



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

February 13, 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 January 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 January 2014

Also attached are a bypass/blending letter and overflow report.

There were no exceedences.

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

Sincerely,

Duane V. Wright
Process Supervisor Central Region

DVW/Jeffersontown 01.14doc

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 01/01/14 to 01/31/14	DMR Due Date:	02/28/14
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:	Exec. Dir.
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		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	=	119	=	197	26 - lb/d		=	4	=	4	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	=	7803	=	8697	26 - lb/d		=	277	=	352	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	2	--	Sample	=	9	=	20	26 - lb/d		=	0.3	=	0.4	19 - mg/L	01/01 - Daily	CP - COMPOS	
					Permit Req.	<=	334 MO AVG	<=	500 MX WK AV	26 - lb/d		<=	10 MO AVG	<=	15 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	=	315	=	355	26 - lb/d		=	11	=	14	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	2	--	Sample	=	8	=	13	26 - lb/d		=	0.3	=	0.3	19 - mg/L	01/01 - Daily	CP - COMPOS	
					Permit Req.	<=	67 MO AVG	<=	100 MX WK AV	26 - lb/d		<=	2 MO AVG	<=	3 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	=	3.684	=	4.849	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	=	5	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	=	89	=	203	26 - lb/d		=	2	=	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	=	4386	=	4970	26 - lb/d		=	154	=	201	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							=	99			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
201401_JTWQTC_OverflowReport.pdf	pdf	71399
JT1-11-2014_blend.pdf	pdf	24136
JT012014_COVER.pdf	pdf	15731
JTOWN012014_MOR.pdf	pdf	65926

Report Last Saved By**JEFFERSONTOWN WQTC MSD**

User: wrightd | Date/Time: 2014-02-24 08:48 (Time Zone: -05:00)
Name: Duane Wright
E-Mail: duane.wright@louisvillemtd.org

