



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

September 9, 2016

Cheryl Edwards
300 Sower Blvd., 3rd Floor
Frankfort, Kentucky 40601

**RE: Hite Creek WQTC, KPDES No: KY0022420
Discharge Monitoring Report for August 2016.**

Dear Ms. Edwards:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operator Report (MOR) for the Hite Creek WQTC, for the month of August 2016.

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

If you have any questions concerning the attached DMR's, please contact me at (502)587-5856.

Sincerely,

A handwritten signature in cursive script that reads "Duane V. Wright".

Duane V. Wright
Process Supervisor, East Region

DVW/ Hite Creek. 08/16.

Enclosures

cc: T. Singleton
R. Shaw



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

DMR Copy of Record

Permit			
Permit #:	KY0022420	Permittee:	Hite Creek WQTC MSD
Major:	Yes	Permittee Address:	700 W Liberty St Louisville, KY 40203
Permitted Feature:	001 External Outfall	Discharge:	001-2 MUNICIPAL WASTEWATER
		Facility:	HITE CREEK WQTC MSD
		Facility Location:	5512 HITT LN LOUISVILLE, KY 40285

Report Dates & Status			
Monitoring Period:	From 08/01/16 to 08/31/16	DMR Due Date:	09/28/16
		Status:	NetDMR Validated

Considerations for Form Completion
USE MO AVG FOR BOD/TSS REMV; REPT IN MINIMUM COLUMN.

Principal Executive Officer			
First Name:	James A.	Title:	Exec. Dir.
Last Name:	Parrott	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	=	7				=	7				19 - mg/L	0	01/01 - Daily	GR - GRAB
					Permit Req.	>=	7 INST MIN								19 - mg/L	0	03/07 - Three Per Week	GR - GRAB	
					Value NODI														
00400	pH	1 - Effluent Gross	0	--	Sample	=	7				=	8			12 - SU	0	01/01 - Daily	GR - GRAB	
					Permit Req.	>=	6 MINIMUM								12 - SU	0	03/07 - Three Per Week	GR - GRAB	
					Value NODI														
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	249	=	278	26 - lb/d	=	6	=	8	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS	
					Permit Req.	<=	1501 MO AVG	<=	2252 MX WK AV	26 - lb/d	<=	30 MO AVG	<=	45 MX WK AV	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS	
					Value NODI														
00530	Solids, total suspended	G - Raw Sewage Influent	0	--	Sample	=	8756	=	13989	26 - lb/d	=	214	=	341	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	0	03/07 - Three Per Week	CP - COMPOS	
					Value NODI														
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	1	--	Sample	=	12	=	17	26 - lb/d	=	0.3	=	0.4	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS	
					Permit Req.	<=	100 MO AVG	<=	150 MX WK AV	26 - lb/d	<=	2 MO AVG	<=	3 MX WK AV	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS	
					Value NODI														
00610	Nitrogen, ammonia total [as N]	G - Raw Sewage Influent	0	--	Sample	=	799	=	1098	26 - lb/d	=	19	=	23	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	0	03/07 - Three Per Week	CP - COMPOS	
					Value NODI														
00665	Phosphorus, total [as P]	1 - Effluent Gross	1	--	Sample	=	0.8	=	0.9	19 - mg/L					19 - mg/L	0	01/07 - Weekly	CP - COMPOS	
					Permit Req.	<=	1 MO AVG	<=	1.5 MX WK AV	19 - mg/L					19 - mg/L	0	01/07 - Weekly	CP - COMPOS	
					Value NODI														
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	4.739	=	7.33	03 - MGD						0	99/99 - Continuous	CN - CONTIN	
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD						0	99/99 - Continuous	CN - CONTIN	
					Value NODI														
74055	Coliform, fecal general	1 - Effluent Gross	0	--	Sample	=	4	=	9	13 - #/100mL					13 - #/100mL	0	03/07 - Three Per Week	GR - GRAB	
					Permit Req.	<=	200 30DA GEO	<=	400 7 DA GEO	13 - #/100mL					13 - #/100mL	0	03/07 - Three Per Week	GR - GRAB	
					Value NODI														
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	294	=	456	26 - lb/d	=	7	=	10	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS	
					Permit Req.	<=	500 MO AVG	<=	751 MX WK AV	26 - lb/d	<=	10 MO AVG	<=	15 MX WK AV	19 - mg/L	0	03/07 - Three Per Week	CP - COMPOS	
					Value NODI														
80082	BOD, carbonaceous [5 day, 20 C]	G - Raw Sewage Influent	0	--	Sample	=	5737	=	6410	26 - lb/d	=	142	=	174	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	0	03/07 - Three Per Week	CP - COMPOS	
					Value NODI														
80091	BOD, carb-5 day, 20 deg C, percent removal	K - Percent Removal	0	--	Sample	=	95								23 - %	0	01/30 - Monthly	CA - CALCTD	
					Permit Req.	>=	85 MO AV MN								23 - %	0	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 MIN								23 - %	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
HCMOR082016.pdf	pdf	55738
HC082016_COVER.pdf	pdf	45160

