



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

January 13, 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-December 2013**

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 December 2013.

There were no exceedences, bypasses or overflows to report.

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 12.13.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 12/01/13 to 12/31/13	DMR Due Date:	01/28/14
Status:	NetDMR Validated		

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	=	8									19 - mg/L	0	01/01 - Daily	GR - GRAB
					Permit Req.	>=	7 INST MIN									19 - mg/L		03/07 - Three Per Week	GR - GRAB
					Value NODI														
00400	pH	1 - Effluent Gross	0	--	Sample	=	7					=	7		12 - SU	0	01/01 - Daily	GR - GRAB	
					Permit Req.	>=	6 MINIMUM				<=	9 MAXIMUM			12 - SU		03/07 - Three Per Week	GR - GRAB	
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	108	=	140	26 - lb/d		=	3	=	4	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS
					Permit Req.	<=	1876 MO AVG	<=	2815 MX WK AV	26 - lb/d		<=	30 MO AVG	<=	45 MX WK AV	19 - mg/L		03/07 - Three Per Week	CP - COMPOS
					Value NODI														
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample	=	6163	=	7568	26 - lb/d		=	165	=	245	19 - mg/L	0	03/07 - Three Per Week	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		03/07 - Three Per Week	CP - COMPOS
					Value NODI														
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	2	--	Sample	=	43	=	100	26 - lb/d		=	1	=	4	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS
					Permit Req.	<=	625 MO AVG	<=	938 MX WK AV	26 - lb/d		<=	10 MO AVG	<=	15 MX WK AV	19 - mg/L		03/07 - Three Per Week	CP - COMPOS
					Value NODI														
00610	Nitrogen, ammonia total [as N]	G - Raw Sewage Influent	0	--	Sample	=	503	=	572	26 - lb/d		=	14	=	21	19 - mg/L	0	03/07 - Three Per Week	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		03/07 - Three Per Week	CP - COMPOS
					Value NODI														
00665	Phosphorus, total [as P]	1 - Effluent Gross	2	--	Sample	=	4	=	6	26 - lb/d		=	0.1	=	0.1	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS
					Permit Req.	<=	125 MO AVG	<=	188 MX WK AV	26 - lb/d		<=	2 MO AVG	<=	3 MX WK AV	19 - mg/L		03/07 - Three Per Week	CP - COMPOS
					Value NODI														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	4.779	=	11.544	03 - MGD							0	99/99 - Continuous	CN - CONTIN
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD								99/99 - Continuous	CN - CONTIN
					Value NODI														
74055	Coliform, fecal general	1 - Effluent Gross	0	--	Sample							=	3	=	4	13 - #/100mL	0	03/07 - Three Per Week	GR - GRAB
					Permit Req.							<=	200 30DA GEO	<=	400 7 DA GEO	13 - #/100mL		03/07 - Three Per Week	CP - COMPOS
					Value NODI														
80082	BOD, carbonaceous, 05 day, 20 C	1 - Effluent Gross	0	--	Sample	=	82	=	115	26 - lb/d		=	2	=	2	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS
					Permit Req.	<=	625 MO AVG	<=	938 MX WK AV	26 - lb/d		<=	10 MO AVG	<=	15 MX WK AV	19 - mg/L		03/07 - Three Per Week	CP - COMPOS
					Value NODI														
80082	BOD, carbonaceous, 05 day, 20 C	G - Raw Sewage Influent	0	--	Sample	=	3537	=	4395	26 - lb/d		=	94	=	119	19 - mg/L	0	03/07 - Three Per Week	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		03/07 - Three Per Week	CP - COMPOS
					Value NODI														
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample							=	98			23 - %	0	01/30 - Monthly	CA - CALCTD
					Permit Req.							>=	85 MO MIN			23 - %		01/30 - Monthly	CA - CALCTD
					Value NODI														
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample							=	98			23 - %	0	01/30 - Monthly	CA - CALCTD
					Permit Req.							>=	85 MO MIN			23 - %		01/30 - Monthly	CA - CALCTD
					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
CC122013_COVER.pdf	pdf	87977
CC122013_MOR.pdf	pdf	53952

Report Last Saved By

CEDAR CREEK WQTC MSD

User: kevin.ries@louisvillemsd.org	Date/Time: 2014-01-21 09:11 (Time Zone: -05:00)
Name: Kevin Ries	
E-Mail: kevin.ries@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, KY 40211
Permitted Feature:	001 External Outfall	Discharge:	001-Y METALS/BIOMONITORING/QUARTERLY		

