



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

March 20, 2011

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

**Re: MSD Metro Operations  
Berrytown WQTC; KPDES No.: KY0036501  
Discharge Monitoring Reports – February 2011**

Dear Ms. Thompson:

Attached are the Discharge Monitoring Reports (DMRs) and the Monthly Operating Report (MOR) for the Berrytown WQTC, KPDES No.: KY0036501 for the month of February 2011.

Also attached are bypass and overflow reports.

There were no exceedences.

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

Sincerely,

Duane V. Wright  
Process Supervisor Central Region

DVW/Berrytown 2.11

Enclosures

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



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

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

MINOR  
(SUBR LV)  
F - FINAL  
SANITARY WASTEWATER  
EFFLUENT

JEFF

\*\*\* NO DISCHARGE [ ] \*\*\*

NOTE: Read Instructions before completing this form.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME BERRYTOWN WQTC MSD  
ADDRESS C/O CEDAR CREEK WQTC  
8405 CEDAR CREEK RD  
LOUISVILLE KY 40211  
FACILITY BERRYTOWN WQTC MSD  
LOCATION LOUISVILLE KY 40222  
ATTN: DENNIS THOMASSON, SR METRO OPS

KY0036501  
PERMIT NUMBER

001 2  
DISCHARGE NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
11	06	01		11	06	20

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
OXYGEN, DISSOLVED (DD) 30000 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	8	*****	*****	( 19 )	0	0/07	GR
PERMIT REQUIREMENT	*****	*****	*****	*****	7	*****	*****	MG/L		WEEKLY	GRAD
PH 30040 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	7.2	*****	7.3	( 12 )	0	0/07	GR
PERMIT REQUIREMENT	*****	*****	*****	*****	6.0	*****	9.0	MINIMUM MAXIMUM	50	WEEKLY	GRAD
SOLIDS, TOTAL SUSPENDED 30050 1 0 0 EFFLUENT GROSS VALUE	*****	3.1	8.8	( 26 )	*****	5	12	( 19 )	0	0/07	CP
PERMIT REQUIREMENT	*****	18.8	37.6	30DA AVG	*****	30	60	30DA AVG	30	WEEKLY	CONFLU
NITROGEN, AMMONIA TOTAL (AS N) 30060 1 2 0 EFFLUENT GROSS VALUE	*****	0.14	0.2	( 26 )	*****	0.3	0.3	( 19 )	0	0/07	CP
PERMIT REQUIREMENT	*****	8.26	12.5	30DA AVG	*****	10	20	30DA AVG	20	WEEKLY	CONFLU
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 30080 1 0 0 EFFLUENT GROSS VALUE	*****	0.097	0.304	( 03 )	*****	*****	*****	*****	0	cn	cn
PERMIT REQUIREMENT	*****	REPORT	REPORT	30DA AVG	*****	*****	*****	*****	*****	WEEKLY	CONFLU
CHLORINE, TOTAL RESIDUAL 30060 1 0 1 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	<0.010	<0.010	( 19 )	0	0/07	GR
PERMIT REQUIREMENT	*****	*****	*****	*****	*****	0.011	0.017	MG/L		WEEKLY	GRAD
COLIFORM, FECAL GENERAL 74055 1 0 0 EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	2	8	( 13 )	0	0/07	GR
PERMIT REQUIREMENT	*****	*****	*****	*****	*****	200	400	30DA GED	100ML	WEEKLY	GRAD

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
H.J. SCHARDEIN, JR.  
EXECUTIVE DIRECTOR  
TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

*Dwayne V. Wright*  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE 502-540-6000  
DATE 11 3 77  
AREA CODE NUMBER YEAR MO DAY

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

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME BERRYTOWN WQTC MSD  
 ADDRESS C/O CEDAR CREEK WQTC  
 3405 CEDAR CREEK RD  
 LOUISVILLE KY 40211  
 FACILITY BERRYTOWN WQTC MSD  
 LOCATION LOUISVILLE KY 40222  
 ATTN: DENNIS THOMASSON, SR METRO OPS

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
 DISCHARGE MONITORING REPORT (DMR)

KY0036501		001 2			
PERMIT NUMBER		DISCHARGE NUMBER			
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
11	02	01	11	02	27

