



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)

January 16, 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 December 2012**

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 December 2012.

Also attached are bypass/blending letters, overflow reports and the fourth quarter biomonitring DMR's.

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 12.12.doc

Enclosures

cc: R. Shaw  
T. Singleton



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

**NAME** JEFFERSONTOWN WQTC MSD  
**ADDRESS** C/O CEDAR CREEK WQTC  
8405 CEDAR CREEK RD  
LOUISVILLE KY 40211  
**FACILITY** JEFFERSONTOWN WQTC

KY0025194  
PERMIT NUMBER

0012  
DISCHARGE NUMBER

MAJOR  
(SUBR LV)  
F - FINAL JEFFE  
FLOW BOD TSS DO PH  
EFFLUENT  
[ ] No Discharge

**LOCATION** LOUISVILLE KY 40299  
**ATTN:** DENNIS THOMASSON SR. METRO OPS

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

NOTE: Read instructions before completing this form

PARAMETER	MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
OXYGEN, DISSOLVED (DO)	SAMPLE MEASUREMENT	*****	*****	***	8	*****	*****	(19) MG/L	0	1/1	GR
00300 1 0 0	PERMIT MEASUREMENT	*****	*****	***	7	*****	*****	(19) INST MIN		THREE/WEEK	GRAB
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	6.6	*****	8.6	(12) SU	0	1/1	GR
PH	PERMIT MEASUREMENT	*****	*****	***	6.0	*****	9.0	(12) MINIMUM MAXIMUM SU		THREE/WEEK	GRAB
00400 1 0 0	SAMPLE MEASUREMENT	6037	8708	(26) LBS/DY	*****	177	323	(19) MG/L	0	1/1	CP
EFFLUENT GROSS VALUE	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	SAMPLE MEASUREMENT	443	539	(26) LBS/DY	*****	10	12	(19) MG/L	0	1/1	CP
00530 G 0 0	PERMIT MEASUREMENT	1000	1501	(26) LBS/DY	*****	30	45	(19) MO AVG MX WK AV		THREE/WEEK	COMPOS
RAW SEW/INFLUENT	SAMPLE MEASUREMENT	402	454	(26) LBS/DY	*****	12	17	(19) MG/L	0	1/1	CP
NITROGEN, AMMONIA TOTAL (AS N)	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
00610 G 0 0	SAMPLE MEASUREMENT	21	30	(26) LBS/DY	*****	0.5	0.9	(19) MG/L	0	1/1	CP
RAW SEW/INFLUENT	PERMIT MEASUREMENT	334	500	(26) LBS/DY	*****	10	15	(19) MO AVG MX WK AV		THREE/WEEK	COMPOS
NITROGEN, AMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	25	28	(26) LBS/DY	*****	0.6	0.8	(19) MG/L	0	1/1	CP
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	67	100	(26) LBS/DY	*****	2.0	3.0	(19) MO AVG MX WK AV		THREE/WEEK	COMPOS
PHOSPHORUS, TOTAL (AS P)	SAMPLE MEASUREMENT	25	28	(26) LBS/DY	*****	0.6	0.8	(19) MG/L	0	1/1	CP
00665 1 2 1	PERMIT MEASUREMENT	67	100	(26) LBS/DY	*****	2.0	3.0	(19) MO AVG MX WK AV		THREE/WEEK	COMPOS
EFFLUENT GROSS VALUE	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.)										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	GREG HEITZMAN EXECUTIVE DIRECTOR							TELEPHONE		DATE	
TYPED OR PRINTED	GREG HEITZMAN EXECUTIVE DIRECTOR							502 540-6000		13 01 10	
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)	USE MO AVG FOR BOD/TSS REMV; REPT IN MINIMUM COLUMN.							SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE NUMBER	
								502 540-6000		13 01 10	

PERMITTEE NAME/ADDRESS (Include

Facility Name/Location if different)

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

KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM (KPDES)  
 DISCHARGE MONITORING REPORT (DMR)

