



Louisville and Jefferson County Metropolitan Sewer District  
700 West Liberty Street  
Louisville Kentucky 40203-1911  
502-540-6000  
[www.msdlouky.org](http://www.msdlouky.org)

September 9, 2013

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

**RE: Jeffersontown WQTC, KPDES No: KY0025194  
Discharge Monitoring Report August 2013**

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 August 2013.

Also attached are bypass/blending letters and overflow reports.

There were no exceedences.

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

Sincerely,

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

Duane V. Wright  
Process Supervisor Central Region

DVW/Jeffersontown 08.13doc

Enclosures

cc: R. Shaw  
T. Singleton



*Beneficial Use of Louisville's Biosolids*  
[www.louisvillegreen.com](http://www.louisvillegreen.com)

**DMR Copy of Record**

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

<b>Report Dates &amp; Status</b>			
<b>Monitoring Period:</b>	<b>From 08/01/13 to 08/31/13</b>	<b>DMR Due Date:</b>	<b>09/28/13</b>
<b>Status:</b>	<b>NetDMR Validated</b>		

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

<b>Principal Executive Officer</b>			
<b>First Name:</b>	Greg	<b>Title:</b>	Exec. Dir.
<b>Last Name:</b>	Heitzman	<b>Telephone:</b>	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									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					=	9		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	=	143	=	131	26 - lb/d		=	6	=	7	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	=	12000	=	13584	26 - lb/d		=	560	=	723	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	=	21	=	27	26 - lb/d		=	1	=	1	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	=	384	=	448	26 - lb/d		=	19	=	25	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	=	13	=	16	26 - lb/d		=	0.6	=	1	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	=	2.63	=	3.328	03 - MGD							99/99 - Continuous	CN - CONTIN	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD							0	99/99 - Continuous	CN - CONTIN
					Value NODI														
74055	Coliform, fecal general	1 - Effluent Gross	0	--	Sample							=	4	=	12	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	=	48	=	62	26 - lb/d		=	2	=	2	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	=	5661	=	5807	26 - lb/d		=	273	=	322	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							=	99			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
JT0813&312013_overflowrpt.pdf	pdf	76367
JT082013_cover.pdf	pdf	16337
JT082013_MOR.pdf	pdf	69325
JT08132013_blend.pdf	pdf	24511
JTAUG31_SEPT12013_BLEND.pdf	pdf	24781

**Report Last Saved By**  
**JEFFERSONTOWN WQTC MSD**

User:	kevin.ries@louisvillemsd.org	Date/Time:	2013-09-23 09:30 (Time Zone: -04:00)
Name:	Kevin Ries		
E-Mail:	kevin.ries@louisvillemsd.org		

