



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

August 11, 2015

Ms. Cheryl Edwards
Kentucky Division of Water
200 Fair Oaks Lane
Frankfort, Kentucky 40601

Re: MSD Metro Operations
Berrytown WQTC; KPDES No.: KY0036501
Discharge Monitoring Reports – July 2015

Dear Ms. Edwards:

Attached are the Discharge Monitoring Reports (DMRs) and the Monthly Operating Report (MOR) for the Berrytown WQTC, KPDES No.: KY0036501 for the month of July 2015.

Also attached are bypass letters and overflow reports.

There were no exceedences.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Staci Huber". The signature is fluid and cursive, with the first name being more prominent.

Staci Huber
Process Supervisor Central Region

SMH/Berrytown 07.15

Enclosures

cc: T. Singleton
R. Shaw



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

DMR Copy of Record

Permit			
Permit #:	KY0036501	Permittee:	BERRYTOWN WQTC MSD
Major:	No	Permittee Address:	1203 HEAFER RD LOUISVILLE, KY 40222
Permitted Feature:	001 External Outfall	Discharge:	001-1 SANITARY WASTEWATER
Facility:		Facility Location:	BERRYTOWN WQTC MSD 1203 HEAFER RD LOUISVILLE, KY 40222

Report Dates & Status			
Monitoring Period:	From 07/01/15 to 07/31/15	DMR Due Date:	08/28/15
Status:	NetDMR Validated		

Considerations for Form Completion
 TOTAL NITROGEN IS THE SUMMATION OF THE ANALYTICAL RESULTS FOR TOTAL NITRATES, TOTAL NITRITES, AND TOTAL KJELDAHL NITROGEN

Principal Executive Officer			
First Name:	Greg	Title:	Executive Director
Last Name:	Heitzman	Telephone:	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	=	7				=	7				19 - mg/L	0	01/01 - Daily	GR - GRAB
					Permit Req.	>=	7 INST MIN								19 - mg/L	0	01/07 - Weekly	GR - GRAB	
					Value NODI														
00400	pH	1 - Effluent Gross	0	--	Sample	=	7				=	8			12 - SU	0	01/01 - Daily	GR - GRAB	
					Permit Req.	>=	6 MINIMUM				<=	9 MAXIMUM			12 - SU	0	01/07 - Weekly	GR - GRAB	
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	3.3	=	5.6	26 - lb/d	=	3	=	4	19 - mg/L	0	01/07 - Weekly	CP - COMPOS	
					Permit Req.	<=	18.8 MO AVG	<=	28.2 WKLY AVG	26 - lb/d	<=	30 MO AVG	<=	45 WKLY AVG	19 - mg/L	0	01/07 - Weekly	24 - COMP24	
					Value NODI														
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample	=					=	11	=	14	19 - mg/L	0	01/07 - Weekly	CP - COMPOS	
					Permit Req.							Req Mon MO AVG		Req Mon WKLY AVG	19 - mg/L	0	01/07 - Weekly	24 - COMP24	
					Value NODI														
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	1	--	Sample	=	0.5	=	0.6	26 - lb/d	=	0.5	=	0.6	19 - mg/L	0	01/07 - Weekly	CP - COMPOS	
					Permit Req.	<=	2.5 MO AVG	<=	3.8 WKLY AVG	26 - lb/d	<=	4 MO AVG	<=	6 WKLY AVG	19 - mg/L	0	01/07 - Weekly	24 - COMP24	
					Value NODI														
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample	=					=	1.1	=	1.6	19 - mg/L	0	01/07 - Weekly	CP - COMPOS	
					Permit Req.							Req Mon MO AVG		Req Mon WKLY AVG	19 - mg/L	0	01/07 - Weekly	24 - COMP24	
					Value NODI														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	0.135	=	0.216	03 - MGD						0	99/99 - Continuous	CN - CONTIN	
					Permit Req.		Req Mon MO AVG		Req Mon WKLY AVG	03 - MGD						0	99/99 - Continuous	IN - INSTAN	
					Value NODI														
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample						<	0.01	<	0.01	19 - mg/L	0	01/01 - Daily	GR - GRAB	
					Permit Req.						<=	.011 MO AVG	<=	.019 WKLY AVG	19 - mg/L	0	01/07 - Weekly	GR - GRAB	
					Value NODI														
51040	E. coli	1 - Effluent Gross	0	--	Sample						<=	7	<=	13	13 - #/100mL	0	06/30 - Six Per Month	GR - GRAB	
					Permit Req.						<=	130 30DA GEO	<=	240 7 DA GEO	13 - #/100mL	0	01/07 - Weekly	GR - GRAB	
					Value NODI														
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	2.5	=	3.7	26 - lb/d	=	3	=	3	19 - mg/L	0	01/07 - Weekly	CP - COMPOS	
					Permit Req.	<=	15.7 MO AVG	<=	23.5 WKLY AVG	26 - lb/d	<=	25 MO AVG	<=	37.5 WKLY AVG	19 - mg/L	0	01/07 - Weekly	24 - COMP24	
					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
BerrytownBypassLetter071215.pdf	pdf	65567
BerrytownBypassLetter071415.pdf	pdf	59540
201507_berrytown_mor.pdf	pdf	33828
2015_07_Berrytown_coverletter.pdf	pdf	46109
2015_7_Berrytown_OverflowReport.pdf	pdf	77074

