



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

January 14, 2020

Crystal Dennis  
300 Sower Blvd., 3rd Floor  
Frankfort, Kentucky 40601

**RE: Cedar Creek WQTC, KPDES No: KY0098540  
Discharge Monitoring Report for December 2019.**

Dear Mrs. Dennis:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operator Report (MOR) for the Cedar Creek WQTC, for the month of December 2019.

Also attached is a discharge report and the 4<sup>th</sup> quarter biomonitoring DMR.

There were no exceedances or bypasses to report.

If you have any questions concerning the attached DMR's, please contact me at (502)587-5849.

Sincerely,

Duane V. Wright  
Process Supervisor

DVW/ Cedar Creek. 12/19.

Enclosures

Cc: V. Graves  
R. Shaw

**DMR Copy of Record**

<b>Permit</b>					
Permit #:	KY0098540	Permittee:	Cedar Creek WQTC MSD	Facility:	CEDAR CREEK WQTC MSD
Major:	Yes	Permittee Address:	700 W Liberty St Louisville, KY 40203	Facility Location:	8405 CEDAR CREEK RD LOUISVILLE, KY 40291
Permitted Feature:	001 External Outfall	Discharge:	001-1 MUNICIPAL DISCHARGE		

<b>Report Dates &amp; Status</b>					
Monitoring Period:	From 12/01/19 to 12/31/19	DMR Due Date:	01/28/20	Status:	NetDMR Validated

**Considerations for Form Completion**

<b>Principal Executive Officer</b>					
First Name:	James A.	Title:	Exec. Dir.	Telephone:	502-540-6000
Last Name:	Parrott				

**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					=	8.9					19 - mg/L	01/07 - Weekly	GR - GRAB	
					Permit Req.					>=	7.0 INST MIN					19 - mg/L	0	01/07 - Weekly	GR - GRAB
					Value NODI														
00400	pH	1 - Effluent Gross	0	--	Sample					=	7.7			=	8.0	12 - SU	01/07 - Weekly	GR - GRAB	
					Permit Req.					>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU	0	01/07 - Weekly	GR - GRAB
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	716.0	=	2272.0	26 - lb/d		=	7.0	=	17.0	19 - mg/L	01/07 - Weekly	CP - COMPOS	
					Permit Req.	<=	1877.0 MO AVG	<=	2815.0 MX WK AV	26 - lb/d		<=	30.0 MO AVG	<=	45.0 MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Value NODI														
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample						=	209.0	=	432.0	19 - mg/L	01/07 - Weekly	CP - COMPOS		
					Permit Req.												0	01/07 - Weekly	24 - COMP24
					Value NODI														
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample						=	9.0	=	11.0	19 - mg/L	01/07 - Weekly	CP - COMPOS		
					Permit Req.												0	01/07 - Weekly	24 - COMP24
					Value NODI														
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	2	--	Sample	=	85.0	=	113.0	26 - lb/d		=	1.0	=	1.9	19 - mg/L	08/30 - Eight Every Month	CP - COMPOS	
					Permit Req.	<=	626.0 MO AVG	<=	939.0 MX WK AV	26 - lb/d		<=	10.0 MO AVG	<=	15.0 MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Value NODI														
00665	Phosphorus, total [as P]	1 - Effluent Gross	2	--	Sample						=	0.5	=	1.0	19 - mg/L	01/07 - Weekly	CP - COMPOS		
					Permit Req.												0	01/07 - Weekly	24 - COMP24
					Value NODI														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	8.039	=	9.68	03 - MGD							99/99 - Continuous	CN - CONTIN	
					Permit Req.												0	99/99 - Continuous	RE - Record (manual)
					Value NODI														
50050	Flow, in conduit or thru treatment plant	G - Raw Sewage Influent	0	--	Sample	=	6.985	=	8.523	03 - MGD							99/99 - Continuous	CN - CONTIN	
					Permit Req.												0	99/99 - Continuous	RE - Record (manual)
					Value NODI														
51040	E. coli	1 - Effluent Gross	0	--	Sample						=	6.0	=	17.0	13 - #/100mL	01/07 - Weekly	GR - GRAB		
					Permit Req.												0	01/07 - Weekly	GR - GRAB
					Value NODI														
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	232.0	=	535.0	26 - lb/d		=	3.0	=	4.0	19 - mg/L	01/07 - Weekly	CP - COMPOS	
					Permit Req.	<=	626.0 MO AVG	<=	939.0 MX WK AV	26 - lb/d		<=	10.0 MO AVG	<=	15.0 MX WK AV	19 - mg/L	0	01/07 - Weekly	24 - COMP24
					Value NODI														
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	--	Sample						=	100.0	=	129.0	19 - mg/L	01/07 - Weekly	CP - COMPOS		
					Permit Req.												0	01/07 - Weekly	24 - COMP24
					Value NODI														
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample						=	97.0			23 - %	01/30 - Monthly	CA - CALCTD		
					Permit Req.												0	01/30 - Monthly	CA - CALCTD
					Value NODI														
81011	Solids, suspended percent removal	K - Percent Removal	0	--	Sample						=	97.0			23 - %	01/30 - Monthly	CA - CALCTD		
					Permit Req.												0	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
CC122019_COVER.pdf	pdf	510352.0
CC122019_MOR.pdf	pdf	42752.0
DischargeReport_CedarCreek_December2019.pdf	pdf	11793.0

