



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

November 24, 2020

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

**RE: Cedar Creek WQTC, KPDES No: KY0098540
Discharge Monitoring Report for October 2020.**

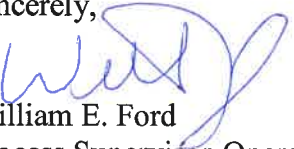
Dear Mrs. Dennis:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operator Report (MOR) for the Cedar Creek WQTC, for the month of October 2020.

There were no exceedances, bypasses, or discharges to report.

If you have any questions concerning the attached DMR's, please contact me at (502) 540-6952.

Sincerely,


William E. Ford
Process Supervisor-Operations

WEF/ Cedar Creek. 10/20.

Enclosures

Cc: V. Graves
R. Shaw

DMR Copy of Record

Permit

Permit #:

KY0098540

Major:

Yes

Permitted Feature:

001
External Outfall

Permittee:

Cedar Creek WQTC MSD

Permittee Address:

700 W Liberty St
Louisville, KY 40203

Discharge:

001-1
MUNICIPAL DISCHARGE

Facility:

CEDAR CREEK WQTC MSD

Facility Location:

8405 CEDAR CREEK RD
LOUISVILLE, KY 40291

Report Dates & Status

Monitoring Period:

From 10/01/20 to 10/31/20

DMR Due Date:

11/28/20

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	=	8.8									19 - mg/L		0	01/07 - Weekly	GR - GRAB
					Permit Req.	>=	7.0 INST MIN									19 - mg/L			01/07 - Weekly	GR - GRAB
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample	=	8.1								=	8.1	12 - SU	0	01/07 - Weekly	GR - GRAB
					Permit Req.	>=	6.0 MINIMUM								<=	9.0 MAXIMUM	12 - SU		01/07 - Weekly	GR - GRAB
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	119.0	=	152.0	26 - lb/d			=	3.0	=	3.0	19 - mg/L	0	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		01/07 - Weekly	24 - COMP24
					Value NODI															
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample								=	231.0	=	250.0	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															
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample								=	11.0	=	13.0	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	1	--	Sample	=	15.0	=	30.0	26 - lb/d			=	0.4	=	0.6	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					Permit Req.	<=	250.0 MO AVG	<=	376.0 MX WK AV	26 - lb/d			<=	4.0 MO AVG	<=	6.0 MX WK AV	19 - mg/L		01/07 - Weekly	24 - COMP24
					Value NODI															
00665	Phosphorus, total [as P]	1 - Effluent Gross	1	--	Sample								=	0.3	=	0.3	19 - mg/L	0	01/07 - Weekly	CP - COMPOS
					Permit Req.								<=	1.0 MO AVG	<=	1.5 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	=	5.967	=	6.564	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	=	5.118	=	5.729	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								=	1.0	=	2.0	13 - #/100mL	0	01/07 - Weekly	GR - GRAB
					Permit Req.								<=	130.0 30DA GEO	<=	240.0 7 DA GEO	13 - #/100mL		01/07 - Weekly	GR - GRAB
					Value NODI															
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	119.0	=	152.0	26 - lb/d			=	3.0	=	3.0	19 - mg/L	0	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		01/07 - Weekly	24 - COMP24
					Value NODI															
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	--	Sample								=	138.0	=	178.0	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															
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample						=	98.0					23 - %	0	01/30 - Monthly	CA - CALCTD
					Permit Req.						>=	85.0 MO AV MN					23 - %		01/30 - Monthly	CA - CALCTD
					Value NODI															

NAME OF TREATMENT PLANT CEDAR CREEK WTPCOUNTY JEFFERSONMONTH OF: October 2020KPDES PERMIT NUMBER KY0098540PLANT CAPACITY 7.5 MGDRECEIVING STREAM CEDAR CREEK

