



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

April 20, 2015

Ms. Cheryl Edwards
Kentucky Division of Water
200 Fair Oaks Lane, 4th Floor
Frankfort, Kentucky 40601

**RE: Cedar Creek WQTC, KPDES No: KY0098540
Discharge Monitoring Report-March 2015**

Dear Ms. Edwards:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Cedar Creek WQTC, KPDES No.: KY0098540 for the month of March 2015.

There were no exceedances, or overflows to report.

Also attached is a bypass report and the first quarter Biomonitoring report.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Kevin Thompson", written over a white background.

Kevin Thompson
Process Supervisor Central Region

KLT/Cedar Creek 03.15.doc

Enclosures

cc: T. Singleton
R. Shaw



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

DMR Copy of Record

Permit

Permit #:	KY0098540	Permittee:	CEDAR CREEK WQTC MSD	Facility:	CEDAR CREEK WQTC MSD
Major:	Yes	Permittee Address:	8405 CEDAR CREEK RD LOUISVILLE, KY 40211	Facility Location:	8405 CEDAR CREEK RD LOUISVILLE (JEFFERSON,KY), KY 40211
Permitted Feature:	001 External Outfall	Discharge:	001-2 NEW EXPANSION		

Report Dates & Status

Monitoring Period:	From 03/01/15 to 03/31/15	DMR Due Date:	04/28/15	Status:	NetDMR Validated
---------------------------	----------------------------------	----------------------	-----------------	----------------	-------------------------

Considerations for Form Completion

Principal Executive Officer

First Name:	Greg	Title:	Executive Director	Telephone:	502-540-6000
Last Name:	Heitzman				

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	=	9				=	19	- mg/L			0	01/01 - Daily 03/07 - Three Per Week	GR - GRAB GR - GRAB				
					Permit Req.	>=	7	INST MIN							19				- mg/L			
					Value NODI																	
00400	pH	1 - Effluent Gross	0	--	Sample	=	6.7				=	8.6	12 - SU		0	01/01 - Daily 03/07 - Three Per Week	GR - GRAB GR - GRAB					
					Permit Req.	>=	6	MINIMUM			<=	9	MAXIMUM	12				- SU				
					Value NODI																	
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	915	=	1756	26 - lb/d	=	14	=	25	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS				
					Permit Req.	<=	1876	MO AVG	<=	2815	MX WK AV	26 - lb/d	<=	30	MO AVG				<=	45	MX WK AV	19 - mg/L
					Value NODI																	
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample	=	9082	=	10573	26 - lb/d	=	178	=	304	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS				
					Permit Req.		Req Mon	MO AVG		Req Mon	MX WK AV	26 - lb/d		Req Mon	MO AVG					Req Mon	MX WK AV	19 - mg/L
					Value NODI																	
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	2	--	Sample	=	53	=	158	26 - lb/d	=	1	=	4	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS				
					Permit Req.	<=	625	MO AVG	<=	938	MX WK AV	26 - lb/d	<=	10	MO AVG				<=	15	MX WK AV	19 - mg/L
					Value NODI																	
00610	Nitrogen, ammonia total [as N]	G - Raw Sewage Influent	0	--	Sample	=	648	=	835	26 - lb/d	=	12	=	15	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS				
					Permit Req.		Req Mon	MO AVG		Req Mon	MX WK AV	26 - lb/d		Req Mon	MO AVG					Req Mon	MX WK AV	19 - mg/L
					Value NODI																	
00665	Phosphorus, total [as P]	1 - Effluent Gross	2	--	Sample	=	26	=	46	26 - lb/d	=	0.4	=	0.6	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS				
					Permit Req.	<=	125	MO AVG	<=	188	MX WK AV	26 - lb/d	<=	2	MO AVG				<=	3	MX WK AV	19 - mg/L
					Value NODI																	
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	7.435	=	18.426	03 - MGD						0	99/99 - Continuous 99/99 - Continuous	CN - CONTIN CN - CONTIN				
					Permit Req.		Req Mon	MO AVG		Req Mon	DAILY MX	03 - MGD										
					Value NODI																	
74055	Coliform, fecal general	1 - Effluent Gross	0	--	Sample						=	4	=	7	13 - #/100mL	0	03/07 - Three Per Week 03/07 - Three Per Week	GR - GRAB CP - COMPOS				
					Permit Req.						<=	200	30DA GEO	<=	400				7 DA GEO	13 - #/100mL		
					Value NODI																	
80082	BOD, carbonaceous, 05 day, 20 C	1 - Effluent Gross	0	--	Sample	=	265	=	408	26 - lb/d	=	4	=	5	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS				
					Permit Req.	<=	625	MO AVG	<=	938	MX WK AV	26 - lb/d	<=	10	MO AVG				<=	15	MX WK AV	19 - mg/L
					Value NODI																	
80082	BOD, carbonaceous, 05 day, 20 C	G - Raw Sewage Influent	0	--	Sample	=	6280	=	9706	26 - lb/d	=	134	=	287	19 - mg/L	0	03/07 - Three Per Week 03/07 - Three Per Week	CP - COMPOS CP - COMPOS				
					Permit Req.		Req Mon	MO AVG		Req Mon	MX WK AV	26 - lb/d		Req Mon	MO AVG					Req Mon	MX WK AV	19 - mg/L
					Value NODI																	
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample						=	97			23 - %	0	01/30 - Monthly 01/30 - Monthly	CA - CALCTD CA - CALCTD				
					Permit Req.						>=	85	MO MIN						23 - %			
					Value NODI																	
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample						=	92			23 - %	0	01/30 - Monthly 01/30 - Monthly	CA - CALCTD CA - CALCTD				
					Permit Req.						>=	85	MO MIN						23 - %			
					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
CedarCreekbypassletter.pdf	pdf	62868
20153_CedarCreek_OverflowReport.pdf	pdf	74501
201503_CedarCreek_coverletter.pdf	pdf	46214
201503_CedarCreek_MOR.pdf	pdf	114923