KY0025194  
 PERMIT NUMBER

001 2  
 DISCHARGE NUMBER

MAJOR (SUBR LV)  
 F - FINAL JEFFE  
 FLOW BOD TSS DO PH  
 EFFLUENT  
 [ ] No Discharge

LOCATION LOUISVILLE KY 40299  
 ATTN: DENNIS THOMASSON SR. METRO OPS

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

NOTE: Read instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT	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	MEASUREMENT	4.77	6.57	(03) MGD	*****	*****	*****	***	0	CN	CN
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	REPORT MO AVG	REPORT MX WK AV	(03) MGD	*****	*****	*****	***		CONTINUOUS	CONTIN
COLIFORM, FECAL GENERAL 74055 1 0 0	MEASUREMENT	*****	*****	***	*****	4	6	(13) 100ML	0	1/1	GR
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	*****	*****	***	*****	200 30DA GEO	400 7 DA GEO	(13) 100ML		THREE/WEEK	GRAB
BOD, CARBONACEOUS 05 DAY, 20C 80082 G 0 0	MEASUREMENT	3658	5041	(26) LBS/DY	*****	111	201	(19) MG/L	0	1/1	CP
RAW SEW/INFLUENT	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	MEASUREMENT	153	241	(26) LBS/DY	*****	3	4	(19) MG/L	0	1/1	CP
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	667 MO AVG	1001 MX WK AV	(26) LBS/DY	*****	20 MO AVG	30 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
BOD, CARB 5-DAY, 20 DEG C, PERCENT REMVL 80091 K 0 0	MEASUREMENT	*****	*****	***	97	*****	*****	(23) CENT	0	1/31	CA
PERCENTREMOVAL	PERMIT MEASUREMENT	*****	*****	***	85 MO AVG	*****	*****	(23) CENT		ONCE/MONTH	CALCTD
SOLIDS, SUSPENDED PERCENT REMOVAL 81011 K 0 0	MEASUREMENT	*****	*****	***	94	*****	*****	(23) CENT	0	1/31	CA
PERCENTREMOVAL	PERMIT MEASUREMENT	*****	*****	***	85 MO MIN	*****	*****	(23) CENT		ONCE/MONTH	CALCTD
	SAMPLE MEASUREMENT										
	PERMIT MEASUREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER GREG HEITZMAN EXECUTIVE DIRECTOR	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 INDIVIDALS 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			
TYPED OR PRINTED						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO
						502	540-6000	13	01	10	

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 USE MO AVG FOR BOD/TSS REMV; REPT IN MINIMUM COLUMN.

NAME JEFFERSONTOWN WQTC MSD  
ADDRESS C/O CEDAR CREEK WQTC  
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FACILITY JEFFERSONTOWN WQTC

