



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

November 7, 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-October 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 October 2014.

There were no exceedances, overflow or bypasses to 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", is written over a horizontal line.

Kevin Thompson
Process Supervisor Central Region

KLT/Cedar Creek 10.14.doc

Enclosures

cc: T. Singleton
R. Shaw



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

DMR Copy of Record

Permit

Permit #:

KY0098540

Major:

Yes

Permittee:

CEDAR CREEK WQTC MSD

Permittee Address:

8405 CEDAR CREEK RD
LOUISVILLE, KY 40211

Facility:

CEDAR CREEK WQTC MSD

Facility Location:

8405 CEDAR CREEK RD
LOUISVILLE, KY 40211

Permitted Feature:

001
External Outfall

Discharge:

001-2
NEW EXPANSION

Report Dates & Status

Monitoring Period:

From 10/01/14 to 10/31/14

DMR Due Date:

11/28/14

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

Greg

Last Name:

Heitzman

Title:

Executive Director

Telephone:

502-540-6000

No Data Indicator (NODI)

Form NODI:

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Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					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						=	7.6					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						=	6.3			=	7.6	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	=	43	=	61	26 - lb/d			=	2	=	3	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	=	6818	=	7836	26 - lb/d			=	269	=	351	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	1	--	Sample	=	12	=	16	26 - lb/d			=	0.4	=	0.5	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS
					Permit Req.	<=	250 MO AVG	<=	375 MX WK AV	26 - lb/d			<=	4 MO AVG	<=	6 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	=	493	=	579	26 - lb/d			=	19	=	20	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	1	--	Sample	=	2	=	3	26 - lb/d			=	0.1	=	0.1	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS
					Permit Req.	<=	63 MO AVG	<=	94 MX WK AV	26 - lb/d			<=	1 MO AVG	<=	1.5 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	=	3.386	=	9.089	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								=	4	=	12	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	=	87	=	134	26 - lb/d			=	3	=	3	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	=	4134	=	4786	26 - lb/d			=	159	=	204	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						=	99					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
201410_CedarCreek_COVERLETTER.pdf	pdf	16954
201410_CedarCreek_MOR.pdf	pdf	39210
Report Last Saved By		
CEDAR CREEK WQTC MSD		
User:	kevin.thompson@louisvillemsd.org	Date/Time: 2014-11-25 10:15 (Time Zone: -05:00)
Name:	Kevin Thompson	
E-Mail:	kevin.thompson@louisvillemsd.org	

NAME OF TREATMENT PLANT CEDAR CREEK WTPCOUNTY JEFFERSONMONTH OF: October 2014KPDES PERMIT NUMBER KY0098540PLANT CAPACITY 7.5 MGDRECEIVING STREAM CEDAR CREEK

DATE	TOTAL FLOW (MILLION GALLONS)	TREATMENT CAPACITY															RECEIVING STREAM										CEDAR CREEK									
		RAW SEWAGE		pH		SETTLABLE SOLIDS (mg/L)		DISSOLVED OXYGEN (mg/L)		SUSPENDED SOLIDS (mg/L)		5 DAY CBOD (mg/L)		ACTIVATED SLUDGE			AERATION BASIN				SETTLED SLUDGE VOLUME				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	30 MIN.	60 MIN.	GALLONS x 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS	WITHDRAWN GALLONS x 1000	NH3-N (mg/L)	FECAL COLIFORM (COL/100ML)	Total Phosphorus		
																		GAL/DAY x 1000	MLSS x1000																GAL/DAY x 1000	
1	2.26			6.5	6.5				7.7		390		1	168		3	1.63	5860	90000	3.8	3020	2200	330	300								0.28			0.035	
2	2.24			6.6	6.6	45.0			8.1		424		3	196		3	1.39	5350	70000	2.4	3030	2270	310	260								0.50	2	0.058		
3	2.56			6.8	6.8				8.5								1.57	5140	90000	2.3	2100	1420	300	220									2			
4	2.62			6.9	6.9				9.1								1.52		60000	2.5			300	250												
5	2.56			6.9	6.9				8.8		239		5	100		3	1.20		60000	3.0			300	260								0.34		0.061		
6	2.52			6.7	6.7	24.0			8.3								1.28	4660	92500	1.9	2650	1440	300	260									2			
7	2.85			6.9	6.9				8.7								1.45	5330	100000	3.0	2630	1950	270	250					1.4							
8	2.79			6.6	6.6				8.1		412		1	175		3	1.51	5210	95000	2.1	2570	1910	270	250								0.28		0.055		
9	2.62			6.8	6.8	22.0			8.4		320		1	306		3	1.30	5400	85000	3.4	2430	1990	280	250								0.67	6	0.05		
10	3.36			6.9	6.9	17.0			8.2								1.54	5710		3.5	2490	2040	280	260								20				
11	3.80			6.6	6.6				8.7								1.62		50000	3.7			280	250												
12	3.33			6.8	6.8				8.4		250		1	130		3	1.58		60000	3.2			270	250								0.34		0.032		
13	3.24			6.7	6.7				8.3								1.47	6890	90000	2.8	2630	2250	290	260									14			
14	9.09			6.9	6.9				8.7								2.18	6440	90000	2.8	2710	2250	270	250												
15	6.01			7.4	7.3				8.8		116		2	70		3	4.06	7290	90000	3.4	2340	2060	260	240				0.8				0.28		0.069		
16	5.33			7.1	7.1	28.0			8.5		132		1	101		3	4.35	6240	120000	2.5	2400	2010	270	250								0.34	2	0.068		
17	4.33			7.4	7.4	22.0			8.3								4.09	6910	90000	2.7	2610	2110	260	240									2			
18	3.79			7.6	7.6				8.6								4.31		82500	2.8			270	260												
19	3.54			7.6	7.6				8.4		266		1	204		4	4.26		100000	2.6			240	240								0.62		0.065		
20	3.29			6.4	6.4	10.0			8.8								4.23	5700	90000	2.1	3020	2290	400	320									4			
21	3.53			6.3	6.3				8.6								4.31	7220	100000	3.8	4070	3170	380	300												
22	3.65			6.6	6.6				8.4		202		1	142		3	2.80	6610	82500	3.4	3160	2440	350	300								0.56		0.058		
23	3.19			6.8	6.8	17.0			8.6		204		1	124		3	1.71	5090	75000	2.9	2270	1900	320	290				0.7				0.50	2	0.065		
24	2.84			6.7	6.7	22.0			8.4								1.85	5410		3.3	2460	2020	300	270									2			
25	3.00			6.6	6.6				8.4								1.66			3.4			300	270												
26	2.97			6.7	6.4				8.0		276		1	188		3	1.71			2.3			320	280								0.56		0.065		
27	2.72			7.2	7.4	18.0			7.6								1.69	6320	55000	3.0	2700	2140	320	300									6			
28	2.80			6.8	6.6				7.8								1.78	5460	55000	2.8	2550	1990	330	300												
29	2.66			6.7	6.7				8.0								1.80	5030	55000	2.9	2500	2060	340	290												
30	2.75			6.7	6.7				8.2								1.78	5230	55000	2.8	2520	2010	320	280												
31	2.73			6.7	6.7				8.4								1.87	6450	65000	3.1	2750	2310	360	300				0.8								
Tot.	104.95																69.5																			
Avg.	3.39			6.8	6.8	22.5			8.4		269		2	159		3	2.242	5867	79537.04	2.91	2679	2097	302.9	267.7					0.925			0.44	4	0.057		

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT

32243

26353

36202

Joseph Shaun Smith

20987

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