



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)

June 19, 2014

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

**Re: MSD Metro Operations  
Shadow Wood WQTC; KPDES No.: KY0031810  
Discharge Monitoring Reports for May 2014.**

Dear Ms. Edwards:


Attached is the Discharge Monitoring Reports (DMRs) and the Monthly Operator Report (MOR) for the Shadow Wood WQTC; KPDES No.: KY0031810 for the month of May 2014.

There were no exceedences or bypasses to reports for this month.

Also attached is an overflow report.

If you have any questions concerning the attached DMRs, please contact me at (502)587-5856.

Sincerely,



Kevin Thompson  
Process Supervisor, East Region

KT/Shadow Wood 05/14.

Enclosures

cc: T. Singleton  
R. Shaw



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

DMR Copy of Record

<b>Permit</b>			
Permit #:	KY0031810	Permittee:	SHADOWWOOD WQTC MSD
Major:	No	Permittee Address:	5497 FOREST LAKE DR LOUISVILLE, KY 40059
Permitted Feature:	001 External Outfall	Discharge:	001-1 SANITARY WASTEWATER
Facility:		Facility Location:	SHADOWWOOD WQTC MSD 5497 FOREST LAKE DR LOUISVILLE, KY 40059

<b>Report Dates &amp; Status</b>			
Monitoring Period:	From 05/01/14 to 05/31/14	DMR Due Date:	06/28/14
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

<b>Principal Executive Officer</b>			
First Name:	Greg	Title:	Executive Director
Last Name:	Heitzman	Telephone:	

**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	=	13.2	=	31.7	26 - lb/d	=	12	=	29	19 - mg/L	0	01/07 - Weekly	CP - COMPOS	
					Permit Req.	<=	21.3 MO AVG	<=	31.9 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	=					=	21	=	23	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	=	0.28	=	0.7	26 - lb/d	=	0.3	=	0.4	19 - mg/L	0	01/07 - Weekly	CP - COMPOS	
					Permit Req.	<=	1.42 MO AVG	<=	2.13 WKLY AVG	26 - lb/d	<=	2 MO AVG	<=	3 WKLY AVG	19 - mg/L	0	01/07 - Weekly	24 - COMP24	
					Value NODI														
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample	=					=	0.2	=	0.3	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	=	0.049	=	0.215	03 - MGD						0	99/99 - Continuous	CN - CONTIN	
					Permit Req.		Req Mon MO AVG		Req Mon WKLY AVG	03 - MGD						0	99/99 - Continuous	CN - CONTIN	
					Value NODI														
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample						<	0.01	<	0.01	19 - mg/L	0	29/30 - 29 Per Month	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						=	1	=	1	13 - #/100mL	0	01/07 - Weekly	GR - GRAB	
					Permit Req.						<=	130 30DA GEO	<=	240 7 DA GEO	13 - #/100mL	0	01/07 - Weekly	GR - GRAB	
					Value NODI														
80082	BOD, carbonaceous, 05 day, 20 C	1 - Effluent Gross	0	--	Sample	=	2.35	=	5.4	26 - lb/d	=	3	=	3	19 - mg/L	0	01/07 - Weekly	CP - COMPOS	
					Permit Req.	<=	7.09 MO AVG	<=	10.64 WKLY AVG	26 - lb/d	<=	10 MO AVG	<=	20 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**

<b>Attachments</b>		
Name	Type	Size
201405_SHADOWWOOD_OverflowReport.pdf	pdf	71504
201405ShadowWood_MOR.pdf	pdf	8653
201405ShadowWood_coverletter.pdf	pdf	17361

**Report Last Saved By**  
 SHADOWWOOD WQTC MSD

User: kevin.thompson@louisvillemsd.org  
Name: Kevin Thompson  
E-Mail: kevin.thompson@louisvillemsd.org

Date/Time: 2014-06-24 07:40 (Time Zone: -04:00)

SHADOW WOOD		Report for		May-14		Tot. Exc.=		0							
Tot. Flow=	1.45521	Concentrations				Pounds		Conc.		D.O.		p.H.		TRC	
Date	Flow	TSS	BOD	NH3	Ecoli	TSS	BOD	NH3	T Phos						Tot. N
5/1/14	0.002													<0.010	
5/2/14															
5/3/14	0.030									8		7.7	<0.010		
5/4/14	0.046	6	3	0.22		2.294	1.147	0.084	0.1	7.8		8	<0.010	18.11	
5/5/14	0.124				1					7.7		7.4	<0.010		
5/6/14	0.042									7.2		7.1	<0.010		
5/7/14	0.041												<0.010		
5/8/14	0.017												<0.010		
5/9/14	0.003												<0.010		
5/10/14	0.031												<0.010		
5/11/14	0.215	10	3	0.39		17.897	5.369	0.698	0.154	7.6		7.5	<0.010	22.11	
5/12/14	0.044				1					7.3		7.3	<0.010		
5/13/14	0.041									7.1		7.1	<0.010		
5/14/14	0.040									7.4		7.2	<0.010		
5/15/14	0.038									7.3		7.7	<0.010		
5/16/14	0.023									7.4		7.3	<0.010		
5/17/14	0.020									7.6		7.5	<0.010		
5/18/14	0.041	3	2	0.28		1.024	0.683	0.096	0.125	8.8		7.6	<0.010	21.91	
5/19/14	0.041				1					8		7.5	<0.010		
5/20/14	0.042									7.5		7.3	<0.010		
5/21/14	0.042									7.5		7.3	<0.010		
5/22/14	0.131	29	2	0.22		31.693	2.186	0.240	0.263	7.7		7.2	<0.010	23.31	
5/23/14	0.023				1					7.5		7.2	<0.010		
5/24/14	0.004									7.4		7.3	<0.010		
5/25/14	0.004												<0.010		
5/26/14	0.076									8.4		7.2	<0.010		
5/27/14	0.120									8.8		7.4	<0.010		
5/28/14	0.057									7.4		7.2	<0.010		
5/29/14	0.028									7.2		7.1	<0.010		
5/30/14	0.037									7.4		7.3	<0.010		
5/31/14	0.054									7.6		7.4	<0.010		
Average	0.049	12	3	0.3	1.00	13	2.346	0.28	0.2	7.65		7	<0.010	21.36	
Maximum	0.215	29	3	0.4	1.00	32	5.369	0.7	0.3	8.80		8	<0.010	23.31	
Exceed.	2	0	0	0	0	0	0	0	0						



Report Selections: Period: 05/01/2014 00:00 thru 05/31/2014 23:59, treatment Plant: MSD0404 SHADOW WOOD, 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
KY0031810	MSD0404	SHADOW WOOD	HARRODS CREEK	EAST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	47148	5489 FOREST LAKE DR		HARRODS CREEK	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	2164659		5/22/14 9:40 am	SINGLETON	OPS BSHIFT EAST	REPAIRED - ISSUE RESOLVED	05/22/2014	OBSTRUCTION-N OT GREASE / ROOTS	UNAUTHORIZED DISCHAGE - WATERS	05/22/14 10:42 AM	

**Discharge Reporting:**

Discharge Amount:	620 GAL
Cause:	ROCK FROM CONSTRUCTION FOUND IN SEWER OBSTRUCTING FLOW
Clean Up:	MSD CLEANED AND SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS PLACED
Impact:	SEWAGE OBSERVED
Repair:	CONTRACTOR REMOVED ROCKS FROM SEWER
Public Notification:	TEMPORARY SIGNS PLACED AROUND THE AFFECTED AREA

**Notifications:**

5/15/14 1:00 pm	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'
5/15/14 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