KY0025194  
PERMIT NUMBER


001 Y  
DISCHARGE NUMBER

MAJOR (SUBR LV)  
F - FINAL JEFFE  
BIOMONITORING/ONCE PER QUARTER EFFLUENT  
[ ] No Discharge

LOCATION LOUISVILLE KY 40299  
ATTN: DENNIS THOMASSON SR. METRO OPS

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
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PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
HARDNESS, TOTAL (AS CaCO3) 00900 1 0 1 EFFLUENT GROSS VALUE	MEASUREMENT	*****	*****	***	*****	215	215	(19) MG/L	0	1/90	CP
	PERMIT MEASUREMENT	*****	*****	***	*****	REPORT MO AVG	REPORT DAILY MX	(19) MG/L		QTRLY	COMPOS
CADMIUM, DISSOLVED (AS CD) 01025 1 0 1 EFFLUENT GROSS VALUE	MEASUREMENT	*****	*****	***	*****	< 0.001	< 0.001	(19) MG/L	0	1/90	CP
	PERMIT MEASUREMENT	*****	*****	***	*****	REPORT MO AVG	REPORT DAILY MX	(19) MG/L		QTRLY	COMPOS
COPPER, DISSOLVED (AS CU) 01040 1 0 1 EFFLUENT GROSS VALUE	MEASUREMENT	*****	*****	***	*****	< 0.006	< 0.006	(19) MG/L	0	1/90	CP
	PERMIT MEASUREMENT	*****	*****	***	*****	REPORT MO AVG	REPORT DAILY MX	(19) MG/L		QTRLY	COMPOS
LEAD, DISSOLVED (AS PB) 01049 1 0 1 EFFLUENT GROSS VALUE	MEASUREMENT	*****	*****	***	*****	< 0.08	< 0.08	(19) MG/L	0	1/90	CP
	PERMIT MEASUREMENT	*****	*****	***	*****	REPORT MO AVG	REPORT DAILY MX	(19) MG/L		QTRLY	COMPOS
ZINC, DISSOLVED (AS ZN) 01090 1 0 1 EFFLUENT GROSS VALUE	MEASUREMENT	*****	*****	***	*****	0.027	0.027	(19) MG/L	0	1/90	CP
	PERMIT MEASUREMENT	*****	*****	***	*****	REPORT MO AVG	REPORT DAILY MX	(19) MG/L		QTRLY	COMPOS
ZINC TOTAL RECOVERABLE 01094 1 0 1 EFFLUENT GROSS VALUE	MEASUREMENT	*****	*****	***	*****	0.029	0.029	(19) MG/L	0	1/90	CP
	PERMIT MEASUREMENT	*****	*****	***	*****	REPORT MO AVG	REPORT DAILY MX	(19) MG/L		QTRLY	COMPOS
CADMIUM TOTAL RECOVERABLE 01113 1 0 1 EFFLUENT GROSS VALUE	MEASUREMENT	*****	*****	***	*****	< 0.001	< 0.001	(19) MG/L	0	1/90	CP
	PERMIT MEASUREMENT	*****	*****	***	*****	REPORT MO AVG	REPORT DAILY MX	(19) MG/L		QTRLY	COMPOS
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER GREG HEITZMAN EXECUTIVE DIRECTOR	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 those statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)				 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE		DATE		
TYPED OR PRINTED							502	540-6000	13	01	10
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)					AREA CODE	NUMBER	YEAR	MO	DAY		

Facility Name/Location if different)

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KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM (KPDES)  
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MAJOR (SUBR LV)  
 F - FINAL JEFFE  
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LOCATION LOUISVILLE KY 40299  
 ATTN: DENNIS THOMASSON SR. METRO OPS

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PARAMETER	MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
LEAD TOTAL RECOVERABLE 01114 1 0 1 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	*****	< 0.08	< 0.08	(19) MG/L	0	1/90	CP	
	PERMIT MEASUREMENT	*****	*****	***	*****	REPORT MO AVG	REPORT DAILY MX	(19) MG/L		QTRLY	COMPOS	
COPPER TOTAL RECOVERABLE 01119 1 0 1 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	*****	0.008	0.008	(19) MG/L	0	1/90	CP	
	PERMIT MEASUREMENT	*****	*****	***	*****	REPORT MO AVG	REPORT DAILY MX	(19) MG/L		QTRLY	COMPOS	
TOXICITY, FINAL CONC TOXICITY UNITS 61406 1 0 1 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	*****	*****	<1.00	(2G) TOXCTY	0	1/90	CP	
	PERMIT MEASUREMENT	*****	*****	***	*****	*****	1.00 DAILY MX	(2G) TOXCTY		QTRLY	COMPOS	
	SAMPLE MEASUREMENT											
	PERMIT MEASUREMENT											
	SAMPLE MEASUREMENT											
	PERMIT MEASUREMENT											
	SAMPLE MEASUREMENT											
	PERMIT MEASUREMENT											
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	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 HEITZMAN EXECUTIVE DIRECTOR								502 540-6000		13 01 10		
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT							AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NAME OF TREATMENT PLANT JEFFERSONTOWN WTP