**Report Last Saved By**

**Cedar Creek WQTC MSD**

User: kevin.thompson@louisvillemd.org  
Name: Kevin Thompson  
E-Mail: kevin.thompson@louisvillemd.org  
Date/Time: 2020-01-21 06:53 (Time Zone: -05:00)

**Report Last Signed By**

User: WRIGHTDUANE  
Name: Duane Wright  
E-Mail: duane.wright@louisvillemd.org  
Date/Time: 2020-01-21 07:36 (Time Zone: -05:00)





<b>KPDES #</b>	<b>Facility ID</b>	<b>Water Quality Treatment Center</b>	<b>Receiving Stream of Treatment Center</b>	<b>Region</b>
KY0098540	MSD0289	CEDAR CREEK	CEDAR CREEK	CENT

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	97365	10800 FAIRMOUNT RD		BIG RUN	GROUND

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Ref No</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
: DISREV: RAIN EVENT DISCHARGE	3181606		12/01/2019	SUMMERS	SMITH	DOCUMENTE D	12/01/2019	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER AM	12/02/19 08:00	MAIN

**Discharge Reporting:**

Discharge Amount:	129,000 GAL
Cause:	CAUSED DUE TO REPAIR ON FORCE MAIN AND LIMITED CAPACITY OF PUMP STATION.
Clean Up:	WO#3182298.
Control Zone:	PLACED TEMP SIGNS & CAUTION TAPE AROUND THE DISCHARGE SITE.
Impact:	SOLIDS & HEAVY DEBRIS AROUND THE MANHOLE.
Repair:	LOCATION INCLUDED IN IOAP.
Public Notification:	TEMP SIGNS PLACED AT DISCHARGE SITE. AND PERM OVER FLOW SIGNS POSTED ALONG THE DITCH ADVISING TO AVOID CONTACT WITH DISCHARGED CONTENT.

