



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)

February 23, 2010

Carolena Bentley, DMR Coordinator  
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  
January 2010

Dear Ms. Bentley:

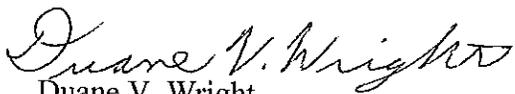
Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Jeffersontown WQTC KPDES No.: KY0025194 for the month of January 2010.

Also included are copies of the discharge report and plant bypass (blending) letters for the month of January.

There were no exceedences to report.

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 01.10.doc

Enclosures

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



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

Facility Name/Location if different)

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	YEAR	MO	DAY
10	01	01	10	01	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	*****	*****	***	9	*****	*****	(19) MG/L	0	01/01	GR
00300 1 0 0	PERMIT MEASUREMENT	*****	*****	***	7 INST MIN	*****	*****	(19) MG/L		THREE/WEEK	GRAB
EFFLUENT GROSS VALUE PH	SAMPLE MEASUREMENT	*****	*****	***	6.6	*****	7.5	(12) SU	0	01/01	GR
00400 1 0 0	PERMIT MEASUREMENT	*****	*****	***	6.0 MINIMUM	*****	9.0 MAXIMUM	(12) SU		THREE/WEEK	GRAB
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	4301	5977	(26) LBS/DY	*****	127	158	(19) MG/L	0	01/01	CP
SOLIDS, TOTAL SUSPENDED	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
00530 G 0 0	SAMPLE MEASUREMENT	433	676	(26) LBS/DY	*****	12	14	(19) MG/L	0	01/01	CP
RAW SEW/INFLUENT	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
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	445	471	(26) LBS/DY	*****	15	21	(19) MG/L	0	01/01	CP
00530 1 0 0	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
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	6	7	(26) LBS/DY	*****	0.2	0.3	(19) MG/L	0	01/01	CP
NITROGEN, AMMONIA TOTAL (AS N)	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
00610 G 0 0	SAMPLE MEASUREMENT	26	36	(26) LBS/DY	*****	0.9	1.1	(19) MG/L	0	01/01	CP
RAW SEW/INFLUENT	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
NITROGEN, AMMONIA TOTAL (AS N)	SAMPLE MEASUREMENT	6	7	(26) LBS/DY	*****	0.2	0.3	(19) MG/L	0	01/01	CP
00610 1 2 0	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
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	26	36	(26) LBS/DY	*****	0.9	1.1	(19) MG/L	0	01/01	CP
PHOSPHORUS, TOTAL (AS P)	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
00665 1 2 1	SAMPLE MEASUREMENT	26	36	(26) LBS/DY	*****	0.9	1.1	(19) MG/L	0	01/01	CP
EFFLUENT GROSS VALUE	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	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			
H J SCHARDEIN EXECUTIVE DIRECTOR							502 540-6000	10	02	25	
TYPED OR PRINTED							AREA CODE NUMBER	YEAR	MO	DAY	

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

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) JEFFE  
 F - FINAL 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
10	01	01		10	01	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			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	3.90	5.87	(03) MGD	*****	*****	*****	***	0	CN	CN
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	REPORT MO AVG	0 MX WK AV	(03) MGD	*****	*****	*****	***		CONTINUOUS	CONTIN
COLIFORM, FECAL GENERAL	SAMPLE MEASUREMENT	*****	*****	***	*****	4	6	(13) 100ML	0	01/01	GR
EFFLUENT GROSS VALUE	PERMIT MEASUREMENT	*****	*****	***	*****	200 30DA GEO	400 7 DA GEO	(13) 100ML		THREE/WEEK	GRAB
BOD, CARBONACEOUS 05 DAY, 20C	SAMPLE MEASUREMENT	3217	3420	(26) LBS/DY	*****	112	148	(19) MG/L	0	01/01	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	SAMPLE MEASUREMENT	120	203	(26) LBS/DY	*****	3	4	(19) MG/L	0	01/01	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	SAMPLE MEASUREMENT	*****	*****	***	97	*****	*****	(23) CENT	0	01/31	CA
PERCENTREMOVAL	PERMIT MEASUREMENT	*****	*****	***	85 MO AVG	*****	*****	(23) CENT		ONCE/MONTH	CALCTD
SOLIDS, SUSPENDED PERCENT REMOVAL	SAMPLE MEASUREMENT	*****	*****	***	91	*****	*****	(23) CENT	0	01/31	CA
PERCENTREMOVAL	PERMIT MEASUREMENT	*****	*****	***	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	10	02	25		
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)  
 USE MO AVG FOR BOD/TSS REMV; REPT IN MINIMUM COLUMN.