DATE	TOTAL FLOW (MILLION GALLONS)	RAW SEWAGE		pH	SETTLABLE 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	RETURN		WASTED	GAL/DAY x 1000	MLSS x 1000	MLVSS (mg/L) x 1000	SETTLED SLUDGE VOLUME	RAW		HAULED					WITHDRAWN GALLONS x 1000	NH3-N (mg/L)	ECOLI							
																			GAL/DAY x 1000	MLSS x 1000						GAL/DAY x 1000	DISSOLVED OXYGEN (mg/L) x 1000	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
1	4.64									228		3	178		3			1.82	7330	70000	3.4	3350	2900	400						151200	0.20			0.3		3.8488097						
2	4.42				8.1				10.2									1.84	6600	60000	4.9	3150	2800	350						151200		2				3.6448703						
3	4.36																	1.86		70000	4.4			380						50400						3.6188262						
4	4.48			7.4														1.75		60000	4.6			370						0						3.7128282						
5	4.32																	1.89	6680	70000	3.6	3070	2670	400						75600				11.4		3.6000617						
6	4.33																	1.9	6820	70000	3.9	2920	2720	390						126000						3.5900772						
7	4.19																	1.82	5980	60000	3.8	3560	2890	440						144900						3.5135241						
8	4.13									245		3	136		3			1.72	6460	80000	3.8	3420	2930	350						176400	0.22			0.3		3.49353						
9	4.08			7.5	8.1				8.8									1.67	5850	80000	4.1	3080	2670	320						152700		1				3.4696074						
10	4.33																	1.82		50000	5.5			300						0						3.5014915						
11	4.70																	1.8	5940	50000	3.2	2770	2440	300						0						3.6451452						
12	4.27																	1.7	5980	90000	4	3500	3100	300						138600				13.4		3.5162416						
13	4.03																	1.64	5660	100000	3.8	3610	3060	300						132300						3.4480443						
14	4.12																	1.6	5550	65000	4	2370	2140	250						126000						3.430095						
15	4.18									250		3	140		3			1.55	5980	65000	2.6	2490	2260	250						44100	0.45			0.3		3.4179442						
16	3.99			7.8	8.1				8.9									1.55	5470	60000	3.2	2600	1720	240						75600		2				3.4157286						
17	3.97																	1.47		50000	3.8			260						37800						3.4814951						
18	4.31																	1.43		50000	3.5			260						0						3.6105611						
19	6.16																	1.67	7240	60000	3	2820	2560	280						75600				12.5		5.290019						
20	11.65																	3.09	7180	60000	3.6	1350	1230	250						75600						11.119419						
21	7.63																	3.67	6300	65000	3.6	2650	2330	240						119700						6.5796666						
22	6.09									200		3	96		3			3.64	7310	80000	3.1	3760	3230	300						151200	0.59			0.3		5.3507385						
23	6.37			7.7	8.1				9.6									3.63	6370	75000	3	3000	2530	300						113400		1				5.6921253						
24	9.33																	3.39		50000	3.3			290						100800						8.0217657						
25	7.17																	3.4		50000	2.9			350						0						6.125174						
26	6.14																	3.56	7270	75000	2.6	3640	3090	350						75600				7.51		5.3973517						
27	5.57																	3.64	6820	75000	2.6	3760	3300	390						75600						4.8687773						
28	5.28																	3.62	6770	75000	2.5	3710	3220	440						50400						4.6500087						
29	15.73																	4.9	10800	50000	4.1	1790	1710	150												13.789652						
30	15.07																	5.71	4730	20000	3.4	1730	1580	150												12.709898						
31																		3.84		50000	3.4			250																		
Tot.	####																	78.59												2420700						153.5534772						
Avg.	5.97			7.6	8.1				9.4	231		3	138		3			2.535	6569.1	64032.3	3.587	2961	2569	309.7						86453.57	0.37	1	0.3	11.2		5.11844924						

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT

56833
FLOW40254
CBOD54686
TSSM. Stephenson
OPERATOR36033
CERT. NO.

TOTAL NUMBER OF SEWER CONNECTIONS

0

SEWER CONNECTIONS

0

X

4

=

0

SEWERED POPULATION

502-540-6000

PLANT TELEPHONE