**Notifications:**

12/1/19 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
12/1/19 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

**Total Facilities Printed: 1**

**Total Work Orders Printed: 1**

NAME OF TREATMENT PLANT CEDAR CREEK WTP COUNTY JEFFERSON MONTH OF: December 2019  
 KPDES PERMIT NUMBER KY0098540 PLANT CAPACITY 7.5 MGD RECEIVING STREAM CEDAR CREEK

DATE	TOTAL FLOW (MILLION GALLONS)	RAW SEWAGE		SETTLEABLE 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)	ECOLI	Total Phosphorus	Total Nitrogen	TOTAL FLOW INF. (MILLION GALLONS)						
																		GA/DA Y X 1000	MLSS X 1000					GA/DA Y X 1000	30 MIN.	60 MIN.	GALLONS X 1000	% DRY SOLIDS	% VOLATILE SOLIDS						% DRY SOLIDS	% VOLATILE SOLIDS	WITHDRAWN GALLONS X 1000			
		RAW	FINAL	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	STREAM ABOVE	FINAL EFFLUENT	STREAM BELOW	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	RAW	PRIMARY EFFLUENT	FINAL EFFLUENT	GA/DA Y X 1000	MLSS X 1000	GA/DA Y 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)	ECOLI	Total Phosphorus	Total Nitrogen	TOTAL FLOW INF. (MILLION GALLONS)									
1	16.02										116		17	78		4	6		30000	4.8			170											0.52			0.552			12.05829
2	12.28				7.9					9.7							5	7540	50000	4.7	2370	2130	300											1		7.93		9.55788		
3	9.50																4	5900	65000	4.8	2690	2380	350															6.59119		
4	7.65																4	9520	65000	2.6	3660	3190	500															6.82518		
5	7.60																4	9370	65000	3.5	3160	2800	380															6.86222		
6	5.64																4	10100	65000	3.4	4370	3760	590															5.08898		
7	5.55																4		65000	5.1				600													5.06879			
8	5.54										432		3	129		2	4		50000	4.2			550										0.36		1		4.95489			
9	5.58				8.0					8.9						4	9140	90000	3.0	4380	3820	600												17		7.2		4.89866		
10	6.18															2	8780	90000	5.2	3850	3320	600															5.02045			
11	5.71															2	12680	70000	5.2	2670	2400	350															4.64341			
12	5.21															2	10770	40000	5.1	2690	2340	380															4.5047			
13	5.22															2	11210	40000	4.6	2600	2380	360															4.67337			
14	8.57															3		60000	6.8				290														8.35617			
15	7.87										214		3	81		3	4		40000	6.6			310										2.60		0.3		6.84398			
16	9.87				7.7					10.1						4	8800	60000	5.4	2820	2520	320												6		8		11.1162		
17	13.72															7	2950	70000	6.8	1760	1630	200																12.79553		
18	11.24															6	5540	48000	6.8	1790	1650	240																8.9089		
19	9.64															5	2940	60000	5.1	1730	1560	220																6.85106		
20	8.81															3	9320	50000	4.9	2710	2340	350																7.3007		
21	6.60															3		50000	3.6				370														5.84462			
22	6.15										74		5	110		2	3		65000	3.2			450											4.40		0.3		5.485		
23	5.84				7.8					9.7						3	7460	65000	3.8	2680	2280	400															9		5.21279	
24	5.78															4		50000	3.3				380															5.10957		
25	5.36															4		50000	3.5				410														11.3		4.72232	
26	5.90															3	5480	100000	3.3	3650	3100	450																4.61699		
27	5.45															2	10680	60000	4.5	2460	2240	300																	4.49761	
28	4.97															2		50000	3.9				380															4.49178		
29	7.81															3		62000	3.4				360															9.80424		
30	15.17															7	5400	30000	5.8	1680	1530	200																14.15026		
31	12.77															6	3900	30000	5.9	2120	1910	250																	9.66513	
Tot.	249.22															117																							216.52086	
Avg.	8.04				7.9					9.6	209		7	100		3	3.774	7874	57580.65	4.606	2792	2464	374.5												1.97	6	0.538	8.608	6.984543871	

RESIDENTIAL COMMERCIAL INDUSTRIAL FLOW 76566 39244 66730 TSS OPERATOR Joseph Shaun Smith CERT. NO. 20987

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

502-540-6000 PLANT TELEPHONE