455	39	8	2680	1930	6.7	8							6	0.34	0.39	3		
26	3.05	3	3	6.9	6.8	12.0			9.7		202		7	193		3	1.3	7580	39	7.7	2610	1950	6.4	7.7							49	0.42		2		
27	2.67			6.9	7.7	21.0			9.6		248		6	102		3	1.3	5125	39	7.9	2640	2090	6.6	7.9							0	0.28		2		
28	2.50			7.0	7.8	10.0			9.8		226		10	102		3	1.31	5100	39	8.1	2620	2080	6.5	8.1							24	0.43	0.45	2		
29	2.45			6.8	7.4	18.0			9.5		256		10	154		3	1.3	5110	38	7.6	2550	1980	6.2	7.6							19	0.42	0.50	2		
30	2.40			6.9	7.3	22.0			9.6		316		3	136		3	1.3	5410	38	7.5	2610	2040	6.4	7.5							0	0.29	0.67	2		
31																																				
Tot.	79.40	12	12														37.71														587					
Avg.	2.65	3	3	7.1	7.4	25.2			9.5		296		7	218		4	1.257	5060	38.53	7.677	2511	1925	6.307	7.677		1.177					19.57	0.48	0.67			

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT

25205
FLOW28257
CBOD31112
TSSMike Stephenson
OPERATOR9616
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

November 24, 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 08:20 PM on November 23, 2014 and stopped at 09:08 PM on November 23, 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>
November 23 2014	08:20 PM	09:08 PM	3.726 MG	10.673 MGD	2,140 MG



Mr. Charlie Roth, District Supervisor

KY Division of Water

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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,

A handwritten signature in black ink, appearing to read 'Kevin Thompson', with a long horizontal flourish extending to the right.

Kevin Thompson

Process Supervisor-Operations

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

eB File



Report Selections: Period: 11/01/2014 00:00 thru 11/30/2014 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	2268282		11/23/14 8:20 pm	GREEN	OPS CSHIFT	DOCUMENTED	01/14/2007	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHAGE - WATERS	11/23/14 09:08 PM	

Discharge Reporting:

Discharge Amount:	2,140 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	10,673,000 GPD
DAILY TOTAL PLANT FLOW	3,726,000 GAL

Notifications:

11/24/14 1:00 am	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemسد.org, Sayre.Dennis@epamail.epa.gov'
11/6/14 1:01 pm	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemسد.org, Sayre.Dennis@epamail.epa.gov'

Total Facilities Printed: 1**Total Work Orders Printed: 1**