NAME OF TREATMENT PLANT JEFFERSONTOWN WTP COUNTY JEFFERSON MONTH OF: August 2013  
 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	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	2.45			7.0	7.6	35.0					8.4		675		2	337		2	1.37	6955	50	5.2	2000	1610	150	140								0.70	1.20	2	
2	2.32			7.0	8.6	38.0					8.4		940		3	364		2	1.35	3550	43	5.5	2230	1720	160	150								0.77	1.30	2	
3	2.21			7.0	8.7	36.0					8.3		600		4	184		2	1.26	3885	33	5.3	2040	1670	150	140								0.82	1.40	8	
4	2.12			7.2	8.6	26.0					8.4		540		7	177		2	1.39	3045	46	5.6	2130	1680	160	150								0.64	0.84	7	
5	2.14			6.9	8.2	30.0					8.5		670		18	301		4	1.39	4410	46	5.9	2040	1400	160	150								1.46	1.30	4	
6	2.22			6.7	7.8	70.0					8.3		655		4	408		2	1.39	5300	46	5.9	2000	1660	150	140								0.86	1.70	4	
7	2.26	3	3	6.8	7.7	70.0					8.0		980		12	362		3	1.41	3910	46	5.4	2120	1590	160	150								0.74	2.00	4	
8	2.29			6.9	8.1	58.0					8.1		865		4	378		2	1.42	3855	46	5.6	1940	1560	150	150								0.63	1.70	2	
9	2.83			7.0	7.9	52.0					8.2		624		16	274		4	1.41	3665	46	5.5	2160	1690	160	140								0.95	3.00	10	
10	2.97			6.8	7.7	50.0					8.0		194		4	97		2	1.43	3700	46	5.2	2010	1610	150	140								0.36	0.65	2	
11	2.46			6.9	7.9	64.0					8.4		375		2	244		2	1.43	4025	46	5.4	2190	1800	160	140								0.34	1.50	6	
12	3.26			7.2	7.2	44.0					8.6		730		3	193		2	1.4	3835	50	5.8	1970	1700	140	130								0.43	0.34	1400	
13	5.95			6.5	6.6	48.0					8.8		194		3	93		2	1.4	7510	30	6.7	1630	1410	100	100								0.30	0.34	66	
14	3.55	3	3	6.9	8.1	8.0					9.0		358		3	144		2	1.41	5845	33	6.6	2010	1600	140	130								0.31	0.39	2	
15	2.91			7.2	8.0	38.0					8.9		575		5	299		2	1.36	4255	39	6.1	2090	1570	140	120								0.30	0.95	2	
16	2.63			7.3	8.1	33.0					9.0		540		5	250		2	1.36	5040	39	5.8	2010	1510	130	120								0.32	0.60	2	
17	2.48			7.4	7.9	39.0					8.8		515		5	154		2	1.24	3460	36	6.2	2220	1700	110	100								0.42	0.50	2	
18	2.40			7.3	8.2	30.0					8.5		410		5	188		2	1.28	3570	36	6	2000	1540	100	100								0.49	0.70	2	
19	2.39			6.9	8.0	46.0					9.1		420		5	303		2	1.3	3795	35	5.2	1940	1470	100	100								0.53	0.59	2	
20	2.45			6.7	8.0	52.0					8.4		870		4	245		2	1.33	5790	47	5.8	2160	1680	100	90								0.59	0.70	5	
21	2.42	3	3	6.7	8.3	44.0					8.1		525		6	276		2	1.39	3875	35	5.9	1790	1320	90	80								0.77	0.95	6	
22	2.32			7.0	8.2	46.0					8.1		570		7	368		2	1.38	4985	30	3.6	1830	1300	90	80								0.65	1.10	2	
23	2.23			7.0	8.5	60.0					8.2		620		5	366		2	1.37	3375	32	3.9	1940	1470	80	80								0.69	0.75	2	
24	2.08			7.0	8.4	48.0					8.1		435		5	242		2	1.38	3005	36	4.2	1840	1440	80	80								0.66	0.89	2	
25	2.09			7.1	7.9	39.0					8.7		440		6	214		2	1.38	3090	36	5.2	1870	1330	90	80								0.68	0.78	2	
26	2.15			7.3	7.8	33.0					8.3		620		6	368		2	1.37	3915	34	5.7	1860	1350	90	80								0.72	0.89	4	
27	2.14			6.7	8.0	56.0					8.2		670		6	379		2	1.37	3325	38	5.6	2010	1370	100	90								0.72	0.78	4	
28	2.05	3	3	6.7	8.0	58.0					8.0		405		10	317		3	1.36	3755	36	5.6	2140	1720	100	100								0.67	0.78	2	
29	1.96			6.6	7.6	25.0					8.2		595		8	364		2	1.36	3630	36	6.1	2140	1590	110	110								0.55	0.85	2	
30	1.90			6.7	8.0	50.0					8.0		104		8	354		3	1.36	4965	36	5.6	2010	1510	120	120								0.55	0.71	2	
31	5.91			6.7	7.7	40.0					8.0		660		16	235		2	1.35	3210	39	6	2320	1730	130	120								0.81	0.67	28	
Tot.	81.54	12	12																42.4																		
Avg.	2.63	3	3	6.9	8.0	44.1					8.4		560		6	273		2	1.368	4211	39.58	5.552	2021	1558	124.2	116.1								0.63	1.00	4	

RESIDENTIAL COMMERCIAL INDUSTRIAL \_\_\_\_\_  
 INDUSTRIAL WASTE POPULATION EQUIVALENT  
 25050 FLOW 35289 CBOD 58543 TSS  
 Mike Stephenson OPERATOR 9616 CERT. NO.