NAME OF TREATMENT PLANT JEFFERSONTOWN WTP COUNTY JEFFERSON MONTH OF: January 2010  
 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 (COLOUNES/100ML)		
																								30 MIN.	60 MIN.	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS				% VOLATILE SOLIDS WITHDRAWN GALLONS X 1000	
1	2.84			6.8	7.0	5.0			9.6		80		6	91		2	1.53	7830	34	6.6	2740	2030	500	250							0.59	0.06	3	
2	2.79			6.9	7.0				9.6		151		20	164		6	1.52	5995	32	6.2	2330	2020	400	240							0.88	0.06	3	
3	2.96			6.8	7.0				9.6		60		9	46		2	1.52	6120	32	6.4	2250	2040	420	250							0.66	0.06	3	
4	2.96			6.9	7.2	7.0			10.3		218		9	205		3	1.51	6260	31	7.9	2820	2090	380	240							0.84	0.06	3	
5	2.90			6.9	7.0	20.0			10.3		175		5	175		2	1.52	5235	29	7.7	2690	2010	470	240							0.88	0.90	3	
6	2.83	3	3	6.9	7.2	13.0			10.3		164		9	158		3	1.52	6330	32	6.9	2880	2130	480	240							0.86	0.45	3	
7	2.77			7.0	7.0	16.0			10.0		96		10	165		3	1.51	6165	35	6.2	3010	2280	360	230							1.14	0.34	3	
8	2.72			6.9	6.8	16.0			10.6		179		9	214		2	1.5	5855	41	6.9	3390	2640	260	200							1.13	0.06	3	
9	2.71			7.0	7.1	17.0			10.3		158		13	96		3	1.5	6300	32	6.7	3400	2650	270	200							1.16	0.06	3	
10	2.74			7.0	7.0	19.0			10.2		120		15	141		2	1.5	6165	42	6.9	3540	2300	460	250							1.05	0.39	3	
11	2.75			6.9	7.0	10.0			10.3		203		5	124		3	1.49	5880	33	6.3	3360	2520	420	240							1.11	0.06	3	
12	2.75			7.1	6.8	13.0			10.1		114		16	123		2	1.46	6300	32	6.6	3190	2440	400	220							1.23	0.06	3	
13	2.74	3	3	7.2	6.9	12.0			10.0		153		8	149		2	1.45	5165	31	6.6	3200	2420	370	230							1.05	0.06	3	
14	2.78			7.0	6.9	15.0			10.1		181		9	190		5	1.46	5620	37	6.5	3200	2390	440	240							1.27	0.06	3	
15	2.82			6.7	6.6	12.0			9.8		29		9	42		3	1.45	4935	21	5.9	3300	2520	380	220							1.10	0.06	3	
16	2.83			7.0	7.0	5.0			9.6		29		9	105		3	1.48	6600	28	6.2	3250	2470	240	200							0.96	0.78	140	
17	3.22			7.0	7.0	10.0			9.8		145		13	100		6	1.49	6295	38	5.7	3280	2480	200	180							1.28	0.06	3	
18	3.95			7.0	7.0	8.0			9.6		168		13	56		3	1.49	6780	22	5.8	2530	2320	200	180							0.79	0.06	7	
19	3.43			6.7	6.7	6.0			10.1		24		6	157		2	1.49	6300	24	6.3	3300	2590	200	180							0.72	0.06	3	
20	4.96	3	3	6.7	7.5	10.0			9.8		94		4	98		5	1.49	7475	28	6.1	3380	2600	200	170							0.69	0.06	3	
21	8.33			6.7	7.1	6.0			9.0		381		46	35		6	1.45	7605	35	1.1	2580	1910	180	170							1.31	0.06	3	
22	7.16			6.6	6.7	4.0			9.3		126		28	53		6	1.49	7110	26	2.1	1990	1590	110	100							0.77	0.06	3	
23	5.12			6.7	7.1	3.0			10.1		45		8	27		4	1.5	7175	24	7.4	2860	2250	170	160							0.41	0.06	3	
24	7.65			6.6	6.8	3.0			9.5		55		13	30		5	1.47	6030	31	7.3	3240	2510	180	170							0.52	0.06	3	
25	7.15			6.7	7.1	3.0			10.1		116		8	59		3	1.54	9250	27	6.9	2290	1800	190	150							0.44	0.06	3	
26	5.34			7.1	7.0	2.0			10.4		110		11	148		4	1.54	9170	30	6.4	2560	2040	150	140							0.50	0.06	3	
27	4.56	3	3	6.8	7.0	6.0			10.4		101		5	90		3	1.57	6110	20	6.6	2400	2070	220	160							0.44	0.70	3	
28	4.14			6.8	7.2	5.0			10.1		147		15	120		3	1.58	5985	25	6.7	3100	2970	160	150							0.59	0.06	3	
29	3.80			6.8	7.1	8.0			9.7		107		10	128		4	1.57	5720	29	6.7	3030	1370	150	145							0.58	0.30	3	
30	3.67			6.8	7.2	8.0			9.8		120		6	85		3	1.55	6165	23	6.2	3080	2290	150	140							0.51	0.50	3	
31	3.54			6.9	7.3	6.0			9.6		95		11	86		2	1.55	6680	23	6.6	3160	2480	150	150							0.75	0.50	7	
Tot.	120.91	12	12														46.69															0.85	0.20	4
Avg.	3.90	3	3	6.9	7.0	9.2			9.9		127		12	112		31	1.506	6471	29.9	6.271	2946	2263	285.8	194.7										

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

RESIDENTIAL  
COMMERCIAL  
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT  
37146  
FLOW

21357  
CBOD

19707  
TSS

Mike Stephenson  
OPERATOR

9616  
CERT. NO.

(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 24, 2010

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 01:19 PM on January 21, 2010 and stopped at 02:38 AM on January 22, 2010.

