



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

March 17, 2014

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-February 2014**

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 February 2014.

Also attached are a bypass letter and an overflow report.

There were no exceedences.

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

Sincerely,

A handwritten signature in cursive script that reads "Duane V. Wright".

Duane V. Wright
Process Supervisor Central Region

DVW/Cedar Creek 02.14.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
Major:	Yes	Permittee Address:	8405 CEDAR CREEK RD LOUISVILLE, KY 40211
Permitted Feature:	001 External Outfall	Discharge:	001-2 NEW EXPANSION
Facility:		Facility Location:	CEDAR CREEK WQTC MSD 8405 CEDAR CREEK RD LOUISVILLE, KY 40211

Report Dates & Status			
Monitoring Period:	From 02/01/14 to 02/28/14	DMR Due Date:	03/28/14
Status:	NetDMR Validated		

Considerations for Form Completion			
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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	=	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			12 - SU	0	28/30 - 28 Per Month 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	=	157	=	249	26 - lb/d	=	4	=	6	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	=	6268	=	9156	26 - lb/d	=	168	=	267	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	=	48	=	100	26 - lb/d	=	1	=	3	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	=	415	=	451	26 - lb/d	=	11	=	13	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	=	5	=	8	26 - lb/d	=	0.1	=	0.2	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	=	4.926	=	12.061	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						=	5	=	49	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	=	96	=	117	26 - lb/d	=	3	=	3	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	=	3276	=	4433	26 - lb/d	=	87	=	112	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						=	98			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
201402_CCWQTC_OverflowReport.pdf	pdf	71021
CC02052014_BYPASS.pdf	pdf	22004
CC022014_MOR.pdf	pdf	44978
CC022014_cover.pdf	pdf	16917

Report Last Saved By

CEDAR CREEK WQTC MSD

User: kevin.ries@louisvillemsd.org	Date/Time: 2014-03-19 14:49 (Time Zone: -04:00)
Name: Kevin Ries	
E-Mail: kevin.ries@louisvillemsd.org	

DATE	TOTAL FLOW (MILLION GALLONS)	RAW SEWAGE		SETTLABLE SOLIDS (mg/L)			DISSOLVED OXYGEN (mg/L)			SUSPENDED SOLIDS (mg/L)			5 DAY CBOD (mg/L)			ACTIVATED SLUDGE			AERATION BASIN						SLUDGE HANDLING				FINAL						
		GRIT REMOVED (CUBIC FEET)	SCREENINGS (CUBIC FEET)	RAW	FINAL	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	STREAM ABOVE	FINAL EFFLUENT	STREAM BELOW	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	RETURN		WASTED	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) x 1000	MLVSS (mg/L) x 1000	SETTLED SLUDGE VOLUME		RAW		HAULED		NH3-N (mg/L)	FECAL COLIFORM (COLONIES/100ML)	Total Phosphorus			
																		GAL/DAY X 1000	MLSS X 1000					GAL/DAY X 1000	30 MIN.	60 MIN.	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS				% DRY SOLIDS	% VOLATILE SOLIDS	WITHDRAWN GALLONS X 1000
1	3.12				6.8				9.5								2.45	75000					290												
2	4.38				6.5				9.4		175	7	109			4	2.35	50000					270							4.30	68	0.194			
3	4.82				6.6	17.0			9.4		158	6	135		2	2.48	6610	80000			2240	1860	270						2.70	20	0.187				
4	5.02				6.7	14.0			9.5		180	6	93		3	3.52	5220	75000			2620	2180	280					0.84	86	0.204					
5	12.06				6.6	14.0			9.8							3.32	6220	57500			1730	1510	200												
6	6.65				6.8				9.7							4.71	5940	55000			1980	1640	200												
7	5.01				6.7				9.8							4.31	7120	80000			2790	2260	270												
8	4.76				6.9				9.4							3.11							280												
9	4.31				6.6				9.5		155	3	107		2	3.33		75000					290						1.50	4	0.104				
10	3.92				6.8	18.0			10.0		122	3	63		2	3.38	6850	82500			3170	2570	400					0.46	2	0.1					
11	3.65				6.7	20.0			9.7		67	2	50		2	3.63	6410	80000			2940	2320	290					0.38	2	0.1					
12	3.84				6.7	20.0			9.9							3.93	6800	94500			3180	2730	400												
13	3.59				6.6				9.6							4.00	6290	92500			2940	2480	380												
14	4.01				6.7				9.6							4.25	6980	75000			3400	2880	400												
15	5.28				6.7				9.9							4.61		84000					300												
16	4.73				6.5				9.5		245	3	96		2	4.52		60000					310						0.94	4	0.1				
17	6.09				6.6	14.0			9.4		80	4	41		2	4.24	7320	85000			3130	2650	440					1.00	2	0.13					
18	7.81				6.8	18.0			9.6		33		25			4.34	6870	77500			2960	2510	400												
19	6.10				6.7	14.0			9.2			4			2	4.44	5640	82500			2110	1750	300					0.91	2	0.1					
20	5.36				6.6				9.1							4.50	5910	77500			2540	1990	350												
21	6.08				6.9				9.3							4.32	8680	75000			2610	2160	340												
22	5.16				6.9				9.4							4.21		62500					320												
23	4.56				6.9				9.5		320	4	134		5	4.17		87500					330						0.91	2	0.118				
24	3.94				6.4	13.0			9.8		285	3	111		2	4.08	7320	85000			3670	3030	300				0.5	0.44	2	0.1					
25	3.64				6.6	18.0			9.7		195	3	77		2	4.32	7060	97500			3550	3090	520					0.28	2	0.118					
26	3.52				6.7	16.0			9.4							4.34	7130	92500			3170	2570	480			2.8									
27	3.36				6.9				9.6							4.42	6800	87500			3510	2870	500												
28	3.15				6.8				10.0							4.39	6250	82500			3340	2670	480												
29																																			
30																																			
31																																			
Tot.	137.93															109.7																			
Avg.	4.93				6.7	16.3			9.6		168	4	87		3	3.917	6671	78092.6			2879	2386	342.5				1.65		1.22	5	0.13				