COUNTY JEFFERSON

MONTH OF: December 2012

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		WASTE D	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) X 1000	MLVSS (mg/L) X 1000	30 MIN.	60 MIN.	GALLONS X 1000	RAW		HAULED		TOTAL PHOS. (mg/L)	NH3-N (mg/L)	FECAL COLIFORM (COLONIES/100ML)	
																		GAL/DAY X 1000	MLSS X 1000								% VOLATILE SOLIDS	% VOLATILE SOLIDS	% VOLATILE SOLIDS	WITHDRAWN GALLONS X 1000				
1	2.15			7.0	8.6	40.0			9.1		408		8	350		5	1.09	5885	31	7.2	3080	2400	330	200							0.97	0.50	2	
2	2.35			7.1	7.2	35.0			9.0		372		11	236		3	1.14	5710	31	7.1	3270	2620	450	200							0.83	0.67	2	
3	2.32			6.9	6.6	28.0			9.3		244		7	236		2	1.18	6325	35	7.9	2950	2290	350	180							0.76	0.67	2	
4	3.46	3	3	6.7	7.4	45.0			8.9		408		12	165		5	1.18	7020	31	6.4	2830	2260	400	190							1.10	1.80	2	
5	3.68			7.1	6.8	25.0			8.7		342		8	183		2	1.35	8180	31	7.2	2770	2230	250	180							0.66	0.56	4	
6	3.00			7.3	8.1	25.0			9.1		364		10	195		4	1.2	6135	31	7.3	3050	2370	200	180							0.71	0.90	106	
7	10.09			7.1	7.5	21.0			11.0		122		26	42		7	1.21	10270	28	8.5	2280	1820	140	130							0.88	0.95	39	
8	10.30			7.2	7.6	31.0			8.3		98		15	40		5	1.21	11090	0	6.2	1820	1440	115	110							0.57	0.39	6	
9	7.82			7.3	7.4	32.0			9.4		112		8	47		4	1.22	10185	27	7.5	2040	1560	140	120							0.30	0.28	42	
10	10.44			6.9	7.2	7.0			9.8		136		10	85		7	1.22	12040	14	6.9	1880	1520	120	110							0.49	0.62	4	
11	5.73	3	3	7.2	7.7	14.0			9.8		107		7	92		2	1.22	9310	35	8.2	2800	2170	170	160							0.51	0.50	2	
12	4.43			7.0	7.4	15.0			10.0		186		8	160		3	1.24	9685	27	7.5	2780	2220	200	180							0.68	0.17	2	
13	3.85			6.7	7.4	25.0			9.9		294		10	192		3	1.25	6480	33	8.1	3000	2360	210	190							0.58	0.50	2	
14	3.43			7.3	7.5	30.0			9.8		254		5	172		3	1.25	7070	33	7.9	3000	2350	200	190							0.49	0.34	2	
15	3.52			6.9	7.6	28.0			9.6		178		6	107		2	1.25	6050	33	7.6	2930	2370	230	200							0.50	0.39	2	
16	3.39			6.7	7.6	16.0			9.4		87		6	73		2	1.24	5970	37	7.7	3180	2550	240	190							0.54	0.50	2	
17	4.01			6.5	7.6	23.0			9.6		102		9	65		3	1.2	7915	37	7	3400	2540	200	190							0.77	0.90	3	
18	4.13	3	3	6.9	7.7	12.0			9.5		108		6	90		2	1.26	7965	33	7.1	2480	2040	210	180							0.55	0.56	3	
19	3.54			7.0	7.9	10.0			9.9		148		7	123		2	1.23	6800	31	7.4	2950	2250	240	190							0.48	0.56	2	
20	5.95			6.5	7.5	10.0			9.6		142		10	72		4	1.22	7730	30	6.5	2990	2330	240	160							0.68	0.56	2	
21	5.06			7.2	7.3	10.0			10.0		94		11	57		3	1.23	10420	29	8.3	2660	2130	160	160							0.64	0.45	2	
22	4.03			6.9	7.1	20.0			9.9		220		10	56		4	1.22	10255	29	7.2	2970	2300	260	150							0.55	0.45	2	
23	3.55			7.9	8.2	18.0			10.0		146		3	64		2	1.41	7460	29	7.3	3130	2130	170	160							0.42	0.39	2	
24	3.51			7.4	7.8	13.0			9.6		150		3	78		2	1.17	7950	29	7.7	3100	2510	170	160							0.42	0.39	2	
25	3.07	3	3	7.2	7.3	10.0			9.8		149		8	78		3	1.18	5725	29	7.9	2700	2150	170	150							0.58	0.34	10	
26	7.92			7.6	7.1	12.0			9.9		38		22	45		5	1.17	8860	29	7.1	2670	2030	150	150							0.85	0.56	7	
27	5.79			6.7	7.1	10.0			9.8		45		8	50		3	1.16	11475	24	8.9	2380	1810	130	130							0.48	0.39	2	
28	4.59			7.1	7.6	5.0			9.9		78		18	69		4	1.18	10125	241	7.8	2770	2220	150	140							0.55	0.45	2	
29	4.73			6.8	6.8	7.0			9.5		62		12	50		3	1.18	8770	29	7.7	2720	2200	190	190							0.61	0.39	2	
30	4.12			6.9	7.1	5.0			9.7		122		11	83		4	1.17	7355	29	7.8	2530	2000	190	180							0.72	0.34	4	
31	3.89			6.4	7.1	14.0			10.0		170		10	88		3	1.17	8155	29	8.9	2720	2140	140	140							0.76	0.39	5	
Tot.	147.86	12	12																															
Avg.	4.77	3	3	7.0	7.4	19.2			9.6		177		10	111		3		35.94	7.542	2769	2171	210.2	165.8							0.63	0.54	4		