Report Last Saved By

BERRYTOWN WQTC MSD

User: staci.huber@louisvillemmsd.org

Date/Time:

2015-08-21 15:08 (Time Zone: -04:00)

Name: Staci Huber

E-Mail: staci.huber@louisvillemmsd.org

Berrytown		Report for		Jul-15		Tot. Exc.=		0					
Tot. Flow= 4.179804				Concentrations				Pounds					
Date	Flow	TSS	BOD	NH3	Ecoli	TSS	BOD	NH3	Tot. Phos.	D.O.	p.H.	TRC	Tot. N
7/1/15	0.069	4	3	0.56		2.287	1.715	0.320	1.63	7.6	7.4	0.01	13.56
7/2/15	0.089				1011					7.9	7.5	0.01	
7/3/15	0.160									7.9	7.4	0.01	
7/4/15	0.162									7.7	7.4	0.01	
7/5/15	0.117									7.4	7.8	0.01	
7/6/15	0.111				1					7.5	7.3	0.01	
7/7/15	0.111				1					8	7.5	0.01	
7/8/15	0.120	3	2	0.5		2.999	2.000	0.500	1.53	7.6	7.3	0.01	11.66
7/9/15	0.185				13					7.4	7.7	0.01	
7/10/15	0.191									7.3	7.7	0.01	
7/11/15	0.245									7.5	7.6	0.01	
7/12/15	0.053									7.9	7.3	0.01	
7/13/15	0.237									8.2	7.7	0.01	
7/14/15	0.060									8.2	7.9	0.01	
7/15/15	0.333									7.8	7.6	0.01	
7/16/15	0.223	3	2	0.31		5.567	3.712	0.575	0.135	7.6	7.5	0.01	7.72
7/17/15	0.166				11					7.5	7.1	0.01	
7/18/15	0.319									8.1	7.2	0.01	
7/19/15	0.208									7.7	7.4	0.01	
7/20/15	0.143									7.3	7.7	0.01	
7/21/15	0.118									7.3	7.6	0.01	
7/22/15	0.100	3	3	0.62		2.496	2.496	0.516	0.951	7.2	7.6	0.01	9.59
7/23/15	0.089				1					7.2	7.9	0.01	
7/24/15	0.081									7.3	7.5	0.01	
7/25/15	0.074									7.4	7.7	0.01	
7/26/15	0.073									7.4	7.4	0.01	
7/27/15	0.064									7.3	7.6	0.01	
7/28/15	0.071									7.6	7.5	0.01	
7/29/15	0.072									7.2	7.3	0.01	
7/30/15	0.070									7.5	7.4	0.01	
7/31/15	0.067									7.2	6.9	0.01	
Average	0.135	3	3	0.5	7.24	3	2.481	0.48	1.1	7.57	7	0.01	10.63
Maximum	0.333	4	3	0.6	1011.00	6	3.712	0.6	1.6	8.20	8	0.01	13.56
Exceed.	21	0	0	0	0	0	0	0					



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July 13, 2015

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 AM on July 13, 2015, referencing Work Order 2387497 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 July 12, 2015, Berrytown WQTC bypassed disinfection and dechlorination treatment. Because of elevated levels in the aeration tank, approximately 38,000 gallons was bypassed. As a precaution we turned off plant aeration to minimize the loss of biosolids. The design flow at Berrytown WQTC is 0.075 MG. We are unable to determine the exact flow rate at the time of bypass because the plant flow meter was maxed at a rate of 0.430 MGD.
- Period of noncompliance: Starting 01:00 PM on July 12, 2015 and stopping 01:40 AM on July 13, 2015.
- Steps taken or planned to reduce, eliminate and prevent recurrence: If operational needs for resources allow, in the event of heavy rain, MSD will haul water from the plant.
- Additional comments: Plant is to be eliminated in 2015. Disinfected and cleaned by MSD staff.