TOTAL NUMBER OF SEWER CONNECTIONS \_\_\_\_\_ X \_\_\_\_\_ = \_\_\_\_\_ SEWERED POPULATION  
 SEWER CONNECTIONS 0 X 4 = 0

(502) 267-9257



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

August 14, 2013

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 05:03 AM on August 13, 2013 and stopped at 08:00 AM on August 13, 2013.

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.

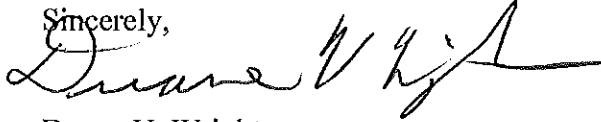
<u>Date</u>	<u>Start Time</u>	<u>Stop Time</u>	<u>Total Plant Flow (Vol)</u>	<u>Peak Plant Rate</u>	<u>Total Blended Flow (Vol)</u>
August 13 2013	05:02 AM	08:00 AM	5.947 MG	11.501 MGD	0.082844 MG



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)-396-9142 or via email at [duane.wright@louisvillemsd.org](mailto:duane.wright@louisvillemsd.org).

Sincerely,

A handwritten signature in black ink, appearing to read "Duane V. Wright". The signature is fluid and cursive, with a long horizontal stroke at the end.

Duane V. Wright  
Process Supervisor-Operations

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

eB File



Report Selections: Last Full Month: 08/2013, Excluding PPI Excluding CSO Excluding LAT, Prob Code: BLEND, 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	1995620		8/13/13 5:03 am	SINGLETON	OPS BSHIFT CENTRAL	DOCUMENTED	01/14/2007	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHAGE - WATERS	08/13/13 08:00 AM	

**Discharge Reporting:**

Discharge Amount:	82,844 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT
Clean Up:	PIPE DISCHARGE SUBMERGED- NO CLEAN UP
Control Zone:	PERMANENT SIGNS POSTED- NO ADDITIONAL CONTROL ZONE SET UP
Impact:	NO IMPACT OBSERVED- PIPE DISCHARGE SUBMERGED
Repair:	TEMPORARY BLENDING HAS BEEN NEGOTIATED AT THIS LOCATION WHEN FLOW THROUGH THE PLANT HAS BEEN OPTIMIZED DURING WET WEATHER
Public Notification:	PERMANENT SIGNS POSTED

**Plant Details:**

PEAK PLANT FLOW WHEN BLENDING	11,501,000 GPD
DAILY TOTAL PLANT FLOW	5,947,000 GAL

**Notifications:**

8/13/13 1:00 am	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org, eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov'
8/13/13 1:00 am	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemsd.org, eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov'

Report Selections: Last Full Month: 08/2013, Excluding PPI Excluding CSO Excluding LAT, Prob Code: BLEND, Result: WUS, Act Code: DISDW, DISREV

KPDES #	Facility ID	Water Quality Treatment Center				Receiving Stream of Treatment Center				Region	
KY0025194 (Cont'd)	MSD0255	JEFFERSONTOWN				CHENOWETH RUN				CENT	
<u>Activity Code / Description</u>	<u>WO #</u>	<u>Ref No</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV:RAIN EVENT DISCHARGE	2005139		8/31/2013 9:00:00PM	OPS CSHIFT	MARKS JR	DOCUMENTED	01/14/2007	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHARGE - WATERS	09/01/13 03:01 PM	

**Discharge Reporting:**

Discharge Amount:	227,989 GAL
Cause:	POWER OUTAGE DUE TO LIGHTENING AND HEAVY RAIN
Clean Up:	PIPE DISCHARGE SUBMERGED- NO CLEAN UP
Control Zone:	PERMANENT SIGNS POSTED
Impact:	SEWAGE OBSERVED
Repair:	POWER RESTORED; RAIN SUBSIDED
Public Notification:	SIGNS POSTED

**Plant Details:**

DAILY TOTAL PLANT FLOW	14,178,000 GAL
PEAK PLANT FLOW WHEN BLENDING	11,320,000 GPD

**Notifications:**

8/27/13 1:00 pm	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org, eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov'
8/27/13 1:00 pm	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemsd.org, eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov'

Total Facilities Printed: 1

Total Work Orders Printed: 2