

MSD

Metropolitan Sewer District

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

February 22, 2011

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

RE: Jeffersontown WQTC, KPDES No: KY0025194
Discharge Monitoring Report
January 2011

Dear Ms. Thompson:

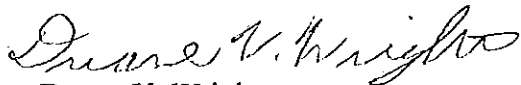
Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Jeffersontown WQTC KPDES No.: KY0025194 for the month of January 2011.

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

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 1.11.doc

Enclosures

cc: C. Roth (DOW Louisville)
R. Shaw
T. Singleton



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

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

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
FROM 11	01	01	TO	11	01	31

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
OXYGEN, DISSOLVED (DO) 00300 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	9	*****	*****	(19) MG/L	0	1/1	GR
	PERMIT MEASUREMENT	*****	*****	***	7 INST MIN	*****	*****	(19) MG/L		THREE/WEEK	GRAB
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	***	6.5	*****	7.5	(12) SU	0	1/1	GR
	PERMIT MEASUREMENT	*****	*****	***	6.0 MINIMUM	*****	9.0 MAXIMUM	(12) SU		THREE/WEEK	GRAB
SOLIDS, TOTAL SUSPENDED 00530 G 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	3292	3823	(26) LBS/DY	*****	122	166	(19) MG/L	0	1/1	CP
	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 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	226	349	(26) LBS/DY	*****	8	10	(19) MG/L	0	1/1	CP
	PERMIT MEASUREMENT	1000 MO AVG	1501 MX WK AV	(26) LBS/DY	*****	30 MO AVG	45 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
NITROGEN, AMMONIA TOTAL (AS N) 00610 G 0 0 RAW SEW/INFLUENT	SAMPLE MEASUREMENT	487	543	(26) LBS/DY	*****	18	21	(19) MG/L	0	1/1	CP
	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
NITROGEN, AMMONIA TOTAL (AS N) 00610 1 2 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	65	85	(26) LBS/DY	*****	2	4	(19) MG/L	0	1/1	CP
	PERMIT MEASUREMENT	334 MO AVG	500 MX WK AV	(26) LBS/DY	*****	10 MO AVG	15 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
PHOSPHORUS, TOTAL (AS P) 00665 1 2 1 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	19	22	(26) LBS/DY	*****	0.7	0.8	(19) MG/L	0	1/1	CP
	PERMIT MEASUREMENT	67 MO AVG	100 MX WK AV	(26) LBS/DY	*****	2.0 MO AVG	3.0 MX WK AV	(19) MG/L		THREE/WEEK	COMPOS
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER H J SCHARDEIN 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 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						502 540-6000		11 02 21			
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				

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

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

KY0025194
PERMIT NUMBER

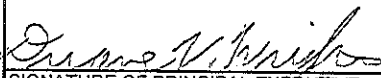
001 2
DISCHARGE NUMBER

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
FROM 11	01	01	TO	11	01	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 EFFLUENT GROSS VALUE	3.37	4.26	(03) MGD	*****	*****	*****	***	0	CN	CN		
COLIFORM, FECAL GENERAL 74055 1 0 0 EFFLUENT GROSS VALUE	REPORT MO AVG	REPORT MX WK AV	(03) MGD	*****	*****	*****	***		CONTINUOUS	CONTIN		
BOD, CARBONACEOUS 05 DAY, 20C 80082 G 0 0 RAW SEW/INFLUENT	*****	*****	***	*****	4	5	(13) 100ML	0	1/1	GR		
BOD, CARBONACEOUS 05 DAY, 20C 80082 1 0 0 EFFLUENT GROSS VALUE	REPORT MO AVG	REPORT MX WK AV	(26) LBS/DY	*****	200 30DA GEO	400 7 DA GEO	(13) 100ML		THREE/WEEK	GRAB		
BOD, CARBONACEOUS 05 DAY, 20C 80082 1 0 0 EFFLUENT GROSS VALUE	3260	3707	(26) LBS/DY	*****	122	158	(19) MG/L	0	1/1	CP		
BOD, CARBONACEOUS 05 DAY, 20C 80082 1 0 0 EFFLUENT GROSS VALUE	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 EFFLUENT GROSS VALUE	94	139	(26) LBS/DY	*****	3	4	(19) MG/L	0	1/1	CP		
BOD, CARBONACEOUS 05 DAY, 20C 80082 1 0 0 EFFLUENT GROSS VALUE	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 PERCENTREMOVAL	*****	*****	***	97	*****	*****	(23) CENT	0	1/31	CA		
SOLIDS, SUSPENDED PERCENT REMOVAL 81011 K 0 0 PERCENTREMOVAL	*****	*****	***	85 MO AVG	*****	*****	(23) CENT		ONCE/MONTH	CALCTD		
SOLIDS, SUSPENDED PERCENT REMOVAL 81011 K 0 0 PERCENTREMOVAL	*****	*****	***	94	*****	*****	(23) CENT	0	1/31	CA		
SOLIDS, SUSPENDED PERCENT REMOVAL 81011 K 0 0 PERCENTREMOVAL	*****	*****	***	85 MO MIN	*****	*****	(23) CENT		ONCE/MONTH	CALCTD		
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 those statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.							TELEPHONE		DATE		
H J SCHARDEIN EXECUTIVE DIRECTOR								502	540-6000	11	02	21
TYPED OR PRINTED								SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE			