NAME OF TREATMENT PLANT JEFFERSONTOWN WTP COUNTY JEFFERSON MONTH OF: January 2014
 KPDES PERMIT NUMBER KY0025194 PLANT CAPACITY 4.0 MGD RECEIVING 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	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	MLVSS X 1000	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)				
																								30 MIN.	60 MIN.	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS	WITHDRAWN GALLONS X 1000							
1	3.30	3		6.8	7.7	0.0					10.0			200		3	93		2		6830		8.6	2130	1840	190	180								0	0.19	0.16	2
2	3.83			6.8	7.6	33.0					10.0			172		4	143		2		7030		8.4	2090	1630	180	170							12.6	0.19	0.29	2	
3	3.49			7.2	7.6	31.0					10.0			128		3	83		2		6460		8.8	2140	1620	190	170						68.4	0.20	0.18	5		
4	3.27			7.0	7.1	5.0					10.0			220		2	106		2		5010		8.6	1680	1450	180	170						0	0.22	0.15	2		
5	4.19			7.2	7.0	30.0					9.9			280		2	102		2		4520		8.4	1890	1520	200	180						0	0.18	0.16	2		
6	4.94			6.8	7.6	24.0					10.0			106		4	71		2		9560		8.8	2000	1580	180	170						0	0.20	0.12	2		
7	3.95			6.8	7.6	30.0					10.0			86		4	107		2		7780		8.5	2130	1630	200	190						0	0.32	0.14	2		
8	3.57	3		7.4	7.9	20.0					10.0			320		4	162		2		7060		8.4	2220	1800	200	200						25.2	0.32	0.08	5		
9	3.36			7.0	7.6	38.0					10.0			305		3	192		2		7670		8.8	2400	2020	150	200						69.3	0.43	0.30	2		
10	3.19			7.2	8.0	30.0					10.0			344		2	178		2		7230		8.6	2320	1800	150	220						0	0.46	0.20	225		
11	8.53			7.1	7.6	36.0					9.2			50		10	49		14		6160		8.2	1720	1440	150	140						0	0.50	1.40	4		
12	5.46			7.0	7.4	26.0					9.9			79		4	44		2		10120		8.6	1840	1430	180	160						0	0.23	0.23	4		
13	4.95			6.9	7.6	29.0					10.0			228		2	128		2		8440		8.4	2060	1780	180	170						12.6	0.18	0.20	2		
14	4.88			7.1	7.4	27.0					10.0			240		3	108		2		9980		7.4	2060	1610	190	170						18.9	0.16	0.09	2		
15	4.17	3		6.7	7.5	32.0					10.0			320		3	205		2		6210		7.9	2230	1780	200	190						6.3	0.15	0.17	2		
16	3.83			7.0	7.4	36.0					10.0			288		2	246		2		6110		9.1	2260	1750	200	190						63	0.14	0.34	2		
17	3.51			7.3	7.9	42.0					10.0			270		2	171		2		4470		8.8	2370	1850	200	170						0	0.19	0.24	2		
18	3.33			7.0	7.6	35.0					10.0			310		2	92		2		6220		9.1	2290	1960	200	180						11.8	0.14	0.31	2		
19	3.20			7.0	7.8	22.0					10.0			80		4	61		2		5970		8.9	2690	2350	200	190						0	0.14	0.22	2		
20	3.21			7.3	7.7	39.0					10.0			305		3	167		2		5310		9.1	2380	1840	180	170						56.7	0.15	0.22	2		
21	3.10			7.0	7.4	38.0					10.0			388		5	172		2		5640		8.8	2440	1990	180	160						17	0.19	0.24	2		
22	3.08	3		7.1	7.9	56.0					10.0			450		6	201		2		7100		8.4	2220	1980	180	170						18.6	0.24	0.12	5		
23	2.96			7.1	7.5	25.0					11.0			455		5	262		2		4530		8.1	2300	2020	180	160						12.6	0.22	0.31	2		
24	2.83			7.5	7.0	80.0					9.9			464		5	293		2		6370		8.2	2120	1640	180	170						31.5	0.29	0.17	2		
25	2.81			7.1	7.4	70.0					11.0			264		4	149		2		6230		8.4	2350	1910	180	170						0	0.31	0.21	2		
26	2.93			7.3	7.1	0.0					9.7			332		2	138		2		6040		8.2	2280	1860	190	180						25.2	0.30	0.34	2		
27	3.15			7.1	7.7	36.0					10.0			315		3	237		2		6210		8.1	2390	2000	190	180						0	0.30	0.22	3		
28	2.96			6.8	7.5	44.0					10.0			185		4	128		2		5760		8.4	2520	1960	200	190						0	0.37	0.36	2		
29	2.83	3		7.1	7.6	22.0					11.0			625		4	299		2		5450		8.8	2580	2120	200	190						31.5	0.47	0.27	2		
30	2.75			7.0	7.5	48.0					10.0			480		3	197		2		4710		8.6	2400	1980	200	190						24	0.47	0.34	5		
31	2.64			6.9	7.2	34.0					10.0			310		5	180		2		4610		8.1	2470	2110	200	190						0	0.46	0.31	2		
Tot.	114.20	15																																	505.2			
Avg.	3.68	3		7.1	7.5	32.8					10.1			277		4	154		2		6477		8.5	2225	1815		178.4						16.3	0.27	0.26	3		

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT
35083 FLOW
27772 CBOD
40581 TSS

Mike Stephenson
OPERATOR

9616
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

January 13, 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 03:31 AM on January 11, 2014 and stopped at 09:34 PM on January 11, 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>
January 11 2014	03:31 AM	09:34 PM	8.533 MG	22.141 MGD	1.684 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)-396-9142 or via email at duane.wright@louisvillemsd.org.

Sincerely,

A handwritten signature in cursive script that reads "Duane V. Wright".

Duane V. Wright
Process Supervisor-Operations

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

eB File



Report Selections: Period: 01/01/2014 00:00 thru 01/31/2014 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	2095065		1/11/14 3:31 am	MARKS JR	OPS ASHIFT	DOCUMENTED	01/14/2007	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHAGE - WATERS	11/11/04 09:34 PM	

Discharge Reporting:

Discharge Amount:	1,684,349 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT
Clean Up:	PIPE DISCHARGE SUBMERGED- NO CLEAN UP
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 SIGN POSTED AROUND THE AFFECTED AREA

Plant Details:

PEAK PLANT FLOW WHEN BLENDING	22,141,000 GPD
DAILY TOTAL PLANT FLOW	8,533,000 GAL

Notifications:

1/10/14 1:01 pm	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'
1/10/14 1:01 pm	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'

Total Facilities Printed: 1

Total Work Orders Printed: 1