Report Last Saved By

Hite Creek WQTC MSD

User: kevin.ries@louisvillemsd.org	Date/Time: 2016-09-15 13:54 (Time Zone: -04:00)
Name: Kevin Ries	
E-Mail: kevin.ries@louisvillemsd.org	

DMR Copy of Record

Permit																			
Permit #:	KY0022420				Permittee:	Hite Creek WQTC MSD				Facility:	HITE CREEK WQTC MSD								
Major:	Yes				Permittee Address:	700 W Liberty St Louisville, KY 40203				Facility Location:	5512 HITT LN LOUISVILLE, KY 40285								
Permitted Feature:	001 External Outfall				Discharge:	001-R REASONABLE POTENTIAL													
Report Dates & Status																			
Monitoring Period:	From 08/01/16 to 08/31/16				DMR Due Date:	09/28/16				Status:	NetDMR Validated								
Considerations for Form Completion																			
Principal Executive Officer																			
First Name:	James A.				Title:	Exec. Dir.				Telephone:	502-540-6000								
Last Name:	Parrott																		
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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			
00722	Cyanide, free [amen. to chlorination]	1 - Effluent Gross	0	--	Sample					<	0.005			<	0.005	19 - mg/L		01/30 - Monthly	CP - COMPOS
					Permit Req.											19 - mg/L 0		01/30 - Monthly	CP - COMPOS
					Value NODI														
00900	Hardness, total [as CaCO3]	1 - Effluent Gross	0	--	Sample					=	214			=	214	19 - mg/L		01/30 - Monthly	CP - COMPOS
					Permit Req.											19 - mg/L 0		01/30 - Monthly	CP - COMPOS
					Value NODI														
01032	Chromium, hexavalent [as Cr]	1 - Effluent Gross	0	--	Sample					<	0.005			<	0.005	19 - mg/L		01/30 - Monthly	CP - COMPOS
					Permit Req.											19 - mg/L 0		01/30 - Monthly	CP - COMPOS
					Value NODI														
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample					<	0.00025			<	0.00025	19 - mg/L		01/30 - Monthly	CP - COMPOS
					Permit Req.											19 - mg/L 0		01/30 - Monthly	CP - COMPOS
					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					
HCMOR082016.pdf										pdf				55738					
HC082016_COVER.pdf										pdf				45160					
Report Last Saved By																			
Hite Creek WQTC MSD																			
User:	kevin.ries@louisvillemad.org				Date/Time:	2016-09-15 13:51 (Time Zone: -04:00)													
Name:	Kevin Ries																		
E-Mail:	kevin.ries@louisvillemad.org																		

