



700 West Liberty Street | Louisville, KY 40203-1911
Phone: 502.540.6000 | LouisvilleMSD.org

April 11, 2016

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 2016**

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 2016.

There were no exceedances, overflow or bypasses to report.

Also attached is the 1st quarter Biomonitoring report.

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

Sincerely,

Kevin Thompson
Process Supervisor Central Region

KLT/Cedar Creek 03.16.doc

Enclosures

cc: T. Singleton
R. Shaw

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:

001-1
MUNICIPAL DISCHARGE

Report Dates & Status

Monitoring Period:

From 03/01/16 to 03/31/16

DMR Due Date:

04/28/16

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

James A.

Last Name:

Parrott

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					=	8.7					19 - mg/L	0	01/01 - Daily	GR - GRAB	
					Permit Req.					>=	7 INST MIN					19 - mg/L		01/07 - Weekly	GR - GRAB	
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample					=	7.4			=	8.2	12 - SU	0	01/01 - Daily	GR - GRAB	
					Permit Req.					>=	6 MINIMUM			<=	9 MAXIMUM	12 - SU		01/07 - Weekly	GR - GRAB	
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	239	=	271	26 - lb/d			=	5	=	6	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS
					Permit Req.	<=	1877 MO AVG	<=	2815 MX WK AV	26 - lb/d			<=	30 MO AVG	<=	45 MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample							=	160	=	251	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS	
					Permit Req.								Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24	
					Value NODI															
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample							=	4	=	5	19 - mg/L	0	01/07 - Weekly	CP - COMPOS	
					Permit Req.								Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24	
					Value NODI															
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	2	--	Sample	=	15	=	20	26 - lb/d			=	0.3	=	0.3	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS
					Permit Req.	<=	626 MO AVG	<=	939 MX WK AV	26 - lb/d			<=	10 MO AVG	<=	15 MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00665	Phosphorus, total [as P]	1 - Effluent Gross	2	--	Sample							=	0.3	=	0.3	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS	
					Permit Req.							<=	2 MO AVG	<=	3 MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24	
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	6.511	=	9.623	03 - MGD							0	99/99 - Continuous	CN - CONTIN	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD								99/99 - Continuous	RE - Record (manual)	
					Value NODI															
50050	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	--	Sample	=	6.007	=	8.697	03 - MGD							0	99/99 - Continuous	CN - CONTIN	
					Permit Req.		Req Mon MO AVG		Req Mon MX WK AV	03 - MGD								99/99 - Continuous	RE - Record (manual)	
					Value NODI															
51040	E. coli	1 - Effluent Gross	0	--	Sample							=	2	=	8	13 - #/100mL	0	03/07 - Three Per Week	GR - GRAB	
					Permit Req.							<=	130 30DA GEO	<=	240 7 DA GEO	13 - #/100mL		01/07 - Weekly	GR - GRAB	
					Value NODI															
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	140	=	197	26 - lb/d			=	3	=	3	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS
					Permit Req.	<=	626 MO AVG	<=	939 MX WK AV	26 - lb/d			<=	10 MO AVG	<=	15 MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	--	Sample							=	66	=	102	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS	
					Permit Req.								Req Mon MO AVG		Req Mon MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24	
					Value NODI															
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample					=	96					23 - %	0	01/30 - Monthly	CA - CALCTD	
					Permit Req.					>=	85 MO AV MN					23 - %		01/30 - Monthly	CA - CALCTD	
					Value NODI															
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample					=	97					23 - %	0	01/30 - Monthly	CA - CALCTD	
					Permit Req.					>=	85 MO AV MN					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
201603_CedarCreek_MOR.pdf	pdf	995211
201603_CedarCreek_coverletter.pdf	pdf	414753
Report Last Saved By		
CEDAR CREEK WQTC MSD		
User:	kevin.ries@louisvillemtd.org	Date/Time: 2016-04-14 13:57 (Time Zone: -04:00)
Name:	Kevin Ries	
E-Mail:	kevin.ries@louisvillemtd.org	

DMR Copy of Record

Permit

Permit #:
Major:

KY0098540
Yes

Permittee:
Permittee Address:

CEDAR CREEK WQTC MSD
8405 CEDAR CREEK RD
LOUISVILLE, KY 40211

Facility:
Facility Location:

CEDAR CREEK WQTC MSD
8405 CEDAR CREEK RD
LOUISVILLE, KY 40211

Permitted Feature:

001
External Outfall

Discharge:

001-2
TOXICITY

Report Dates & Status

Monitoring Period:

From 01/01/16 to 03/31/16

DMR Due Date:

04/28/16

Status:

NetDMR Validated

Considerations for Form Completion

THREE 24-HOUR COMPOSITE SAMPLES ONE EACH COLLECTED EVERY OTHER DAY FOR A PERIOD OF 5 DAYS; IE - DAYS 1, 3 & 5

Principal Executive Officer

First Name:
Last Name:

James A.
Parrott

Title:

Executive Director

Telephone:

502-540-6000

No Data Indicator (NODI)

Form NODI:

--

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
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--		Sample									<	1	2G - tox chronic		01/90 - Quarterly	24 - COMP24
						Permit Req.									<=	1 MAXIMUM	2G - tox chronic	0	01/90 - Quarterly	24 - COMP24
						Value NODI														

Submission Note

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Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