RESIDENTIAL  
COMMERCIAL  
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT  
45425  
FLOW

25988  
CBOD

33521  
TSS

Mike Stephenson  
OPERATOR

9616  
CERT. NO.

SEWER CONNECTIONS 0 X 4 = 0 SEWERED POPULATION

PLANT TELEPHONE  
(502)267-9257



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

December 12, 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 Jeffersontown WQTC – KPDES Permit KY0025194**

Dear Mr. Roth:

This plant experienced a bypass event and has been reported through our electronic notification system at approximately 01:00 PM on December 11, 2012, referencing Work Order 1610857 as a dry weather discharge. 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: An electrical malfunction in the secondary pump station caused the pumps to not function properly. MSD staff reduced the flow to the secondary pump station by increasing the flow to the #2 plant. Approximately 14,011 gallons of waste water received preliminary treatment, primary clarification and ultraviolet disinfection. The wastewater did not receive secondary treatment.
- Period of noncompliance: Starting 02:04 AM on December 11, 2012 and stopping 02:51 AM on December 11, 2012.
- Steps taken or planned to reduce, eliminate and prevent recurrence: MSD staff is looking at the feasibility of updating the backup controls for the secondary pump station.

Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502)-587-5856, my cell phone at (502)-396-4422 or via email at richard.mills@louisvillemsd.org.

Sincerely,

Richard Mills  
Process Supervisor-Operations

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





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

December 11, 2012

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 06:20 AM on December 07, 2012 and stopped at 03:04 PM on December 10, 2012.

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>
December 07 2012	06:20 AM	11:59 PM	10.09 MG	14.49 MGD	1.44 MG
December 08 2012	12:00 AM	07:00 PM	10.30 MG	14.39 MGD	1.07 MG
December 09 2012	10:28 AM	11:59 PM	7.82 MG	15.02 MGD	0.18 MG
December 10 2012	12:00 AM	03:04 PM	10.44 MG	15.22 MGD	1.23 MG

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 [wrightd@msdlouky.org](mailto:wrightd@msdlouky.org).

Sincerely,

Duane V. Wright  
 Process Supervisor-Operations

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

eB File







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

December 27, 2012

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 08:55 AM on December 26, 2012 and stopped at 07:20 PM on December 26, 2012.

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.

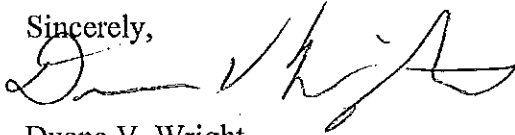
<u>Date</u>	<u>Start Time</u>	<u>Stop Time</u>	<u>Total Plant Flow (Vol)</u>	<u>Peak Plant Rate</u>	<u>Total Blended Flow (Vol)</u>
December 26 2012	08:55 AM	07:20 PM	7.924 MG	13.187 MGD	0.593 MG



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](mailto:duane.wright@louisvillemsd.org).