NAME OF TREATMENT PLANT HITE CREEK WTP

COUNTY JEFFERSON

MONTH OF: August 2016

KPDES PERMIT NUMBER KY0022420

PLANT CAPACITY 4.4 MGD

RECEIVING STREAM HITE 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																	
		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	GALDAYS x 1000	MLSS x1000	MLVSS x 1000	WAST FD	DISSOLVED OXYGEN (mg/L)	MLSS (mg/L) x 1000	MLVSS (mg/L) x 1000	30 MIN.	60 MIN.	RAW		HAULED			NH3-N (mg/L)	FECAL COLIFORM (COLONIES/100ML)	Phosphorus mg/L	Cadmium, Total Recoverable	Hardness as CaCO3	Chromium, Hexavalent	Cyanide, Free (Amenable)	Mercury, Total Recoverable								
																											GALLONS x 1000	% DRY SOLIDS	% VOLATILE SOLIDS	% DRY SOLIDS	% VOLATILE SOLIDS									WITHDRAWN GALLONS x 1000							
																																									SETTLED SLUDGE VOLUME						
1	5.595	36	36		7.7				8.0		602		9	105		5	1.20	6.83	72.2	4.5	2.17	1.68	150						0	0.22																	
2	4.059				7.8				7.9		236		8	127		3	1.13	10.5	46	4.5	2.02	1.65	130						36	0.2	2																
3	3.795				7.8				8.0		186		3	158		4	1.19	10	59	4.4	2130	1.76	140						0	0.25	2																
4	4.177				7.6				7.9								1.34	8.59	49.3	3.1	1.8	1.62	110						69.3		2																
5	4.565	36	36		7.7				8.0								1.24	6.9	65	4	2.01	1.56	140						63																		
6	4.634				7.6				7.8								0.99	6.4	85.4	3.4	2.36	1.72	150						0																		
7	3.883				7.5				7.9								1.00	7.03	75.6	4	2.35	1.94	140						0																		
8	4.352	36	36		8.0				7.5		188		7	179		10	1.27	11	55.9	2.6	2.6	2.06	120						0	0.2		0.734															
9	4.226				7.8				7.4		238		8	192		9	1.25	10.7	62.5	3	2.8	2.23	140						0	0.3	2		0.00025	214													
10	3.978				7.5				7.3		228		9	152		10	1.25	11	62.5	4.5	2.84	2.27	130						0	0.72	4								0.005	0.005							
11	4.486				7.8				7.6								1.31	8.55	65.7	3.3	2.47	1.97	140						1.85	71	69.3		2														
12	4.16	36	36		7.4				8.0								1.28	7.61	78.8	4.3	2.58	2.06	130																								
13	4.051				7.8				7.5								1.28	6.03	92	3.9	2.5	1.98	130							24.6																	
14	3.813				7.9				7.3								1.25	5.15	92	6.1	2.37	1.85	120						0																		
15	5.725	36	36		7.8				7.6		166		7	105		4	2.25	4.06	0	5.3	2.06	1.63	100						63	0.64		0.874															
16	5				7.6				7.5		188		4	127		8	2.18	5.9	98.6	4.1	2.79	2.26	150						75.6	0.2	2																
17	6.219				7.5				7.4		108		4	172		3	2.13	6.79	72.2	3.9	2.31	1.86	130							1.73	75	18.9	0.24	8													
18	5.305				7.3				7.4								2.08	8.01	59.2	3.8	2.3	1.74	150						44.1		3																
19	4.932	36	36		7.5				7.6								1.93	5.07	105	3.7	2.87	2.28	150							56.7																	
20	6.509				7.6				7.5								1.61	7.92	75.6	4.4	2.74	2.11	150						12.6																		
21	7.33				7.5				7.8								2.00	13.9	32.9	3.7	1.99	1.49	110						0																		
22	5.86	36	36		7.9				7.8		150		5	127		8	2.12	6.25	98.6	4	2.86	2.39	150						69.3	0.2		0.593															
23	5.237				7.8				7.9		164		4	128		16	2.17	6.04	92	4.9	2.53	2.13	150					1.9		69.3	0.2	96															
24	4.79				7.7				7.6		112		6	133		7	2.12	7.88	65.7	4.7	2.37	1.87	150						69.3	0.2	2																
25	4.662				7.8				7.3								2.19	8.76	55.9	4.6	2.41	2.17	150						31.5		4																
26	4.376	36	36		7.5				8.2								2.04	5.92	92	4.5	2.52	2.02	150						50.4																		
27	4.501				7.6				7.4								1.98	8.01	59.2	4.5	2.32	2.15	150						44.1																		
28	3.973				7.5				7.6								1.88	4.72	121.6	4.5	2.84	2.6	150						12.6																		
29	4.199	36	36		7.5				7.6								1.86	8.33	62.5	4.3	2.41	1.85	150						94.5																		
30	4.057				7.6				7.5								1.87	8.1	59.2	4.2	2.28	1.76	150						31.5																		
31	4.458				7.3				7.3								2.26				0	4.3							63																		
Tot.	146.9	324	324														51.65	232	2112		2200.5	58.66						1141.50																			
Avg.	4.739	36	36		7.6				7.6		214		6	142		7	1.666	7.732	68.13	4.161	73.349	1.9553	138.7					1.827	73	36.82258	0.30	4	0.76	0.000250	214.00	0.005	0.01										

RESIDENTIAL
COMMERCIAL
INDUSTRIAL

INDUSTRIAL WASTE POPULATION EQUIVALENT

45132 FLOW 33032 CBOD 40244 TSS

Curtis E. Otto OPERATOR 20265 CERT. NO.

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

PLANT TELEPHONE