MINOR (SUBR LV)  
 F - FINAL JEFFE  
 SANITARY WASTEWATER  
 EFFLUENT  
 \*\*\* NO DISCHARGE ( ) \*\*\*

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			
5 DAY, 50C EFFLUENT GROSS VALUE		2.5	3.3	( 26 )	*****	5	6	( 19 )		0 %	CP
		15.8	37.8		*****	30	60			NEARLY	UNUSU
		30DA AVG	DAILY MX	LBS/DV		30DA AVG	DAILY MX	MG/L			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
 H.J. SCHARDEIN, JR.  
 EXECUTIVE DIRECTOR  
 TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

*Dianne V. Wright*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE 502 540 6000  
 DATE 11 3 22  
 AREA CODE NUMBER YEAR MO DAY

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

Berrytown	Report for	Feb-11				Tot. Exc.=	0			
Tot. Flow=	2.727	Concentrations				Pounds				
Date	Flow	TSS	BOD	NH3	Fecal	TSS	BOD	NH3	Tot. Phos.	
2/1/11	0.079	3	5	0.22		1.977	3.294	0.145	1.46	
2/2/11	0.213				8					
2/3/11	0.121									
2/4/11	0.09									
2/5/11	0.099									
2/6/11	0.095									
2/7/11	0.095									
2/8/11	0.088	12	4	0.28	1	8.807	2.936	0.205	0.765	
2/9/11	0.105									
2/10/11	0.077									
2/11/11	0.063									
2/12/11	0.064									
2/13/11	0.059									
2/14/11	0.054									
2/15/11	0.049	2	3	0.28	2	0.817	1.226	0.114	1.34	
2/16/11	0.044									
2/17/11	0.052									
2/18/11	0.043									
2/19/11	0.044									
2/20/11	0.048									
2/21/11	0.051									
2/22/11	0.053	2	6	0.22	1	0.884	2.652	0.097	2.2	
2/23/11	0.049									
2/24/11	0.085									
2/25/11	0.304									
2/26/11	0.257									
2/27/11	0.188									
2/28/11	0.158									
3/1/11										
3/2/11										
3/3/11										
Average	0.097	4.75	4.50	0.25	2.00	3.12	2.53	0.14	1.44	
Maximum	0.304	12.00	6.00	0.28	8.00	8.81	3.29	0.21	2.20	



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February 4, 2011

Mr. Charlie Roth, District Supervisor  
KY Division of Water  
Louisville Regional Office  
9116 Leesgate Road  
Louisville, KY 40222-5084

**Re: Bypass Report for the: Berrytown WQTC- KPDES Permit: KY0036501**

Dear Mr. Roth:

This plant experienced a bypass event and has been reported through our electronic notification system at approximately 01:00 PM on February 02, 2011, referencing Work Order 1196294 as a Rain event 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: On February 2, 2011, due to increased plant flow caused by storm event, the plant digester overflowed, resulting in a wet weather bypass to waters of U.S. Plant aeration was shut off prior to bypass, but digester aeration was not shut off. Approximately 30 gallons overflowed. The design flow to this plant is 0.075 MGD. The peak plant flow during this bypass was 0.207 MGD. The average flow during this event was 0.206,784 MGD. Total flow for the day was 0.213 MGD.
- Period of noncompliance: Starting 01:13 AM on February 02, 2011 and stopping 01:15 AM on February 02, 2011.
- Steps taken or planned to reduce, eliminate and prevent recurrence: All blowers will be shut off during rain events which cause elevated plant flows.
- Additional comments: 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](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: BYPAS, Result: WUS, Act Code: DISDW, DISREV

KPDES # KY0036501	Facility ID MSD0209	Water Quality Treatment Center BERRYTOWN	Receiving Stream of Treatment Center FLOYDS FORK	Region CENT
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Facility Type SPL Sewer Treatment Plant	Facility ID MSD0209	Facility Address 1203 HEAFER RD	If Pump Station, Name of Pump Station:	Receiving Stream FLOYDS FORK	Discharge to STREAM
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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	1196294	02/02/11 01:13 AM	ELDER	COOMER	DOCUMENTED	02/02/11	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE - WATERS	02/02/11 01:15 AM	

**Spot Inspections:**

Discharge Amount	30 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN AREA
Clean Up:	NO DEBRIS
Control Zone:	TEMPORARY SIGNS PLACED AROUNDS AFFECTED AREA
Impact:	SEWAGE ON THE GROUND WASHED AWAY BY RAIN
Repair:	TURNED BLOWERS OFF TO SETTLE TANK & STOP OVERFLOW

**Notifications:**

	DISPUB	Temporary signs around affected area Supervisor notified employees of hazzard
02/02/11 12:58 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



