



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

January 12, 2016

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

Re: MSD Metro Operations
McNeely Lake WQTC; KPDES No.: KY0029416
Discharge Monitoring Reports –December 2015.

Dear Ms. Cheryl Edwards:

Attached are the Discharge Monitoring Reports (DMRs) and the Monthly Operating Report (MOR) for the McNeely Lake WQTC, KPDES No.: KY0029416 for the month of december 2015.

There were no exceedances for this month.

Bypass letter and overflow report attached.

If you have any questions concerning the attached DMRs, please contact me at (502) 715-2789.

Sincerely,

A handwritten signature in black ink, appearing to read "Staci Huber".

Staci Huber
Process Supervisor

SMH/McNeely Lake 12/15

Enclosures

cc: T. Singleton
R. Shaw



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

DMR Copy of Record

Permit

Permit #:	KY0029416	Permittee:	MCNEELY LAKE WQTC MSD	Facility:	MCNEELY LAKE WQTC MSD
Major:	No	Permittee Address:	10300 ROD N REEL RD LOUISVILLE, KY 40229	Facility Location:	10300 ROD N REEL RD LOUISVILLE, KY 40229
Permitted Feature:	001 External Outfall	Discharge:	001-1 SANITARY WASTEWATER		

Report Dates & Status

Monitoring Period:	From 12/01/15 to 12/31/15	DMR Due Date:	01/28/16	Status:	NetDMR Validated
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Considerations for Form Completion

Principal Executive Officer

First Name:	Tony	Title:	Executive Director	Telephone:	502-540-6000
Last Name:	Parrott				

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 MINIMUM								19 - mg/L	0	01/07 - Weekly	GR - GRAB	
					Value NODI														
00400	pH	1 - Effluent Gross	0	--	Sample	=	6				=	7			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	=	10	=	30.7	26 - lb/d	=	13	=	42	19 - mg/L	0	01/07 - Weekly	CP - COMPOS	
					Permit Req.	<=	51.3 MO AVG	<=	76.9 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	=					=	22	=	31	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	2	--	Sample	=	0.27	=	0.4	26 - lb/d	=	0.3	=	1	19 - mg/L	0	01/07 - Weekly	CP - COMPOS	
					Permit Req.	<=	17.1 MO AVG	<=	25.6 WKLY AVG	26 - lb/d	<=	10 MO AVG	<=	15 WKLY AVG	19 - mg/L	0	01/07 - Weekly	24 - COMP24	
					Value NODI														
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample	=					=	3.1	=	4.4	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	=	0.14	=	0.228	03 - MGD						0	99/99 - Continuous	CN - CONTIN	
					Permit Req.		Req Mon MO AVG		Req Mon WKLY AVG	03 - MGD						0	99/99 - Continuous	RC - Recorder (auto)	
					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						=	17	=	70	3Z - CFU/100mL	0	01/07 - Weekly	GR - GRAB	
					Permit Req.						<=	130 30DA GEO	<=	240 7 DA GEO	3Z - CFU/100mL	0	01/07 - Weekly	GR - GRAB	
					Value NODI														
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	2.6	=	3.1	26 - lb/d	=	3	=	4	19 - mg/L	0	01/07 - Weekly	CP - COMPOS	
					Permit Req.	<=	25.6 MO AVG	<=	38.5 WKLY AVG	26 - lb/d	<=	15 MO AVG	<=	22.5 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
12_2015_McNeelyCoverLetter.pdf	pdf	46020
2015_12_McNeely_OverflowReport.pdf	pdf	97363
12_2015_McNeelyMOR.pdf	pdf	35296
201512_McNeely_Bypassletter.pdf	pdf	673758

Report Last Saved By

MCNEELY LAKE WQTC MSD

User: kevin.ries@louisvillemsd.org

Date/Time:

2016-01-15 09:08 (Time Zone: -05:00)