Report Dates & Status					
Monitoring Period:	From 10/01/13 to 12/31/13	DMR Due Date:	01/28/14	Status:	NetDMR Validated

Considerations for Form Completion

Principal Executive Officer					
First Name:	Greg	Title:	Exec. Dir.	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						=	235		=	235	19 - mg/L	03/90 - Three Every Quarter 01/90 - Quarterly	CP - COMPOS CP - COMPOS
					Permit Req.													
					Value NODI													
01025	Cadmium, dissolved [as Cd]	1 - Effluent Gross	0	--	Sample						<	0.001		<	0.001	19 - mg/L	03/90 - Three Every Quarter 01/90 - Quarterly	CP - COMPOS CP - COMPOS
					Permit Req.													
					Value NODI													
01040	Copper, dissolved [as Cu]	1 - Effluent Gross	0	--	Sample						<	0.006		<	0.006	19 - mg/L	03/90 - Three Every Quarter 01/90 - Quarterly	CP - COMPOS CP - COMPOS
					Permit Req.													
					Value NODI													
01049	Lead, dissolved [as Pb]	1 - Effluent Gross	0	--	Sample						<	0.08		<	0.08	19 - mg/L	03/90 - Three Every Quarter 01/90 - Quarterly	CP - COMPOS CP - COMPOS
					Permit Req.													
					Value NODI													
01090	Zinc, dissolved [as Zn]	1 - Effluent Gross	0	--	Sample						=	0.024		=	0.024	19 - mg/L	03/90 - Three Every Quarter 01/90 - Quarterly	CP - COMPOS CP - COMPOS
					Permit Req.													
					Value NODI													
01094	Zinc, total recoverable	1 - Effluent Gross	0	--	Sample						=	0.026		=	0.026	19 - mg/L	03/90 - Three Every Quarter 01/90 - Quarterly	CP - COMPOS CP - COMPOS
					Permit Req.													
					Value NODI													
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.001		<	0.001	19 - mg/L	03/90 - Three Every Quarter 01/90 - Quarterly	CP - COMPOS CP - COMPOS
					Permit Req.													
					Value NODI													
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.08		<	0.08	19 - mg/L	03/90 - Three Every Quarter 01/90 - Quarterly	CP - COMPOS CP - COMPOS
					Permit Req.													
					Value NODI													
01119	Copper, total recoverable	1 - Effluent Gross	0	--	Sample						<	0.006		<	0.006	19 - mg/L	03/90 - Three Every Quarter 01/90 - Quarterly	CP - COMPOS CP - COMPOS
					Permit Req.													
					Value NODI													
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample									<	1	2G - tox chronic	03/90 - Three Every Quarter 01/90 - Quarterly	CP - COMPOS CP - COMPOS
					Permit Req.									<=	1 DAILY MX	2G - tox chronic		
					Value NODI													

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Edit Check Errors
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Comments

Attachments		
Name	Type	Size
CC122013_COVER.pdf	pdf	87977

Report Last Saved By
CEDAR CREEK WQTC MSD

User:	kevin.ries@louisvillemsd.org	Date/Time:	2014-01-21 09:09 (Time Zone: -05:00)
Name:	Kevin Ries		

NAME OF TREATMENT PLANT CEDAR CREEK WTP COUNTY JEFFERSON MONTH OF: December 2013
 KPDES PERMIT NUMBER KY0098540 PLANT CAPACITY 7.5 MGD RECEIVING STREAM CEDAR CREEK

