



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

June 6, 2014

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 – May 2014**

Dear Ms. 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 May 2014.

This plant had one exceedance for E-coli. Our 7 day geo mean permit limit is 240. The E-coli 7 day geo exceedance was 740, which occurred the week of May 8th through 14th. We are unable to determine the cause of the E-coli violation. Pre Effluent chlorine residuals were an average of 1.98 for that week. As a precaution, we increased the chlorine feed from 8 to 13 LBs/day and sulfur dioxide feed from 12 to 17 LBs/day. Follow up sampling indicates the plant is now in compliance.

There were no bypasses or overflows to report.

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/McNeely 05.14

Enclosures

cc: T. Singleton
R. Shaw



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DMR Copy of Record

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

Report Dates & Status			
Monitoring Period:	From 05/01/14 to 05/31/14	DMR Due Date:	06/28/14
Status:	NetDMR Validated		

Considerations for Form Completion

Principal Executive Officer			
First Name:	Greg	Title:	Exec. Dir.
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									19 - mg/L	28/30 - 28 Per Month	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				=	8			12 - SU	24/30 - 24 Per Month	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	=	6.8	=	11.5	26 - lb/d	=	9	=	14	19 - mg/L	01/07 - Weekly	24 - COMP24		
					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	1 - Effluent Gross	0	--	Sample						=	29	=	34	19 - mg/L	01/07 - Weekly	24 - COMP24		
					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	=	0.39	=	0.5	26 - lb/d	=	0.5	=	0.7	19 - mg/L	01/07 - Weekly	24 - COMP24		
					Permit Req.	<=	6.84 MO AVG	<=	10.3 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						=	3.1	=	4.2	19 - mg/L	01/07 - Weekly	24 - COMP24		
					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	=	0.109	=	0.144	03 - MGD						99/99 - Continuous	RC - RCORDR		
					Permit Req.		Req Mon MO AVG		Req Mon WKLY AVG	03 - MGD					0	99/99 - Continuous	RC - RCORDR		
					Value NODI														
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample						=	0.01	<	0.01	19 - mg/L	28/30 - 28 Per Month	GR - GRAB		
					Permit Req.						<=	.011 MO AVG	<=	.019 WKLY AVG	19 - mg/L	0	01/07 - Weekly	GR - GRAB	
					Value NODI														
X 51040	E. coli	1 - Effluent Gross	0	--	Sample						=	69	=	740	3Z - CFU/100mL	06/30 - Six Per Month	GR - GRAB		
					Permit Req.						<=	130 30DA GEO	<=	240 7 DA GEO	3Z - CFU/100mL	1	01/07 - Weekly	GR - GRAB	
					Value NODI														
80082	BOD, carbonaceous, 05 day, 20 C	1 - Effluent Gross	0	--	Sample	=	4.4	=	5.9	26 - lb/d	=	6	=	8	19 - mg/L	01/07 - Weekly	24 - COMP24		
					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

Parameter Code	Parameter Name	Monitoring Location	Field	Type	Description	Acknowledge
51040	E. coli	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes

Comments
See cover letter.

Attachments

Name	Type	Size
McNEELY052014_MOR.pdf	pdf	25066
McNEELY052014_COVER.pdf	pdf	19528

Report Last Saved By

MCNEELY LAKE WQTC MSD

User: kevin.ries@louisvillemsd.org

Date/Time:

2014-06-23 14:46 (Time Zone: -04:00)

Name: Kevin Ries

E-Mail: kevin.ries@louisvillemsd.org

McNeely Lake		Report for		May-14		Tot. Exc.=		1 Violation					
Tot. Flow=	3.3664	Concentrations				Pounds							
Date	Flow	TSS	BOD	NH3	Ecoli	TSS	BOD	NH3	Tot. Phos.	D.O.	p.H.	TRC	Tot.N
5/1/14	0.144									7	7.3	0.01	
5/2/14	0.109									7.8	7	0.01	
5/3/14	0.100									7.5	7	0.01	
5/4/14	0.090	12	6	0.22		8.969	4.485	0.164	2.04	7.6	7.1	0.01	24.61
5/5/14	0.075				37					7.7		0.01	
5/6/14	0.086									7.6	6.1	0.01	
5/7/14	0.102									7.6	6.6	0.01	
5/8/14	0.089	3	8	0.56		2.220	5.920	0.414	3.87	7.6	6.6	0.01	30.51
5/9/14	0.079				2420					7.4	6.3	0.01	
5/10/14	0.135												
5/11/14	0.120									7.6	6.5	0.01	
5/12/14	0.100				363					7.1	6.9	0.01	
5/13/14	0.095				462					7.3	6.9	0.01	
5/14/14	0.186									7.6	7.1	0.01	
5/15/14	0.308												
5/16/14	0.176									7.8	6.5	0.01	
5/17/14	0.129									8.5	7.6	0.01	
5/18/14	0.112									8.2	7.1	0.01	
5/19/14	0.098	14	5	0.67		11.469	4.096	0.549	2.43	8.4	7.1	0.01	25.81
5/20/14	0.096				7					8.4	7.3	0.01	
5/21/14	0.092									7.4	6.9	0.01	
5/22/14	0.112									7.7	7.1	0.01	
5/23/14	0.096									8.1	7	0.01	
5/24/14	0.091									7.8	7	0.01	
5/25/14	0.090									8.1	7.1	0.01	
5/26/14	0.091	6	4	0.56		4.538	3.025	0.424	4.18	8.6	6.6	0.01	33.61
5/27/14	0.074				1					8.1		0.01	
5/28/14	0.078									7.9		0.01	
5/29/14	0.075									7.4		0.01	
5/30/14	0.071									7.8	6.5	0.01	
5/31/14	0.070									7.3	6.4	0.01	
Average	0.109	9	6	0.5	68.70	7	4.381	0.39	3.1	7.76	7	0.01	28.64
Maximum	0.308	14	8	0.7	2420.00	11	5.920	0.5	4.2	8.60	8	0.01	33.61
Exceed.	1	0	0	0	1	0	0	0	0				