Name: Kevin Ries

E-Mail: kevin.ries@louisvillemsd.org

McNeely Lake		Report for		Dec-15		Tot. Exc.=		0					
Tot. Flow=		4.32505		Concentrations				Pounds					
Date	Flow	TSS	BOD	NH3	Ecoli	TSS	BOD	NH3	Tot. Phos.	D.O.	p.H.	TRC	Tot.N
12/1/15	0.321									7	6.8	0.01	
12/2/15	0.193									7.2	6.9	0.01	
12/3/15	0.124	3	3	0.2		3.112	3.112	0.207	1.15	7.6	6.3	0.01	11.69
12/4/15	0.099				17					8.6	6.6	0.01	
12/5/15	0.101									7.5	6.2	0.01	
12/6/15	0.107									7.7	6	0.01	
12/7/15	0.093									8.5	6.4	0.01	
12/8/15	0.088	42	4	0.5		30.706	2.924	0.366	2.61	8.5	6.4	0.01	19.05
12/9/15	0.087				9					8.5	6.2	0.01	
12/10/15	0.092									8.5	6	0.01	
12/11/15	0.080									8.1	6.1	0.01	
12/12/15	0.079									8.4	6.9	0.01	
12/13/15	0.084									8.5	6.7	0.01	
12/14/15	0.093									7.8	6.3	0.01	
12/15/15	0.091	3	3	0.34		2.275	2.275	0.258	4.43	8.3	6.2	0.01	26.35
12/16/15	0.083				8					8.4	6	0.01	
12/17/15	0.074									8.5	6.2	0.01	
12/18/15	0.067									8.5	6.1	0.01	
12/19/15	0.069									8.8	6.2	0.01	
12/20/15	0.079									9.3	6	0.01	
12/21/15	0.076									8.5	6	0.01	
12/22/15	0.091	5	3	0.34		3.795	2.277	0.258	4.3	7.9	6.1	0.01	30.75
12/23/15	0.131				70					8.3	6.2	0.01	
12/24/15	0.202									8.1	6.2	0.01	
12/25/15	0.159									8	6.3	0.01	
12/26/15	0.189									8.2	6.2	0.01	
12/27/15	0.426									7.6	7	0.01	
12/28/15	0.396									7	6.6	0.01	
12/29/15	0.256									7.2	6.7	0.01	
12/30/15	0.165									8.6	6.7	0.01	
12/31/15	0.130									8.6	6.9	0.01	
Average	0.140	13	3	0.3	17.11	10	2.647	0.27	3.1	8.14	6	0.01	21.96
Maximum	0.426	42	4	0.5	70.00	31	3.112	0.4	4.4	9.30	7	0.01	30.75
Exceed. Day Viol. Mo. Viol	4	0	0	0	0	0	0	0					
Minimum	0.0665 MIN		MAX							7.00	6.00	0.01	

December 02, 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: McNeely Lake WQTC- KPDES Permit: - KY0029416


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 01, 2015, referencing Work Order 2467155 as a bypass. 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: The characteristic of this rain event precipitated a larger amount of rain than previously forecasted. We were unable to mobilize staff to the McNeely Treatment facility before the bypass occurred. Upon arrival, due to the increased flow rates, the operator found biosolids bypassing secondary treatment. The plant operator immediately turned off the blowers to the aeration tanks and allowed the biosolids to settle which stopped the bypass. The total bypassed volume 31,000 gallons received full disinfection and dechlorination treatment. The design flow is 0.205 MGD with a peak flow rate of 0.574 MG. The 24 hour flow was 0.321 MGD.
- Period of noncompliance: Starting 07:25 AM on December 01, 2015 and stopping 09:10 AM on December 01, 2015.
- Steps taken or planned to reduce, eliminate and prevent recurrence: This Plant is to be eliminated within the next few months.
- Additional comments: Plant is to be eliminated. MSD personnel cleaned the contact tank.

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



Report Selections: Period: 12/01/2015 00:00 thru 12/31/2015 23:59, treatment Plant: MSD0228 MCNEELY LAKE, 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
KY0029416	MSD0228	MCNEELY LAKE	PENNSYLVANIA RUN	CENT

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SPL Sewer Treatment Plant	MSD0228	10300 ROD N REEL RD		PENNSYLVANIA RUN	STREAM

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	2467155		12/01/2015	THOMPSON	OPS BSHIFT CENTRAL	REPAIRED - ISSUE RESOLVED	12/01/2015	BYPASS AT WQTC	UNAUTHORIZED DISCHAGE - WATERS	12/01/15 09:10 AM	

Discharge Reporting:

Discharge Amount:	31,000 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT
Clean Up:	DUE TO HIGH FLOW IN CREEK NO CLEAN UP
Control Zone:	SIGNS
Impact:	SOLIDS
Repair:	OPERATOR TURNED AIR OFF PLANT TO STOP SOLIDS FROM GOING OVER WEIR
Public Notification:	SIGNS

Notifications:

11/23/15 1:00 pm	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO 'DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV'
11/23/15 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: 1

Total Work Orders Printed: 1