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)-475-2224 or via email at kevin.thompson@louisvillemsd.org.

Sincerely,


Kevin Thompson
Process Supervisor-Operations

cc: Courtney Seitz, KDEP
Paula Purifoy, MSD
eB File





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July 15, 2015

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 AM on July 15, 2015, referencing Work Order 2389577 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 July 14, 2015, Berrytown WQTC bypassed disinfection and dechlorination treatment. Because of elevated levels in the aeration tank, approximately 1,425 gallons was bypassed. As a precaution MSD staff turned off plant aeration to minimize the loss of biosolids. The design flow at Berrytown WQTC is 0.075 MG. It is not possible to determine the exact flow rate at the time of bypass because the plant flow meter was maxed at a rate of 0.430 MGD.
- Period of noncompliance: Starting 01:30 PM on July 14, 2015 and stopping 05:45 PM on July 14, 2015.
- Steps taken or planned to reduce, eliminate and prevent recurrence: If operational needs for resources allow, in the event of heavy rain, MSD will haul water from the plant.
- Additional comments: Plant is to be eliminated in 2015. Disinfected and cleaned by MSD staff.

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)-475-2224 or via email at kevin.thompson@louisvillemsd.org.

Sincerely,

Kevin Thompson
Process Supervisor-Operations

cc: Courtney Seitz, KDEP
Paula Purifoy, MSD
eB File





Report Selections: Period: 07/01/2015 00:00 thru 07/31/2015 23:59, treatment Plant: MSD0209 BERRYTOWN, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0036501	MSD0209	BERRYTOWN	FLOYDS FORK	CENT

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	24012	1203 HEAFER RD		FLOYDS FORK	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	2388697		07/14/2015	SINGLETON	OPS BSHIFT CENTRAL	BEYOND APPROVED DESIGN STORM	04/12/2011	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHAGE - WATERS	07/15/15 08:00 AM	

Discharge Reporting:

Discharge Amount:	39,250 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS
Impact:	SEWAGE OBSERVED
Repair:	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE IOAP
Public Notification:	TEMPORARY SIGNS PLACED AROUND THE AFFECTED AREA

Notifications:

7/14/15 1:00 am	DISSNO	SUPPLEMENTAL EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE HAS BEEN SENT TO 'DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV'
7/14/15 1:00 am	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO 'DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV'



Report Selections: Period: 07/01/2015 00:00 thru 07/31/2015 23:59, treatment Plant: MSD0209 BERRYTOWN, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0036501	MSD0209	BERRYTOWN	FLOYDS FORK	CENT

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SPL Sewer Treatment Plant	MSD0209	1203 HEAFER RD		FLOYDS FORK	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	2387497		07/12/2015	MARKS JR	OPS BSHIFT CENTRAL	DOCUMENTED	02/02/2011	BYPASS AT WQTC	UNAUTHORIZED DISCHAGE - WATERS	07/13/15 01:40 AM	

Discharge Reporting:

Discharge Amount:	38,000 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT
Clean Up:	MSD CLEANED & SANITIZED
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SOLIDS OBSERVED
Repair:	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE IOAP
Public Notification:	TEMPORARY SIGNS POSTED AT THIS LOCATION

Notifications:

7/12/15 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO 'DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV'
7/12/15 1:00 pm	DISSNO	SUPPLEMENTAL EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE HAS BEEN SENT TO 'DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV'

Report Selections: Period: 07/01/2015 00:00 thru 07/31/2015 23:59, treatment Plant: MSD0209 BERRYTOWN, Excluding PPI Excluding CSO Excluding LAT, Result: WUS, Act Code: DISDW, DISREV

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

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREVRAIN EVENT DISCHARGE	2389577		7/14/2015 1:30:00PM	OPS BSHIFT CENTRAL	SINGLETON	DOCUMENTED	02/02/2011	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE - WATERS	07/14/15 05:45 PM	

Discharge Reporting:

Discharge Amount:	1,425 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS
Impact:	SEWAGE OBSERVED
Repair:	A SOLUTION FOR THIS LOCATION IS LOCATED IN THE IOAP
Public Notification:	TEMPORARY SIGNS PLACED AROUND THE AFFECTED AREA

Notifications:

7/14/15 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO 'DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV'
7/14/15 1:00 pm	DISSNO	SUPPLEMENTAL EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE HAS BEEN SENT TO 'DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV'

Total Facilities Printed: 2

Total Work Orders Printed: 3