Report Last Saved By

CEDAR CREEK WQTC MSD

User: kevin.thompson@louisvillemsd.org

Date/Time: 2015-04-23 13:07 (Time Zone: -04:00)

Name: Kevin Thompson

E-Mail: kevin.thompson@louisvillemsd.org

DMR Copy of Record

Permit

Permit #: KY0098540	Permittee: CEDAR CREEK WQTC MSD	Facility: CEDAR CREEK WQTC MSD
Major: Yes	Permittee Address: 8405 CEDAR CREEK RD LOUISVILLE, KY 40211	Facility Location: 8405 CEDAR CREEK RD LOUISVILLE (JEFFERSON,KY), KY 40211
Permitted Feature: 001 External Outfall	Discharge: 001-Y METALS/BIOMONITORING/QUARTERLY	

Report Dates & Status

Monitoring Period: From 01/01/15 to 03/31/15	DMR Due Date: 04/28/15	Status: NetDMR Validated
---	-------------------------------	---------------------------------

Considerations for Form Completion

Principal Executive Officer

First Name: Greg	Title: Executive Director	Telephone: 502-540-6000
Last Name: Heitzman		

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
00900	Hardness, total [as CaCO3]	1 - Effluent Gross	0	--	Sample						=	237		=	237	19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Permit Req.											0	01/90 - Quarterly	CP - COMPOS
					Value NODI													
01025	Cadmium, dissolved [as Cd]	1 - Effluent Gross	0	--	Sample						<	0.5		<	0.5	19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Permit Req.											0	01/90 - Quarterly	CP - COMPOS
					Value NODI													
01040	Copper, dissolved [as Cu]	1 - Effluent Gross	0	--	Sample						<	1		<	1	19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Permit Req.											0	01/90 - Quarterly	CP - COMPOS
					Value NODI													
01049	Lead, dissolved [as Pb]	1 - Effluent Gross	0	--	Sample						<	1		<	1	19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Permit Req.											0	01/90 - Quarterly	CP - COMPOS
					Value NODI													
01090	Zinc, dissolved [as Zn]	1 - Effluent Gross	0	--	Sample						=	15		=	15	19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Permit Req.											0	01/90 - Quarterly	CP - COMPOS
					Value NODI													
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample						=	32		=	32	19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Permit Req.											0	01/90 - Quarterly	CP - COMPOS
					Value NODI													
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.5		<	0.5	19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Permit Req.											0	01/90 - Quarterly	CP - COMPOS
					Value NODI													
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample						<	1		<	1	19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Permit Req.											0	01/90 - Quarterly	CP - COMPOS
					Value NODI													
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample						=	6		=	6	19 - mg/L	01/90 - Quarterly	CP - COMPOS
					Permit Req.											0	01/90 - Quarterly	CP - COMPOS
					Value NODI													
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample									<	1	2G - tox chronic	01/90 - Quarterly	CP - COMPOS
					Permit Req.											0	01/90 - Quarterly	CP - COMPOS
					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

No attachments.