RESIDENTIAL COMMERCIAL INDUSTRIAL FLOW CBOD TSS OPERATOR CERT. NO.

46916 20965 32851 Joseph Shaun Smith 20987

TOTAL NUMBER OF SEWER CONNECTIONS
 SEWER CONNECTIONS 0 X 4 = 0 SEWERED POPULATION

OPERATOR 502-239-7695
 PLANT TELEPHONE



700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

February 7, 2014

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

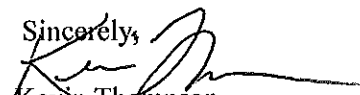
Dear Mr. Roth:

This plant experienced a bypass event and has been reported through our electronic notification system at approximately 01:00 PM on February 05, 2014, referencing Work Order 2107913 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 February 5, 2014, MSD personnel found secondary clarifier effluent water overflowing to waters of the U.S. at the tertiary sand filter channel. MSD personnel discovered the tertiary sand filter hydraulic relief gate was only partially opened. We are investigating what appears to be operator error that may have attributed to this bypass. Approximately 100 gallons of partially treated sewage bypassed. The bypassed volume received full preliminary and secondary treatment. However, it did not receive tertiary filter treatment or UV disinfection treatment. Peak flow during bypass was 23.12 MGD. Plant design flow is 7.5 MG.
- Period of noncompliance: Starting 02:30 AM on February 05, 2014 and stopping 02:45 AM on February 05, 2014.
- Steps taken or planned to reduce, eliminate and prevent recurrence: MSD personnel manually opened the tertiary sand filter hydraulic relief gate to stop the bypass. We are updating the Standard Operating Procedures (SOP), including wet weather procedures, for Cedar Creek WQTC and will train staff on the updated SOP.
- Additional comments: No additional comments.

Please advise if you have any questions concerning this information. You can contact me on my office telephone at (502)-587-5856, my cell phone at (502)-475-2224 or via email at kevin.thompson@louisvillemsd.org.

Sincerely,

Kevin Thompson
Process Supervisor-Operations



Mr. Charlie Roth, District Supervisor
KY Division of Water
Page 2

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



Report Selections: Period: 02/01/2014 00:00 thru 02/28/2014 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	2107913		2/5/14 2:30 am	MARKS JR	OPS ASHIFT	REPAIRED - ISSUE RESOLVED	02/05/2014	BYPASS AT WQTC	UNAUTHORIZED DISCHAGE - WATERS	02/05/14 02:45 AM	

Discharge Reporting:

Discharge Amount:	100 GAL
Cause:	bypass gate failed to open Automactically causing 100 gallons to come out of the filter building and down the manhole
Clean Up:	no debris ,processed water
Control Zone:	signs posted
Impact:	clear water observed
Repair:	manually opened filter bypass gate
Public Notification:	msd used signs to warn public

Notifications:

1/30/14 1:00 pm	DISNOT	Email notification of unauthorized discharge sent to 'DischargeNotices@louisvillemsd.org, Sayre.Dennis@epamail.epa.gov'
1/30/14 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