CEDAR CREEK WQTC MSD

User:

kevin.ries@louisvillemsd.org

Date/Time:

2016-04-14 13:57 (Time Zone: -04:00)

Name:

Kevin Ries

E-Mail:

kevin.ries@louisvillemsd.org

NAME OF TREATMENT PLANT CEDAR CREEK WTP
KPDES PERMIT NUMBER KY0098540

COUNTY JEFFERSON
PLANT CAPACITY 7.5 MGD

MONTH OF: March 2016
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	Total Nitrogen	TOTAL FLOW INF. (MILLION GALLONS)			
		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	WASTE P	RETURN	DISSED OXYGEN (mg/L)	MLSS (mg/L) X 1000	MLVSS (mg/L) X 1000	SETTLED SLUDGE VOLUME	30 MIN.	60 MIN.	RAW		HAULED						NH3-N (mg/L)	ECOLI	
																													GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS						WITHDRAWN GALLONS X 1000
1	6.58			7.8	7.4					9.2		63		9	40		2	4	7700	73000	2.3	3650	2940	550									0.42		0.3		6.20357		
2	5.92			7.4	7.9					9.5		153		3	73		3	4	6820	97000	2.9	4440	3810	670									0.20	1	0.3	3.12	5.93664		
3	5.63			7.5	7.9					9.6		77		3	26		3	6	8000	82000	2.4	4560	3860	730									0.39	1	0.3		5.2628		
4	5.68			7.4	7.8					9.8								7	8990	85000	3.4	4980	4150	750						1.03			8			5.07133			
5	5.49			7.5	7.8					9.9								6	7370	95000	4.0	4720	3930	750													5.01361		
6	5.24			7.8	7.9					9.7								6	8830	75000	4.1	4340	3590	700													5.0206		
7	4.74			7.6	7.8					9.8								6	6930	110000	3.8	4510	3830	750													4.59014		
8	4.53			7.9	7.9					9.1		151		10	69		3	6	7800	100000	4.1	4600	3960	770									0.28		0.3		4.40365		
9	4.73			7.6	8.0					8.8		166		4	87		3	6	6910	110000	3.6	4430	3880	750									0.39	4	0.3	4.95	4.48579		
10	8.37			7.7	7.9					8.9		147		4	54		3	6	6720	125000	2.9	4240	3690	700						1.05			0.28	1	0.3		7.87618		
11	10.78			7.6	7.8					9.2								6	5540	85000	3.6	2250	2050	500										5			9.55015		
12	8.63			7.8	7.6					8.7								7	5920	85000	2.0	2410	2130	500													7.72223		
13	8.63			7.7	7.9					8.8								6	6620	85000	2.6	2260	2150	350													7.72223		
14	21.69			7.5	7.5					8.7								6	7730	60000	3.2	2350	2130	350													19.12179		
15	8.92			7.6	7.8					8.8		77		3	33		3	11	6550	70000	3.6	2410	2410	350									0.39		0.3		8.1666		
16	8.10			7.6	7.7					9.0		91		3	56		3	5	7960	70000	2.7	3420	3310	500									0.22	2	0.3	4.76	7.227		
17	6.58			7.6	7.9					9.4		248		3	50		3	5	7980	66000	4.3	3260	2840	590									0.28	2	0.3		6.13625		
18	5.32			7.8	7.9					9.3								5	7460	85000	3.5	3840	3340	590										1			5.15044		
19	5.33			7.7	7.9					9.1								5	7200	85000	4.2	3870	3300	580													4.96625		
20	5.29			7.6	7.8					9.4								5	7330	85000	4.9	3820	3270	570													4.89563		
21	4.87			7.7	8.0					9.3								6	6120	115000	2.8	4310	3620	560													4.37095		
22	4.12			7.9	7.8					9.1		168		8	61		2	5	8750	75000	4.0	3200	2860	500						1.26			0.20		0.3	4.28	4.11583		
23	4.26			7.5	8.1					9.3		392		3	171		3	5	4740	90000	4.8	3600	3170	650									0.22	1	0.3		3.99601		
24	4.57			7.6	8.1					9.7		192		8	74		2	6	6240	150000	2.5	3540	3060	690									0.20	1	0.3		4.2601		
25	5.71			7.8	8.1					9.5								6	5680	115000	4.8	3170	2830	530										1			5.24256		
26	5.00			7.7	8.2					9.3								6	8300	115000	3.1	3790	3460	670													4.71319		
27	4.91			7.5	8.1					8.8								6	8280	115000	2.5	3830	3290	550													4.5324		
28	6.06			7.4	8.0					8.8								6	5060	130000	3.1	3420	3150	500													5.6261		
29	4.93			7.4	8.1					8.9								6	5890	100000	4.9	3070	2760	500													4.69111		
30	4.52			7.8	8.0					8.9								6	5660	130000	4.7	3720	3320	580													4.26084		
31	6.70			7.9	8.1					9.5								5	6810	85000	3.6	2900	2730	510													5.88285		
Tot.	#####																	181.7																		186.21482			
Avg.	6.51			7.6	7.9					9.2		160		5	66		3	5.861	7029	95097	3.513	3642	3188	588.4						1.113			0.29	2	0.3	4.278	6.006929677		

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT
62009 FLOW
21135 CBOD
41480 TSS

Joseph Smith
OPERATOR

20987
CERT. NO.

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

502-239-7695
PLANT TELEPHONE