Sincerely,



Duane V. Wright  
Process Supervisor-Operations

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

eB File



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

**KPDES #** KY0025194     
 **Facility ID** MSD0255     
 **Water Quality Treatment Center** JEFFERSONTOWN     
 **Receiving Stream of Treatment Center** CHENOWETH RUN     
 **Region** 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 #	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISDW: DRY WEATHER DISCHARGE	1610857	12/11/12 02:04 AM	SINGLETON	OPS ASHIFT	DOCUMENTED	01/14/07	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE-WATER S	12/11/12 02:51 AM	

**Spot Inspections:**

Discharge Amount:	14,011 GAL
Cause:	LOST THE VFD FOR PUMP #3
Clean Up:	PIPE DISCHARGE SUBMERGED- NO CLEANUP
Control Zone:	PIPE DISCHARGE SUBMERGED- NO CONTROL ZONE
Impact:	NO IMPACT OBSERVED- PIPE DISCHARGE SUBMERGED
Repair:	MSD IS EVALUATING THE SITUATION, TO INSTALL LOCAL CONTROL SWITCHES.

**Notifications:**

12/11/12 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov and LisaA.Jeffries@ky.gov
12/11/12 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov and LisaA.Jeffries@ky.gov
12/11/12 02:04 AM	DISPUB	PERMANENT SIGNS POSTED

Total Facilities Printed: 1  
Total Work Orders Printed: 1



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

**KPDES #** KY0025194     
 **Facility ID** MSD0255     
 **Water Quality Treatment Center** JEFFERSONTOWN     
 **Receiving Stream of Treatment Center** CHENOWETH RUN     
 **Region** 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 #	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV: RAIN EVENT DISCHARGE	1607820	12/07/12 06:20 AM	SINGLETON	OPS BSHIFT CENTRAL	DQCUMENTED	01/14/07	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHARGE-WATER S	12/10/12 03:04 PM	

**Spot Inspections:**

Peak Plant Flow when Blending:	15,215,000 GPD
Total Plant Flow when Blending:	38,657,000 GAL
Discharge Amount:	3,920,379 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT IN THE AREA
Clean Up:	PIPE DISCHARGE SUBMERGED- NO CLEANUP
Control Zone:	PIPE DISCHARGE SUBMERGED- NO CONTROL ZONE
Impact:	NO IMPACT OBSERVED- PIPE DISCHARGE SUBMERGED
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION.

**Notifications:**

12/07/12 06:20 AM	DISPUB	PERMANENT SIGNS ARE POSTED AT THIS LOCATION
12/07/12 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov and LisaA.Jeffries@ky.gov
12/07/12 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov and LisaA.Jeffries@ky.gov



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

**KPDES #** KY0025194 (Cont'd)     
 **Facility ID** MSD0255     
 **Water Quality Treatment Center** JEFFERSONTOWN     
 **Receiving Stream of Treatment Center** CHENOWETH RUN     
 **Region** CENT

<u>Activity Code / Description</u>	<u>WO #</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	1616449	12/26/12 08:55 AM	MARKS JR	WRIGHT	DOCUMENTED	01/14/07	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHARGE-WATER S	12/26/12 07:20 PM	

**Spot Inspections:**

Peal Plant Flow when Blending:	13,187,000 GPD
Total Plant Flow when Blending:	4,706,000 GAL
Discharge Amount:	592,914 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT IN THE AREA
Clean Up:	PIPE DISCHARGE SUBMERGED- NO CLEANUP
Control Zone:	PIPE DISCHARGE SUBMERGED- NO CONTROL ZONE
Impact:	NO IMPACT OBSERVED- PIPE DISCHARGE SUBMERGED
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION.