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

NAME OF TREATMENT PLANT JEFFERSONTOWN WTP COUNTY JEFFERSON MONTH OF: January 2011
 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.	90 MIN.	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS	WITHDRAWN GALLONS X 1000				
1	7.09			7.2	6.5	6.0			9.4		53	8	31		5	1.419	5.645	30	1.6	2.44	1.96	200	150									0.97	5.40	4	
2	5.19			6.5	7.0	8.0			9.9		104	8	96		3	1.44	5.525	26	5.4	2.85	2.45	320	240								0.32	0.06	4		
3	4.19	3	3	6.6	6.5	10.0			9.7		99	10	94		4	1.43	6.225	24	4.8	2.32	1.9	170	150								0.66	1.50	8		
4	3.72			6.7	6.8	8.0			10.4		102	15	84		4	1.42	5.935	20	7.7	2.29	1.88	190	160								0.65	1.30	4		
5	3.38			6.3	6.8	7.0			10.7		103	13	108		4	1.419	5.095	24	7.8	2.13	1.97	180	150								0.50	1.30	4		
6	3.21			6.9	7.0	4.0			9.7		54	8	116		2	1.419	5.5	23	4.5	2.2	1.77	200	150								0.35	0.06	4		
7	3.05			6.6	6.7	10.0			9.9		127	9	179		6	1.414	5.825	39	2.9	2.77	2.03	210	160								0.67	5.60	4		
8	2.96			6.5	7.0	15.0			8.8		100	11	85		5	1.418	4.6	33	4	2.5	2.01	260	210								0.77	5.50	4		
9	2.85			7.0	7.0	8.0			9.2		112	10	102		3	1.41	4.605	35	3.3	2.52	2.1	300	220								0.64	3.40	4		
10	2.78	3	3	6.6	6.5	15.0			9.0		59	14	120		5	1.4	6.685	20	3.7	2.35	1.87	290	200								0.83	5.90	10		
11	2.78			6.6	6.6	5.0			9.1		135	10	162		3	1.4	5.74	35	3.9	2.7	2.19	270	200								0.85	3.80	4		
12	2.74			6.7	6.7	10.0			10.3		295	7	220		3	1.436	4.955	26	3.7	2.63	2.13	300	220								0.83	2.10	4		
13	2.71			7.1	6.8	12.0			10.6		363	6	231		2	1.417	5.21	38	4.3	2.93	2.41	280	230								0.66	1.80	4		
14	2.63			6.6	6.9	20.0			10.2		96	7	187		4	1.408	5.04	38	4.1	2.83	2.27	290	230								0.68	3.00	4		
15	2.65			6.6	6.6	25.0			10.0		151	5	159		3	1.414	4.89	38	2.6	2.65	2.34	270	220								0.60	4.90	4		
16	2.62			6.5	6.9	8.0			10.1		134	8	112		4	1.413	4.915	31	3.2	2.93	2.53	300	240								0.61	2.10	4		
17	2.69	3	3	6.6	6.9	10.0			10.2		162	5	201		3	1.394	4.885	35	3.3	2.99	2.56	300	240								0.64	1.30	4		
18	3.92			6.6	6.7	12.0			10.2		182	7	148		3	1.375	5.33	39	5.8	3.11	2.55	310	250								0.58	1.30	4		
19	3.94			6.7	6.9	15.0			10.4		136	8	117		3	1.399	6.905	40	8.4	2.53	2.05	240	210								0.65	0.84	4		
20	3.46			6.7	6.7	16.0			10.4		134	11	118		4	1.402	6.195	35	6.8	3.05	2.59	290	240								0.68	1.20	4		
21	3.36			6.7	7.2	14.0			10.4		92	11	121		5	1.397	6.31	41	7.2	2.94	2.38	290	240								0.80	1.30	4		
22	3.16			6.7	6.7	8.0			10.4		69	6	52		2	1.384	5.65	40	7.1	2.95	2.34	290	240								0.66	1.20	4		
23	3.07			6.5	6.7	6.0			10.3		45	6	57		3	1.38	6.495	42	7.1	3.3	2.46	300	250								0.70	1.30	4		
24	3.04	3	3	6.6	6.7	15.0			10.0		93	6	108		2	1.376	6.72	40	8.4	3.06	2.44	290	190								0.74	2.00	4		
25	3.40			6.5	6.7	15.0			10.0		94	2	116		2	1.368	7.215	39	7.3	2.73	2.27	190	180								0.68	1.30	4		
26	3.45			6.6	7.2	15.0			10.3		119	3	121		2	1.36	7.85	41	7.3	2.89	2.41	270	240								0.61	1.60	4		
27	3.45			6.6	7.3	5.0			10.4		132	6	114		3	1.385	7.65	42	8.3	2.81	2.43	280	240								0.62	2.70	4		
28	3.47			6.4	6.7	8.0			10.4		53	7	107		3	1.387	6.405	38	7.5	2.68	2.26	260	250								0.75	2.20	4		
29	3.30			7.0	7.2	0.5			9.9		26	8	46		3	1.372	6.065	38	7.6	2.73	2.32	250	210								0.73	1.70	4		
30	3.15			6.5	6.8	0.1			10.1		122	7	143		3	1.369	5.68	42	7.7	3.25	2.72	270	230								0.63	1.80	4		
31	3.01	3	3	7.1	7.5	17.0			10.3		244	6	136		2	1.373	6.7	40	7.8	3.06	2.49	240	210								0.71	2.30	4		
Tot.	104.40	15	15													43.4																			
Avg.	3.37	3	3	6.7	6.8	10.6			10.0		122	8	122		3	1.4	5.886	34.58	5.648	2.745	2.261	262.6	211.3								0.67	2.31	4		