DATE	TOTAL FLOW (MILLION GALLONS)	RAW SEWAGE		pH			SETTLEABLE SOLIDS (mg/L)			DISSOLVED OXYGEN (mg/L)			SUSPENDED SOLIDS (mg/L)			5 DAY CBOD (mg/L)			ACTIVATED SLUDGE			AERATION BASIN						SLUDGE HANDLING					FINAL		Total Phosphorus			
		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	GAL/DAY X 1000	MLSS x1000	GAL/DAY X 1000	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)						
																								30 MIN.	60 MIN.	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS			WITHDRAWN GALLONS X 1000					
1	3.07			6.1	7.2				7.6		305		2	158		2	1.87	5740	82500	1.8	2520	2180	350	300									4.10	7	0.1			
2	2.95			6.5	6.9	18.0			7.5		230		3	96		2	1.87	5740	82500	1.8	2520	2180	350	300									5.10	2	0.1			
3	2.74			6.7	7.0	22.0			7.9		200		2	102		2	1.91	5490	65000	2.6	2610	2200	350	300									3.00	4	0.1			
4	2.66			6.8	7.0				7.5								1.92	5470	67500	2.0	2300	1960	300	250														
5	3.74			6.6	6.8				8.7								1.91	5640	74000	3.2	2610	2250	320	300														
6	5.14			6.8	6.9				9.2								1.88	5910	82000	3.4	2470	2170	310	300														
7	6.36			6.6	6.8				9.6								2.21	75000		3.4			320	300														
8	5.49			6.6	7.2				9.7		155		2	106		2	3.12		72000	2.0			350	300									0.32	2	0.1			
9	4.93			6.8	7.1	24.0			9.6		115		2	79		2	3.33	5870	82500	2.6	2710	2280	350	300									0.17	2	0.1			
10	4.59			6.7	7.0	17.0			9.8		132		3	74		2	3.43	6040	85000	2.8	2870	2380	340	300									0.24	4	0.1			
11	4.15			6.8	7.0				10.0								3.31	5770	97500	2.7	2850	2410	430	350														
12	3.88			6.9	6.8				10.0								3.27	5190	97500	2.8	2920	2460	450	350														
13	3.73			6.7	6.9				9.9								3.27	4650	97500	2.9	2290	1900	450	350														
14	6.44			6.9	6.9				10.0								3.58		77500	3.1			420	370														
15	6.73			6.7	6.8				9.7		125		2	73		2	2.54		55000	2.7			420										0.50	11	0.1			
16	3.90			6.6	6.7	16.0			9.8		135		3	80		2	1.34	15680	80000	3.3	2620	2230	410	340									0.18	3	0.1			
17	4.22			6.8	6.8				9.8		140		6	82		2	2.85	4690	17500	1.8	2490	2070	320	280									0.15	2	0.161			
18	4.29			6.8	6.8				9.6								4.47	5310	60000	6.8	2330	1800	300	250														
19	3.68			6.6	6.6				9.6								4.44	5900	60000	1.9	2910	2300	420	350														
20	3.58			6.6	6.8				9.6								4.13	5640	97000	3.8	2800	2220	380	300														
21	8.12			6.6	7.0				10.0								4.05		90000	2.6	3120	2450	360	320														
22	11.54			6.6	7.0				10.0		100		2	48		2	3.75		77000				180	150									0.68	3	0.1			
23	6.36			6.6	7.0				9.6								5.87	3540	60000	2.8	1660	1130	200	180														
24	5.23			6.5	7.0				9.8								6.68		60000	2.5			400	350														
25	4.68			6.7	6.9				9.4		200		3	120		2	6.47		90000	3.1			500	390								0.62	2	0.107				
26	4.39			6.8	6.9	21.0			8.9		144		3	106		2	4.07	8020	147500	2.0	3760	3110	550	450								1.70	2	0.1				
27	3.70			6.7	7.1	17.0			9.1								3.06	6780	110000	2.2	3410	2690	500	350														
28	3.69			6.6	6.6				9.2								3.30		110000	2.0	3480	2676	570	420														
29	5.27			6.6	6.8				8.6								3.32		100000	2.0	3370	2670	520	400														
30	4.74			7.0	7.2				9.8								3.14	7240	127000	3.0	3290	2650	500	480														
31	4.14			6.8	7.0				9.4								3.23	5180	80000	3.2	3130	2480	480	370														
Tot.	148.15																101.8																					
Avg.	4.78			6.7	6.9	19.3			9.3		165		3	94		2	3.394	6187.5	82145.2	2.771	2805	2290	390.3	325									1.40	3	0.106			

RESIDENTIAL _____ INDUSTRIAL WASTE POPULATION EQUIVALENT _____
 COMMERCIAL _____ 45516 _____ 21961 _____ 31333 _____ Joseph Shaun Smith _____ 20987 _____
 INDUSTRIAL _____ FLOW _____ CBOD _____ TSS _____ OPERATOR _____ CERT. NO. _____

TOTAL NUMBER OF SEWER CONNECTIONS _____ 0 _____
 SEWER CONNECTIONS _____ 0 _____ X _____ 4 _____ = _____ 0 _____ SEWERED POPULATION _____
 502-239-7695 _____
 PLANT TELEPHONE _____