Report Last Saved By

CEDAR CREEK WQTC MSD

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

Date/Time: 2015-04-22 12:37 (Time Zone: -04:00)

March 16, 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: Cedar Creek WQTC- KPDES Permit: KY0098540

Dear Mr. Roth:

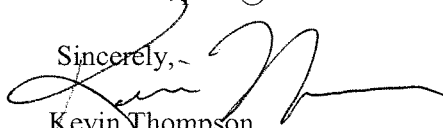
This plant experienced a bypass event and has been reported through our electronic notification system at approximately 01:00 PM on March 14, 2015, referencing Work Order 2325349 as a rain event discharge. This letter serves as a written report of the bypass as required by 401 KAR 5:065.

Provided below are the details of the bypass event:

- Description of the noncompliance and its cause: On March 14, 2015, Cedar Creek WQTC bypassed tertiary and UV treatment due to reducing flow to the UV channels to protect the UV equipment from damage which prevented a shut down of the UV system. Plant flow was at a maximum of 23.544 MGD. Approximately 35,000 gallons was bypassed. The design flow at Cedar Creek WQTC is 7.5 MG. Flow during the duration of the bypass was 1.037 MGD.
- Period of noncompliance: Starting 06:50 AM on March 14, 2015 and stopping 08:00 AM on March 14, 2015.
- Steps taken or planned to reduce, eliminate and prevent recurrence: MSD will audit the plant performance of this past rain event and evaluate the wet weather SOP to ensure process optimization occurs. MSD is currently evaluating feasibility of an automation project..
- Additional comments: 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: 03/01/2015 00:00 thru 03/31/2015 23:59, treatment Plant: MSD0289 CEDAR CREEK, 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
KY0098540	MSD0289	CEDAR CREEK	CEDAR CREEK	CENT

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	81710	9905 FAIRMOUNT RD		BIG RUN	GROUND

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV:RAIN EVENT DISCHARGE	2319416		3/4/15 9:40 am	SINGLETON	OPS BSHIFT CENTRAL	BEYOND APPROVED DESIGN STORM	10/06/2013	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHAGE - WATERS	03/04/15 10:00 AM	

Discharge Reporting:

Discharge Amount:	100 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS AND BARRICADES PLACED
Impact:	SEWAGE OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
Public Notification:	TEMPORARY SIGNS AND BARRICADES PLACED AROUND THE AFFECTED AREA

Notifications:

3/4/15 1:00 pm	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'
3/4/15 1:00 am	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'



Report Selections: Period: 03/01/2015 00:00 thru 03/31/2015 23:59, treatment Plant: MSD0289 CEDAR CREEK, 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
KY0098540	MSD0289	CEDAR CREEK	CEDAR CREEK	CENT

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SPL Sewer Treatment Plant	MSD0289	8605 CEDAR CREEK RD		CEDAR 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	2325349		3/14/15 6:50 am	MARKS JR	OPS ASHIFT	BEYOND APPROVED DESIGN STORM	03/14/2015	BYPASS AT WQTC	UNAUTHORIZED DISCHAGE - WATERS	03/14/15 08:00 AM	

Discharge Reporting:

Discharge Amount:	35,000 GAL
Cause:	Rain event caused lack of system capacity of the sand filter system
Clean Up:	MSD cleaned & sanitized the area
Control Zone:	temporary signs posted
Impact:	water overflowing sand filter
Repair:	Site found during rain event recon- will monitor & evaluate for repair
Public Notification:	MSD used temporary signs to warn public

Notifications:

3/14/15 1:00 pm	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'
3/14/15 1:00 am	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: 2