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 21 2010	01:19 PM	11:59 PM	7.17 MG	14.28 MGD	1.85 MG
January 22 2010	12:00 AM	02:38 AM	6.43 MG	10.88 MGD	0.36 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: Gary Levy, KDEP  
 Paula Purifoy, MSD  
 eB File





Report Selections: Excluding PPI, CSO, Prob Code: BLEND

**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	1003387	01/21/10 01:19 PM	ELDER	WRIGHT	DOCUMENTED	01/14/07	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHARGE - WATERS	01/22/10 02:38 AM	

**Spot Inspections:**

Peak Plant Flow when Blending:	14,280,000 GPD
Total Plant Flow when Blending:	13,600,000 GAL
Discharge Amount:	2,208,502 GAL
Cause:	LACK OF SYSTEM CAPACITY - HEAVY RAIN IN AREA
Clean Up:	CLEANUP NOT POSSIBLE DUE TO ELEVATED CREEK LEVEL
Control Zone:	NO CONTROL ZONE WAS SET UP - 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:**

01/21/10 01:46 PM	DISPUB	Notification by <a href="http://www.msdlouky.org/projectwin/">http://www.msdlouky.org/projectwin/</a> Also, PERMANENT SIGNS POSTED IN AREA
01/21/10 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
01/21/10 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



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

January 26, 2010

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 10:38 AM on January 24, 2010 and stopped at 04:52 AM on January 25, 2010.

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 24 2010	10:38 AM	11:59 PM	6.63 MG	10.76 MGD	0.71 MG
January 25 2010	12:00 AM	04:52 AM	6.34 MG	9.11 MGD	0.14 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: Gary Levy, KDEP  
 Paula Purifoy, MSD  
 eB File





Report Selections: Excluding PPI, CSO, Prob Code: BLEND

**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	1004033	01/24/10 10:38 AM	ELDER	WRIGHT	DOCUMENTED	01/14/07	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHARGE - WATERS	01/25/10 04:52 AM	

**Spot Inspections:**

Peal Plant Flow when Blending:	10,760,000 GPD
Total Plant Flow when Blending:	12,970,000 GAL
Discharge Amount:	855,454 GAL
Cause:	LACK OF SYSTEM CAPACITY - HEAVY RAIN IN AREA
Clean Up:	CLEANUP NOT POSSIBLE DUE TO ELEVATED CREEK LEVEL
Control Zone:	NO CONTROL ZONE WAS SET UP - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Impact:	NONE OBSERVED - OUTLETS SUBMERGED
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION

**Notifications:**

01/24/10 10:54 AM	DISPUB	Notification by <a href="http://www.msdlouky.org/projectwin/">http://www.msdlouky.org/projectwin/</a> Also, PERMANENT SIGNS POSTED IN AREA
01/24/10 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
01/24/10 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

Total Facilities Printed: 1  
 Total Work Orders Printed: 2



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

February 2, 2010

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 January 31, 2010, referencing Work Order 1008290 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: Due to an electrical failure of of the secondary influent pump station control system (PLC) and the backup control system, approximately 2,082 gallons of wastewater bypassed the plant secondary treatment system. However, all of the flow did receive full U.V. treatment.
- Period of noncompliance: Starting 07:27 AM on January 31, 2010 and stopping 07:30 AM on January 31, 2010.
- Steps taken or planned to reduce, eliminate and prevent recurrence: The secondary influent pump station backup control system has been repaired and will now work independently of the PLC .
- Additional comments: There are no additional comments

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





Report Selections: Excluding PPI, CSO, Prob Code: BYPAS

**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	1008290	01/31/10 07:27 AM	ELDER	RHEINLAENDE R JR	DOCUMENTED	01/14/07	BYPASS AT WQTC	UNAUTHORIZED DISCHAGE - WATERS	01/31/10 07:30 AM	

**Spot Inspections:**

Discharge Amount:	2,082 GAL
Cause:	BYPASS EVENT, BLENDING OCCURED DUE TO UPS CONTROLS FAILURE. 01/31/2010, 07:
Clean Up:	CLEANUP NOT POSSIBLE DUE TO ELEVATED CREEK LEVEL
Control Zone:	PERMANENT SIGN IN PLACE - NO ADDITIONAL CONTROL ZONE SET UP
Impact:	NONE OBSERVED - OUTLETS SUBMERGED
Repair:	PUT PUMPS IN HAND OPERATION, & RESET UPS CONTROLS, RESUMED NORMAL OPERATION

**Notifications:**

01/31/10 11:17 AM	DISPUB	PERMANANT SIGNS POSTED IN AREA <a href="http://www.msclouky.org/projectwin/">http://www.msclouky.org/projectwin/</a>
01/31/10 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
01/31/10 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

Total Facilities Printed: 1  
 Total Work Orders Printed: 1