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT
32075
FLQW

20205
CBQD

16352
TSS

Mike Stephenson
OPERATOR

9616
CERT. NO.

TOTAL NUMBER OF SEWER CONNECTIONS

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 3, 2011

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 WTP – 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 Wastewater Treatment Plant (WTP). The bypass started at 07:38 AM on January 01, 2011 and stopped at 06:34 PM on January 01, 2011.

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 WTP.

<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 01 2011	07:38 AM	06:34 PM	7.09 MG	11.74 MGD	0.84 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.

Sincerely,

Duane V. Wright
Process Supervisor-Operations

cc: Gary Levy, KDEP
Paula Purifoy, MSD
eB File





Metropolitan Sewer District

Report Selections: Excluding PPI, CSO, 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
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Facility Type SPL Sewer Treatment Plant	Facility ID MSD0255	Facility Address 10725 OLD TAYLORSVILLE RD	If Pump Station, Name of Pump Station:	Receiving Stream CHENOWETH RUN	Discharge to STREAM
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Activity Code / Description	WO #	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV: RAIN EVENT DISCHARGE	1185849	01/01/11 07:38 AM	ELDER	WRIGHT	DOCUMENTED	01/14/07	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHARGE - WATERS	01/01/11 06:34 PM	

Spot Inspections:

Peak Plant Flow when Blending:	11,740,000 GPD
Total Plant Flow when Blending:	7,094,000 GAL
Discharge Amount:	839,840 GAL
Cause:	LACK OF SYSTEM CAPACITY - HEAVY RAIN IN AREA
Clean Up:	NO CLEAN UP PERFORMED - PIPES DISCHARGE UNDERWATER, DIRECTLY INTO STREAM
Control Zone:	PERMANENT SIGNS, - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Impact:	NO IMPACT OBSERVED - FACILITY DISCHARGE UNDER ELEVATED CREEK LEVEL
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION

Notifications:

01/01/11 09:48 AM	DISPUB	Project Win http://www.msdlouky.org/projectwin/ PERMANENT SIGNS PPOSTED IN AREA
01/01/11 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
01/01/11 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



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

Total Facilities Printed: 1

Total Work Orders Printed: 1