**Notifications:**

12/26/12 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov and LisaA.Jeffries@ky.gov
12/26/12 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov and LisaA.Jeffries@ky.gov
12/26/12 08:55 AM	DISPUB	PERMANENT SIGNS POSTED

Total Facilities Printed: 1  
Total Work Orders Printed: 2



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

<b>KPDES #</b> KY0025194	<b>Facility ID</b> MSD0255	<b>Water Quality Treatment Center</b> JEFFERSONTOWN	<b>Receiving Stream of Treatment Center</b> CHENOWETH RUN	<b>Region</b> CENT
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<b>Facility Type</b> SMH Sewer Manhole	<b>Facility ID</b> 28173	<b>Facility Address</b> 3258 RUCKRIEGEL PKY	<b>If Pump Station, Name of Pump Station:</b>	<b>Receiving Stream</b> CHENOWETH RUN	<b>Discharge to</b> GROUND
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<u>Activity Code / Description</u>	<u>WO #</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	1608032	12/07/12 11:12 AM	SIVADO	GRIFFITH	DOCUMENTED	03/04/08	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATER S	12/11/12 03:00 PM	

**Spot Inspections:**

Discharge Amount:	64,500 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WO# 1609694
Control Zone:	CAUTION TAPE AND TEMP SIGNS
Impact:	LIGHT DEBRIS OBSERVED
Repair:	LOCATION INCLUDED IN THE IOAP

**Notifications:**

12/07/12 01:56 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS TO AVOID DISCHARGED CONTENT
12/07/12 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov and LisaA.Jeffries@ky.gov
12/07/12 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov and LisaA.Jeffries@ky.gov



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

<b>KPDES #</b> KY0025194 (Cont'd)	<b>Facility ID</b> MSD0255	<b>Water Quality Treatment Center</b> JEFFERSONTOWN	<b>Receiving Stream of Treatment Center</b> CHENOWETH RUN	<b>Region</b> CENT
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<b>Facility Type</b>	<b>Facility ID</b>	<b>Facility Address</b>	<b>If Pump Station, Name of Pump Station:</b>	<b>Receiving Stream</b>	<b>Discharge to</b>
SMH Sewer Manhole	28551	11401 GRAND AVE		CHENOWETH RUN	STREAM

<u>Activity Code / Description</u>	<u>WO #</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	1608569	12/10/12 12:12 AM	SIVADO	GRIFFITH	DOCUMENTED	11/22/11	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATER S	12/11/12 03:00 PM	

**Spot Inspections:**

Discharge Amount:	52,500 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WO# 4076051
Control Zone:	CAUTION TAPE AND TEMP SIGNS PLACED
Impact:	LIGHT DEBRIS OBSERVED
Repair:	LOCATION INCLUDED IN THE IOAP

**Notifications:**

12/10/12 07:17 AM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGE
12/10/12 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov and LisaA.Jeffries@ky.gov
12/10/12 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov and LisaA.Jeffries@ky.gov



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

<b>KPDES #</b> KY0025194 (Cont'd)	<b>Facility ID</b> MSD0255	<b>Water Quality Treatment Center</b> JEFFERSONTOWN	<b>Receiving Stream of Treatment Center</b> CHENOWETH RUN	<b>Region</b> CENT
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<b>Facility Type</b>	<b>Facility ID</b>	<b>Facility Address</b>	<b>If Pump Station, Name of Pump Station:</b>	<b>Receiving Stream</b>	<b>Discharge to</b>
SMH Sewer Manhole	64505	3200 RUCKRIEGEL PKY		CHENOWETH RUN	STREAM

<u>Activity Code / Description</u>	<u>WO #</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	1608037	12/07/12 11:24 AM	SIVADO	GRIFFITH	DOCUMENTED	02/24/11	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE-WATER S	12/11/12 03:00 PM	

**Spot Inspections:**

Discharge Amount:	64,500 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WO# 1610546
Control Zone:	CAUTION TAPE AND TEMP SIGNS PLACED
Impact:	LIGHT DEBRIS OBSERVED
Repair:	LOCATION INCLUDED IN THE IOAP

**Notifications:**

12/07/12 01:59 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS TO AVOID CONTACT WITH DISCHARGE
12/07/12 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov and LisaA.Jeffries@ky.gov
12/07/12 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to eppc.ert@ky.gov, Sayre.Dennis@epamail.epa.gov, Charlie.Roth@ky.gov and LisaA.Jeffries@ky.gov