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

February 28, 2011

Mr. Charlie Roth, District Supervisor  
KY Division of Water  
Louisville Regional Office  
9116 Leesgate Road  
Louisville, KY 40222-5084

**Re: Bypass Report for the Berrytown WQTC – KPDES Permit KY0036501**

Dear Mr. Roth:

This plant experienced a bypass event and has been reported through our electronic notification system at approximately 01:00 PM on February 25, 2011, referencing Work Order 1213792 as a Rain event 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: On February 25, 2011, due to increased plant flow caused by a rain event, the plant overflowed, resulting in a wet weather bypass to waters of the U.S. Plant Aeration was shut off prior to bypass. Approximately 18,000 gallons overflowed. The design flow to this plant is 0.075 MGD. The peak plant flow during this bypass was 0.360 MGD. The total flow during this event was 0.089 MGD. The total flow for the day was 0.305 MGD
- Period of noncompliance: Starting 10:30 AM on February 25, 2011 and stopping 04:19 PM on February 25, 2011.
- Steps taken or planned to reduce, eliminate and prevent recurrence: MSD will haul plant if resources are available.

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, Wes Sydnor, Kevin Ries, Robert Bates - MSD  
eB File





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

Activity Code / Description	WO #	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV: RAIN EVENT DISCHARGE	1213792	02/25/11 10:30 AM	SINGLETON	WRIGHT	DOCUMENTED	02/02/11	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE - WATERS	02/25/11 04:19 PM	

KPDES # KY0036501 (Cont'd) Facility ID MSD0209 Water Quality Treatment Center BERRYTOWN Receiving Stream of Treatment Center FLOYDS FORK Region CENT

**Spot Inspections:**

Discharge Amount:	18,000 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED, SANITIZED & LIMED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED AROUND THE AREA
Impact:	SEWAGE, DEBRIS & PERSONAL HYGIENE PRODUCTS OBSERVED ON THE GROUND
Repair:	HAULING UNTIL STATION REPAIRED. WORK ORDER #1214472

**Notifications:**

02/25/11 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
02/25/11 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
02/25/11 10:30 AM	DISPUB	TEMPORARY SIGNS POSTED



March 3, 2011

Mr. Charlie Roth, District Supervisor  
KY Division of Water  
Louisville Regional Office  
9116 Leesgate Road  
Louisville, KY 40222-5084

**Re: Bypass Report for the Berrytown WQTC – KPDES Permit KY0036501**

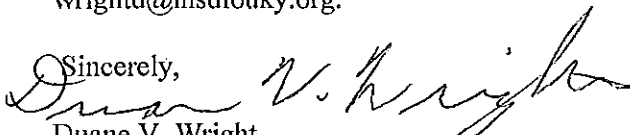
Dear Mr. Roth:

This plant experienced a bypass event and has been reported through our electronic notification system at approximately 01:00 PM on February 28, 2011, referencing Work Order 1215307 as a Rain event 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: On February 28, 2011, due to increased plant flow caused by a rain event, the plant overflowed, resulting in a wet weather bypass to waters of the U.S. Plant Aeration was shut off prior to bypass. Approximately 10,875 gallons overflowed. The design flow to this plant is 0.075 MGD. The peak plant flow during this bypass was 0.894 MGD. The total flow during this event was 0.002MGD. The total flow for the day was 0.159 MGD
- Period of noncompliance: Starting 12:00 PM on February 28, 2011 and stopping 02:25 PM on February 28, 2011.
- Steps taken or planned to reduce, eliminate and prevent recurrence: MSD will haul water from plant if resources are available.

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, Wes Sydnor, Kevin Ries, Robert Bates - MSD  
eB File





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

Activity Code / Description	WO #	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV: RAIN EVENT DISCHARGE	1215307	02/28/11 12:00 PM	SINGLETON	WRIGHT	DOCUMENTED	02/02/11	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE - WATERS	02/28/11 02:25 PM	

KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0036501 (Cont'd)	MSD0209	BERRYTOWN	FLOYDS FORK	CENT

**Spot Inspections:**

Discharge Amount:	10,875 GAL
Cause:	AERATION TANK LEAKING DURING RAIN EVENT
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS PLACED AROUND EFFECTED AREA
Impact:	SEWAGE OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR

**Notifications:**

02/28/11 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
02/28/11 12:00 AM	DISPUB	TEMPORARY SIGNS PLACED AROUND THE EFFECTED AREA
02/28/11 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